Utah
AIR QUALITY RULES

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R307. Environmental Quality, Air Quality.
R307-101. General Requirements.
R307-101-1. Foreword.

Chapter 19-2 and the rules adopted by the Air Quality Board constitute the basis for control of air pollution sources in the state. These rules apply and will be enforced throughout the state, and are recommended for adoption in local jurisdictions where environmental specialists are available to cooperate in implementing rule requirements.

National Ambient Air Quality Standards (NAAQS), National Standards of Performance for New Stationary Sources (NSPS), National Prevention of Significant Deterioration of Air Quality (PSD) standards, and the National Emission Standards for Hazardous Air Pollutants (NESHAPS) apply throughout the nation and are legally enforceable in Utah.

R307-101-2. Definitions.

Except where specified in individual rules, definitions in R307-101-2 are applicable to all rules adopted by the Air Quality Board.

"Actual Emissions" means the actual rate of emissions of a pollutant from an emissions unit determined as follows:

(1) In general, actual emissions as of a particular date shall equal the average rate, in tons per year, at which the unit actually emitted the pollutant during a two-year period which precedes the particular date and which is representative of normal source operations. The director shall allow the use of a different time period upon a determination that it is more representative of normal source operation. Actual emissions shall be calculated using the unit's actual operating hours, production rates, and types of materials processed, stored, or combusted during the selected time period.

(2) The director may presume that source-specific allowable emissions for the unit are equivalent to the actual emissions of the unit.

(3) For any emission unit, other than an electric utility steam generating unit specified in (4), which has not begun normal operations on the particular date, actual emissions shall equal the potential to emit of the unit on that date.

(4) For an electric utility steam generating unit (other than a new unit or the replacement of an existing unit) actual emissions of the unit following the physical or operational change shall equal the representative actual annual emissions of the unit, provided the source owner or operator maintains and submits to the director, on an annual basis for a period of 5 years from the date the unit resumes regular operation, information demonstrating that the physical or operational change did not result in an emissions increase. A longer period, not to exceed 10 years, may be required by the director if the director determines such a period to be more representative of normal source post-change operations.

"Acute Hazardous Air Pollutant" means any noncarcinogenic

hazardous air pollutant for which a threshold limit value - ceiling (TLV-C) has been adopted by the American Conference of Governmental Industrial Hygienists (ACGIH) in its "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, (2009)."

"Air pollutant" means a substance that qualifies as an air pollutant as defined in 42 U.S.C. Sec. 7602.

"Air Pollutant Source" means private and public sources of emissions of air pollutants.

"Air Pollution" means the presence of an air pollutant in the ambient air in such quantities and duration and under conditions and circumstances, that are injurious to human health or welfare, animal or plant life, or property, or would unreasonably interfere with the enjoyment of life or use of property as determined by the standards, rules and regulations adopted by the Air Quality Board (Section 19-2-104).

"Allowable Emissions" means the emission rate of a source calculated using the maximum rated capacity of the source (unless the source is subject to enforceable limits which restrict the operating rate, or hours of operation, or both) and the emission limitation established pursuant to R307-401-8.

"Ambient Air" means that portion of the atmosphere, external to buildings, to which the general public has access. (Section 19-2-102(4)).

"Appropriate Authority" means the governing body of any city, town or county.

"Atmosphere" means the air that envelops or surrounds the earth and includes all space outside of buildings, stacks or exterior ducts.

"Authorized Local Authority" means a city, county, city-county or district health department; a city, county or combination fire department; or other local agency duly designated by appropriate authority, with approval of the state Department of Health; and other lawfully adopted ordinances, codes or regulations not in conflict therewith.

"Board" means Air Quality Board. See Section 19-2-102(8)(a).

"Breakdown" means any malfunction or procedural error, to include but not limited to any malfunction or procedural error during start-up and shutdown, which will result in the inoperability or sudden loss of performance of the control equipment or process equipment causing emissions in excess of those allowed by approval order or Title R307.

"BTU" means British Thermal Unit, the quantity of heat necessary to raise the temperature of one pound of water one degree Fahrenheit.

"Calibration Drift" means the change in the instrument meter readout over a stated period of time of normal continuous operation when the VOC concentration at the time of measurement is the same known upscale value.

"Carbon Adsorption System" means a device containing adsorbent material (e.g., activated carbon, aluminum, silica gel), an inlet and outlet for exhaust gases, and a system for the proper

disposal or reuse of all VOC adsorbed.

"Carcinogenic Hazardous Air Pollutant" means any hazardous air pollutant that is classified as a known human carcinogen (A1) or suspected human carcinogen (A2) by the American Conference of Governmental Industrial Hygienists (ACGIH) in its "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, (2009)."

"Chargeable Pollutant" means any regulated air pollutant except the following:

(1) Carbon monoxide;

(2) Any pollutant that is a regulated air pollutant solely because it is a Class I or II substance subject to a standard promulgated or established by Title VI of the Act, Stratospheric Ozone Protection;

(3) Any pollutant that is a regulated air pollutant solely because it is subject to a standard or regulation under Section 112(r) of the Act, Prevention of Accidental Releases.

"Chronic Hazardous Air Pollutant" means any noncarcinogenic hazardous air pollutant for which a threshold limit value - time weighted average (TLV-TWA) having no threshold limit value - ceiling (TLV-C) has been adopted by the American Conference of Governmental Industrial Hygienists (ACGIH) in its "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, (2009)."

"Clean Air Act" means federal Clean Air Act as found in 42 U.S.C. Chapter 85.

"Clean Coal Technology" means any technology, including technologies applied at the precombustion, combustion, or post combustion stage, at a new or existing facility which will achieve significant reductions in air emissions of sulfur dioxide or oxides of nitrogen associated with the utilization of coal in the generation of electricity, or process steam which was not in widespread use as of November 15, 1990.

"Clean Coal Technology Demonstration Project" means a project using funds appropriated under the heading "Department of Energy-Clean Coal Technology," up to a total amount of $2,500,000,000 for commercial demonstration of clean coal technology, or similar projects funded through appropriations for the Environmental Protection Agency. The Federal contribution for a qualifying project shall be at least 20 percent of the total cost of the demonstration project.

"Clearing Index" means an indicator of the predicted rate of clearance of ground level pollutants from a given area. This number is provided by the National Weather Service.

"Commence" as applied to construction of a major source or major modification means that the owner or operator has all necessary pre-construction approvals or permits and either has:

(1) Begun, or caused to begin, a continuous program of actual on-site construction of the source, to be completed within a reasonable time; or

(2) Entered into binding agreements or contractual obligations, which cannot be canceled or modified without

substantial loss to the owner or operator, to undertake a program of actual construction of the source to be completed within a reasonable time.

"Condensable PM2.5" means material that is vapor phase at stack conditions, but which condenses and/or reacts upon cooling and dilution in the ambient air to form solid or liquid particulate matter immediately after discharge from the stack.

"Compliance Schedule" means a schedule of events, by date, which will result in compliance with these regulations.

"Construction" means any physical change or change in the method of operation including fabrication, erection, installation, demolition, or modification of a source which would result in a change in actual emissions.

"Control Apparatus" means any device which prevents or controls the emission of any air pollutant directly or indirectly into the outdoor atmosphere.

"Department" means Utah State Department of Environmental Quality. See Section 19-1-103(1).

"Director" means the Director of the Division of Air Quality. See Section 19-1-103(1).

"Division" means the Division of Air Quality.

"Electric Utility Steam Generating Unit" means any steam electric generating unit that is constructed for the purpose of supplying more than one-third of its potential electric output capacity and more than 25 MW electrical output to any utility power distribution system for sale. Any steam supplied to a steam distribution system for the purpose of providing steam to a steam-electric generator that would produce electrical energy for sale is also considered in determining the electrical energy output capacity of the affected facility.

"Emission" means the act of discharge into the atmosphere of an air pollutant or an effluent which contains or may contain an air pollutant; or the effluent so discharged into the atmosphere.

"Emissions Information" means, with reference to any source operation, equipment or control apparatus:

(1) Information necessary to determine the identity, amount, frequency, concentration, or other characteristics related to air quality of any air pollutant which has been emitted by the source operation, equipment, or control apparatus;

(2) Information necessary to determine the identity, amount, frequency, concentration, or other characteristics (to the extent related to air quality) of any air pollutant which, under an applicable standard or limitation, the source operation was authorized to emit (including, to the extent necessary for such purposes, a description of the manner or rate of operation of the source operation), or any combination of the foregoing; and

(3) A general description of the location and/or nature of the source operation to the extent necessary to identify the source operation and to distinguish it from other source operations (including, to the extent necessary for such purposes, a description of the device, installation, or operation constituting the source operation).

"Emission Limitation" means a requirement established by the Board, the director or the Administrator, EPA, which limits the quantity, rate or concentration of emission of air pollutants on a continuous emission reduction including any requirement relating to the operation or maintenance of a source to assure continuous emission reduction (Section 302(k)).

"Emissions Unit" means any part of a stationary source which emits or would have the potential to emit any pollutant subject to regulation under the Clean Air Act.

"Enforceable" means all limitations and conditions which are enforceable by the Administrator, including those requirements developed pursuant to 40 CFR Parts 60 and 61, requirements within the State Implementation Plan and R307, any permit requirements established pursuant to 40 CFR 52.21 or R307-401.

"EPA" means Environmental Protection Agency.

"EPA Method 9" means 40 CFR Part 60, Appendix A, Method 9, "Visual Determination of Opacity of Emissions from Stationary Sources," and Alternate 1, "Determination of the opacity of emissions from stationary sources remotely by LIDAR."

"Executive Director" means the Executive Director of the Utah Department of Environmental Quality. See Section 19-1-103(2).

"Existing Installation" means an installation, construction of which began prior to the effective date of any regulation having application to it.

"Facility" means machinery, equipment, structures of any part or accessories thereof, installed or acquired for the primary purpose of controlling or disposing of air pollution. It does not include an air conditioner, fan or other similar device for the comfort of personnel.

"Filterable PM2.5" means particles with an aerodynamic diameter equal to or less than 2.5 micrometers that are directly emitted by a source as a solid or liquid at stack or release conditions and can be captured on the filter of a stack test train.

"Fireplace" means all devices both masonry or factory built units (free standing fireplaces) with a hearth, fire chamber or similarly prepared device connected to a chimney which provides the operator with little control of combustion air, leaving its fire chamber fully or at least partially open to the room. Fireplaces include those devices with circulating systems, heat exchangers, or draft reducing doors with a net thermal efficiency of no greater than twenty percent and are used for aesthetic purposes.

"Fugitive Dust" means particulate, composed of soil and/or industrial particulates such as ash, coal, minerals, etc., which becomes airborne because of wind or mechanical disturbance of surfaces. Natural sources of dust and fugitive emissions are not fugitive dust within the meaning of this definition.

"Fugitive Emissions" means emissions from an installation or facility which are neither passed through an air cleaning device nor vented through a stack or could not reasonably pass through a stack, chimney, vent, or other functionally equivalent opening.

"Garbage" means all putrescible animal and vegetable matter resulting from the handling, preparation, cooking and consumption of food, including wastes attendant thereto.

"Gasoline" means any petroleum distillate, used as a fuel for internal combustion engines, having a Reid vapor pressure of 4 pounds or greater.

"Hazardous Air Pollutant (HAP)" means any pollutant listed by the EPA as a hazardous air pollutant in conformance with Section 112(b) of the Clean Air Act. A list of these pollutants is available at the Division of Air Quality.

"Household Waste" means any solid or liquid material normally generated by the family in a residence in the course of ordinary day-to-day living, including but not limited to garbage, paper products, rags, leaves and garden trash.

"Incinerator" means a combustion apparatus designed for high temperature operation in which solid, semisolid, liquid, or gaseous combustible wastes are ignited and burned efficiently and from which the solid and gaseous residues contain little or no combustible material.

"Installation" means a discrete process with identifiable emissions which may be part of a larger industrial plant. Pollution equipment shall not be considered a separate installation or installations.

"LPG" means liquified petroleum gas such as propane or butane.

"Maintenance Area" means an area that is subject to the provisions of a maintenance plan that is included in the Utah state implementation plan, and that has been redesignated by EPA from nonattainment to attainment of any National Ambient Air Quality Standard.

(a) The following areas are considered maintenance areas for ozone:

(i) Salt Lake County, effective August 18, 1997; and

(ii) Davis County, effective August 18, 1997.

(b) The following areas are considered maintenance areas for carbon monoxide:

(i) Salt Lake City, effective March 22, 1999;

(ii) Ogden City, effective May 8, 2001; and

(iii) Provo City, effective January 3, 2006.

(c) The following areas are considered maintenance areas for PM10:

(i) Salt Lake County, effective on the date that EPA approves the maintenance plan that was adopted by the Board on December 2, 2015; and

(ii) Utah County, effective on the date that EPA approves the maintenance plan that was adopted by the Board on December 2, 2015; and

(iii) Ogden City, effective on the date that EPA approves the maintenance plan that was adopted by the Board on December 2, 2015.

(d) The following area is considered a maintenance area for sulfur dioxide: all of Salt Lake County and the eastern portion

of Tooele County above 5600 feet, effective on the date that EPA approves the maintenance plan that was adopted by the Board on January 5, 2005.

"Major Modification" means any physical change in or change in the method of operation of a major source that would result in a significant net emissions increase of any pollutant. A net emissions increase that is significant for volatile organic compounds shall be considered significant for ozone. Within Salt Lake and Davis Counties or any nonattainment area for ozone, a net emissions increase that is significant for nitrogen oxides shall be considered significant for ozone. Within areas of nonattainment for PM10, a significant net emission increase for any PM10 precursor is also a significant net emission increase for PM10. A physical change or change in the method of operation shall not include:

(1) routine maintenance, repair and replacement;

(2) use of an alternative fuel or raw material by reason of an order under section 2(a) and (b) of the Energy Supply and Environmental Coordination Act of 1974, or by reason of a natural gas curtailment plan pursuant to the Federal Power Act;

(3) use of an alternative fuel by reason of an order or rule under section 125 of the federal Clean Air Act;

(4) use of an alternative fuel at a steam generating unit to the extent that the fuel is generated from municipal solid waste;

(5) use of an alternative fuel or raw material by a source:

(a) which the source was capable of accommodating before January 6, 1975, unless such change would be prohibited under any enforceable permit condition; or

(b) which the source is otherwise approved to use;

(6) an increase in the hours of operation or in the production rate unless such change would be prohibited under any enforceable permit condition;

(7) any change in ownership at a source

(8) the addition, replacement or use of a pollution control project at an existing electric utility steam generating unit, unless the director determines that such addition, replacement, or use renders the unit less environmentally beneficial, or except:

(a) when the director has reason to believe that the pollution control project would result in a significant net increase in representative actual annual emissions of any criteria pollutant over levels used for that source in the most recent air quality impact analysis in the area conducted for the purpose of Title I of the Clean Air Act, if any, and

(b) the director determines that the increase will cause or contribute to a violation of any national ambient air quality standard or PSD increment, or visibility limitation.

(9) the installation, operation, cessation, or removal of a temporary clean coal technology demonstration project, provided that the project complies with:

(a) the Utah State Implementation Plan; and

(b) other requirements necessary to attain and maintain the national ambient air quality standards during the project and

after it is terminated.

"Major Source" means, to the extent provided by the federal Clean Air Act as applicable to R307:

(1) any stationary source of air pollutants which emits, or has the potential to emit, one hundred tons per year or more of any pollutant subject to regulation under the Clean Air Act; or

(a) any source located in a nonattainment area for carbon monoxide which emits, or has the potential to emit, carbon monoxide in the amounts outlined in Section 187 of the federal Clean Air Act with respect to the severity of the nonattainment area as outlined in Section 187 of the federal Clean Air Act; or

(b) any source located in Salt Lake or Davis Counties or in a nonattainment area for ozone which emits, or has the potential to emit, VOC or nitrogen oxides in the amounts outlined in Section 182 of the federal Clean Air Act with respect to the severity of the nonattainment area as outlined in Section 182 of the federal Clean Air Act; or

(c) any source located in a nonattainment area for PM10 which emits, or has the potential to emit, PM10 or any PM10 precursor in the amounts outlined in Section 189 of the federal Clean Air Act with respect to the severity of the nonattainment area as outlined in Section 189 of the federal Clean Air Act.

(2) any physical change that would occur at a source not qualifying under subpart 1 as a major source, if the change would constitute a major source by itself;

(3) the fugitive emissions and fugitive dust of a stationary source shall not be included in determining for any of the purposes of these R307 rules whether it is a major stationary source, unless the source belongs to one of the following categories of stationary sources:

(a) Coal cleaning plants (with thermal dryers);
(b) Kraft pulp mills;
(c) Portland cement plants;
(d) Primary zinc smelters;
(e) Iron and steel mills;
(f) Primary aluminum or reduction plants;
(g) Primary copper smelters;
(h) Municipal incinerators capable of charging more than 250 tons of refuse per day;
(i) Hydrofluoric, sulfuric, or nitric acid plants;
(j) Petroleum refineries;
(k) Lime plants;
(l) Phosphate rock processing plants;
(m) Coke oven batteries;
(n) Sulfur recovery plants;
(o) Carbon black plants (furnace process);
(p) Primary lead smelters;
(q) Fuel conversion plants;
(r) Sintering plants;
(s) Secondary metal production plants;
(t) Chemical process plants;
(u) Fossil-fuel boilers (or combination thereof) totaling

more than 250 million British Thermal Units per hour heat input;

(v) Petroleum storage and transfer units with a total storage capacity exceeding 300,000 barrels;

(w) Taconite ore processing plants;

(x) Glass fiber processing plants;

(y) Charcoal production plants;

(z) Fossil fuel-fired steam electric plants of more than 250 million British Thermal Units per hour heat input;

(aa) Any other stationary source category which, as of August 7, 1980, is being regulated under section 111 or 112 of the federal Clean Air Act.

"Modification" means any planned change in a source which results in a potential increase of emission.

"National Ambient Air Quality Standards (NAAQS)" means the allowable concentrations of air pollutants in the ambient air specified by the Federal Government (Title 40, Code of Federal Regulations, Part 50).

"Net Emissions Increase" means the amount by which the sum of the following exceeds zero:

(1) any increase in actual emissions from a particular physical change or change in method of operation at a source; and

(2) any other increases and decreases in actual emissions at the source that are contemporaneous with the particular change and are otherwise creditable. For purposes of determining a "net emissions increase":

(a) An increase or decrease in actual emissions is contemporaneous with the increase from the particular change only if it occurs between the date five years before construction on the particular change commences; and the date that the increase from the particular change occurs.

(b) An increase or decrease in actual emissions is creditable only if it has not been relied on in issuing a prior approval for the source which approval is in effect when the increase in actual emissions for the particular change occurs.

(c) An increase or decrease in actual emission of sulfur dioxide, nitrogen oxides or particulate matter which occurs before an applicable minor source baseline date is creditable only if it is required to be considered in calculating the amount of maximum allowable increases remaining available. With respect to particulate matter, only PM10 emissions will be used to evaluate this increase or decrease.

(d) An increase in actual emissions is creditable only to the extent that the new level of actual emissions exceeds the old level.

(e) A decrease in actual emissions is creditable only to the extent that:

(i) The old level of actual emissions or the old level of allowable emissions, whichever is lower, exceeds the new level of actual emissions;

(ii) It is enforceable at and after the time that actual construction on the particular change begins; and

(iii) It has approximately the same qualitative significance

for public health and welfare as that attributed to the increase from the particular change.

(iv) It has not been relied on in issuing any permit under R307-401 nor has it been relied on in demonstrating attainment or reasonable further progress.

(f) An increase that results from a physical change at a source occurs when the emissions unit on which construction occurred becomes operational and begins to emit a particular pollutant. Any replacement unit that requires shakedown becomes operational only after a reasonable shakedown period, not to exceed 180 days.

"New Installation" means an installation, construction of which began after the effective date of any regulation having application to it.

"Nonattainment Area" means an area designated by the Environmental Protection Agency as nonattainment under Section 107, Clean Air Act for any National Ambient Air Quality Standard. The designations for Utah are listed in 40 CFR 81.345.

"Offset" means an amount of emission reduction, by a source, greater than the emission limitation imposed on such source by these regulations and/or the State Implementation Plan.

"Opacity" means the capacity to obstruct the transmission of light, expressed as percent.

"Open Burning" means any burning of combustible materials resulting in emission of products of combustion into ambient air without passage through a chimney or stack.

"Owner or Operator" means any person who owns, leases, controls, operates or supervises a facility, an emission source, or air pollution control equipment.

"PSD" Area means an area designated as attainment or unclassifiable under section 107(d)(1)(D) or (E) of the federal Clean Air Act.

"PM2.5" means particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 micrometers as measured by an EPA reference or equivalent method.

"PM2.5 Precursor" means any chemical compound or substance which, after it has been emitted into the atmosphere, undergoes chemical or physical changes that convert it into particulate matter, specifically PM2.5, and has been identified in the applicable implementation plan for PM2.5 as significant for the purpose of developing control measures. Specifically, PM2.5 precursors include SO2, NOx, and VOC.

"PM10" means particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers as measured by an EPA reference or equivalent method.

"PM10 Precursor" means any chemical compound or substance which, after it has been emitted into the atmosphere, undergoes chemical or physical changes that convert it into particulate matter, specifically PM10.

"Part 70 Source" means any source subject to the permitting requirements of R307-415.

"Person" means an individual, trust, firm, estate, company,

corporation, partnership, association, state, state or federal agency or entity, municipality, commission, or political subdivision of a state. (Subsection 19-2-103(4)).

"Pollution Control Project" means any activity or project at an existing electric utility steam generating unit for purposes of reducing emissions from such unit. Such activities or projects are limited to:

(1) The installation of conventional or innovative pollution control technology, including but not limited to advanced flue gas desulfurization, sorbent injection for sulfur dioxide and nitrogen oxides controls and electrostatic precipitators;

(2) An activity or project to accommodate switching to a fuel which is less polluting than the fuel used prior to the activity or project, including, but not limited to natural gas or coal reburning, or the cofiring of natural gas and other fuels for the purpose of controlling emissions;

(3) A permanent clean coal technology demonstration project conducted under Title II, sec. 101(d) of the Further Continuing Appropriations Act of 1985 (sec. 5903(d) of title 42 of the United States Code), or subsequent appropriations, up to a total amount of $2,500,000,000 for commercial demonstration of clean coal technology, or similar projects funded through appropriations for the Environmental Protection Agency; or

(4) A permanent clean coal technology demonstration project that constitutes a repowering project.

"Potential to Emit" means the maximum capacity of a source to emit a pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the source to emit a pollutant including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation or the effect it would have on emissions is enforceable. Secondary emissions do not count in determining the potential to emit of a stationary source.

"Primary PM2.5" means the sum of filterable PM2.5 and condensable PM2.5.

"Process Level" means the operation of a source, specific to the kind or type of fuel, input material, or mode of operation.

"Process Rate" means the quantity per unit of time of any raw material or process intermediate consumed, or product generated, through the use of any equipment, source operation, or control apparatus. For a stationary internal combustion unit or any other fuel burning equipment, this term may be expressed as the quantity of fuel burned per unit of time.

"Reactivation of a Very Clean Coal-Fired Electric Utility Steam Generating Unit" means any physical change or change in the method of operation associated with the commencement of commercial operations by a coal-fired utility unit after a period of discontinued operation where the unit:

(1) Has not been in operation for the two-year period prior to the enactment of the Clean Air Act Amendments of 1990, and the emissions from such unit continue to be carried in the emission

inventory at the time of enactment;

(2) Was equipped prior to shutdown with a continuous system of emissions control that achieves a removal efficiency for sulfur dioxide of no less than 85 percent and a removal efficiency for particulates of no less than 98 percent;

(3) Is equipped with low-NOx burners prior to the time of commencement of operations following reactivation; and

(4) Is otherwise in compliance with the requirements of the Clean Air Act.

"Reasonable Further Progress" means annual incremental reductions in emission of an air pollutant which are sufficient to provide for attainment of the NAAQS by the date identified in the State Implementation Plan.

"Refuse" means solid wastes, such as garbage and trash.

"Regulated air pollutant" means any of the following:

(a) Nitrogen oxides or any volatile organic compound;

(b) Any pollutant for which a national ambient air quality standard has been promulgated;

(c) Any pollutant that is subject to any standard promulgated under Section 111 of the Act, Standards of Performance for New Stationary Sources;

(d) Any Class I or II substance subject to a standard promulgated under or established by Title VI of the Act, Stratospheric Ozone Protection;

(e) Any pollutant subject to a standard promulgated under Section 112, Hazardous Air Pollutants, or other requirements established under Section 112 of the Act, including Sections 112(g), (j), and (r) of the Act, including any of the following:

(i) Any pollutant subject to requirements under Section 112(j) of the Act, Equivalent Emission Limitation by Permit. If the Administrator fails to promulgate a standard by the date established pursuant to Section 112(e) of the Act, any pollutant for which a subject source would be major shall be considered to be regulated on the date 18 months after the applicable date established pursuant to Section 112(e) of the Act;

(ii) Any pollutant for which the requirements of Section 112(g)(2) of the Act (Construction, Reconstruction and Modification) have been met, but only with respect to the individual source subject to Section 112(g)(2) requirement.

"Repowering" means replacement of an existing coal-fired boiler with one of the following clean coal technologies: atmospheric or pressurized fluidized bed combustion, integrated gasification combined cycle, magnetohydrodynamics, direct and indirect coal-fired turbines, integrated gasification fuel cells, or as determined by the Administrator, in consultation with the Secretary of Energy, a derivative of one or more of these technologies, and any other technology capable of controlling multiple combustion emissions simultaneously with improved boiler or generation efficiency and with significantly greater waste reduction relative to the performance of technology in widespread commercial use as of November 15, 1990.

(1) Repowering shall also include any oil and/or gas-fired

unit which has been awarded clean coal technology demonstration funding as of January 1, 1991, by the Department of Energy.

(2) The director shall give expedited consideration to permit applications for any source that satisfies the requirements of this definition and is granted an extension under section 409 of the Clean Air Act.

"Representative Actual Annual Emissions" means the average rate, in tons per year, at which the source is projected to emit a pollutant for the two-year period after a physical change or change in the method of operation of unit, (or a different consecutive two-year period within 10 years after that change, where the director determines that such period is more representative of source operations), considering the effect any such change will have on increasing or decreasing the hourly emissions rate and on projected capacity utilization. In projecting future emissions the director shall:

(1) Consider all relevant information, including but not limited to, historical operational data, the company's own representations, filings with the State of Federal regulatory authorities, and compliance plans under title IV of the Clean Air Act; and

(2) Exclude, in calculating any increase in emissions that results from the particular physical change or change in the method of operation at an electric utility steam generating unit, that portion of the unit's emissions following the change that could have been accommodated during the representative baseline period and is attributable to an increase in projected capacity utilization at the unit that is unrelated to the particular change, including any increased utilization due to the rate of electricity demand growth for the utility system as a whole.

"Residence" means a dwelling in which people live, including all ancillary buildings.

"Residential Solid Fuel Burning" device means any residential burning device except a fireplace connected to a chimney that burns solid fuel and is capable of, and intended for use as a space heater, domestic water heater, or indoor cooking appliance, and has an air-to-fuel ratio less than 35-to-1 as determined by the test procedures prescribed in 40 CFR 60.534. It must also have a useable firebox volume of less than 6.10 cubic meters or 20 cubic feet, a minimum burn rate less than 5 kilograms per hour or 11 pounds per hour as determined by test procedures prescribed in 40 CFR 60.534, and weigh less than 800 kilograms or 362.9 pounds. Appliances that are described as prefabricated fireplaces and are designed to accommodate doors or other accessories that would create the air starved operating conditions of a residential solid fuel burning device shall be considered as such. Fireplaces are not included in this definition for solid fuel burning devices.

"Road" means any public or private road.

"Salvage Operation" means any business, trade or industry engaged in whole or in part in salvaging or reclaiming any product or material, including but not limited to metals, chemicals, shipping containers or drums.

"Secondary Emissions" means emissions which would occur as a result of the construction or operation of a major source or major modification, but do not come from the major source or major modification itself.

Secondary emissions must be specific, well defined, quantifiable, and impact the same general area as the source or modification which causes the secondary emissions. Secondary emissions include emissions from any off-site support facility which would not be constructed or increase its emissions except as a result of the construction or operation of the major source or major modification. Secondary emissions do not include any emissions which come directly from a mobile source such as emissions from the tailpipe of a motor vehicle, from a train, or from a vessel.

Fugitive emissions and fugitive dust from the source or modification are not considered secondary emissions.

"Secondary PM2.5" means particles that form or grow in mass through chemical reactions in the ambient air well after dilution and condensation have occurred. Secondary PM2.5 is usually formed at some distance downwind from the source.

"Significant" means:

(1) In reference to a net emissions increase or the potential of a source to emit any of the following pollutants, a rate of emissions that would equal or exceed any of the following rates:

Carbon monoxide: 100 ton per year (tpy);
Nitrogen oxides: 40 tpy;
Sulfur dioxide: 40 tpy;
PM10: 15 tpy;
PM2.5: 10 tpy;
Particulate matter: 25 tpy;
Ozone: 40 tpy of volatile organic compounds;
Lead: 0.6 tpy.

"Solid Fuel" means wood, coal, and other similar organic material or combination of these materials.

"Solvent" means organic materials which are liquid at standard conditions (Standard Temperature and Pressure) and which are used as dissolvers, viscosity reducers, or cleaning agents.

"Source" means any structure, building, facility, or installation which emits or may emit any air pollutant subject to regulation under the Clean Air Act and which is located on one or more continuous or adjacent properties and which is under the control of the same person or persons under common control. A building, structure, facility, or installation means all of the pollutant-emitting activities which belong to the same industrial grouping. Pollutant-emitting activities shall be considered as part of the same industrial grouping if they belong to the same "Major Group" (i.e. which have the same two-digit code) as described in the Standard Industrial Classification Manual, 1972, as amended by the 1977 Supplement (US Government Printing Office stock numbers 4101-0065 and 003-005-00176-0, respectively).

"Stack" means any point in a source designed to emit solids,

liquids, or gases into the air, including a pipe or duct but not including flares.

"Standards of Performance for New Stationary Sources" means the Federally established requirements for performance and record keeping (Title 40 Code of Federal Regulations, Part 60).

"State" means Utah State.

"Temporary" means not more than 180 calendar days.

"Temporary Clean Coal Technology Demonstration Project" means a clean coal technology demonstration project that is operated for a period of 5 years or less, and which complies with the Utah State Implementation Plan and other requirements necessary to attain and maintain the national ambient air quality standards during the project and after it is terminated.

"Threshold Limit Value - Ceiling (TLV-C)" means the airborne concentration of a substance which may not be exceeded, as adopted by the American Conference of Governmental Industrial Hygienists in its "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, (2009)."

"Threshold Limit Value - Time Weighted Average (TLV-TWA)" means the time-weighted airborne concentration of a substance adopted by the American Conference of Governmental Industrial Hygienists in its "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, (2009)."

"Total Suspended Particulate (TSP)" means minute separate particles of matter, collected by high volume sampler.

"Toxic Screening Level" means an ambient concentration of an air pollutant equal to a threshold limit value - ceiling (TLV- C) or threshold limit value -time weighted average (TLV-TWA) divided by a safety factor.

"Trash" means solids not considered to be highly flammable or explosive including, but not limited to clothing, rags, leather, plastic, rubber, floor coverings, excelsior, tree leaves, yard trimmings and other similar materials.

"Volatile Organic Compound (VOC)" means VOC as defined in 40 CFR 51.100(s), effective as of the date referenced in R307-101-3, is hereby adopted and incorporated by reference.

"Waste" means all solid, liquid or gaseous material, including, but not limited to, garbage, trash, household refuse, construction or demolition debris, or other refuse including that resulting from the prosecution of any business, trade or industry.

"Zero Drift" means the change in the instrument meter readout over a stated period of time of normal continuous operation when the VOC concentration at the time of measurement is zero.

R307-101-3. Version of Code of Federal Regulations Incorporated by Reference.

Except as specifically identified in an individual rule, the version of the Code of Federal Regulations (CFR) incorporated throughout R307 is dated July 1, 2015.

KEY: air pollution, definitions
Date of Enactment or Last Substantive Amendment: August 4, 2016

Notice of Continuation: May 8, 2014
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)

R307. Environmental Quality, Air Quality.
R307-102. General Requirements: Broadly Applicable Requirements.
R307-102-1. Air Pollution Prohibited; Periodic Reports Required.

(1) Emission of air pollutants in sufficient quantities to cause air pollution as defined in R307-101-2 is prohibited. The State statute provides for penalties up to $50,000/day for violation of State statutes, regulations, rules or standards (See Section 19-2-115 for further details).

(2) Periodic Reports and Availability of Information. The owner or operator of any stationary air pollutant source in Utah shall furnish to the director the periodic reports required under Section 19-2-104(1)(c) and any other information as the director may deem necessary to determine whether the source is in compliance with Utah and Federal regulations and standards. The information thus obtained will be correlated with applicable emission standards or limitations and will be available to the public during normal business hours at the Division of Air Quality.

R307-102-2. Confidentiality of Information.

Any person submitting information pursuant to these regulations may request that such information be treated as a trade secret or on a confidential basis, in which case the director shall so treat such information. If no claim is made at the time of submission, the director may make the information available to the public without further notice. Information required to be disclosed to the public under State or Federal law may not be requested to be kept confidential. Justification supporting claims of confidentiality shall be provided at the time of submission on the information. Each page claimed "confidential" shall be marked "confidential business information" by the applicant and the confidential information on each page shall be clearly specified. Claims of confidentiality for the name and address of applicants for an approval order will be denied. Confidential information or any other information or report received by the director shall be available to EPA upon request and the person who submitted the information shall be notified simultaneously of its release to EPA.

R307-102-3. Reserved.

Reserved.

R307-102-4. Variances Authorized.

(1) Variance from these regulations may be granted by the Board as provided by law (See Section 19-2-113) unless prohibited by the Clean Air Act:

(a) to permit operation of an air pollution source for the time period involved in installing or constructing air pollution

control equipment in accordance with a compliance schedule negotiated by the director and approved by the Board.

(b) to permit operation of an air pollution source where there is no practicable means known or available for adequate prevention, abatement or control of the air pollutants involved. Such a variance shall be only until the necessary means for prevention, abatement or control becomes known and available, subject to the use of substitute or alternate measures the Board may prescribe.

(c) to permit operation of an air pollution source where the control measures, because of their extent or cost, must be spread over a considerable period of time.

(2) Variance requests, as set forth in Section 19-2-113, may be submitted by the owner or operator who is in control of any plant, building, structure, establishment, process or equipment.

R307-102-5. No Reduction in Pay.

In accordance with paragraph 110(a)(6), Clean Air Act as amended August 1977, owners or operators may not temporarily reduce the pay of any employee by reason of the use of a supplemental or intermittent or other dispersion dependent control system for the purposes of meeting any air pollution requirement adopted pursuant to the Clean Air Act as amended August 1977.

R307-102-6. Emissions Standards.

Other provisions of R307 may require more stringent controls than listed herein, in which case those requirements must be met.

KEY: air pollution, confidentiality of information, variances
Date of Enactment or Last Substantive Amendment: December 15, 2015
Notice of Continuation: February 6, 2013
Authorizing, and Implemented or Interpreted Law: 19-2-104; 19-2-113

R307. Environmental Quality, Air Quality.
R307-103. Administrative Procedures.
R307-103-1. Administrative Procedures.

Administrative proceedings under Utah Air Quality Act are governed by Rule R305-7.

KEY: air pollution, administrative procedures, administrative proceedings, hearings
Date of Enactment or Last Substantive Amendment: August 29, 2011
Notice of Continuation: February 5, 2015
Authorizing, and Implemented or Interpreted Law: 63G-4

R307. Environmental Quality, Air Quality.

R307-104. Conflict of Interest.
R307-104-1. Authority.

This rule establishes procedures that are necessary for promulgating federally approvable air quality standards as permitted by subsection 19-2-104(1)(b).

R307-104-2. Purpose.

R307-104 satisfies the conflict of interest requirement of 42 U.S.C. 7428 (a)(2).

R307-104-3. Disclosure of conflict of interest.

(1) This rule applies to any member of the board or body which approves permits or enforcement orders, the head of the Utah Division of Air Quality with similar powers, and the head of the Utah Department of Environmental Quality with similar powers.

(2) Every individual listed in R307-104-3(1) who is an officer, director, agent, employee, or the owner of a substantial interest in any business entity which is subject to the regulation of the agency by which the individual listed in R307-104-3(1) is employed, shall disclose any position held and the precise nature and value of the interest upon first becoming a public officer or public employee listed in R307-104-3(1), and again whenever his or her position in the business entity changes significantly or if the value of his or her interest in the entity is significantly increased.

(3) The disclosure required under R307-104-3(2) shall be made in a sworn statement filed with:

(a) the state attorney general in the case of the head of the Utah Division of Air Quality and the head of the Utah Department of Environmental Quality; and

(b) the state attorney general and the head of the agency with which the member of the board or body is affiliated in the case of a member of the board of body.

(4) This rule does not apply to instances where the total value of the interest does not exceed $2,000, and life insurance policies and annuities shall not be considered in determining the value of any such interest.

(5) Disclosures made under R307-104-3 are public information and shall be available for examination by the public.

KEY: conflict of interest, Clean Air Act
Date of Enactment or Last Substantive Amendment: March 3, 2016
Authorizing, and Implemented or Interpreted Law: 19-1-201; 19-2-104

R307. Environmental Quality, Air Quality.
R307-105. General Requirements: Emergency Controls.
R307-105-1. Air Pollution Emergency Episodes.

(1) Determination of an episode and its extent or stage shall be made by the director taking into consideration the levels of pollutant concentrations contained at 40 CFR Section 51.151 and

40 CFR Section 51, Appendix L, and summarized in the table below:

TABLE

AIR POLLUTION EPISODE CRITERIA
(values in micrograms/cubic meter unless stated otherwise)

POLLUTANT	ALERT	WARNING	EMERGENCY	NEVER TO BE EXCEEDED
SULFUR DIOXIDE 24-hour average	800 (0.3 ppm)	1,600 (0.6 ppm)	2,100 (0.8 ppm)	2,620 (1.0 ppm)
PM10 24-hour average	350	420	500	600
CARBON MONOXIDE				
8-hour average	17,000 (15 ppm)	34,000 (30 ppm)	46,000 (40 ppm)	57,500 (50 ppm)
4-hour average				86,300 (75 ppm)
1-hour average				144,000 (125 ppm)
OZONE				
1-hour average	400 (0.2 ppm)	800 (0.4 ppm)	1,000 (0.5 ppm)	
2-hour average				1,200 (0.6 ppm)
NITROGEN DIOXIDE 1-hour average	1130 (0.6 ppm)	2,260 (1.2 ppm)	3,000 (1.6 ppm)	3,750 (2.0 ppm)
NITROGEN DIOXIDE 24-hour average	282 (0.15 ppm)	565 (0.3 ppm)	750 (0.4 ppm)	938 (0.5 ppm)

An air pollution alert, air pollution warning, or air pollution emergency will be declared when any one of the above pollutants reaches the specified levels at any monitoring site.

In addition to the levels listed for the above pollutants, meteorological conditions are such that pollutant concentrations can be expected to remain at the above levels for twelve (12) or more hours or increase, or in the case of ozone, the situation is likely to reoccur within the next 24-hours unless control actions are taken.

ALERT The Alert level is that concentration at which first stage control action is to begin.

WARNING The warning level indicates that air quality is continuing to degrade and that additional control actions are necessary.

EMERGENCY The emergency level indicates that air quality is continuing to degrade toward a level of significant harm to the

health of persons and that the most stringent control actions are necessary.

(2) The director shall also take into consideration, to determine an episode and its extent, rate of change of concentration, meteorological forecasts, and the geographical area of the episode, including a consideration of point and area sources of emission, where applicable.

R307-105-2. Emergency Actions.

(1) If an episode is determined to exist, the Executive Director, with concurrence of the Governor shall:

(a) Make public announcements pertaining to the existence, extent and area of the episode.

(b) Require corrective measures as necessary to prevent a further deterioration of air quality.

(2) Episode termination shall be announced by the Executive Director, with concurrence of the Governor, once monitored pollutant concentration data and meteorological forecasts determine the crisis is over.

KEY: air pollution, emergency powers, governor*, air pollution
Date of Enactment or Last Substantive Amendment: September 15, 1998
Notice of Continuation: June 6, 2012
Authorizing, and Implemented or Interpreted Law: 19-2-112

R307. Environmental Quality, Air Quality.
R307-107. General Requirements: Breakdowns.
R307-107-1. Applicability and Timing.

(1) The owner or operator of a source shall report breakdowns to the director within 24 hours of the incident via telephone, electronic mail, fax, or other similar method.

(2) A detailed written description of the circumstance of the incident as described in R307-107-2, including a corrective program directed at preventing future such incidents, shall be submitted within 14 days of the onset of the incident.

(3) For those breakdowns involving only emissions that are monitored in accordance with R307-170, the reporting requirements of R307-170 shall satisfy the reporting deadlines of R307-107-1(1) and (2). In all other respects, the requirements in R307-107-1(2) and R307-107-2 shall be considered to apply in addition to the requirements of R307-170.

R307-107-2. Reporting.

(1) The breakdown incident report shall include the cause and nature of the event, estimated quantity of emissions (total and excess), time of emissions and any relevant evidence, including, but not limited to, evidence that:

(a) There was an equipment malfunction beyond the reasonable control of the owner or operator;

(b) The excess emissions could not have been avoided by better operation, maintenance or improved design of the malfunctioning component;

(c) To the maximum extent practicable, the source maintained and operated the air pollution control equipment and process equipment in a manner consistent with good practice for minimizing emissions, including minimizing any bypass emissions;

(d) Any necessary repairs were made as quickly as practicable, using off-shift labor and overtime as needed and as possible;

(e) All practicable steps were taken to minimize the potential impact of the excess emissions on ambient air quality; and

(f) The excess emissions are not part of a recurring pattern that may have been caused by inadequate operation or maintenance, or inadequate design of the malfunctioning component.

(2) The burden of proof is on the owner or operator of the source to provide sufficient information to demonstrate the elements listed in R307-107-2(1).

R307-107-3. Enforcement Discretion.

The director will evaluate, on a case-by-case basis, the information submitted in R307-107-1 and 2 to determine whether to pursue enforcement action.

KEY: air pollution, unavoidable breakdown, excess emissions
Date of Enactment or Last Substantive Amendment: July 31, 2012
Notice of Continuation: August 8, 2013
Authorizing, and Implemented or Interpreted Law: 19-2-104

R307. Environmental Quality, Air Quality.
R307-110. General Requirements: State Implementation Plan.
R307-110-1. Incorporation by Reference.

To meet requirements of the Federal Clean Air Act, the Utah State Implementation Plan (SIP) must be incorporated by reference into these rules. Copies of the SIP are available on the division's website.

R307-110-2. Section I, Legal Authority.

The Utah State Implementation Plan, Section I, Legal Authority, as most recently amended by the Air Quality Board on December 18, 1992, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-3. Section II, Review of New and Modified Air Pollution Sources.

The Utah State Implementation Plan, Section II, Review of New and Modified Air Pollution Sources, as most recently amended by the Utah Air Quality Board on December 18, 1992, pursuant to

Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-4. Section III, Source Surveillance.

The Utah State Implementation Plan, Section III, Source Surveillance, as most recently amended by the Utah Air Quality Board on December 18, 1992, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-5. Section IV, Ambient Air Monitoring Program.

The Utah State Implementation Plan, Section IV, Ambient Air Monitoring Program, as most recently amended by the Utah Air Quality Board on December 18, 1992, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-6. Section V, Resources.

The Utah State Implementation Plan, Section V, Resources, as most recently amended by the Utah Air Quality Board on December 18, 1992, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-7. Section VI, Intergovernmental Cooperation.

The Utah State Implementation Plan, Section VI, Intergovernmental Cooperation, as most recently amended by the Utah Air Quality Board on December 18, 1992, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-8. Section VII, Prevention of Air Pollution Emergency Episodes.

The Utah State Implementation Plan, Section VII, Prevention of Air Pollution Emergency Episodes, as most recently amended by the Utah Air Quality Board on December 18, 1992, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-9. Section VIII, Prevention of Significant Deterioration.

The Utah State Implementation Plan, Section VIII, Prevention of Significant Deterioration, as most recently amended by the Utah Air Quality Board on March 8, 2006, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-10. Section IX, Control Measures for Area and Point Sources, Part A, Fine Particulate Matter.

The Utah State Implementation Plan, Section IX, Control Measures for Area and Point Sources, Part A, Fine Particulate Matter, as most recently amended by the Utah Air Quality Board on December 2, 2015, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-11. Section IX, Control Measures for Area and Point Sources, Part B, Sulfur Dioxide.

The Utah State Implementation Plan, Section IX, Control Measures for Area and Point Sources, Part B, Sulfur Dioxide, as most recently amended by the Utah Air Quality Board on January 5, 2005, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-12. Section IX, Control Measures for Area and Point Sources, Part C, Carbon Monoxide.

The Utah State Implementation Plan, Section IX, Control Measures for Area and Point Sources, Part C, Carbon Monoxide, as most recently amended by the Utah Air Quality Board on November 3, 2004, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-13. Section IX, Control Measures for Area and Point Sources, Part D, Ozone.

The Utah State Implementation Plan, Section IX, Control Measures for Area and Point Sources, Part D, Ozone, as most recently amended by the Utah Air Quality Board on January 3, 2007, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-14. Section IX, Control Measures for Area and Point Sources, Part E, Nitrogen Dioxide.

The Utah State Implementation Plan, Section IX, Control Measures for Area and Point Sources, Part E, Nitrogen Dioxide, as most recently amended by the Utah Air Quality Board on December 18, 1992, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-15. Section IX, Control Measures for Area and Point Sources, Part F, Lead.

The Utah State Implementation Plan, Section IX, Control Measures for Area and Point Sources, Part F, Lead, as most recently amended by the Utah Air Quality Board on December 18, 1992, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-16. (Reserved.)

Reserved.

R307-110-17. Section IX, Control Measures for Area and Point Sources, Part H, Emission Limits.

The Utah State Implementation Plan, Section IX, Control Measures for Area and Point Sources, Part H, Emission Limits and Operating Practices, as most recently amended by the Utah Air Quality Board on December 7, 2016, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-18. Reserved.

Reserved.

R307-110-19. Section XI, Other Control Measures for Mobile Sources.

The Utah State Implementation Plan, Section XI, Other Control Measures for Mobile Sources, as most recently amended by the Utah Air Quality Board on February 9, 2000, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-20. Section XII, Transportation Conformity Consultation.

The Utah State Implementation Plan, Section XII, Transportation Conformity Consultation, as most recently amended by the Utah Air Quality Board on May 2, 2007, pursuant to 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-21. Section XIII, Analysis of Plan Impact.

The Utah State Implementation Plan, Section XIII, Analysis of Plan Impact, as most recently amended by the Utah Air Quality Board on December 18, 1992, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-22. Section XIV, Comprehensive Emission Inventory.

The Utah State Implementation Plan, Section XIV, Comprehensive Emission Inventory, as most recently amended by the Utah Air Quality Board on December 18, 1992, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-23. Section XV, Utah Code Title 19, Chapter 2, Air Conservation Act.

Section XV of the Utah State Implementation Plan contains Utah Code Title 19, Chapter 2, Air Conservation Act.

R307-110-24. Section XVI, Public Notification.

The Utah State Implementation Plan, Section XVI, Public Notification, as most recently amended by the Utah Air Quality Board on December 18, 1992, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-25. Section XVII, Visibility Protection.

The Utah State Implementation Plan, Section XVII, Visibility Protection, as most recently amended by the Utah Air Quality Board on March 26, 1993, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-26. Section XVIII, Demonstration of GEP Stack Height.

The Utah State Implementation Plan, Section XVIII,

Demonstration of GEP Stack Height, as most recently amended by the Utah Air Quality Board on December 18, 1992, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-27. Section XIX, Small Business Assistance Program.

The Utah State Implementation Plan, Section XIX, Small Business Assistance Program, as most recently amended by the Utah Air Quality Board on December 18, 1992, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-28. Regional Haze.

The Utah State Implementation Plan, Section XX, Regional Haze, as most recently amended by the Utah Air Quality Board on December 2, 2015, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-29. Section XXI, Diesel Inspection and Maintenance Program.

The Utah State Implementation Plan, Section XXI, Diesel Inspection and Maintenance Program, as most recently amended by the Utah Air Quality Board on July 12, 1995, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-30. Section XXII, General Conformity.

The Utah State Implementation Plan, Section XXII, General Conformity, as adopted by the Utah Air Quality Board on October 4, 1995, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-31. Section X, Vehicle Inspection and Maintenance Program, Part A, General Requirements and Applicability.

The Utah State Implementation Plan, Section X, Vehicle Inspection and Maintenance Program, Part A, General Requirements and Applicability, as most recently amended by the Utah Air Quality Board on December 5, 2012, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-32. Section X, Vehicle Inspection and Maintenance Program, Part B, Davis County.

The Utah State Implementation Plan, Section X, Vehicle Inspection and Maintenance Program, Part B, Davis County, as most recently amended by the Utah Air Quality Board on December 5, 2012, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-33. Section X, Vehicle Inspection and Maintenance Program, Part C, Salt Lake County.

The Utah State Implementation Plan, Section X, Vehicle

Inspection and Maintenance Program, Part C, Salt Lake County, as most recently amended by the Utah Air Quality Board on October 6, 2004, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-34. Section X, Vehicle Inspection and Maintenance Program, Part D, Utah County.

The Utah State Implementation Plan, Section X, Vehicle Inspection and Maintenance Program, Part D, Utah County, as most recently amended by the Utah Air Quality Board on December 5, 2012, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-35. Section X, Vehicle Inspection and Maintenance Program, Part E, Weber County.

The Utah State Implementation Plan, Section X, Vehicle Inspection and Maintenance Program, Part E, Weber County, as most recently amended by the Utah Air Quality Board on December 5, 2012, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-36. Section X, Vehicle Inspection and Maintenance Program, Part F, Cache County.

The Utah State Implementation Plan, Section X, Vehicle Inspection and Maintenance Program, Part F, Cache County, as most recently adopted by the Utah Air Quality Board on November 6, 2013, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-110-37. Section XXIII, Interstate Transport.

The Utah State Implementation Plan, Section XXIII, Interstate Transport, as most recently adopted by the Utah Air Quality Board on February 7, 2007, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

KEY: air pollution, PM10, PM2.5, ozone
Date of Enactment or Last Substantive Amendment: December 8, 2016
Notice of Continuation: February 1, 2012
Authorizing, and Implemented or Interpreted Law: 19-2-104

R307. Environmental Quality, Air Quality.
R307-115. General Conformity.
R307-115-1. Determining Conformity.

The provisions of 40 CFR Part 93, Subpart B, Determining Conformity of General Federal Actions to State or Federal Implementation Plans, effective as of the date referenced in R307-101-3, are hereby incorporated by reference into these rules.

KEY: environmental protection, air pollution, general conformity
Date of Enactment or Last Substantive Amendment: February 8, 2008
Notice of Continuation: February 6, 2013

Authorizing, and Implemented or Interpreted Law: 19-2-104

R307. Environmental Quality, Air Quality.
R307-120. General Requirements: Tax Exemption for Air Pollution Control Equipment.
R307-120-1. Applicability.

This rule shall apply to purchases described in Section 19-12-201.

R307-120-2. Definitions.

The following definitions apply to R307-120:

"Freestanding pollution control property" means freestanding pollution control property as defined in Section 19-12-102.

"Pollution control facility" means pollution control facility as defined in Section 19-12-102.

R307-120-3. Application for Certification.

(1) An application for certification shall be made on the form provided by the director.

(2) The application shall include all information requested thereon and such additional information as is requested by the director. At a minimum, the application shall contain:

(a) a description of the pollution control facility or the freestanding pollution control property;

(b) a description of the property, part, product, or service for a purchase or lease of property, a part, a product or a service for which a person seeks to claim a sales and use tax exemption under Section 19-12-201;

(c) the existing or proposed operation procedure for the pollution control facility or freestanding pollution control property; and

(d) a statement of the purpose served or to be served by the pollution control facility or freestanding pollution control property.

(3) Applications for certification shall include:

(a) a reference to the approval order issued under R307-401-8 that requires the pollution control facility or the freestanding pollution control property; or

(b) a reference to the section of the State Implementation Plan that requires the pollution control facility or the freestanding pollution control property; or

(c) an estimate of emission reductions (in tons per year) resulting from the use of the pollution control facility or the freestanding pollution control property.

(4) The director may require an application to contain additional information that the director finds necessary to determine whether to grant certification under Section 19-12-303.

R307-120-4. Issuance of Certification.

(1) The filing date of the application shall be the date the director receives a complete application with all of the

information as described in R307-120-3. Within 120 days of the filing date of the application, the director will:

(a) issue a written certification of the pollution control facility or the freestanding pollution control property; or

(b) provide a written statement of the reason for the denial of certification.

(2) The director shall issue a certification of a pollution control facility or a freestanding pollution control property to the applicant if the director determines that:

(a) the application meets the requirements of Section 19-12-301(3) or 19-12-302(2);

(b) the facility or property that is the subject of the application is a pollution control facility or a freestanding pollution control property.

(c) the person who files the application is a person described in Section 19-12-301(1) or 19-12-302(1); and

(d) the purchases or leases for which the person seeks to claim a sales and use tax exemption are exempt under Section 19-12-201.

(3) The director may issue one certification for one or more pollution control facilities or freestanding pollution control properties that constitute an operational unit.

(4) If the director does not issue or deny a certification within 120 days after the date a person files an application, the director shall issue a certification to the person at the person's request.

R307-120-5. Exemptions from Certification.

The director shall not issue a certification for the following:

(1) a replacement of freestanding pollution control property; or

(2) property, a part, a product, or a service described in Sections 19-12-201(1)(b) through (e) used or performed in a repair or replacement related to:

(a) a pollution control facility; or

(b) a freestanding pollution control property.

(3) a pollution control facility or a freestanding pollution control property that has already received a certification under R307-120-5.

R307-120-6. Appeal and Revocation.

(1) A decision of the director may be reviewed by filing a Request for Agency Action as provided in R305-7.

(2) The director may revoke a certification issued under Section 19-12-303 if the director makes a determination as contained in Section 19-12-304.

KEY: air pollution, tax exemptions, equipment
Date of Enactment or Last Substantive Amendment: March 5, 2015
Notice of Continuation: February 1, 2012
Authorizing, and Implemented or Interpreted Law: 19-12-101; 19-

12-102; 19-12-201; 19-12-202; 19-12-203; 19-12-301; 19-12-302; 19-12-303; 19-12-304; 19-12-305

R307. Environmental Quality, Air Quality.
R307-121. General Requirements: Clean Air and Efficient Vehicle Tax Credit.
R307-121-1. Authorization and Purpose.

(1) This rule is authorized by Sections 59-7-605 and 59-10-1009. These statutes establish criteria and definitions used to determine eligibility for an income tax credit.

(2) R307-121 establishes procedures to provide proof of purchase or lease, in accordance with 59-7-605(3)(b) or 59-10-1009(3)(b), to the director for an OEM vehicle, qualifying electric motorcycle, or the conversion of a motor vehicle or special mobile equipment for which an income tax credit is allowed under Sections 59-7-605 or 59-10-1009.

R307-121-2. Definitions.

The following additional definitions apply to R307-121.

"Air quality standards" means air quality standards as defined in Subsection 59-7-605(1)(a) and 59-10-1009(1)(a).

"Clean fuel" means clean fuel as defined in Subsection 19-1-402(1).

"Clean fuel vehicle" means clean fuel vehicle as defined in Subsection 19-1-402(2).

"Conversion equipment" means a package that may include fuel, ignition, emissions control, and engine components that are modified, removed, or added to a motor vehicle or special mobile equipment to make that motor vehicle or equipment eligible for the tax credit.

"Motor Vehicle" means a motor vehicle as defined in 41-1a-102.

"Original equipment manufacturer(OEM) vehicle" means original equipment manufacturer(OEM) as defined in Subsection 19-1-402(8).

"Original purchase" means original purchase as defined in Subsection 59-7-605(1)(g) and 59-10-1009(1)(g).

"Qualifying electric motorcycle" means qualifying electric motorcycle as defined in 59-7-605(1)(h) or 59-10-1009(1)(h).

"Qualifying electric vehicle" means qualifying electric vehicle as defined in 59-7-605(1)(i) or 59-10-1009(1)(i).

"Qualifying plug-in hybrid vehicle" means qualifying plug-in hybrid vehicle as defined in 59-7-605(1)(j) or 59-10-1009(1)(j).

"Window Sticker" means the label required by United States Code Title 15 Sections 1231 and 1232, as effective January 3, 2012.

R307-121-3. Proof of Purchase to Demonstrate Eligibility for New OEM Natural Gas, Propane, Qualifying Electric or Qualifying Plug-in Hybrid Vehicles.

To demonstrate that an OEM natural gas, propane, qualifying electric, or qualifying plug-in hybrid motor vehicle is eligible

for the tax credit, proof of purchase shall be made in accordance with 59-7-605(3)(b) or 59-10-1009(3)(b), by submitting the following documents to the director:

(1)(a) a copy of the motor vehicle's window sticker, which includes its Vehicle Identification Number (VIN), or equivalent manufacturer's documentation showing that the motor vehicle is an OEM natural gas, propane, qualifying electric or qualifying plug-in hybrid vehicle, or

(b) a signed statement by either an Automotive Service Excellence (ASE)-certified technician or Canadian Standards Association (CSA) America CNG Fuel System Inspector that includes the VIN, the technician's ASE or CSA America certification number, and states that the motor vehicle is an OEM natural gas, propane, qualifying electric or qualifying plug-in hybrid vehicle;

(2) an original or copy of the purchase order, customer invoice, or receipt that includes the name of the taxpayer seeking the credit, the name of the seller of the motor vehicle, the VIN, purchase date, and price of the motor vehicle;

(3) a copy of the current Utah vehicle registration in the name of the taxpayer seeking the credit;

(4) an original or copy of the odometer disclosure statement required in Utah Code Annotated Title 41 Chapter 1a Section 902 for the motor vehicle that was acquired as an original purchase; and

(5) the underhood identification number or engine group of the motor vehicle.

R307-121-4. Proof of Purchase to Demonstrate Eligibility for New Qualifying Electric Motorcycle.

To demonstrate that a qualifying electric motorcycle is eligible for the tax credit, proof of purchase shall be made in accordance with 59-7-605(3)(b) or 59-10-1009(3)(b), by submitting the following documents to the director:

(1)(a) a copy of the Manufacturer's Statement of Origin (MSO) or equivalent manufacturer's documentation showing that the motor vehicle is a qualifying electric motorcycle, or

(b) a signed statement by an Automotive Service Excellence (ASE)-certified technician that includes the VIN, the technician's ASE certification number, and states that the motorcycle is a qualifying electric motorcycle;

(2) an original or copy of the purchase order, customer invoice, or receipt that includes the name of the taxpayer seeking the credit, the name of the seller of the motor vehicle, the VIN, purchase date, and price of the motor vehicle;

(3) a copy of the current Utah vehicle registration in the name of the taxpayer seeking the credit; and

(4) an original or copy of the odometer disclosure statement required in Utah Code Annotated Title 41 Chapter 1a Section 902 for the motor vehicle that was acquired as an original purchase.

R307-121-5. Proof of Lease to Demonstrate Eligibility for New OEM Natural Gas, Propane, Qualifying Electric or Qualifying Plug-

in Hybrid Vehicles.

To demonstrate that an OEM natural gas, propane, qualifying electric or qualifying plug-in hybrid vehicle is eligible for the tax credit, proof of lease shall be made in accordance with 59-7-605(3)(b) or 59-10-1009(3)(b), by submitting the following documents to the director:

(1)(a) a copy of the motor vehicle's window sticker, which includes its Vehicle Identification Number (VIN), or equivalent manufacturer's documentation showing that the motor vehicle is an OEM natural gas, propane, qualifying electric or qualifying plug-in hybrid vehicle; or

(b) a signed statement by either an Automotive Service Excellence (ASE)-certified technician or Canadian Standards Association (CSA) America CNG Fuel System Inspector that includes the VIN, the technician's ASE or CSA America certification number, and states that the motor vehicle is an OEM natural gas, propane, qualifying electric or qualifying plug-in hybrid vehicle;

(2) an original or copy of the lease agreement that includes the name of the taxpayer seeking the credit, the name of the lessor of the vehicle, the VIN, the beginning date of the lease, the value of the vehicle at the beginning of the lease, and the value of the vehicle at the end of the lease;

(3) a copy of the current Utah vehicle registration in the name of the taxpayer seeking the credit;

(4) an original or copy of the odometer disclosure statement required in Utah Code Annotated Title 41 Chapter 1a Section 902 for the motor vehicle that was acquired as an original purchase; and

(5) the underhood identification number or engine group of the motor vehicle.

R307-121-6. Proof of Lease to Demonstrate Eligibility for Qualifying Electric Motorcycle.

To demonstrate that a qualifying electric motorcycle is eligible for the tax credit, proof of lease shall be made in accordance with 59-7-605(3)(b) or 59-10-1009(3)(b), by submitting the following documents to the director:

(1)(a) a copy of the Manufacturer's Statement of Origin (MSO) or equivalent manufacturer's documentation showing that the motor vehicle is a qualifying electric motorcycle, or

(b) a signed statement by an Automotive Service Excellence (ASE)-certified technician that includes the VIN, the technician's ASE certification number, and states that the motorcycle is a qualifying electric motorcycle;

(2) an original or copy of the lease agreement that includes the name of the taxpayer seeking the credit, the name of the lessor of the vehicle, the VIN, the beginning date of the lease, the value of the vehicle at the beginning of the lease, and the value of the vehicle at the end of the lease;

(3) a copy of the current Utah vehicle registration in the name of the taxpayer seeking the credit; and

(4) an original or copy of the odometer disclosure statement

required in Utah Code Annotated Title 41 Chapter 1a Section 902 for the motor vehicle that was acquired as an original purchase.

R307-121-7. Proof of Purchase to Demonstrate Eligibility for Motor Vehicles Converted to a Clean Fuel.

To demonstrate that a conversion of a motor vehicle to be fueled by a clean fuel is eligible for the tax credit, proof of purchase shall be made, in accordance with 59-7-605(3)(b) or 59-10-1009(3)(b), by submitting the following documentation to the director:

(1) an original or copy of the purchase order, customer invoice, or receipt that includes the name of the taxpayer seeking the credit; the name, address, and phone number of the person that converted the motor vehicle to run on a clean fuel; the VIN; the date of conversion; and the price of the conversion equipment installed on the motor vehicle;

(2) a copy of the current Utah vehicle registration in the name of the taxpayer seeking the credit; and

(3) a signed statement by the person who converted the motor vehicle certifying that the conversion does not tamper with, circumvent, or otherwise affect the vehicle's on-board diagnostic system, in accordance with 19-1-406(2).

R307-121-8. Proof of Purchase to Demonstrate Eligibility for Special Mobile Equipment Converted to Clean Fuels.

To demonstrate that a conversion of special mobile equipment to be fueled by clean fuel is eligible for the tax credit, proof of purchase shall be made, in accordance with 59-7-605(3)(b) or 59-10-1009(3)(b), by submitting the following documentation to the director:

(1) a description, including serial number, of the special mobile equipment for which credit is to be claimed; and

(2) an original or copy of the purchase order, customer invoice, or receipt that includes the name of the taxpayer seeking the credit, the serial number, the date of conversion, and the price of the conversion equipment installed on the special mobile equipment.

KEY: air pollution, alternative fuels, tax credits, motor vehicles
Date of Enactment or Last Substantive Amendment: September 3, 2015
Notice of Continuation: September 7, 2016
Authorizing, and Implemented or Interpreted Law: 19-2-104; 19-1-402; 59-7-605; 59-10-1009

R307. Environmental Quality, Air Quality.
R307-122. General Requirements: Heavy Duty Vehicle Tax Credit.
R307-122-1. Authorization and Purpose.

(1) This rule is authorized by Sections 59-7-618 and 59-10-1033. These statutes establish criteria and definitions used to

determine eligibility for an income tax credit.

(2) R307-122 establishes procedures to provide proof of a qualified purchase, in accordance with 59-7-618(6)(a) or 59-10-1033(6)(a), to the director for a qualified heavy duty vehicle for which an income tax credit is allowed under Sections 59-7-618 or 59-10-1033.

R307-122-2. Definitions.

The following additional definitions apply to R307-122.

"Heavy duty vehicle" means heavy duty vehicle as defined in Subsection 59-7-618(1)(b) and 59-10-1033(1)(b).

"Original equipment manufacturer (OEM) vehicle" means original equipment manufacturer (OEM) as defined in Subsection 19-1-402(8).

"Qualified heavy duty vehicle" means qualified heavy duty vehicle as defined in 59-7-618(1)(d) and 59-10-1033(1)(d).

"Qualified purchase" means qualified purchase as defined in 59-7-618(1)(e) and 59-10-1033(1)(e).

"Qualified taxpayer" means qualified taxpayer as defined in 59-7-618(1)(f) and 59-10-1033(1)(f).

R307-122-3. Reservation of a Qualified Heavy Duty Vehicle Tax Credit.

(1) A qualified taxpayer shall reserve a qualified heavy duty vehicle tax credit before submitting proof of qualified purchase to obtain approval from the division for the heavy duty vehicle tax credit. A qualified taxpayer shall apply to reserve the tax credit on forms provided by the division, which will include the following:

(a) the name of the qualified taxpayer and the qualified taxpayers registered name with the United States Department of Transportation (USDOT),

(b) the last four digits of the qualified taxpayer's social security number(SSN) or employer identification number (EIN),

(c) the qualified taxpayer's address, and

(d) the qualified taxpayer's USDOT number.

(2) The tax credit shall be reserved for the qualified taxpayer for up to 180 calendar days from the division's approval of the request to reserve the credit.

(3) If the qualified taxpayer does not meet all of the requirements of R307-122-4 before 181 calendar days after the division's approval of the request to reserve the tax credit, the tax credit will no longer be reserved for the qualified taxpayer.

R307-122-4. Proof of Qualified Purchase for a Qualified Heavy Duty Vehicle.

To demonstrate that a heavy duty vehicle is eligible for the tax credit, proof of qualified purchase shall be made in accordance with 59-7-605(6)(a) or 59-10-1009(6)(a), by submitting the following documents to the director:

(1)(a) a copy of the motor vehicle's window sticker, which includes its Vehicle Identification Number (VIN), or equivalent

manufacturer's documentation showing that the heavy duty vehicle is an OEM natural gas vehicle; or

(b) a signed statement by either an Automotive Service Excellence (ASE)-certified technician or Canadian Standards Association (CSA) America CNG Fuel System Inspector that includes the VIN, the technician's ASE or CSA America certification number, and states that the heavy duty vehicle is an OEM natural gas vehicle;

(2) an original or copy of the purchase order, customer invoice, or receipt that includes the name of the qualified taxpayer seeking the credit, the name of the seller of the heavy duty vehicle, the VIN, purchase date, and price of the heavy duty vehicle;

(3) a copy of the current Utah vehicle registration in the name of the qualified taxpayer seeking the credit; and

(4) the certification required under Subsection 59-7-618(2)(b) and 59-10-1033(2)(b).

KEY: air pollution, alternative fuels, tax credits, heavy duty vehicles
Date of Enactment or Last Substantive Amendment: September 3, 2015
Authorizing, and Implemented or Interpreted Law: 19-2-104; 19-1-402; 59-7-618; 59-10-1033

R307. Environmental Quality, Air Quality.
R307-123. General Requirements: Clean Fuels and Vehicle Technology Grant and Loan Program.
R307-123-1. Authorization and Purpose.

(1) This rule is authorized by Section 19-1-405, which establishes criteria and definitions used to determine eligibility for use of the Clean Fuels and Vehicle Technology Fund created in Section 19-1-403.

(2) R307-123 establishes procedures to provide proof of purchase to the Board for an OEM vehicle, or the conversion or retrofit of a vehicle for which a grant or loan made with the monies available in the Fund is allowed under Subsection 19-1-403(2)(a).

(3) Eligible technologies are required to meet the criteria and follow the procedures established in R305-4.

R307-123-2. Definitions.

Definitions. The following additional definitions apply to R307-123.

"Certified by the director" means that:

(1) A motor vehicle on which conversion equipment has been installed meets the criteria in Subsection 19-1-405(1)(a) and demonstrates a reduction in emissions as defined in Subsection 19-1-405(2); or

(2) A motor vehicle on which a retrofit has been installed meets the following criteria:

(a) the motor vehicle's emissions of regulated pollutants, when operating with the retrofit equipment, is less than the emissions were before the installation of the retrofit equipment; and

(b) a reduction in emissions under Subsection R307-123-2(2)(a)is demonstrated by:

(i) certification of the retrofit by the federal EPA or by a state whose certification standards are recognized by the Board; or

(ii) any other test or standard recognized by the Board.

"Clean fuel" means clean fuel as defined in Subsection 19-1-402(1).

"Clean fuel vehicle" means clean fuel vehicle as defined in Subsection 19-1-402(2).

"Conversion equipment" means a package which may include fuel, ignition, emissions control, and engine components that are modified, removed, or added to a motor vehicle or special mobile equipment to make that vehicle or equipment eligible.

"Manufacturer's Statement of Origin" means a certificate showing the original transfer of a new motor vehicle from the manufacturer to the original purchaser.

"Original equipment manufacturer (OEM) vehicle" means OEM vehicle as defined in Subsection 19-1-402(8).

"Retrofit" means retrofit as defined in Subsection 19-1-402(11).

"Retrofit equipment" means a diesel oxidation catalyst, a diesel particulate filter, or a closed crankcase filtration system, that has been approved for use in engine retrofit programs by the federal EPA or by a state whose testing protocols are recognized by the Board.

R307-123-3. Demonstration of Eligibility for OEM Vehicles.

To demonstrate that a vehicle is eligible, proof of purchase shall be made by submitting the following documentation to the director:

(1)(a) A copy of the Manufacturer's Statement of Origin or equivalent manufacturer's documentation showing that the vehicle is an OEM vehicle; or

(b) a signed statement by an Automotive Service Excellence (ASE) certified technician that includes the vehicle identification number(VIN)and states that the vehicle is an OEM vehicle;

(2) An original or copy of the purchase order, customer invoice, or receipt including the VIN; and

(3) A copy of the current Utah vehicle registration.

R307-123-4. Demonstration of Eligibility for Vehicles Converted to Natural Gas or Propane.

To demonstrate that a conversion of a motor vehicle fueled by natural gas or propane is eligible, proof of purchase shall be made by submitting the following documentation to the director:

(1) the VIN;

(2) the fuel type before conversion;
(3) the fuel type after conversion;
(4)(a) a copy of the vehicle inspection report from an approved county inspection and maintenance station showing that the converted motor vehicle meets all county emissions requirements for all installed fuel systems if the motor vehicle is registered within a county with an inspection and maintenance (I/M) program; or
(b) in all other areas of the state, a signed statement by an ASE certified technician that includes the VIN and states that the conversion is functional;
(5) each of the following:
(a) the conversion equipment manufacturer,
(b) the conversion equipment model number,
(c) the date of the conversion, and
(d) the name, address, and phone number of the person that converted the vehicle;
(6) the EPA Certificate of Conformity, or equivalent documentation that is consistent with requirements outlined in 40 CFR Part 85 and 40 CFR Part 86, as published in Federal Register Volume 76 Page 19830 on April 8, 2011, or an executive order from the California Air Resources Board;
(7) an original or copy of the purchase order, customer invoice, or receipt; and
(8) a copy of the current Utah vehicle registration, which shows that the vehicle is registered in the applicant's name.

R307-123-5. Demonstration of Eligibility for Vehicles Converted to Electricity.

To demonstrate that a conversion of a motor vehicle to be powered by electricity is eligible, proof of purchase shall be made by submitting the following documentation to the director:
(1) the VIN;
(2) the fuel type before conversion;
(3) the fuel type after conversion;
(4) each of the following:
(a) the conversion equipment manufacturer;
(b) the conversion equipment model number;
(c) the date of the conversion; and
(d) the name, address, and phone number of the person that converted the motor vehicle;
(5) an original or copy of the purchase order, customer invoice, or receipt;
(6) a copy of the current Utah vehicle registration; and
(7) a signed statement by an ASE-certified technician that includes the VIN, the technician's ASE certification number, and states that the conversion is functional and that the converted motor vehicle does not have any auxiliary source of combustion emissions.

R307-123-6. Demonstration of Eligibility for Retrofitted Vehicles.

To demonstrate that a retrofit of a motor vehicle is eligible, proof of purchase shall be made by submitting the following documentation to the director:

(1) the VIN;

(2) each of the following:

(a) the retrofit type;

(b) the retrofit equipment manufacturer;

(c) the retrofit equipment model number;

(d) the date of the retrofit; and

(e) the name, address, and phone number of the person that retrofitted the vehicle;

(3) proof that the retrofit is certified by the director;

(4) proof that the vehicle condition prior to retrofit is compliant with the retrofit's certification criteria;

(5) an original or copy of the purchase order, customer invoice, or receipt; and

(6) a copy of the current Utah vehicle registration.

R307-123-7. Applicability.

Provisions found in sections R307-121-5(6) and R307-121-6(3)(c) shall apply to all conversions as of April 8, 2011.

KEY: air pollution, alternative fuels, grants and loans, motor vehicles
Date of Enactment or Last Substantive Amendment: December 5, 2013
Notice of Continuation: August 8, 2013
Authorizing, and Implemented or Interpreted Law: 19-2-104; 19-1-401; 59-7-605; 59-10-1009

R307. Environmental Quality, Air Quality.
R307-124. General Requirements: Conversion to Alternative Fuel Grant Program.
R307-124-1. Authorization and Purpose.

(1) This rule is authorized by Section 19-2-304, which establishes the requirements, procedures, criteria, and definitions used to determine eligibility for the Conversion to Alternative Fuel Grant Program.

(2) The procedures of this rule constitute the minimum requirements for the application and the awarding of funds that are designated for the Conversion to Alternative Fuel Grant Program.

R307-124-2. Definitions.

The following additional definitions apply to R307-124:

"Alternative fuel" means alternative fuel as defined in Subsection 19-2-302(2).

"Clean fuel grant" means clean fuel grant as defined in Subsection 19-2-302(4).

"Conversion equipment" means conversion equipment as defined

in Subsection 19-2-302(5).

"Cost" means cost as defined in 19-2-302(6).

"Division" means the Division of Air Quality.

"Eligible vehicle" means eligible vehicle as defined in Subsection 19-2-302(9).

R307-124-3. Minimum Qualifications for an Applicant to Receive a Clean Fuel Grant.

(1) All applicants must be a registered business within the State of Utah and have a business license from the city or county in which they are located.

(2) Applicants that are applying for a clean fuel grant for a conversion of an eligible vehicle to run on propane must meet the requirements of R710-6 Liquefied Petroleum Gas (LPG) Rules.

R307-124-4. Minimum Qualifications for a Person that Installs Conversion Equipment on an Eligible Vehicle.

The following are the minimum qualifications for a person that installs conversion equipment on an eligible vehicle:

(1) A person that installs conversion equipment on an eligible vehicle to run on natural gas shall be:

(a) a Canadian Standards Association (CSA) America Compressed Natural Gas (CNG) Fuel System Inspector; or

(b) an Automotive Service Excellence (ASE) F1-certified technician.

(2) A person that installs conversion equipment on an eligible vehicle to run on propane shall be certified under R710-6 LPG Rules.

(3) A person that installs conversion equipment on an eligible vehicle to run on electricity shall be an ASE-certified technician.

R307-124-5. Preliminary Approval Application Procedure.

To be considered for a clean fuel grant all applicants shall apply for preliminary approval on forms provided by the Division as required by Subsection 19-2-304(1)(e), and shall provide additional information as requested by the Division.

(1) All applicants shall:

(a) acknowledge that receiving preliminary approval does not guarantee reimbursement by the Division, and preliminarily approved projects shall meet all the eligibility requirements listed in R307-124 before receiving the clean fuel grant for an eligible vehicle;

(b) certify under penalty of perjury and subject to provisions of Utah Code Section 76-8-504 ("written false statement"), that all savings on the cost of conversion equipment in the amount of the clean fuel grant will be passed to the owner of the eligible vehicle, as required in Subsection 19-2-303(2)(b);

(c) certify that the applicant is currently a registered business within the State of Utah and has a current business license; and

(d) agree to the provisions found in Subsection 19-2-303(3).

(2) Applicants applying for a clean fuel grant for a conversion of an eligible vehicle to run on natural gas shall provide the installer's ASE F-1 or CSA America certification number.

(3) Applicants that are applying for a clean fuel grant for a conversion of an eligible vehicle to run on propane shall provide the applicant's dealer license number and the installer's LPG certification number required by R710-6 LPG Rules.

(4) Applicants that are applying for a clean fuel grant for a conversion of an eligible vehicle to run on electricity shall provide the installer's ASE certification number.

(5) Preliminary approval will encumber funds for up to 60 calendar days from the preliminary application's approval.

R307-124-6. Final Approval Procedure and Payment Process.

Once an applicant has encumbered funds for a conversion, the applicant has up to 60 calendar days to obtain final approval from the Division. To obtain final approval, the applicant shall apply for final approval on forms provided by the Division, as required by Subsection 19-2-304(1)(e), and shall provide additional information as requested by the Division.

(1) To demonstrate that a conversion of a vehicle to be fueled by natural gas is eligible, an applicant shall submit the following documentation to the Director:

(a) A copy of the applicant's business registration from the Utah Department of Commerce and current business license from the city or county in which they are located;

(b) a copy of the installer's CSA America or ASE F-1 certification;

(c) an original or copy of the purchase order, customer invoice, or receipt that includes:

(i) the name, address, and phone number of the applicant;

(ii) the name of the installer;

(iii) the vehicle identification number (VIN);

(iv) the date of conversion; and

(v) the cost of the conversion (itemizing the equipment, labor, and the clean fuel grant);

(d)(i) a copy of the vehicle inspection report dated after the conversion, from an approved county I/M station, showing that the converted motor vehicle meets all county emissions requirements for all installed fuel systems if the motor vehicle is registered within a county with an I/M program; or

(ii) in all other areas of the state, a signed statement by the installer that includes the VIN, the installer's ASE or CSA America certification number, and states that the eligible vehicle's conversion is functional;

(e) a copy of the current Utah vehicle registration; and

(f) a signed statement by the installer certifying that the conversion does not tamper with, circumvent, or otherwise affect the vehicle's on-board diagnostic system, in accordance with Utah Code 19-1-406(2).

(2) To demonstrate that a conversion of a vehicle to be

fueled by propane is eligible, an applicant shall submit the following documentation to the director:

(a) A copy of the applicant's business registration from the Utah Department of Commerce and current business license from the city or county in which they are located;

(b) a copy of the applicant's current dealer license required under R710-6;

(c) a copy of the installer's current certification under R710-6;

(d)(i) a copy of the vehicle inspection report, dated after the conversion, from an approved county I/M station, showing that the converted motor vehicle meets all county emissions requirements for all installed fuel systems, if the motor vehicle is registered within a county with an I/M program, or

(ii) in all other areas of the state, a signed statement by an ASE-certified technician that includes the VIN, the technician's ASE certification number, and states that the conversion is functional;

(e) Provide the EPA Certificate of Conformity, or equivalent documentation that is consistent with requirements outlined in 40 CFR Part 85 and 40 CFR Part 86, as published in Federal Register Volume 76 Page 19830 on April 8, 2011, or an executive order from the California Air Resources Board;

(f) an original or copy of the purchase order, customer invoice, or receipt that includes:

(i) the name, address, and phone number of the applicant;

(ii) the name of the installer;

(iii) the VIN;

(iv) the date of conversion; and

(v) the cost of the conversion (itemizing the equipment, labor, and the clean fuel grant); and

(g) a copy of the current Utah vehicle registration.

(3) To demonstrate that a conversion of a motor vehicle to be powered by electricity is eligible, an applicant shall submit the following documentation to the director:

(a) A copy of the applicant's business registration from the Utah Department of Commerce and current business license from the city or county in which they are located;

(b) a copy of the current Utah vehicle registration;

(c) an original or copy of the purchase order, customer invoice, or receipt that includes:

(i) the name, address, and phone number of the applicant;

(ii) the name of the installer;

(iii) the VIN;

(iv) the date of conversion; and

(v) the cost of the conversion (itemizing the equipment, labor, and the clean fuel grant);

(d) If the converted eligible vehicle does not have any auxiliary sources of combustion emissions, then the applicant shall submit a signed statement by an ASE-certified technician that includes the VIN, the technician's ASE certification number, and states that the conversion is functional and that the

converted motor vehicle does not have any auxiliary source of combustion emissions.

(e) If the converted eligible vehicle has an auxiliary source of combustion emissions, the applicant shall submit:

(i) a copy of the vehicle inspection report after the conversion, from an approved county I/M station, showing that the converted motor vehicle meets all county emissions requirements for all installed fuel systems, if the motor vehicle is registered within a county with an I/M program; or

(ii) in all other areas of the state, a signed statement by an ASE-certified technician that includes the VIN, the technician's ASE certification number, and states that the conversion is functional; and

(iii) provide the EPA Certificate of Conformity, or equivalent documentation that is consistent with requirements outlined in 40 CFR Part 85 and 40 CFR Part 86, as published in Federal Register Volume 76 Page 19830 on April 8, 2011, or an executive order from the California Air Resources Board.

(4) All applicants shall complete and submit an IRS form W-9 to the Division.

(5) Approved applications shall continue to comply with the provisions of this rule.

R307-124-7. Grant Program Limitations.

Grant applications shall not be approved if:

(1) Awarding a grant to an applicant would result in the Department's inability to fulfill its obligations under this program or this rule;

(2) The applicant does not meet the approval requirements of Section R307-124-5;

(3) The fund balance is zero; or

(4) Awarding a grant to an applicant would result in the fund balance being less than zero.

R307-124-8. Review.

The Division reserves the right to request supplemental information it may deem necessary from an applicant, in order to effectively administer the program and this rule.

KEY: air pollution, alternative fuels, tax credits, motor vehicles
Date of Enactment or Last Substantive Amendment: September 8, 2016
Authorizing, and Implemented or Interpreted Law: 19-2-301 through 305; 19-1-403.3

R307. Environmental Quality, Air Quality.
R307-125. Clean Air Retrofit, Replacement, and Off-Road Technology Program.
R307-125-1. Authority and Purpose.

(1) This rule specifies the requirements and procedures of

the Clean Air Retrofit, Replacement and Off-Road Technology Program that is authorized in 19-2-203.

(2) The procedures of this rule constitute the minimum requirements for the application for and the awarding of funds that are designated for the Clean Air Retrofit, Replacement, and Off-Road Technology Program.

R307-125-2. Definitions.

The terms "certified," "cost," "director," "division," "eligible equipment," "eligible vehicle," and "verified" are defined in 19-2-202.

R307-125-3. Allocation of Funds.

The director may apportion up to 50% of the funds allocated for this program for an exchange, rebate, or low-cost purchase program under 19-2-203(2). The remainder may be allocated to a grant program under 19-2-203(1).

R307-125-4. Grants Under 19-2-203(1).

(1) A grant under 19-2-203(1) may only be used for:

(a) verified technologies for eligible vehicles or equipment; and

(b) certified vehicles, engines, or equipment.

(2) In prioritizing grant awards, the director shall consider:

(a) whether and to what extent the applicant has already secured some other source of funding;

(b) the air quality benefits to the state and local community attributable to the project;

(c) the cost-effectiveness of the proposed project;

(d) the feasibility and practicality of the project; and

(e) other factors that the director determines should apply based on the nature of the application.

(3) In prioritizing grant awards, the director may also, at the request of an applicant, consider the financial need of the applicant.

(4) A successful grant applicant will be required to agree:

(a) to provide information to the division about the vehicles, equipment, or technology acquired with the grant proceeds;

(b) to allow inspections by the division to ensure compliance with the terms of the grant;

(c) to permanently disable replaced vehicles, engines, and equipment from use; and

(d) for any grant that is not given on a reimbursement basis, to commit to complete the project as proposed;

(e) not to change the location or use of the vehicle, engine or equipment from the location or use proposed in their application without approval of the director; and

(f) to any additional terms as determined by the director.

(5) Eligible vehicles are defined in 19-2-202(7). No additional vehicles under 19-2-202(7)(e) are eligible at this

time.

(6) The division shall use the following procedures to implement the grant program:

(a) The division shall provide notice on the division's website of the availability of grants and of cut-off dates for applications.

(b) An application for a grant shall be on a form provided by the division.

(c) The director may provide grants on a reimbursement basis or as an advance award.

(d) Successful grant applicants will be required to sign a grant agreement that contains the terms described in R307-125-4(4).

(e) State agencies and employees are eligible to participate in the program and are subject to program requirements.

R307-125-5. Exchange, Rebate, or Low-Cost Purchase Programs Under 19-2-203(2).

(1) The director has discretion to choose whether to use an exchange, rebate or low-cost purchase program.

(2) The division shall use the following procedures to implement an exchange, rebate or low-cost purchase program:

(a) The division shall provide notice on the division's website of any exchange, rebate or low-cost purchase program.

(b) An application for an exchange, rebate, or low-cost purchase shall be on a form provided by the division.

(c) State agencies and employees are eligible to participate in any program and are subject to program requirements.

(d) The director may establish additional procedures appropriate to the specific program.

(3) A participant in an exchange, rebate, or low-cost purchase program will be required to agree to the terms outlined in the application as determined by the director.

KEY: air quality, grants, rebates, purchase program
Date of Enactment or Last Substantive Amendment: December 4, 2014
Authorizing, and Implemented or Interpreted Law: 19-1-203; 19-2-203

R307. Environmental Quality, Air Quality.
R307-130. General Penalty Policy.
R307-130-1. Scope.

This policy provides guidance to the director in negotiating with air pollution sources penalties for consent agreements to resolve non-compliance situations. It is designed to be used to determine a reasonable and appropriate penalty for the violations based on the nature and extent of the violations, consideration of the economic benefit to the sources of non-compliance, and adjustments for specific circumstances.

R307-130-2. Categories.

Violations are grouped in four general categories based on the potential for harm and the nature and extent of the violations. Penalty ranges for each category are listed.

(1) Category A. $7,000-10,000 per day:

Violations with high potential for impact on public health and the environment including:

(a) Violation of emission standards and limitations of NESHAP.

(b) Emissions contributing to nonattainment area or PSD increment exceedences.

(c) Emissions resulting in documented public health effects and/or environmental damage.

(2) Category B. $2,000-7,000 per day.

Violations of the Utah Air Conservation Act, applicable State and Federal regulations, and orders to include:

(a) Significant levels of emissions resulting from violations of emission limitations or other regulations which are not within Category A.

(b) Substantial non-compliance with monitoring requirements.

(c) Significant violations of approval orders, compliance orders, and consent agreements not within Category A.

(d) Significant and/or knowing violations of "notice of intent" and other notification requirements, including those of NESHAP.

(e) Violations of reporting requirements of NESHAP.

(3) Category C. Up to $2,000 per day.

Minor violations of the Utah Air Conservation Act, applicable State and Federal Regulations and orders having no significant public health or environmental impact to include:

(a) Reporting violations

(b) Minor violations of monitoring requirements, orders and agreements

(c) Minor violations of emission limitations or other regulatory requirements.

(4) Category D. Up to $299.00.

Violations of specific provisions of R307 which are considered minor to include:

(a) Violation of automobile emission standards and requirements

(b) Violation of wood-burning regulations by private individuals

(c) Open burning violations by private individuals.

R307-130-3. Adjustments.

The amount of the penalty within each category may be adjusted and/or suspended in part based upon the following factors:

(1) Good faith efforts to comply or lack of good faith. Good faith takes into account the openness in dealing with the violations, promptness in correction of problems, and the degree of cooperation with the State to include accessibility to

information and the amount of State effort necessary to bring the source into compliance.

(2) Degree of wilfulness and/or negligence. In assessing wilfulness and/or negligence, factors to be considered include how much control the violator had over and the foreseeability of the events constituting the violation, whether the violator made or could have made reasonable efforts to prevent the violation, and whether the violator knew of the legal requirements which were violated.

(3) History of compliance or non-compliance. History of non-compliance includes consideration of previous violations and the resource costs to the State of past and current enforcement actions.

(4) Economic benefit of non-compliance. The amount of economic benefit to the source of non-compliance would be added to any penalty amount determined under this policy.

(5) Inability to pay. An adjustment downward may be made or a delayed payment schedule may be used based on a documented inability of the source to pay.

R307-130-4. Options.

Consideration may be given to suspension of monetary penalties in trade-off for expenditures resulting in additional controls and/or emissions reductions beyond those required to meet existing requirements. Consideration may be given to an increased amount of suspended penalty as a deterrent to future violations where appropriate.

KEY: air pollution, penalty
Date of Enactment or Last Substantive Amendment: July 13, 2007
Notice of Continuation: February 1, 2012
Authorizing, and Implemented or Interpreted Law: 19-2-104; 19-2-115

R307. Environmental Quality, Air Quality.
R307-135. Enforcement Response Policy for Asbestos Hazard Emergency Response Act.
R307-135-1. AHERA Penalty Policy Definitions.

The following additional definitions apply to R307-135:

"AHERA" means the federal Asbestos Hazard Emergency Response Act of 1986 and 40 CFR Part 763, Subpart E, Asbestos-Containing Materials in Schools.

"Local Education Agency" means:

(1) any local education agency as defined in section 198 of the Elementary and Secondary Education Act of 1965 (20 U.S.C. 3381),

(2) the owner of any nonpublic, nonprofit elementary or secondary school building, or

(3) the governing authority of any school operated under the defense dependents' education system provided for under the Defense Dependents' Education Act of 1978 (20 U.S.C. 921 et seq.).

"Other Person" means any nonprofit school that does not own its own building, or any employee or designated person of a Local Education Agency who violates the AHERA regulations, or any person other than the Local Education Agency who:

(1) inspects the property of Local Education Agencies for asbestos-containing building materials for the purpose of the Local Education Agency's AHERA inspection requirements;

(2) prepares management plans for the purpose of the Local Education Agency's AHERA management plan requirements;

(3) designs or conducts response actions at Local Education Agency properties;

(4) analyzes bulk samples or air samples for the purpose of the compliance of the Local Education Agency with the AHERA requirements; or

(5) contracts with the Local Education Agency to perform any other AHERA-related function.

"Private Nonprofit School" means any nonpublic, nonprofit elementary or secondary school.

R307-135-2. Assessing Penalties Against a Local Education Agency.

(1) A Notice of Noncompliance may be issued to a Local Education Agency for a violation of AHERA. After a Notice of Noncompliance has been issued, the Local Education Agency must submit documentation to the director within 60 days demonstrating that the violations listed in the Notice of Noncompliance have been corrected. Failure to submit complete documentation within 60 days is a violation of this rule.

(2) A Notice of Violation may be issued to a Local Education Agency for:

(a) first-time level 1 or 2 violations as specified in R307-135-5,

(b) subsequent level 3, 4, 5, or 6 violations as specified in R307-135-5,

(c) failure to inspect and submit a management plan within 60 days of issuance of a Notice of Noncompliance,

(d) not conducting an inspection and/or submitting a plan by the statutory deadline after non-compliance has been verified by an authorized agent of the director.

(3) In accordance with Section 19-2-115, and with Section 207(a) of AHERA, the maximum penalty that may be assessed against a Local Education Agency for any and all violations in a single school building is $5,000 per day. Total penalties for a single school building which exceed $5,000 per day are to be reduced to $5,000 per day.

(4) Violations of AHERA by a Local Education Agency will be considered one-day violations, except that, in cases in which a Local Education Agency violates AHERA regulations after a Notice of Violation has been issued, additional penalties may be assessed on a per-day basis and injunctive relief may be sought.

(5) The director may use discretion in assessing penalties. The base penalty shall be determined by assessing the circumstances and the extent of the violation, as specified in

R307-135-5.

(6) In determining adjustments to a base penalty assessed against a Local Education Agency in accordance with R307-135-5, the director may consider the culpability of the violator, including any history of non-compliance; ability to pay the penalty; ability to continue to provide educational services to the community; and the violator's good faith efforts to comply or lack of good faith.

(a) If it can be shown that the Local Education Agency did not know of its AHERA responsibilities, or if the violations are voluntarily disclosed by the Local Education Agency, or if the Local Education Agency did not have control over the violations, the penalty may be reduced by 25%.

(b) If violations are voluntarily disclosed by the Local Education Agency within 30 days of discovery, the penalty will be reduced by an additional 25%.

(c) If it can be shown that the Local Education Agency made reasonable efforts to assure compliance, the Notice of Violation may be eliminated.

(d) If the Local Education Agency has a demonstrated history of violations, the penalty may be increased.

(e) The attitude of the violator may be considered in increasing or decreasing the penalty by 15%.

(7) Civil penalties collected against a Local Education Agency shall be used by that Local Education Agency for the purposes of complying with AHERA. The director will defer payment of the penalty until the Local Education Agency has completed the requirements in the compliance schedule by the deadline in the schedule. When the compliance schedule expires, the Local Education Agency must present the director with a strict accounting of the cost of compliance in the form of notarized receipts, an independent accounting, or equivalent proof.

(8) If the cost of compliance equals or exceeds the amount of the civil penalty, the Local Education Agency will not be required to pay any money. If the cost of compliance is less than the amount of the penalty, the Local Education Agency shall pay the difference to the Asbestos Trust Fund.

R307-135-3. Assessing Penalties Against Other Persons.

(1) In accordance with Section 19-2-115, the director may assess and collect civil penalties of up to $10,000 per day for each violation from Other Persons who violate the AHERA regulations. The penalties will be issued against the company, if there is one. Generally penalties which exceed $10,000 per day in a single school building are to be reduced to $10,000 per day.

(2) Criminal penalties for willful violations of up to $25,000 may be assessed against Other Persons. All penalties assessed against Other Persons are to be sent to the Division for the State General Fund.

(3) The base penalty shall be determined by assessing the circumstances and the extent of the violation, as specified in R307-135-5.

(4) The director may show discretion in making adjustments to the gravity-based penalty considering factors such as culpability of the Other Person, including a history of such violations; the Other Person's ability to pay; the Other Person's ability to stay in business; and other matters as justice may require, such as voluntary disclosure and attitude of the violator.

(5) The maximum penalty that may be assessed is $10,000, per day, per violation, except that a knowing or willful violation of the regulations may be assessed at $25,000, per day.

(6) If the Other Person continues to violate after a Notice of Violation has been issued, the Notice of Violation may be amended and additional penalties assessed. Injunctive relief, criminal penalties and per-day penalties may also be pursued.

(7) Penalties for a first-time violation may be remitted if the Other Person corrects the violations in all schools in which the Other Person has and may have violated. In some cases of unknowing violations by an Other Person who is not typically involved with asbestos, some or all of the penalty may be remitted if the Other Person takes mandatory AHERA training.

R307-135-4. Penalties Against Private Nonprofit Schools.

(1) The owner of the building that contains a private nonprofit elementary school is considered a Local Education Agency. If the private non-profit school does not own its own building, it is considered an Other Person and will be treated as such.

(2) The school is liable for up to $5,000, per day, per violation of AHERA, and penalties may be returned to the school for the purposes of complying with AHERA. The owner of the private nonprofit school building will be assessed penalties in the same manner as other Local Education Agencies.

R307-135-5. AHERA Enforcement Response Policy Penalties.

(1) Gravity Based Penalty. A base penalty based on the gravity of the violation will be determined by addressing the circumstances and the extent of the violation. Table 1 specifies penalties for Local Education agencies and Table 2 specifies penalties for Other Persons.

(2) Circumstances. The circumstances reflect the probability that harm will result from a particular violation. The probability of harm increases as the potential for environmental harm or asbestos exposure to school children and employees increases. Tables 1 and 2 provide the following levels for measuring circumstances:

(a) Levels 1 and 2 (High): It is probable that the violation will cause harm.

(b) Levels 3 and 4 (Medium): There is a significant chance the violation will cause harm.

(c) Levels 5 and 6 (Low): There is a small chance the violation will result in harm.

(3) The circumstance levels that are to be attached for each

provision of AHERA may be found in Appendix A (Local Education Agency violations) and Appendix B (Other Person violations) of EPA's AHERA Enforcement Response Policy.

(4) Extent. The extent reflects the potential harm caused by a violation. Harm is determined by the quantity of asbestos-containing building materials involved in the violation through inspection, removal, enclosure, encapsulation, or repair in violation of the regulation.

(5) For the purposes of this Enforcement Response Policy, the extent levels are specified in Tables 1 and 2 and are as follows:

(a) Major: violations involving more than 3,000 square feet or 1,000 linear feet of ACBM.

(b) Significant: violations involving more than 160 square feet or 260 linear feet but less than or equal to 3,000 square feet or 1,000 linear feet.

(c) Minor: violations involving less than or equal to 160 square feet or 260 linear feet.

(6) In situations where the quantity of asbestos involved in the AHERA violation cannot be readily determined, the base penalty will generally be calculated using the major extent category.

TABLE 1

BASE PENALTY FOR LOCAL EDUCATION AGENCIES

CIRCUMSTANCES		EXTENT		
(Levels)		A MAJOR	B SIGNIFICANT	C MINOR
High Range	1	$5,000	$3,400	$1,000
	2	$4,000	$2,400	$ 600
Mid Range	3	$3,000	$2,000	$ 300*
	4	$2,000	$1,200	$ 200*
Low Range	5	$1,000	$ 600	$ 100*
	6	$ 400*	$ 260*	$ 40*

*Issue Notices of Noncompliance for the first citation of violations that fall within these cells if that is the only violation

TABLE 2

BASE PENALTY FOR OTHER PERSONS

CIRCUMSTANCES		EXTENT		
(Levels)		A MAJOR	B SIGNIFICANT	C MINOR
High Range	1	$10,000	$6,800	$2,000
	2	$ 8,000	$4,800	$1,200

Mid Range	3	$ 6,000	$4,000	$ 600
	4	$ 4,000	$2,800	$ 400
Low Range	5	$ 2,000	$1,200	$ 200
	6	$ 800	$ 520	$ 80

R307-135-6. Injunctive Relief.

(1) In accordance with Sections 19-2-116 and 117, the director may seek injunctive relief:

(a) in cases of imminent and substantial endangerment to human health and environment;

(b) where a Local Education Agency's non-compliance will significantly undermine the intent of the AHERA regulations; and

(c) for violations including, but not limited to:

(i) failure or refusal to make a management plan available to the public without cost or restriction;

(ii) failure or refusal to conduct legally sufficient air monitoring following a response action; or

(iii) the initiation of a response action without accredited personnel; or

(d) to restrain any violation of Title 19, Chapter 2 or R307 or any final order issued by the director when it appears to be necessary for the protection of health or welfare.

R307-135-7. Criminal Penalties.

In accordance with Section 19-2-115, knowing, willful, or continuing violations of AHERA regulation by a Local Education Agency, Local Education Agency employee, or Other Person will be referred to the Office of the Attorney General. Knowing, willful, or continuing violations may result in the issuance of a criminal penalty of $25,000 per day, per violation for such violations.

KEY: air pollution, hazardous pollutant, asbestos, schools
Date of Enactment or Last Substantive Amendment: November 8, 2012
Notice of Continuation: February 1, 2012
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(d); 19-2-115; 19-2-116; 19-2-117

R307. Environmental Quality, Air Quality.
R307-150. Emission Inventories.
R307-150-1. Purpose and General Requirements.

(1) The purpose of R305-150 is:

(a) to establish by rule the time frame, pollutants, and information that sources must include in inventory submittals; and

(b) to establish consistent reporting requirements for stationary sources in Utah to determine whether sulfur dioxide emissions remain below the sulfur dioxide milestones established in the State Implementation Plan for Regional Haze, section XX.E.1.a, incorporated by reference in R307-110-28.

(2) The requirements of R307-150 replace any annual inventory reporting requirements in approval orders or operating permits issued prior to December 4, 2003.

(3) Emission inventories shall be submitted on or before ninety days following the effective date of this rule and thereafter on or before April 15 of each year following the calendar year for which an inventory is required. The inventory shall be submitted in a format specified by the Division of Air Quality following consultation with each source.

(4) The executive secretary may require at any time a full or partial year inventory upon reasonable notice to affected sources when it is determined that the inventory is necessary to develop a state implementation plan, to assess whether there is a threat to public health or safety or the environment, or to determine whether the source is in compliance with R307.

(5) Recordkeeping Requirements.

(a) Each owner or operator of a stationary source subject to this rule shall maintain a copy of the emission inventory submitted to the Division of Air Quality and records indicating how the information submitted in the inventory was determined, including any calculations, data, measurements, and estimates used. The records under R307-150-4 shall be kept for ten years. Other records shall be kept for a period of at least five years from the due date of each inventory.

(b) The owner or operator of the stationary source shall make these records available for inspection by any representative of the Division of Air Quality during normal business hours.

R307-150-2. Definitions.

The following additional definitions apply to R307-150.

"Acute pollutant" means any noncarcinogenic air pollutant for which a threshold limit value - ceiling (TLV-C) has been adopted by the American Conference of Governmental Industrial Hygienists in its "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices," 2003 edition.

"Carcinogenic pollutant" means any air pollutant that is classified as a known human carcinogen (A1) or suspected human carcinogen (A2) by the American Conference of Governmental Industrial Hygienists in its "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices," 2003 edition.

"Chronic Pollutant" means any noncarcinogenic air pollutant for which a threshold limit value - time weighted average (TLV-TWA) having no threshold limit value - ceiling (TLV-C) has been adopted by the American Conference of Governmental Industrial Hygienists in its "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices," 2003 edition.

"Dioxins" and "Furans" mean total tetra- through octachlorinated dibenzo-p-dioxins and dibenzofurans.

"Emissions unit" means emissions unit as defined in R307-415-3.

"Large Major Source" means a major source that emits or has the potential to emit 2500 tons or more per year of oxides of sulfur, oxides of nitrogen, or carbon monoxide, or that emits or

has the potential to emit 250 tons or more per year of PM10, PM2.5, volatile organic compounds, or ammonia.

"Lead" means elemental lead and the portion of its compounds measured as elemental lead.

"Major Source" means major source as defined in R307-415-3.

R307-150-3. Applicability.

(1) R307-150-4 applies to all stationary sources with actual emissions of 100 tons or more per year of sulfur dioxide in calendar year 2000 or any subsequent year unless exempted in (a) below. Sources subject to R307-150-4 may be subject to other sections of R307-150.

(a) A stationary source that meets the requirements of R307-150-3(1) that has permanently ceased operation is exempt from the requirements of R307-150-4 for all years during which the source did not operate at any time during the year.

(b) Except as provided in (a) above, any source that meets the criteria of R307-150-3(1) and that emits less than 100 tons per year of sulfur dioxide in any subsequent year shall remain subject to the requirements of R307-150-4 until 2018 or until the first control period under the Western Backstop Sulfur Dioxide Trading Program as established in R307-250-12(1)(a), whichever is earlier.

(2) R307-150-5 applies to large major sources.

(3) R307-150-6 applies to:

(a) each major source that is not a large major source;

(b) each source with the potential to emit 5 tons or more per year of lead; and

(c) each source not included in (2) or (3)(a) or (3)(b) above that is located in Davis, Salt Lake, Utah, or Weber Counties and that has the potential to emit 25 tons or more per year of any combination of oxides of nitrogen, oxides of sulfur and PM10, or the potential to emit 10 tons or more per year of volatile organic compounds.

(4) R307-150-7 applies to Part 70 sources not included in (2) or (3) above.

R307-150-4. Sulfur Dioxide Milestone Inventory Requirements.

(1) Annual Sulfur Dioxide Emission Report.

(a) Sources identified in R307-150-3(1) shall submit an annual inventory of sulfur dioxide emissions beginning with calendar year 2003 for all emissions units including fugitive emissions.

(b) The inventory shall include the rate and period of emissions, excess or breakdown emissions, startup and shut down emissions, the specific emissions unit that is the source of the air pollution, type and efficiency of the air pollution control equipment, percent of sulfur content in fuel and how the percent is calculated, and other information necessary to quantify operation and emissions and to evaluate pollution control efficiency. The emissions of a pollutant shall be calculated using the source's actual operating hours, production rates, and

types of materials processed, stored, or combusted during the inventoried time period.

(2) Each source subject to R307-150-4 that is also subject to 40 CFR Part 75 reporting requirements shall submit a summary report of annual sulfur dioxide emissions that were reported to the Environmental Protection Agency under 40 CFR Part 75 in lieu of the reporting requirements in (1) above.

(3) Changes in Emission Measurement Techniques. Each source subject to R307-150-4 that uses a different emission monitoring or calculation method than was used to report their sulfur dioxide emissions in 2006 under R307-150 or 40 CFR Part 75 shall adjust their reported emissions to be comparable to the emission monitoring or calculation method that was used in 2006. The calculations that are used to make this adjustment shall be included with the annual emission report.

R307-150-5. Sources Identified in R307-150-3(2), Large Major Source Inventory Requirements.

(1) Each large major source shall submit an emission inventory annually beginning with calendar year 2002. The inventory shall include PM10, PM2.5, oxides of sulfur, oxides of nitrogen, carbon monoxide, volatile organic compounds, and ammonia for all emissions units including fugitive emissions.

(2) For every third year beginning with 2005, the inventory shall also include all other chargeable pollutants and hazardous air pollutants not exempted in R307-150-8.

(3) For each pollutant specified in (1) or (2) above, the inventory shall include the rate and period of emissions, excess or breakdown emissions, startup and shut down emissions, the specific emissions unit that is the source of the air pollution, composition of air pollutant, type and efficiency of the air pollution control equipment, and other information necessary to quantify operation and emissions and to evaluate pollution control efficiency. The emissions of a pollutant shall be calculated using the source's actual operating hours, production rates, and types of materials processed, stored, or combusted during the inventoried time period.

R307-150-6. Sources Identified in R307-150-3(3).

(1) Each source identified in R307-150-3(3) shall submit an inventory every third year beginning with calendar year 2002 for all emissions units including fugitive emissions.

(a) The inventory shall include PM10, PM2.5, oxides of sulfur, oxides of nitrogen, carbon monoxide, volatile organic compounds, ammonia, other chargeable pollutants, and hazardous air pollutants not exempted in R307-150-8.

(b) For each pollutant, the inventory shall include the rate and period of emissions, excess or breakdown emissions, startup and shut down emissions, the specific emissions unit which is the source of the air pollution, composition of air pollutant, type and efficiency of the air pollution control equipment, and other information necessary to quantify operation and emissions and to

evaluate pollution control efficiency. The emissions of a pollutant shall be calculated using the source's actual operating hours, production rates, and types of materials processed, stored, or combusted during the inventoried time period.

(2) Sources identified in R307-150-3(3) shall submit an inventory for each year after 2002 in which the total amount of PM10, oxides of sulfur, oxides of nitrogen, carbon monoxide, or volatile organic compounds increases or decreases by 40 tons or more per year from the most recently submitted inventory. For each pollutant, the inventory shall meet the requirements of R307-150-6(1)(a) and (b).

R307-150-7. Sources Identified in R307-150-3(4), Other Part 70 Sources.

(1) Sources identified in R307-150-3(4) shall submit the following emissions inventory every third year beginning with calendar year 2002 for all emission units including fugitive emissions.

(2) Sources identified in R307-150-3(4) shall submit an inventory for each year after 2002 in which the total amount of PM10, oxides of sulfur, oxides of nitrogen, carbon monoxide, or volatile organic compounds increases or decreases by 40 tons or more per year from the most recently submitted inventory.

(3) The emission inventory shall include individual pollutant totals of all chargeable pollutants not exempted in R307-150-8.

R307-150-8. Exempted Hazardous Air Pollutants.

(1) The following air pollutants are exempt from this rule if they are emitted in an amount less than that listed in Table 1.

TABLE 1

POLLUTANT	Pounds/year
Arsenic	0.21
Benzene	33.90
Beryllium	0.04
Ethylene oxide	38.23
Formaldehyde	5.83

(2) Hazardous air pollutants, except for dioxins or furans, are exempt from being reported if they are emitted in an amount less than the smaller of the following:

(a) 500 pounds per year; or

(b) for acute pollutants, the applicable TLV-C expressed in milligrams per cubic meter and multiplied by 15.81 to obtain the pounds-per-year threshold; or

(c) for chronic pollutants, the applicable TLV-TWA expressed in milligrams per cubic meter and multiplied by 21.22 to obtain the pounds-per-year threshold; or

(d) for carcinogenic pollutants, the applicable TLV-C or TLV-TWA expressed in milligrams per cubic meter and multiplied by

7.07 to obtain the pounds-per-year threshold.

KEY: air pollution, reports, inventories
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Notice of Continuation: January 28, 2014
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R307. Environmental Quality, Air Quality.
R307-165. Emission Testing.
R307-165-1. Purpose.

R307-165 establishes the frequency of emission testing requirements for all areas in the state.

R307-165-2. Testing Every 5 Years.

Emission testing is required at least once every five years of all sources with established emission limitations specified in approval orders issued under R307-401 or in section IX, Part H of the Utah state implementation plan. In addition, if the director has reason to believe that an applicable emission limitation is being exceeded, the director may require the owner or operator to perform such emission testing as is necessary to determine actual compliance status. Sources approved in accordance with R307-401 will be tested within six months of start-up. The Board may grant exceptions to the mandatory testing requirements of R307-165-2 that are consistent with the purposes of R307.

R307-165-3. Notification of DAQ.

At least 30 days prior to conducting any emission testing required under any part of R307, the owner or operator shall notify the director of the date, time and place of such testing and, if determined necessary by the director, the owner or operator shall attend a pretest conference.

R307-165-4. Test Conditions.

All tests shall be conducted while the source is operating at the maximum production or combustion rate at which such source will be operated. During the tests, the source shall burn fuels or combinations of fuels, use raw materials, and maintain process conditions representative of normal operations. In addition, the source shall operate under such other relevant conditions as the director shall specify.

R307-165-5. Rejection of Test Results.

The director may reject emissions test data if they are determined to be incomplete, inadequate, not representative of operating conditions specified for the test, or if the director was not provided an opportunity to have an observer present at the test.

KEY: air pollution, emission testing

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Authorizing, and Implemented or Interpreted Law: 19-2-104(1)

R307. Environmental Quality, Air Quality.
R307-170. Continuous Emission Monitoring Program.
R307-170-1. Purpose.

The purpose of this rule is to establish consistent requirements for all sources required to install a continuous monitoring system (CMS) and for sources who opt into the continuous emissions monitoring program.

R307-170-2. Authority.

Authority to require continuous emission monitoring devices is found in 19-2-104(1)(c), and authorization for a penalty for rendering inaccurate any monitoring device or method is found in 19-2-115(4). Authority to enforce 40 CFR Part 60 is obtained by its incorporation by reference under R307-210.

R307-170-3. Applicability.

Except as noted in (1) and (2) below, any source required to install a continuous monitoring system to determine emissions to the atmosphere or to measure control equipment efficiency is subject to R307-170.

(1) Any source subject to 40 CFR Part 60 as incorporated by R307-210, Standards of Performance for New Sources, is not subject to R307-170-6, Minimum Monitoring Requirements for Specific Sources.

(2) Any source required by an approval order issued under R307-401 to operate a continuous monitoring system to satisfy the requirements of R307-150, Periodic Reports of Emissions and Availability of Information, is not subject to R307-170-9(7), Excess Emission Report.

R307-170-4. Definitions.

The following additional definitions apply to R307-170.

"Accuracy" means the difference between a continuous monitoring system response and the results of an applicable EPA reference method obtained over the same sampling time.

"Averaging Period" means that period of time over which a pollutant or opacity is averaged to demonstrate compliance to an emission limitation or standard.

"Block Averages" means the total time expressed in fractions of hours over which emission data is collected and averaged.

"Calibration Drift" (zero drift and span drift) means the value obtained by subtracting the known standard or reference value from the raw response of the continuous monitoring system.

"Channel" means the pollutant, diluent, or opacity to be monitored.

"CMS Information" means the identifying information for each

continuous monitoring system a source is required to install.

"Computer Enhancement" means computerized correction of a monitor's zero drift and span drift to reflect actual emission concentrations and opacity.

"Continuous Emission Monitoring System" (CEMS) means all equipment required to determine gaseous emission rates and to record the resulting data.

"Continuous Monitoring System" (CMS) means all equipment required to determine gaseous emission rates or opacity and to record the data.

"Continuous Opacity Monitoring System" means all equipment required to determine opacity and data recording.

"Cylinder Gas Audit" means an alternative relative accuracy test of a continuous emission monitoring system to determine its precision using gases certified by or traceable to National Institute of Standards and Technology (NIST) in the ranges specified in 40 CFR 60, Appendix F.

"Description Report" means a short but accurate description of events that caused continuous monitoring system irregularities or excess emissions that occurred during the reporting period submitted in the state electronic data report.

"Excess Emission Report" means a report within the state electronic data report that documents the date, time, and magnitude of each excess emission episode occurring during the reporting period.

"Excess Emissions" means the amount by which recorded emissions exceed those allowed by approval orders, operating permits, the state implementation plan, or any other provision of R307.

"Monitor" means the equipment in a continuous monitoring system that analyzes concentration or opacity and generates an electronic signal that is sent to a recording device.

"Monitor Availability" means any period in which both the source of emissions and the continuous monitoring system are operating and the minimum frequency of data capture occurred as required in 40 CFR 60.13.

"Monitor Unavailability" means any period in which the source of emissions is operating and the continuous monitoring system is:

a. not operating or minimum data capture did not occur,

b. not generating data, not recording data, or data is lost, or

c. out-of-control in the case of a continuous emissions monitor used for continuous compliance purposes.

"New Source Performance Standards" (NSPS) means 40 CFR 60, Standards of Performance for New Stationary Sources, incorporated by reference at R307-210.

"Operations Report" means the report of all information required under 40 CFR 60 for utilities and fossil fuel fired boilers.

"Performance Specification" means the operational tolerances for a continuous monitoring system as outlined in 40 CFR 60, Appendix B.

"Precision" means the difference between a continuous monitoring system response and the known concentration of a calibration gas or neutral density filter.

"Quality Assurance Calibrations" means calibrations, drift adjustments, and preventive maintenance activities on a continuous monitoring system.

"Raw Continuous Monitoring System Response" means a continuous monitoring system's uncorrected response used to determine calibration drift.

"Relative Accuracy Audit" means an alternative relative accuracy test procedure outlined in 40 CFR 60, Appendix F, which is used to correlate continuous emission monitoring system data to simultaneously collected reference method test data, as outlined in 40 CFR Part 60, Appendix A, using no fewer than three reference method test runs.

"Relative Accuracy Test Audit" means the primary method of determining the correlation of continuous emissions monitoring system data to simultaneously collected reference method test data, using no fewer than nine reference method test runs conducted as outlined in 40 CFR 60, Appendix A.

"State Electronic Data Report" (SEDR) means the sum total of a source's monitoring activities that occurred during a reporting period.

"Summary Report" means the summary of all monitor and excess emission information that occurred during a reporting period.

"Tamper" means knowingly:

a. to make a false statement, representation, or certification in any application, report, record, plan, or other document filed or required to be maintained under R307-170, or

b. to render inaccurate any continuous monitoring system or device or any method required to maintain the accuracy of the continuous monitoring system or device.

"Valid Monitoring Data" means data collected by an accurately functioning continuous monitoring system while any installation monitored by the continuous monitoring system is in operation.

R307-170-5. General Requirements.

(1) Each source required to operate a continuous monitoring system is subject to the requirements of 40 CFR 60.13 (d) through (j), except as follows:

(a) When minimum emission data points are collected by the continuous monitoring system as required in 40 CFR 60.13 or applicable subparts, quality assurance calibration and maintenance activities shall not count against monitor availability.

(b) A monitor's unavailability due to calibration checks, zero and span checks, or adjustments required in 40 CFR 60.13 or R307-170 will not be considered a violation of R307-170.

(c) Monitor unavailability due to continuous monitoring system breakdowns will not be considered a monitor unavailability violation provided that the owner or operator demonstrates that the malfunction was unavoidable and was repaired expeditiously.

(d) To supplement continuous monitor data, a source with

minimum continuous monitoring system data collection requirements may conduct applicable reference method tests outlined in 40 CFR 60, Appendix A, or as directed in the source's applicable Subpart of the New Source Performance Standards.

(2) Each source shall monitor and record all emissions data during all phases of source operations, including start-ups, shutdowns, and process malfunctions.

(3) Each source operating a continuous emissions monitoring system for compliance determination shall document each out-of-control period in the state electronic data report.

(4) Each continuous monitoring system subject to R307-170 shall be installed, operated, maintained, and calibrated in accordance with applicable performance specifications found in 40 CFR 60 Appendix B and Appendix F.

(5) Each continuous emissions monitoring system shall be configured so that calibration gas can be introduced at or as near to the probe inlet as possible. Each source shall conduct daily calibration zero drift and span drift checks and cylinder gas audits by flowing calibration gases at the probe inlet, or as near to the probe inlet as possible. Daily calibration drift checks and quarterly cylinder gas audit data shall be recorded by the continuous emissions monitoring system electronically to a strip chart recorder, data logger, or data recording devices.

(6) No person shall tamper with a continuous monitoring system.

(7) Any source that constructs two or more emission point sources that may interfere with visible emissions observations shall install a continuous opacity monitor to show compliance with visible emission limitations on each obstructed stack, duct or vent that has a visible emission limitation.

R307-170-6. Minimum Monitoring Requirements for Specific Sources.

(1) Fossil Fuel Fired Steam Generators.

(a) A continuous monitoring system for the measurement of opacity shall be installed, calibrated, maintained, and operated on any fossil fuel fired steam generator of greater than 250 million BTU per hour for each boiler except where:

(i) natural gas or oil or a mixture of natural gas and oil is the only fuel burned,

(ii) the source is able to comply with the applicable particulate matter and opacity regulations without using particulate matter collection equipment, and

(iii) the source has never been found through any administrative or judicial proceeding to be in violation of any visible emission standard or requirements.

(b) A continuous monitoring system for the measurement of sulfur dioxide shall be installed, calibrated, maintained, and operated on any fossil fuel fired steam generator of greater than 250 million BTU per hour heat input which has installed sulfur dioxide pollution control equipment.

(c) A continuous monitoring system for the measurement of

nitrogen oxides shall be installed, calibrated, maintained, and operated on fossil fuel fired steam generators of greater than 1000 million BTU per hour heat input when such facility is located in an Air Quality Control Region where the director has specifically determined that a control strategy for nitrogen dioxide is necessary to attain the national standards, unless the source owner or operator demonstrates during source compliance tests as required by the director that such a source emits nitrogen oxides at levels 30 percent or more below the emission standard.

(d) A continuous monitoring system for the measurement of percent oxygen or carbon dioxide shall be installed, calibrated, maintained, and operated on any fossil fuel fired steam generators where measurements of oxygen or carbon dioxide in the flue gas are required to convert either sulfur dioxide or nitrogen oxides continuous emission monitoring data, or both, to units of the emission standard.

(2) Nitric Acid Plants.

Each nitric acid plant of greater than 300 tons per day production capacity, the production capacity being expressed as 100 percent acid, and located in an Air Quality Control Region where the director has specifically determined that a control strategy for nitrogen dioxide is necessary to attain the national standard, shall install, calibrate, maintain, and operate a continuous monitoring system for the measurement of nitrogen oxides for each nitric acid producing installation.

(3) Sulfuric Acid Plants - Burning and Production.

Each sulfuric acid plant of greater than 300 tons per day production capacity, the production being expressed as 100 percent acid, shall install, calibrate, maintain and operate a continuous monitoring system for the measurement of sulfur dioxide for each sulfuric acid producing installation within such plant.

(4) Petroleum Refineries - Fluid Bed Catalytic Cracking Unit Catalyst Regenerator.

Each catalyst regenerator for fluid bed catalytic cracking units of greater than 20,000 barrels per day fresh feed capacity shall install, calibrate, maintain and operate a continuous monitoring system for the measurement of opacity.

R307-170-7. Performance Specification Audits.

(1) Quarterly Audits.

Unless otherwise stipulated for sources subject to the Acid Rain Provisions of the Clean Air Act in 40 CFR Part 75 CEM, Appendix A, Section 6.2, effective as of the date referenced in R307-101-3, each continuous emissions monitoring system shall be audited at least once each calendar quarter. Successive quarterly audits shall be conducted at least two months apart. A relative accuracy test audit shall be conducted at least once every four calendar quarters as described in the applicable performance specification of 40 CFR 60, Appendix B.

(a) Relative accuracy shall be determined in units of the applicable emission limit.

(b) An alternative relative accuracy test (cylinder gas audit or relative accuracy audit) may be conducted in three of the four calendar quarters in place of conducting a relative accuracy test audit, but in no more than three quarters in succession.

(c) Each range of a dual range monitor shall be audited using an alternative relative accuracy audit procedure.

(d) Minor deviations from the reference method test must be submitted to the director for approval.

(e) Performance specification tests and audits shall be conducted so that the entire continuous monitoring system is concurrently tested.

(2) Notification.

The source shall notify the director of its intention to conduct a relative accuracy test audit by submitting a pretest protocol or by scheduling a pretest conference if directed to do so by the director. Each source shall notify the director no less than 45 days prior to testing.

(3) Audit Procedure.

A source may stop a relative accuracy test audit before the commencement of the fourth run to perform repairs or adjustments on the continuous emissions monitoring system. If the audit is stopped to make repairs or adjustments, the audit must be started again from the beginning. If the fourth test run is started, testing shall be conducted until the completion of the ninth acceptable test run or the source may declare the monitor out-of-control and stop the test. If the system does not meet its applicable relative accuracy performance specification outlined in 40 CFR 60, Appendix B, its data may not be used in determining emissions rates until the system is successfully recertified.

(4) Performance Specification Tests.

(a) Except as listed in (b) below, all reference method testing equipment shall be totally independent of the continuous emissions monitoring system equipment undergoing a performance specification test.

(b) Reference method tests conducted on fuel gas lines, vapor recovery units, or other equipment as approved by the director may use a common probe, when the reference method sample line ties into the continuous emission monitor's probe or sample line as close to the probe inlet as possible.

(5) Submittal of Audit Results.

The source shall submit all relative accuracy performance specification test reports to the director no later than 60 days after completion of the test.

(a) Test reports shall include all raw reference method calibration data, raw reference method emission data with date and time stamps, and raw source continuous monitoring data with date and time stamps. All data shall be reported in concentration and units of the applicable emission limit.

(b) Relative accuracy performance specification test or audit reports shall include the company name, plant manager's name, mailing address, phone number, environmental contact's name, the monitor manufacturer, the model and serial number, the monitor

range, and its location.

(6) Daily Drift Test.

Each source operating a continuous monitoring system shall conduct a daily zero and span calibration drift test as required in 40 CFR 60.13(d). The zero and span drifts shall be determined by using raw continuous monitoring system responses to a known value of the reference standard. Computer enhancements may be used to correct continuous monitoring system emission data that has been altered by monitor drift, but may not be used to determine daily zero and span drift.

(a) A monitor used for compliance that fails the daily calibration drift test as outlined in 40 CFR 60 Appendix F, Subpart 4, shall be declared out-of-control, and the out-of-control period shall be documented in the state electronic data report. The source shall make corrective adjustments to the system promptly. Continuous emission monitoring system data collected during the out-of-control period may not be used for monitor availability.

(b) Each source operating a continuous monitoring system that exceeds the calibration drift limit as outlined in 40 CFR 60 and the applicable performance specification shall make corrective adjustments promptly.

R307-170-8. Recordkeeping.

Each source subject to this rule shall maintain a file of all:

(1) parameters for each continuous monitoring system and monitoring device,

(2) performance test measurements,

(3) continuous monitoring system performance evaluations,

(4) continuous monitoring system or monitoring device calibration checks,

(5) adjustments and maintenance conducted on these systems or devices, and

(6) all other information required by this rule. Information shall be recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports, and records, and shall be available to the director at any time.

R307-170-9. State Electronic Data Report.

(1) General Reporting Requirements.

(a) Each source required to install a continuous monitoring system shall submit the state electronic data report including all information specified in (2) through (10) below. Each source shall submit a complete, unmodified report in an electronic ASCII format specified by the director.

(b) Partial Reports.

(i) If the total duration of excess emissions during the reporting period is less than one percent of the total operating time and the continuous monitoring system downtime is less than five percent of the total operating time, only the summary portion

of the state electronic data report need be submitted.

(ii) If the total excess emission during the reporting period is equal to or greater than one percent of the total operating time, or the total monitored downtime is equal to or greater than five percent of the total operating time, the total state electronic data report shall be submitted.

(iii) Each source required to install a continuous monitoring system for the sole purpose of generating emissions inventory data is not required to submit the excess emission report required by (7) below or the excess emission summary required by (6)(b) below, unless otherwise directed by the director.

(c) Frequency of Reporting. Each source subject to this rule shall submit a report to the director with the following frequency:

(i) Each source shall submit a report quarterly, if required by the director or by 40 CFR Part 60, or if the continuous monitoring system data is used for compliance determination. Each source submitting quarterly reports shall submit them by January 30, April 30, July 30, and October 30 for the quarter ending 30 days earlier.

(ii) Any source subject to this rule and not required to submit a quarterly report shall submit its report semiannually by January 30 and July 30 for the six month period ending 30 days earlier.

(iii) The director may require any source to submit all emission data generated on a quarterly basis.

(2) Source Information.

The report shall contain source information including the company name, name of manager or responsible official, mailing address, AIRS number, phone number, environmental contact name, each source required to install a monitoring system, quarter or quarters covered by the report, year, and the operating time for each source.

(3) Continuous Monitoring System Information.

The report shall identify each channel, manufacturer, model number, serial number, monitor span, installation dates, and whether the monitor is located in the stack or duct.

(4) Monitor Availability Reporting.

(a) The report shall include all periods that the pollutant concentration exceeded the span of the continuous monitoring system by source, channel, start date and time, and end date and time.

(b) Each continuous monitoring system outage or malfunction which occurs during source operation shall be reported by source, channel, start date and time, and end date and time.

(c) When it becomes necessary to supplement continuous monitoring data to meet the minimum data requirements, the source shall use applicable reference methods and procedures as outlined in 40 CFR 60, or as stipulated in the source's applicable Subpart of the New Source Performance Standards. Supplemental data shall be reported by source, channel, start date and time, and end date

and time, and may be used to offset monitor unavailability.

(d) Monitor modifications shall be reported by source, channel, date of modification, whether a support document was submitted, and the reason for the modification.

(5) Continuous Monitoring System Performance Specification Audits.

(a) Each source shall submit the results of each relative accuracy test audit, relative accuracy audit and cylinder gas audit. Each source that reports linearity tests may omit reporting cylinder gas audits.

(b) Each relative accuracy test audit shall be reported by source, channel, date of the most current relative accuracy test audit, date of the preceding relative accuracy test audit, number of months between relative accuracy test audits, units of applicable standard, average continuous emissions monitor response during testing, average reference method value, relative accuracy, and whether the continuous emissions monitor passed or failed the test or audit.

(c) A relative accuracy audit shall be reported by source, channel, date of audit, continuous emissions monitor response, relative accuracy audit response, percent precision, pass or fail results, and whether the monitor range is high or low.

(d) Cylinder gas audit and linearity tests shall be reported by source, channel, date, audit point number, cylinder identification, cylinder expiration date, type of certification, units of measurement, continuous emissions monitor response, cylinder concentration, percent precision, pass or fail results, and whether the monitor range is high or low.

(6) Summary reports.

(a) Each source shall summarize and report each continuous monitoring system outage that occurred during the reporting period in the continuous monitoring system performance summary report. The summary must include the source, channels, monitor downtime as a percent of the total source operating hours, total monitor downtime, hours of monitor malfunction, hours of non-monitor malfunction, hours of quality assurance calibrations, and hours of other known and unknown causes of monitor downtime. A source operating a backup continuous monitoring system must account for monitor unavailability only when accurate emission data are not being collected by either continuous monitoring system.

(b) The summary report shall contain a summary of excess emissions that occurred during the reporting period unless the continuous monitoring system was installed to document compliance with an emission cap or to generate data for annual emissions inventories.

(i) Each source with multiple emission limitations per channel being monitored shall summarize excess emissions for each emission limitation.

(ii) The emission summary must include the source, channels, total hours of excess emissions as a percent of the total source operating hours, hours of start-up and shutdown, hours of control equipments problems, hours of process problems, hours of other

known and unknown causes, emission limitation, units of measurement, and emission limitation averaging period.

(c) When no continuous monitoring unavailability or excess emissions have occurred, this shall be documented by placing a zero under each appropriate heading.

(7) Excess Emissions Report.

(a) The magnitude and duration of all excess emissions shall be reported on an hourly basis in the excess emissions report.

(i) The duration of excess emissions based on block averages shall be reported in terms of hours over which the emissions were averaged. Each source that averages opacity shall average it over a six-minute block and shall report the duration of excess opacity in tenths of an hour. Sources using a rolling average shall report the duration of excess emissions in terms of the number of hours being rolled into the averaging period.

(ii) Sources with multiple emission limitations per channel being monitored shall report the magnitude of excess emissions for each emission limitation.

(b) Each period of excess emissions that occurs shall be reported. Each episode of excess emission shall be accompanied with a reason code and action code that links the excess emission to a specific description, which describes the events of the episode.

(8) Operations Report.

Each source operating fossil fuel fired steam generators subject to 40 CFR 60, Standards of Performance for New Stationary Sources, shall submit an operations report.

(9) Signed Statement.

(a) Each source shall submit a signed statement acknowledging under penalties of law that all information contained in the report is truthful and accurate, and is a complete record of all monitoring related events that occurred during the reporting period. In addition, each source with an operating permit issued under R307-415 shall submit the signed statement required in R307-415-5d.

(10) Descriptions.

Each source shall submit a narrative description explaining each event of monitor unavailability or excess emissions. Each description also shall be accompanied with reason codes and action codes that will link descriptions to events reported in the monitoring information and excess emission report.

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R307. Environmental Quality, Air Quality.

R307-201. Emission Standards: General Emission Standards.

R307-201-1. Purpose.

R307-201 establishes emission standards for all areas of the state except for sources listed in section IX, Part H of the state implementation plan or located in a PM10 nonattainment or maintenance area.

R307-201-2. Applicability.

R307-201 applies statewide to any sources of emissions except for sources listed in section IX, Part H of the state implementation plan or located in a PM10 nonattainment or maintenance area.

R307-201-3. Visible Emissions Standards.

(1) Visible emissions from installations constructed on or before April 25, 1971, except diesel engines, shall be of a shade or density no darker than 40% opacity, except as otherwise provided in these rules.

(2) Visible emissions from installations constructed after April 25, 1971, except diesel engines shall be of a shade or density no darker than 20% opacity, except as otherwise provided in these rules.

(3) Visible emissions for all incinerators, no matter when constructed, shall be of shade or density no darker than 20% opacity.

(4) No owner or operator of a gasoline powered engine or vehicle shall allow, cause or permit visible emissions.

(5) Emissions from diesel engines, except locomotives, manufactured after January 1, 1973, shall be of a shade or density no darker than 20% opacity, except for starting motion no farther than 100 yards or for stationary operation not exceeding three minutes in any hour.

(6) Emissions from diesel engines manufactured before January 1, 1973, shall be of a shade or density no darker than 40% opacity, except for starting motion no farther than 100 yards or for stationary operation not exceeding three minutes in any hour.

(7) Visible emissions exceeding the opacity standards for short time periods as the result of initial warm-up, soot blowing, cleaning of grates, building of boiler fires, cooling, etc., caused by start-up or shutdown of a facility, installation or operation, or unavoidable combustion irregularities which do not exceed three minutes in length (unavoidable combustion irregularities which exceed three minutes in length must be handled in accordance with R307-107), shall not be deemed in violation provided that the director finds that adequate control technology has been applied. The owner or operator shall minimize visible and non-visible emissions during start-up or shutdown of a facility, installation, or operation through the use of adequate control technology and proper procedures.

(8) Compliance Method. Emissions shall be brought into compliance with these requirements by reduction of the total weight of pollutants discharged per unit of time rather than by

dilution of emissions with clean air.

(9) Opacity Observation. Opacity observations of emissions from stationary sources shall be conducted in accordance with EPA Method 9. Opacity observers of mobile sources and intermittent sources shall use procedures similar to Method 9, but the requirement for observations to be made at 15 second intervals over a 6-minute period shall not apply.

R307-201-4. Automobile Emission Control Devices.

Any person owning or operating any motor vehicle or motor vehicle engine registered or principally operated in the State of Utah on which is installed or incorporated a system or device for the control of crankcase emissions or exhaust emissions in compliance with the Federal motor vehicle rules, shall maintain the system or device in operable condition and shall use it at all times that the motor vehicle or motor vehicle engine is operated. No person shall remove or make inoperable the system or device or any part thereof, except for the purpose of installing another system or device, or part thereof, which is equally or more effective in reducing emissions from the vehicle to the atmosphere.

KEY: air pollution, PM10
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Notice of Continuation: February 5, 2015
Authorizing, and Implemented or Interpreted Law: 19-2-101; 19-2-104

R307. Environmental Quality, Air Quality.
R307-202. Emission Standards: General Burning.
R307-202-1. Applicability.

R307-202-4 through R307-202-8 applies to general burning within incorporated community under the authority of county or municipal fire authority.

R307-202-2. Definitions.

The following additional definitions apply only to R307-202.

"Attainment areas" means any area that meets the national primary and secondary ambient air quality standard (NAAQS) for the pollutant.

"County or municipal fire authority" means the public official so designated with the responsibility, authority, and training to protect people, property, and the environment from fire, within their respective area of jurisdiction.

"Federal Class I Area" means an area that consists of national parks exceeding 6,000 acres, wilderness areas and national memorial parks exceeding 5,000 acres, and all international parks that were in existence on August 7, 1977. See Clean Air Act section 162(a).

"Fire hazard" means a hazardous condition involving

combustible, flammable, or explosive material that represents a substantial threat to life or property if not immediately abated, as declared by the county or municipal fire authority.

"Native American spiritual advisor" means a person who leads, instructs, or facilitates a Native American religious ceremony or service; or provides religious counseling; is an enrolled member of a federally recognized Native American tribe; and is recognized as a spiritual advisor by a federally recognized Native American tribe. "Native American spiritual advisor" includes a sweat lodge leader, medicine person, traditional religious practitioner, or holy man or woman.

R307-202-3. Exclusions.

As provided in Section 19-2-114, the provisions of R307-202 are not applicable to:

(1) Except for areas zoned as residential, burning incident to horticultural or agricultural operations of:

(a) Prunings from trees, bushes, and plants; and

(b) Dead or diseased trees, bushes, and plants, including stubble.

(2) Burning of weed growth along ditch banks for clearing these ditches for irrigation purposes;

(3) Controlled heating of orchards or other crops during the frost season to lessen the chances of their being frozen so long as the emissions from this heating do not cause or contribute to an exceedance of any national ambient air quality standards and is consistent with the federally approved State Implementation Plan; and

(4) The controlled burning of not more than two structures per year by an organized and operating fire department for the purpose of training fire service personnel when the National Weather Service clearing index is above 500. See also Section 11-7-1(2)(a).

(5) Ceremonial burning is excluded from R307-202-4(2) when conducted by a Native American spiritual advisor.

R307-202-4. Prohibitions.

(1) No open burning shall be done at sites used for disposal of community trash, garbage and other wastes.

(2) No person shall burn under this rule when the director issues a public announcement under R307-302. The director will distribute such announcement to the local media notifying the public that a mandatory no-burn period is in effect for the area where the burning is to occur.

R307-202-5. General Requirements.

(1) Except as otherwise provided in this rule, no person shall set or use an open outdoor fire for the purpose of disposal or burning of petroleum wastes; demolition or construction debris; residential rubbish; garbage or vegetation; tires; tar; trees; wood waste; other combustible or flammable solid, liquid or gaseous waste; or for metal salvage or burning of motor vehicle

bodies.

(2) The county or municipal fire authority shall approve burning based on the predicted meteorological conditions and whether the emissions would impact the health and welfare of the public or cause or contribute to an exceedance of any national ambient air quality standard.

(3) Nothing in this regulation shall be construed as relieving any person conducting open burning from meeting the requirements of any applicable federal, state or local requirements concerning disposal of any combustible materials.

(4) The county or municipal fire authority that approves any open burning permit will retain a copy of each permit issued for one year.

R307-202-6. Open Burning - Without Permit.

The following types of open burning do not require a permit when not prohibited by other local, state or federal laws and regulations, when it does not create a nuisance, as defined in Section 76-10-803, and does not impact the health and welfare of the public.

(1) Devices for the primary purpose of preparing food such as outdoor grills and fireplaces;

(2) Campfires and fires used solely for recreational purposes where such fires are under control of a responsible person and the combustible material is clean, dry wood or charcoal; and

(3) Indoor fireplaces and residential solid fuel burning devices except as provided in R307-302-2.

R307-202-7. Open Burning - With Permit.

(1) No person shall knowingly conduct open burning unless the open burning activities may be conducted without a permit pursuant to R307-202-6 or the person has a valid permit for burning on a specified date or period, issued by the county or municipal fire authority having jurisdiction in the area where the open burning will take place.

(2) A permit applicant shall provide information as requested by the county or municipal fire authority. No permit or authorization shall be deemed valid unless the issuing authority determines that the applicant has provided the required information.

(3) Persons seeking an open burning permit shall submit to the county or municipal fire authority an application on a form provided by the director for each separate burn.

(4) A permit shall be valid only on the lands specified on the permit.

(5) No material shall be burned unless it is clearly described and quantified as material to be burned on a valid permit.

(6) No burning shall be conducted contrary to the conditions specified on the permit.

(7) Any permit issued by a county or municipal fire

authority shall be subject to the local, state, and federal rules and regulations.

(8) Open burning is authorized by the issuance of a permit, as stipulated within this rule, for specification in R307-202-7(10). These permits can only be issued when not prohibited by other local, state, or federal laws and regulations and when a nuisance as defined in Section 76-10-803 is not created and does not impact the health and welfare of the public.

(9) Individual permits, as stipulated within this rule, for the types of burning listed in R307-202-7(10) may be issued by a county or municipal fire authority when the clearing index is 500 or greater. When the clearing index is below 500, all permits issued for that day will be null and void until further notice from the county or municipal fire authority. Additionally, anyone burning on the day when the clearing index is below 500 or is found to be violating any part of this rule shall be liable for a fine in accordance with R307-130.

(10) Types of open burning for which a permit may be granted are:

(a) Except in nonattainment and maintenance areas, open burning of tree cuttings and slash in forest areas where the cuttings accrue from pulping, lumbering, and similar operations, but excluding waste from sawmill operations such as sawdust and scrap lumber.

(b) Open burning of trees and brush within railroad rights-of-way provided that dirt is removed from stumps before burning, and that tires, oil more dense than #2 fuel oil, tar, or other materials which can cause severe air pollution are not present in the materials to be burned, and are not used to start fires or to keep fires burning.

(c) Open burning of a fire hazard that a county or municipal fire authority determines cannot be abated by any other viable option.

(d) Open burning of highly explosive materials when a county or municipal fire authority, law enforcement agency or governmental agency having jurisdiction determines that onsite burning or detonation in place is the only reasonably available method for safely disposing of the material.

(e) Open burning for the disposal of contraband in the possession of public law enforcement personnel provided they demonstrate to the county or municipal fire authority that open burning is the only reasonably available method for safely disposing of the material.

(f) Open burning of clippings, bushes, plants and prunings from trees incident to property clean-up activities, including residential cleanup, provided that the following conditions have been met:

(i) Within only the counties of Washington, Kane, San Juan, Iron, Garfield, Beaver, Piute, Wayne, Grand and Emery, the county or municipal fire authority may issue a permit between March 1 and May 30 when the clearing index is 500 or greater. The county or municipal fire authority may issue a permit between September 15

to November 15 for such burning to occur when the state forester has approved the burning window under Section 65A-8-211 and the clearing index is 500 or greater.

(ii) In all other areas of the state, the county or municipal fire authority may issue a permit between March 30 and May 30 for such burning to occur when the clearing index is 500 or greater. The county or municipal fire authority may issue a permit between September 15 and October 30 for such burning to occur when the state forester has approved the burning window under Section 65A-8-211 and the clearing index is 500 or greater.

(iii) Such burnings occur in accordance with state and federal requirements;

(iv) Materials to be burned are thoroughly dry; and

(v) No trash, rubbish, tires, or oil are included in the material to be burned, used to start fires, or used to keep fires burning.

(g) Except for nonattainment and maintenance areas, the director may grant a permit for types of open burning not specified in R307-202-7(3) on written application if the director finds that the burning is consistent with the federally approved State Implementation Plan and does not cause or contribute to an exceedance of any national ambient air quality standards.

(i) This permit may be granted once the director has reviewed the written application with the requirements and criteria found within this rule at R307-202-7.

(ii) Open Burning Permit Criteria.

(A) The director or the county or municipal fire authority shall consider the following factors in determining whether, and upon what conditions, to issue an open burning permit:

(I) The location and proximity of the proposed burning to any building, other structures, the public, and federal Class I areas that might be impacted by the smoke and emissions from the burn;

(II) Burning will only be conducted when the clearing index is 500 or above; and

(III) Whether there is any practical alternative method for the disposal of the material to be burned.

(B) Methods to minimize emissions and smoke impacts may include, but are not limited to:

(I) The use of clean auxiliary fuel;

(II) Drying the material prior to ignition; and

(III) Separation for alternative disposal of materials that produce higher levels of emissions and smoke during the combustion process.

(C) Open burning permits are not valid during periods when the clearing index is below 500 or publicly announced air pollution emergencies or alerts have been declared in the area of the proposed burn.

(D) For burns of piled material, all piles shall be reasonably dry and free of dirt.

(E) Open burns shall be supervised by a responsible person who shall notify the local fire department and have available,

either on-site or by the local fire department, the means to suppress the burn if the fire does not comply with the terms and conditions of the permit.

(F) All open burning operations shall be subject to inspection by the director or county or municipal fire authority. The permittee shall maintain at the burn site the original or a copy of the permit that shall be made available without unreasonable delay to the inspector.

(G) If at any time the director or the county or municipal fire authority granting the permit determines that the permittee has not complied with any term or condition of the permit, the permit is subject to partial or complete suspension, revocation or imposition of additional conditions. All burning activity subject to the permit shall be terminated immediately upon notice of suspension or revocation. In addition to suspension or revocation of the permit, the director or county or municipal fire authority may take any other enforcement action authorized under state or local law.

R307-202-8. Special Conditions.

(1) Open burning for special purposes or under unusual or emergency circumstances may be approved by the director if it is consistent with the federally approved State Implementation Plan and does not cause or contribute to an exceedance of any national ambient air quality standards.

(a) This permit may be granted once the director has reviewed the written application with the requirements and criteria in R307-202-7.

KEY: air pollution, open burning, fire authority
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R307. Environmental Quality, Air Quality.
R307-203. Emission Standards: Sulfur Content of Fuels.
R307-203-1. Commercial and Industrial Sources.

(1) Any coal, oil, or mixture thereof, burned in any fuel burning or process installation not covered by New Source Performance Standards for sulfur emissions shall contain no more than 1.0 pound sulfur per million gross BTU heat input for any mixture of coal nor .85 pounds sulfur per million gross BTU heat input for any oil.

(a) In the case of fuel oil, it shall be sufficient to record the following specifications for each purchase of fuel oil from the vendor: weight percent sulfur, gross heating value (btu per unit volume), and density. These parameters shall be ascertained in accordance with the methods of the American Society for Testing and Materials.

(b) In the case of coal, it shall be necessary to obtain a

representative grab sample for every 24 hours of operation and the sample shall be tested in accordance with the methods of the American Society for Testing and Materials.

(c) All sources located in the SO_2 nonattainment area covered by Section IX, Part H of the Utah State Implementation Plan which are required to comply with specific fuel (oil or coal) sulfur content limitations must demonstrate compliance with their limitations in accordance with (a) and (b) above.

(d) Records of fuel sulfur content shall be kept for all periods when the plant is in operation and shall be made available to the director upon request, and shall include a period of two years ending with the date of the request.

(e) If the owner/operator of the source can demonstrate to the director that the inherent variability of the coal they are receiving from the vendor is low enough such that the testing requirements outlined above may be deemed excessive, then an alternative testing plan may be approved for use with the same source of coal.

(f) Any person may apply to the director for approval of an alternative test method, an alternative method of control, an alternative compliance period, an alternative emission limit, or an alternative monitoring schedule. The application must include a demonstration that the proposed alternative produces an equal or greater air quality benefit than that required by R307-203, or that the alternative test method is equivalent to that required by R307-203. The director shall obtain concurrence from EPA when approving an alternative test method, an alternative method of control, an alternative compliance period, an alternative emission limit, or an alternative monitoring schedule.

(2) Any person engaged in operating fuel burning equipment using coal or fuel oil, which is not covered by New Source Performance Standards for sulfur emissions, may apply for an exemption from the sulfur content restrictions of (1) above. The applicant shall furnish evidence, that the fuel burning equipment is operating in such a manner as to prevent the emission of sulfur dioxide in amounts greater than would be produced under the limitations of (1) above. Control apparatus to continuously prevent the emission of sulfur greater than provided by (1) above must be specified in the application for an exemption.

(3) In case an exemption is granted, the operator shall install continuous emission monitoring devices approved by the director. The operator shall provide the director with a monthly summary of the data from such monitors. This summary shall be such as to show the degree of compliance with (1) above. It shall be submitted no later than the calendar month succeeding its recording. When exemptions from (1) above are granted, the source's application for such exemption must specify the test method for determining sulfur emissions. The test method must agree with the NSPS test method for the same industrial category.

(4) Methods for determining sulfur content of coal and fuel oil shall be those methods of the American Society for Testing and Materials.

(a) For determining sulfur content in coal, ASTM Methods D3177-75 or D4239-85 are to be used.

(b) For determining sulfur content in oil, ASTM Methods D2880-71 or D4294-89 are to be used.

(c) For determining the gross calorific (or BTU) content of coal, ASTM Methods D2015-77 or D3286-85 are to be used.

R307-203-2. Sulfur and Ash Content of Coal for Residential Use.

(1) After July 1, 1987, no person shall sell, distribute, use or make available for use any coal or coal containing fuel for direct space heating in residential solid fuel burning devices and fireplaces which exceeds the following limitations as measured by the American Society for Testing Materials Methods:

(a) 1.0 pound sulfur per million BTU's, and

(b) 12% volatile ash content.

(2) Any person selling coal or coal containing fuel used for direct residential space heating within the State of Utah shall provide written documentation to the coal consumer of the sulfur and volatile ash content of the coal being purchased.

R307-203-3. Emissions Standards.

Other provisions of R307 may require more stringent controls than listed herein, in which case those requirements must be met.

KEY: air pollution, fuel composition*, fuel oil*
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Notice of Continuation: February 5, 2015
Authorizing, and Implemented or Interpreted Law: 19-2-104

R307. Environmental Quality, Air Quality.
R307-204. Emission Standards: Smoke Management.
R307-204-1. Purpose and Goals.

(1) The purpose of R307-204 is to establish by rule procedures that mitigate the impact on public health and visibility of prescribed fire and wildland fire.

R307-204-2. Applicability.

(1) R307-204 applies to all persons using prescribed fire or wildland fire on land they own or manage.

(2) R307-204 does not apply to agricultural activities specified in 19-2-114 and to those regulated under R307-202, or to activities otherwise permitted under R307.

R307-204-3. Definitions.

The following additional definitions apply only to R307-204.

"Annual Emissions Goal" means the annual establishment of a planned quantitative value of emissions reductions from prescribed fire.

"Best Management Practices" means smoke management and dispersion techniques used during a prescribed fire or a wildland

fire use event that affect the direction, duration, height or density of smoke.

"Burn Plan" means the plan required for each fire application ignited by managers. It must be prepared by qualified personnel and approved by the appropriate agency administrator prior to implementation. Each plan follows specific agency direction and must include critical elements described in agency manuals.

"Burn Window" means the period of time during which the prescribed fire is scheduled for ignition.

"Emission Reduction Techniques (ERT)" mean techniques for controlling emissions from prescribed fires to minimize the amount of emission output per unit or acre burned.

"Federal Class I Area" means any Federal land that is federally classified or reclassified Class I.

"Fire Prescription" means the measurable criteria that define conditions under which a prescribed fire may be ignited, guide selection of appropriate management responses, and indicates other required actions. Prescription criteria may include safety, economic, public health, environmental, geographic, administrative, social, or legal considerations.

"Land Manager" means any federal, state, local or private entity that owns, administers, directs, oversees or controls the use of public or private land, including the application of fire to the land.

"Non-burning Alternatives to Fire" means non-burning techniques that are used to achieve a particular land management objective, including but not limited to reduction of fuel loading, manipulation of fuels, enhancement of wildlife habitat, and ecosystem restructuring. These alternatives are designed to replace the use of fire for at least the next five years.

"Particulate Matter" means the liquid or solid particles such as dust, smoke, mist, or smog found in air emissions.

"Pile" means natural materials or debris resulting from some type of fuels management practice that have been relocated either by hand or machinery into a concentrated area.

"Pile Burn" means burning of individual piles.

"Prescribed Fire or Prescribed Burn" means any fire ignited by management actions to meet specific objectives, such as achieving resource benefits.

"Smoke Sensitive Receptors" means population centers such as towns and villages, campgrounds and trails, hospitals, nursing homes, schools, roads, airports, Class I areas, nonattainment and maintenance areas, areas whose air quality monitoring data indicate pollutant levels that are close to health standards, and any other areas where smoke and air pollutants can adversely affect public health, safety and welfare.

"Wildland" means an area in which development is essentially non-existent, except for pipelines, power lines, roads, railroads, or other transportation or conveyance facilities. Structures, if any, are widely scattered.

"Wildland Fire" means any non-structure fire, other than prescribed fire, that occurs in the wildland.

"Wildland Fire Use Event" means naturally ignited wildland fire that is managed to accomplish specific prestated resource management objectives in predefined geographic areas.

"Wildland Fire Implementation Plan(WFIP)" means the plan required for each fire that is allowed to burn.

"WFIP Stage I" means the initial wildland fire strategy planning document. It is developed for fires less than 20 acres, with a low potential of spread and negative impacts. It must be completed within 8-hrs. of start.

"WFIP Stage II" means a more detailed wildland fire strategy planning document. It is developed for fires greater than 20 acres that are more active fires with a greater potential for geographic extent. It must be completed within 24-hrs. of start.

R307-204-4. General Requirements.

(1) Management of On-Going Fires. If, after consultation with the land manager, the director determines that a prescribed fire, wildland fire use event, wildland fire, or any smoke transported from other locations, is degrading air quality to levels that could violate the National Ambient Air Quality Standards or burn plan conditions, the land manager shall promptly stop igniting additional prescribed fires.

(2) Emissions Calculations. In calculating emissions information required under R307-204, each land manager shall use emission factors approved by the director.

(3) Non-burning Alternatives to Fire. Beginning in 2004 and annually thereafter, each land manager shall submit to the director by March 15 a list of areas treated using non-burning alternatives to fire during the previous calendar year, including the number of acres, the specific types of alternatives used, and the location of these areas.

(4) Annual Emissions Goal. The director shall provide an opportunity for an annual meeting with land managers for the purpose of evaluation and adoption of the annual emission goal. The annual emission goal shall be developed in cooperation with states, federal land management agencies and private entities, to control prescribed fire emissions increases to the maximum feasible extent.

(5) Long-term Fire Projections. Each land manager shall provide to the director by March 15 annually long-term projections of future prescribed fire activity for annual assessment of visibility impairment.

R307-204-5. Burn Schedule.

(1) Any land manager planning prescribed fire burning more than 50 acres per year shall submit the burn schedule to the director on forms provided by the Division of Air Quality, and shall include the following information for all prescribed fires including those smaller than 20 acres:

(a) Project number and project name;

(b) Air Quality Basin, UTM coordinate for the central point of the prescribed fire, project elevation, and county;

(c) Total project acres, description of major fuels, type of burn, ignition method, and planned use of emission reduction techniques to support establishment of the annual emissions goal;

(d) Earliest burn date and burn duration.

(2) Each land manager shall submit each year's burn schedule no later than March 15 of that year.

(3) Any land manager who makes changes to the burn schedule shall submit an amendment to the burn schedule within 10 days after the change.

R307-204-6. Small Prescribed Fires (de minimis).

(1) A prescribed fire that covers less than 20 acres per burn shall be ignited only when the clearing index is 500 or greater.

(2) A prescribed fire that covers less than 20 acres per day may be ignited when the National Weather Service Clearing Index is between 500 and 400 with approval of the director.

(a) The prescribed fire should be recorded as a de minimis prescribed fire on the Utah Annual Burn Schedule.

(b) The Land Manager is required to notify the director by fax, e-mail, or phone prior to ignition of the burn when burning below a National Weather Service Clearing Index is between 500 and 400.

(c) The land manager must include hourly photographs, a record of any complaints, hourly meteorological conditions and an hourly description of the smoke plume must be recorded and submitted.

R307-204-7. Small Prescribed Pile Fires (de minimis).

(1) Pile burns covering up to 30,000 cubic feet per day shall be ignited only when the clearing index is 500 or greater.

(2) Pile burns covering up to 30,000 cubic feet per day may be ignited when the National Weather Service Clearing Index is between 500 and 400 with approval of the director.

(a) The pile fire should be recorded as a de minimis prescribed fire on the Utah Annual Burn Schedule.

(b) The Land Manager is required to notify the director by fax, e-mail, or phone prior to ignition of the burn when burning below a National Weather Service Clearing Index is between 500 and 400.

(c) The land manager must include hourly photographs, a record of any complaints, hourly meteorological conditions and an hourly description of the smoke plume must be recorded and submitted.

R307-204-8. Large Prescribed Fires.

(1) Burn Plan. For a prescribed fire that covers 20 acres or more per burn, the land manager shall submit to the director a burn plan, including a fire prescription.

(2) Pre-Burn Information. For a prescribed fire that covers 20 acres or more per burn, the land manager shall submit pre-burn information to the director at least two weeks before the

beginning of the burn window. The pre-burn information shall be submitted to the director on the appropriate form provided by the Division of Air Quality by fax, electronic mail or postal mail and shall include the following information:

(a) The three-letter ID, project number, date submitted, name of person submitting the form, burn manager, and phone numbers;

(b) Summary of burn objectives, such as restoration or maintenance of ecological functions or indication of fire resiliency;

(c) Any sensitive receptor within 15 miles, including any Class I or nonattainment or maintenance area, and distance and direction in degrees from the project site;

(d) Planned mitigation methods;

(e) The smoke dispersion or visibility model used and results;

(f) The estimated amount of total particulate matter anticipated;

(g) A description of how the public and land managers in neighboring states will be notified;

(h) A map depicting both the daytime and nighttime smoke path and down-drainage flow for a minimum of 15 miles from the burn site with smoke-sensitive areas delineated;

(i) Safety and contingency plans for addressing any smoke intrusions; and

(j) If the fire is in a nonattainment or maintenance area and is subject to general conformity (42 U.S.C. 7506(c)), a copy of the conformity demonstration showing that the fire meets the requirements of the Clean Air Act and conforms with the applicable State Implementation Plan.

(k) Planned use of emission reduction techniques to support establishment of an annual emissions goal, if not already submitted under R307-204-5.

(l) Any other information needed by the director for smoke management purposes, or for assessment of contribution to visibility impairment in any Class I area.

(3) Burn Request.

(a) The land manager shall submit to the director a burn request on the form provided by the Division of Air Quality by 1000 hours at least two business days before the planned ignition time. The form may be submitted by fax or electronic mail, and must include the following information:

(i) The three-letter identification and project number consistent with the annual burn schedule required in R307-204-5(1) above;

(ii) The date submitted and by whom; and

(iii) The burn manager conducting the burn and phone numbers.

(b) No prescribed fire requiring a burn plan shall be ignited before the director approves the burn request.

(c) If a prescribed fire is delayed, changed or not completed following burn approval, any significant changes in the

burn plan shall be submitted to the director before the burn request is submitted. If a prescribed fire is not carried out, the land manager shall list the reasons on the burn request form provided by the Division of Air Quality and shall submit the form by fax or electronic mail to the director by 0800 hours the following business day.

(4) Daily Emissions Report. By 0800 hours on the day following the prescribed burn, for each day of prescribed fire activity covering 20 acres or more, the land manager shall submit to the director a daily emission report on the form provided by the Division of Air Quality including the following information:

(a) The three-letter identification and project number consistent with the annual burn schedule required in R307-204-5(1) above;

(b) The date submitted and by whom;

(c) The start and end dates and times of the burn;

(d) Emission information including black acres, tons fuel consumed per acre, and tons particulate matter produced;

(e) Public interest regarding smoke;

(f) Daytime ventilation;

(g) Nighttime smoke behavior;

(h) Evaluation of the techniques used by the land manager to reduce emissions or manage the smoke from the prescribed burn; and

(i) Emission reduction techniques applied.

(5) Emission Reduction and Dispersion Techniques. Each land manager shall take measures to prevent smoke impacts. Such measures may include best management practices such as dilution, emission reduction or avoidance in addition to others described in the pre-burn information form provided by the Division of Air Quality. An evaluation of the techniques shall be included in the daily emissions report required by (4) above.

(6) Monitoring. Land managers shall monitor the effects of the prescribed fire on smoke sensitive receptors and on visibility in Class I areas, as directed by the burn plan. Hourly visual monitoring and documentation of the direction of the smoke plume shall be recorded on the form provided by the Division of Air Quality or on the land manager's equivalent form. Complaints from the public shall be noted in the land managers project file. Records shall be available for inspection by the director for six months following the end of the fire.

R307-204-9. Large Prescribed Pile Fires.

(1) Burn Plan. For a prescribed pile fire that exceeds 30,000 cubic feet per day, the land manager shall submit to the director a burn plan, including a fire prescription.

(2) Pre-Burn Information. For a prescribed pile fire that exceeds 30,000 cubic feet or more per burn, the land manager shall submit pre-burn information to the director at least two weeks before the beginning of the burn window. The pre-burn information shall be submitted to the director on the appropriate form provided by the Division of Air Quality by fax, electronic mail or postal mail and shall include the following information:

(a) The three-letter ID, project number, date submitted, name of person submitting the form, burn manager, and phone numbers;

(b) Summary of burn objectives, such as restoration or maintenance of ecological functions or indication of fire resiliency;

(c) Any sensitive receptor within 15 miles, including any Class I or nonattainment or maintenance area, and distance and direction in degrees from the project site;

(d) Planned mitigation methods;

(e) The smoke dispersion or visibility model used and results;

(f) The estimated amount of total particulate matter anticipated;

(g) A description of how the public and land managers in neighboring states will be notified;

(h) A map depicting both the daytime and nighttime smoke path and down-drainage flow for a minimum of 15 miles from the burn site with smoke-sensitive areas delineated;

(i) Safety and contingency plans for addressing any smoke intrusions; and

(j) If the fire is in a nonattainment or maintenance area and is subject to general conformity (42 U.S.C. 7506(c)), a copy of the conformity demonstration showing that the fire meets the requirements of the Clean Air Act and conforms with the applicable State Implementation Plan.

(k) Planned use of emission reduction techniques to support establishment of an annual emissions goal, if not already submitted under R307-204-5.

(l) Any other information needed by the director for smoke management purposes, or for assessment of contribution to visibility impairment in any Class I area.

(3) Burn Request.

(a) The land manager shall submit to the director a burn request on the form provided by the Division of Air Quality by 1000 hours at least two business days before the planned ignition time. The form may be submitted by fax or electronic mail, and must include the following information:

(i) The three-letter identification and project number consistent with the annual burn schedule required in R307-204-5(1) above;

(ii) The date submitted and by whom; and

(iii) The burn manager conducting the burn and phone numbers.

(b) No prescribed pile fire requiring a burn plan shall be ignited before the director approves the burn request.

(c) If a prescribed pile fire is delayed, changed or not completed following burn approval, any significant changes in the burn plan shall be submitted to the director before the burn request is submitted. If a prescribed fire is not carried out, the land manager shall list the reasons on the burn request form provided by the Division of Air Quality and shall submit the form

by fax or electronic mail to the director by 0800 hours the following business day.

(4) Daily Emissions Report. By 0800 hours on the day following the prescribed pile burn, for each day of pile fire activity exceeding 30,000 cubic feet, the land manager shall submit to the director a daily emission report on the form provided by the Division of Air Quality including the following information:

(a) The three-letter identification and project number consistent with the annual burn schedule required in R307-204-5(1) above;

(b) The date submitted and by whom;

(c) The start and end dates and times of the burn;

(d) Emission information including black acres, tons fuel consumed per acre, and tons particulate matter produced;

(e) Public interest regarding smoke;

(f) Daytime ventilation;

(g) Nighttime smoke behavior;

(h) Evaluation of the techniques used by the land manager to reduce emissions or manage the smoke from the prescribed pile burn; and

(i) Emission reduction techniques applied.

(5) Emission Reduction and Dispersion Techniques. Each land manager shall take measures to prevent smoke impacts. Such measures may include best management practices such as dilution, emission reduction or avoidance in addition to others described in the pre-burn information form provided by the Division of Air Quality. An evaluation of the techniques shall be included in the daily emissions report required by (4) above.

(6) Monitoring. Land managers shall monitor the effects of the prescribed pile fire on smoke sensitive receptors and on visibility in Class I areas, as directed by the burn plan. Hourly visual monitoring and documentation of the direction of the smoke plume shall be recorded on the form provided by the Division of Air Quality or on the land manager's equivalent form. Complaints from the public shall be noted in the land managers project file. Records shall be available for inspection by the director for six months following the end of the fire.

R307-204-10. Requirements for Wildland Fire Use Events.

(1) Burn Approval Required.

(a) The land manager shall notify the director of any potential wildland fire use (WFU) event having a WFIP Stage I. The following information will be provided:

(i) UTM coordinate of the fire;

(ii) Active burning acres;

(iii) Probable fire size and daily anticipated growth in acres;

(iv) Types of wildland fuel involved;

(v) An emergency telephone number that is answered 24 hours a day;

(vi) Wilderness or Resource Natural Area designation, if

applicable;

(vii) Distance to nearest community;

(viii) Elevation of fire; and

(ix) Fire's airshed number.

(b) The Land Managers shall notify the director of any potential wildland fire use event covering more than 20 acres or having a WFIP Stage II due to higher potential for spread and negative impacts. In addition to the information required for a WFU with a WFIP Stage I, the following additional information will be provided to the director as it is being developed:

(i) WFIP Stage II wildland fire implementation plan and anticipated emissions;

(ii) A map depicting both the daytime and nighttime smoke path and down-drainage flow for a minimum of 15 miles from the burn site with smoke-sensitive areas delineated; and

(iii) Additional computer smoke modeling, if requested by the director.

(c) The director's approval of the smoke management element of the wildland fire implementation plan shall be obtained before managing the fire as a wildland fire use event.

(2) Daily Emission Report for wildland fire use event. By 0800 hours on the business day following fire activity covering 20 acres or more, the land manager shall submit to the director the daily emission report on the form provided by the Division of Air Quality, including the following information:

(a) The three-letter identification, project number, Air Quality Basin, and name of the burn manager;

(b) UTM coordinate;

(c) Dates and times of the start and end of the burn;

(d) Black acres by wildland fuel type;

(e) Estimated proportion of wildland fuel consumed by wildland fuel type;

(f) Proportion of moisture in the wildland fuel by size class;

(g) Emission estimates;

(h) Level of public interest or concern regarding smoke; and

(i) Conformance to the wildland fire implementation plan.

(3) Monitoring. The land manager shall monitor the effects of smoke on smoke sensitive receptors and visibility in Class I areas as directed by the wildland fire implementation plan. Complaints from the public shall be recorded in the project file. Records shall be available for inspection by the director for six months following the end of the fire.

KEY: air quality, wildland fire, smoke, land manager
Date of Enactment or Last Substantive Amendment: July 7, 2011
Notice of Continuation: February 5, 2015
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)

R307. Environmental Quality, Air Quality.
R307-205. Emission Standards: Fugitive Emissions and Fugitive

Dust.

R307-205-1. Purpose.

R307-205 establishes minimum work practices and emission standards for sources of fugitive emissions and fugitive dust for sources located in all areas in the state except those listed in section IX, Part H of the state implementation plan or located in a PM10 nonattainment or maintenance area.

R307-205-2. Applicability.

R307-205 applies statewide to all sources of fugitive emissions and fugitive dust, except for agricultural or horticultural activities specified in 19-2-114(1)-(3) and any source listed in section IX, Part H of the state implementation plan or located in a PM10 nonattainment or maintenance area.

R307-205-3. Definitions.

The following definition applies throughout R307-205:

"Material" means sand, gravel, soil, minerals or other matter that may create fugitive dust.

R307-205-4. Fugitive Emissions.

Fugitive emissions from sources which were constructed on or before April 25, 1971, shall not exceed 40% opacity. Fugitive emissions from sources constructed or modified after April 25, 1971, shall not exceed 20% opacity.

R307-205-5. Fugitive Dust.

(1) Storage and Handling of Materials. Any person owning, operating or maintaining a new or existing material storage, handling or hauling operation shall minimize fugitive dust from such an operation. Such control may include the use of enclosures, covers, stabilization or other equivalent methods or techniques as approved by the director.

(2) Construction and Demolition Activities.

(a) Any person engaging in clearing or leveling of land greater than one-quarter acre in size, earthmoving, excavation, or movement of trucks or construction equipment over cleared land greater than one-quarter acre in size or access haul roads shall take steps to minimize fugitive dust from such activities. Such control may include watering and chemical stabilization of potential fugitive dust sources or other equivalent methods or techniques approved by the director.

(b) The owner or operator of any land area greater than one-quarter acre in size that has been cleared or excavated shall take measures to prevent fugitive particulate matter from becoming airborne. Such measures may include:

(i) planting vegetative cover,

(ii) providing synthetic cover,

(iii) watering,

(iv) chemical stabilization,

(v) wind breaks, or

(vi) other equivalent methods or techniques approved by the

director.

(c) Any person engaging in demolition activities including razing homes, buildings, or other structures or removing paving material from roads or parking areas shall take steps to minimize fugitive dust from such activities. Such control may include watering and chemical stabilization or other equivalent methods or techniques approved by the director.

R307-205-6. Roads.

(1) The director may require persons owning, operating or maintaining any new or existing road, or having right-of-way easement or possessory right to use the same, to supply traffic count information as determined necessary to ascertain whether or not control techniques are adequate or additional controls are necessary.

(2) Any person who deposits materials that may create fugitive dust on a public or private paved road shall clean the road promptly.

R307-205-7. Mining Activities.

(1) Fugitive dust, construction activities, and roadways associated with mining activities are regulated under the provisions of R307-205-7 and not by R307-205-5 and 6.

(2) Any person who owns or operates a mining operation shall minimize fugitive dust as an integral part of site preparation, mining activities, and reclamation operations.

(3) The fugitive dust control measures to be used may include:

(a) periodic watering of unpaved roads,

(b) chemical stabilization of unpaved roads,

(c) paving of roads,

(d) prompt removal of coal, rock minerals, soil, and other dust-forming debris from roads and frequent scraping and compaction of unpaved roads to stabilize the road surface,

(e) restricting the speed of vehicles in and around the mining operation,

(f) revegetating, mulching, or otherwise stabilizing the surface of all areas adjoining roads that are a source of fugitive dust,

(g) restricting the travel of vehicles on other than established roads,

(h) enclosing, covering, watering, or otherwise treating loaded haul trucks and railroad cars, to minimize loss of material to wind and spillage,

(i) substitution of conveyor systems for haul trucks and covering of conveyor systems when conveyed loads are subject to wind erosion,

(j) minimizing the area of disturbed land,

(k) prompt revegetation of regraded lands,

(l) planting of special windbreak vegetation at critical points in the permit area,

(m) control of dust from drilling, using water sprays,

hoods, dust collectors or other controls approved by the director,

(n) restricting the areas to be blasted at any one time,

(o) reducing the period of time between initially disturbing the soil and revegetating or other surface stabilization,

(p) restricting fugitive dust at spoil and coal transfer and loading points,

(q) control of dust from storage piles through use of enclosures, covers, or stabilization and other equivalent methods or techniques as approved by the director, or

(r) other techniques as determined necessary by the director.

R307-205-8. Tailings Piles and Ponds.

(1) Fugitive dust, construction activities, and roadways associated with tailings piles and ponds are regulated under the provisions of R307-205-8 and not by R307-205-5 and 6.

(2) Any person owning or operating an existing tailings operation where fugitive dust results from grading, excavating, depositing, or natural erosion or other causes in association with such operation shall take steps to minimize fugitive dust from such activities. Such controls may include:

(a) watering,

(b) chemical stabilization,

(c) synthetic covers,

(d) vegetative covers,

(e) wind breaks,

(f) minimizing the area of disturbed tailings,

(g) restricting the speed of vehicles in and around the tailings operation, or

(h) other equivalent methods or techniques which may be approvable by the director.

KEY: air pollution, fugitive emissions, mining, tailings
Date of Enactment or Last Substantive Amendment: July 7, 2005
Notice of Continuation: February 5, 2015
Authorizing, and Implemented or Interpreted Law: 19-2-101; 19-2-104; 19-2-109

R307. Environmental Quality, Air Quality.
R307-206. Emission Standards: Abrasive Blasting.
R307-206-1. Purpose.

R307-206 establishes work practice and emission standards for abrasive blasting operations for sources located statewide except for those sources listed in section IX, Part H of the state implementation plan or located in a PM10 nonattainment or maintenance area.

R307-206-2. Definitions.

(1) The following additional definitions apply to R307-206:

"Abrasive Blasting" means the operation of cleaning or preparing a surface by forcibly propelling a stream of abrasive

material against the surface.

"Abrasive Blasting Equipment" means any equipment utilized in abrasive blasting operations.

"Confined Blasting" means any abrasive blasting conducted in an enclosure which significantly restricts air pollutants from being emitted to the ambient atmosphere, including but not limited to shrouds, tanks, drydocks, buildings and structures.

"Multiple Nozzles" means a group of two or more nozzles being used for abrasive cleaning of the same surface in such close proximity that their separate plumes are indistinguishable.

"Unconfined Blasting" means any abrasive blasting which is not confined blasting as defined above.

R307-206-3. Applicability.

R307-206 applies statewide to any abrasive blasting operation, except for any source that is listed in Section IX, Part H of the state implementation plan or that is located in a PM10 nonattainment or maintenance area.

R307-206-4. Visible Emission Standards.

Visible emissions from abrasive blasting operations shall not exceed 40% opacity, except for an aggregate period of three minutes in any one hour.

R307-206-5. Visible Emission Evaluation Techniques.

(1) Visible emissions shall be measured using EPA Method 9. Visible emissions from intermittent sources shall use procedures similar to Method 9, but the requirement for observations to be made at 15 second intervals over a six-minute period shall not apply.

(2) Visible emissions from unconfined blasting shall be measured at the densest point of the emission after a major portion of the spent abrasive has fallen out, at a point not less than five feet nor more than twenty-five feet from the impact surface from any single abrasive blasting nozzle.

(3) An unconfined blasting operation that uses multiple nozzles shall be considered a single source unless it can be demonstrated by the owner or operator that each nozzle, measured separately, meets the emission and performance standards provided in R307-206-2 through 4.

(4) Visible emissions from confined blasting shall be measured at the densest point after the air pollutant leaves the enclosure.

KEY: air pollution, abrasive blasting, PM10
Date of Enactment or Last Substantive Amendment: December 15, 2015
Notice of Continuation: February 5, 2015
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)

R307. Environmental Quality, Air Quality.

R307-207. Residential Fireplaces and Solid Fuel Burning Devices.
R307-207-1. Purpose and Definition.

R307-207 establishes emission standards for residential fireplaces and solid fuel burning devices.

"Solid fuel burning device" means any device used for burning wood, coal, or any other nongaseous and non-liquid fuel, including, but not limited to, wood stoves, but excluding outdoor wood boilers, which are regulated under R307-208.

R307-207-2. Applicability.

(1) R307-207 applies to residential fireplaces and solid fuel burning devices in all areas of the state, except for PM10 and PM2.5 nonattainment and maintenance areas. R307-302 applies to PM10 and PM2.5 nonattainment or maintenance areas.

R307-207-3. Opacity for Residential Heating.

Visible emissions from residential solid fuel burning devices and fireplaces shall be limited to a shade or density no darker than 20% opacity as measured by EPA Method 9, except for the following:

(1) An initial fifteen minute start-up period, and

(2) A period of fifteen minutes in any three-hour period in which emissions may exceed the 20% opacity limitation for refueling.

KEY: fireplaces, residential, solid fuel burning
Date of Enactment or Last Substantive Amendment: November 8, 2012
Notice of Continuation: February 5, 2015
Authorizing, and Implemented or Interpreted Law: 19-2-101; 19-2-104

R307. Environmental Quality, Air Quality.
R307-208. Outdoor Wood Boilers.
R307-208-1. Definitions.

The following additional definitions apply to R307-208:

"Clean wood" means wood that has not been painted, stained, or treated with any coatings, glues or preservatives, including, but not limited to, chromated copper arsenate, creosote, alkaline copper quaternary, copper azole or pentachlorophenol.

"Commercial new outdoor wood boiler" means a new outdoor wood boiler with a thermal output rating greater than 350,000 BTU per hour.

"Outdoor wood boiler" means a fuel burning device also known as a wood-fired hydronic heater:

(1) Designed to burn wood or other approved solid fuels;

(2) Specified by the manufacturer for outdoor installation or installation in structures not normally occupied by humans; and

(3) Designated to heat building space or water via the distribution, typically through pipes, of a fluid heated in the device, typically water or a mixture of water and antifreeze.

"New outdoor wood boiler" means an outdoor wood boiler that

commences operation on or after March 1, 2013.

"Sole source of heat" means the solid fuel burning device is the only available source of heat for the entire residence or business, except for small portable heaters.

"Residential new outdoor wood boiler" means a new outdoor wood boiler that has a thermal output rating of 250,000 BTU per hour or less.

"Unseasoned wood" means wood that has not been allowed to dry for at least six months.

"Wood pellet outdoor boiler" means an outdoor wood boiler with an automatic pellet feed mechanism.

R307-208-2. Prohibition.

(1) Prohibited fuels. No person shall burn any of the following items in an outdoor wood boiler:

(a) Wood that does not meet the definition of clean wood;
(b) Unseasoned wood;
(c) Garbage;
(d) Tires;
(e) Yard waste, including lawn clippings;
(f) Materials containing plastic;
(g) Materials containing rubber;
(h) Waste petroleum products;
(i) Paints or paint thinners;
(j) Household or laboratory chemicals;
(k) Coal;
(l) Glossy or colored paper;
(m) Construction and demolition debris;
(n) Plywood;
(o) Particleboard;
(p) Fiberboard;
(q) Oriented strand board;
(r) Manure;
(s) Animal carcasses;
(t) Asphalt products;

(2) No person shall operate an outdoor wood boiler within 1000 feet of a private or public school, hospital or day care facility.

(3) Setback. A new residential outdoor wood boiler shall not be located less than 100 feet from the nearest property boundary line. A new commercial outdoor wood boiler shall not be located less than 200 feet from the nearest property boundary nor 300 feet from a property boundary of a residentially zoned property.

(4) Stack height. A new outdoor wood boiler shall have a permanent stack extending five feet higher than the peak of any roof structure within 150 feet of the outdoor wood boiler.

(5) In areas other than those described in R307-208-5(1), no person shall sell, offer for sale, supply, install, purchase, or transfer an outdoor wood boiler after May 1, 2013, unless it is EPA Phase 2 qualified wood boiler or EPA Phase 2 qualified wood pellet outdoor boiler.

R307-208-3. Visible Emission Standard.

(1) Visible emissions for all outdoor wood boilers shall be limited to a shade or density no darker than 20% opacity as measured by EPA Method 9, except for the following:

(a) An initial fifteen minute start-up period; and

(b) A period of fifteen minutes in any three-hour period in which emissions may exceed the 20% opacity limitation for refueling.

R307-208-4. New Boiler Labeling.

(1) A permanent label shall be affixed to all new outdoor wood boilers by the manufacturer.

(a) The label material shall be durable to last the lifetime of the new unit.

(b) The label shall be affixed so that it cannot be removed.

(c) The label shall be affixed so that it is readily visible.

(d) The following information shall be displayed on the label:

(i) Date of manufacture;

(ii) Model name or number;

(iii) Serial number;

(iv) Thermal output rating in BTU per hour; and

(v) Particulate emission rate in pounds per million BTU heat output.

R307-208-5. Particulate Matter Nonattainment and Maintenance Plan Areas.

(1) R307-208-5 applies in all regions of Salt Lake and Davis counties; all portions of the Cache Valley; all regions in Weber and Utah counties west of the Wasatch mountain range; in Box Elder County, from the Wasatch mountain range west to the Promontory mountain range and south of Portage; and in Tooele County, from the northernmost part of the Oquirrh mountain range to the northern most part of the Stansbury mountain range and north of Route 199.

(2) No person shall sell, install or resell an outdoor wood boiler commencing May 1, 2013, with the exception of persons who register an outdoor wood boiler under R307-208-5(3).

(3) Owners of an existing outdoor wood boiler wishing to replace it after May 1, 2013, shall:

(a) Register the existing outdoor wood boiler with the director by May 1, 2013;

(b) Replace the existing outdoor wood boiler with an EPA Phase 2 qualified wood pellet outdoor wood boiler; and

(c) Comply with the provisions of R307-208-2 and 3.

(4) Persons unable to meet setback requirements in R307-208-2(3) because of existing land use limitations must request a waiver from the director before installing an outdoor wood boiler. Such waiver must include written approval from surrounding neighbors within the setback areas described in R307-208-2(3).

R307-208-6. Air Quality Action and Alert Days.

(1) By August 1, 2013, sole sources of residential or commercial heating using an outdoor wood boiler must be registered with the director in order to be exempt from R307-208-6(2).

(2) No person shall operate an outdoor wood boiler on an air quality action or alert day as described in R307-302, except those that are registered with the director as sole source of heat.

KEY: air pollution, outdoor wood boilers, prohibition
Date of Enactment or Last Substantive Amendment: April 10, 2013
Authorizing, and Implemented or Interpreted Law: 19-2-101; 19-2-104

R307. Environmental Quality, Air Quality.
R307-210. Stationary Sources.
R307-210-1. Standards of Performance for New Stationary Sources (NSPS).

The provisions of 40 Code of Federal Regulations (CFR) Part 60, effective on July 1, 2015, except for Subparts Cb, Cc, Cd, Ce, BBBB, DDDD, and HHHH, are incorporated by reference into these rules with the exception that references in 40 CFR to "Administrator" shall mean "director" unless by federal law the authority referenced is specific to the Administrator and cannot be delegated.

KEY: air pollution, stationary sources, new source review
Date of Enactment or Last Substantive Amendment: August 4, 2016
Notice of Continuation: May 12, 2016
Authorizing, and Implemented or Interpreted Law: 19-2-104(3)(q); 19-2-108

R307. Environmental Quality, Air Quality.
R307-214. National Emission Standards for Hazardous Air Pollutants.
R307-214-1. Pollutants Subject to Part 61.

The provisions of Title 40 of the Code of Federal Regulations (40 CFR) Part 61, National Emission Standards for Hazardous Air Pollutants, effective as of July 1, 2015, are incorporated into these rules by reference. For pollutant emission standards delegated to the State, references in 40 CFR Part 61 to "the Administrator" shall refer to the director.

R307-214-2. Sources Subject to Part 63.

The provisions listed below of 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants for Source Categories, effective as of July 1, 2015, are incorporated into these rules by reference. References in 40 CFR Part 63 to "the Administrator" shall refer to the director, unless by federal law the authority is specific to the Administrator and cannot be delegated.

(1) 40 CFR Part 63, Subpart A, General Provisions.

(2) 40 CFR Part 63, Subpart B, Requirements for Control Technology Determinations for Major Sources in Accordance with 42 U.S.C. 7412(g) and (j).

(3) 40 CFR Part 63, Subpart F, National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry.

(4) 40 CFR Part 63, Subpart G, National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater.

(5) 40 CFR Part 63, Subpart H, National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks.

(6) 40 CFR Part 63, Subpart I, National Emission Standards for Organic Hazardous Air Pollutants for Certain Processes Subject to the Negotiated Regulation for Equipment Leaks.

(7) 40 CFR Part 63, Subpart J, National Emission Standards for Polyvinyl Chloride and Copolymers Production.

(8) 40 CFR Part 63, Subpart L, National Emission Standards for Coke Oven Batteries.

(9) 40 CFR Part 63, Subpart M, National Perchloroethylene Air Emission Standards for Dry Cleaning Facilities.

(10) 40 CFR Part 63, Subpart N, National Emission Standards for Chromium Emissions From Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks.

(11) 40 CFR Part 63, Subpart O, National Emission Standards for Hazardous Air Pollutants for Ethylene Oxide Commercial Sterilization and Fumigation Operations.

(12) 40 CFR Part 63, Subpart Q, National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers.

(13) 40 CFR Part 63, Subpart R, National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations).

(14) 40 CFR Part 63, Subpart T, National Emission Standards for Halogenated Solvent Cleaning.

(15) 40 CFR Part 63, Subpart U, National Emission Standards for Hazardous Air Pollutant Emissions: Group I Polymers and Resins.

(16) 40 CFR Part 63, Subpart AA, National Emission Standards for Hazardous Air Pollutants for Phosphoric Acid Manufacturing.

(17) 40 CFR Part 63, Subpart BB, National Emission Standards for Hazardous Air Pollutants for Phosphate Fertilizer Production.

(18) 40 CFR Part 63, Subpart CC, National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries.

(19) 40 CFR Part 63, Subpart DD, National Emission Standards for Hazardous Air Pollutants from Off-Site Waste and Recovery Operations.

(20) 40 CFR Part 63, Subpart EE, National Emission Standards for Magnetic Tape Manufacturing Operations.

(21) 40 CFR Part 63, Subpart GG, National Emission Standards for Aerospace Manufacturing and Rework Facilities.

(22) 40 CFR Part 63, Subpart HH, National Emission Standards for Hazardous Air Pollutants for Oil and Natural Gas Production.

(23) 40 CFR Part 63, Subpart JJ, National Emission Standards for Wood Furniture Manufacturing Operations.

(24) 40 CFR Part 63, Subpart KK, National Emission Standards for the Printing and Publishing Industry.

(25) 40 CFR Part 63, Subpart MM, National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mills.

(26) 40 CFR Part 63, Subpart OO, National Emission Standards for Tanks - Level 1.

(27) 40 CFR Part 63, Subpart PP, National Emission Standards for Containers.

(28) 40 CFR Part 63, Subpart QQ, National Emission Standards for Surface Impoundments.

(29) 40 CFR Part 63, Subpart RR, National Emission Standards for Individual Drain Systems.

(30) 40 CFR Part 63, Subpart SS, National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or a Process (Generic MACT).

(31) 40 CFR Part 63, Subpart TT, National Emission Standards for Equipment Leaks- Control Level 1 (Generic MACT).

(32) 40 CFR Part 63, Subpart UU, National Emission Standards for Equipment Leaks-Control Level 2 Standards (Generic MACT).

(33) 40 CFR Part 63, Subpart VV, National Emission Standards for Oil-Water Separators and Organic-Water Separators.

(34) 40 CFR Part 63, Subpart WW, National Emission Standards for Storage Vessels (Tanks)-Control Level 2 (Generic MACT).

(35) 40 CFR Part 63, Subpart XX, National Emission Standards for Ethylene Manufacturing Process Units: Heat Exchange Systems and Waste Operations.

(36) 40 CFR Part 63, Subpart YY, National Emission Standards for Hazardous Air Pollutants for Source Categories: Generic MACT.

(37) 40 CFR Part 63, Subpart CCC, National Emission Standards for Hazardous Air Pollutants for Steel Pickling-HCl Process Facilities and Hydrochloric Acid Regeneration Plants.

(38) 40 CFR Part 63, Subpart DDD, National Emission Standards for Hazardous Air Pollutants for Mineral Wool Production.

(39) 40 CFR Part 63, Subpart EEE, National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors.

(40) 40 CFR Part 63, Subpart GGG, National Emission Standards for Hazardous Air Pollutants for Pharmaceuticals Production.

(41) 40 CFR Part 63, Subpart HHH, National Emission Standards for Hazardous Air Pollutants for Natural Gas Transmission and Storage.

(42) 40 CFR Part 63, Subpart III, National Emission Standards for Hazardous Air Pollutants for Flexible Polyurethane Foam Production.

(43) 40 CFR Part 63, Subpart JJJ, National Emission

Standards for Hazardous Air Pollutants for Group IV Polymers and Resins.

(44) 40 CFR Part 63, Subpart LLL, National Emission Standards for Hazardous Air Pollutants for Portland Cement Manufacturing Industry.

(45) 40 CFR Part 63, Subpart MMM, National Emission Standards for Hazardous Air Pollutants for Pesticide Active Ingredient Production.

(46) 40 CFR Part 63, Subpart NNN, National Emission Standards for Hazardous Air Pollutants for Wool Fiberglass Manufacturing.

(47) 40 CFR Part 63, Subpart OOO, National Emission Standards for Hazardous Air Pollutants for Amino/Phenolic Resins Production (Resin III).

(48) 40 CFR Part 63, Subpart PPP, National Emission Standards for Hazardous Air Pollutants for Polyether Polyols Production.

(49) 40 CFR Part 63, Subpart QQQ, National Emission Standards for Hazardous Air Pollutants for Primary Copper Smelters.

(50) 40 CFR Part 63, Subpart RRR, National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production.

(51) 40 CFR Part 63, Subpart TTT, National Emission Standards for Hazardous Air Pollutants for Primary Lead Smelting.

(52) 40 CFR Part 63, Subpart UUU, National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units.

(53) 40 CFR Part 63, Subpart VVV, National Emission Standards for Hazardous Air Pollutants: Publicly Owned Treatment Works.

(54) 40 CFR Part 63, Subpart AAAA, National Emission Standards for Hazardous Air Pollutants for Municipal Solid Waste Landfills.

(55) 40 CFR Part 63, Subpart CCCC, National Emission Standards for Manufacturing of Nutritional Yeast.

(56) 40 CFR Part 63, Subpart DDDD, National Emission Standards for Hazardous Air Pollutants for Plywood and Composite Wood Products.

(57) 40 CFR Part 63, Subpart EEEE, National Emission Standards for Hazardous Air Pollutants for Organic Liquids Distribution (non-gasoline).

(58) 40 CFR Part 63, Subpart FFFF, National Emission Standards for Hazardous Air Pollutants for Miscellaneous Organic Chemical Manufacturing.

(59) 40 CFR Part 63, Subpart GGGG, National Emission Standards for Vegetable Oil Production; Solvent Extraction.

(60) 40 CFR Part 63, Subpart HHHH, National Emission Standards for Wet-Formed Fiberglass Mat Production.

(61) 40 CFR Part 63, Subpart IIII, National Emission Standards for Hazardous Air Pollutants for Surface Coating of

Automobiles and Light-Duty Trucks.

(62) 40 CFR Part 63, Subpart JJJJ, National Emission Standards for Hazardous Air Pollutants for Paper and Other Web Surface Coating Operations.

(63) 40 CFR Part 63, Subpart KKKK, National Emission Standards for Hazardous Air Pollutants for Surface Coating of Metal Cans.

(64) 40 CFR Part 63, Subpart MMMM, National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products.

(65) 40 CFR Part 63, Subpart NNNN, National Emission Standards for Large Appliances Surface Coating Operations.

(66) 40 CFR Part 63, Subpart OOOO, National Emission Standards for Hazardous Air Pollutants for Fabric Printing, Coating and Dyeing Surface Coating Operations.

(67) 40 CFR Part 63, Subpart PPPP, National Emissions Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products.

(68) 40 CFR Part 63, Subpart QQQQ, National Emission Standards for Hazardous Air Pollutants for Surface Coating of Wood Building Products.

(69) 40 CFR Part 63, Subpart RRRR, National Emission Standards for Hazardous Air Pollutants for Metal Furniture Surface Coating Operations.

(70) 40 CFR Part 63, Subpart SSSS, National Emission Standards for Metal Coil Surface Coating Operations.

(71) 40 CFR Part 63, Subpart TTTT, National Emission Standards for Leather Tanning and Finishing Operations.

(72) 40 CFR Part 63, Subpart UUUU, National Emission Standards for Cellulose Product Manufacturing.

(73) 40 CFR Part 63, Subpart VVVV, National Emission Standards for Boat Manufacturing.

(74) 40 CFR Part 63, Subpart WWWW, National Emissions Standards for Hazardous Air Pollutants for Reinforced Plastic Composites Production.

(75) 40 CFR Part 63, Subpart XXXX, National Emission Standards for Tire Manufacturing.

(76) 40 CFR Part 63, Subpart YYYY, National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines.

(77) 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

(78) 40 CFR Part 63, Subpart AAAAA, National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing Plants.

(79) 40 CFR Part 63, Subpart BBBBB, National Emission Standards for Hazardous Air Pollutants for Semiconductor Manufacturing.

(80) 40 CFR Part 63, Subpart CCCCC, National Emission Standards for Hazardous Air Pollutants for Coke Ovens: Pushing, Quenching, and Battery Stacks.

(81) 40 CFR Part 63, Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters.

(82) 40 CFR Part 63, Subpart EEEEE, National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries.

(83) 40 CFR Part 63, Subpart FFFFF, National Emission Standards for Hazardous Air Pollutants for Integrated Iron and Steel Manufacturing.

(84) 40 CFR Part 63, Subpart GGGGG, National Emission Standards for Hazardous Air Pollutants for Site Remediation.

(85) 40 CFR Part 63, Subpart HHHHH, National Emission Standards for Hazardous Air Pollutants for Miscellaneous Coating Manufacturing.

(86) 40 CFR Part 63, Subpart IIIII, National Emission Standards for Hazardous Air Pollutants for Mercury Emissions from Mercury Cell Chlor-Alkali Plants.

(87) 40 CFR Part 63, Subpart JJJJJ, National Emission Standards for Hazardous Air Pollutants for Brick and Structural Clay Products Manufacturing.

(88) 40 CFR Part 63, Subpart KKKKK, National Emission Standards for Hazardous Air Pollutants for Clay Ceramics Manufacturing.

(89) 40 CFR Part 63, Subpart LLLLL, National Emission Standards for Hazardous Air Pollutants for Asphalt Processing and Asphalt Roofing Manufacturing.

(90) 40 CFR Part 63, Subpart MMMMM, National Emission Standards for Hazardous Air Pollutants for Flexible Polyurethane Foam Fabrication Operations.

(91) 40 CFR Part 63, Subpart NNNNN, National Emission Standards for Hazardous Air Pollutants for Hydrochloric Acid Production.

(92) 40 CFR Part 63, Subpart PPPPP, National Emission Standards for Hazardous Air Pollutants for Engine Test Cells/Stands.

(93) 40 CFR Part 63, Subpart QQQQQ, National Emission Standards for Hazardous Air Pollutants for Friction Materials Manufacturing Facilities.

(94) 40 CFR Part 63, Subpart RRRRR, National Emission Standards for Hazardous Air Pollutants for Taconite Iron Ore Processing.

(95) 40 CFR Part 63, Subpart SSSSS, National Emission Standards for Hazardous Air Pollutants for Refractory Products Manufacturing.

(96) 40 CFR Part 63, Subpart TTTTT, National Emission Standards for Hazardous Air Pollutants for Primary Magnesium Refining.

(97) 40 CFR Part 63, Subpart UUUUU, National Emission Standards for Hazardous Air Pollutants for Coal- and Oil-Fired Electric Utility Steam Generating Units.

(98) 40 CFR Part 63, Subpart WWWWW, National Emission Standards for Hospital Ethylene Oxide Sterilizers.

(99) 40 CFR Part 63, Subpart YYYYY, National Emission Standards for Hazardous Air Pollutants for Area Sources: Electric Arc Furnace Steelmaking Facilities.

(100) 40 CFR Part 63, Subpart ZZZZZ, National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources.

(101) 40 CFR Part 63 Subpart BBBBBB National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities

(102) 40 CFR Part 63 Subpart CCCCCC National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities.

(103) 40 CFR Part 63, Subpart DDDDDD, National Emission Standards for Hazardous Air Pollutants for Polyvinyl Chloride and Copolymers Production Area Sources.

(104) 40 CFR Part 63, Subpart EEEEEE, National Emission Standards for Hazardous Air Pollutants for Primary Copper Smelting Area Sources.

(105) 40 CFR Part 63, Subpart FFFFFF, National Emission Standards for Hazardous Air Pollutants for Secondary Copper Smelting Area Sources.

(106) 40 CFR Part 63, Subpart GGGGGG, National Emission Standards for Hazardous Air Pollutants for Primary Nonferrous Metals Area Sources--Zinc, Cadmium, and Beryllium.

(107) 40 CFR Part 63, Subpart JJJJJJ, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources.

(108) 40 CFR Part 63, Subpart LLLLLL, National Emission Standards for Hazardous Air Pollutants for Acrylic and Modacrylic Fibers Production Area Sources.

(109) 40 CFR Part 63, Subpart MMMMMM, National Emission Standards for Hazardous Air Pollutants for Carbon Black Production Area Sources.

(110) 40 CFR Part 63, Subpart NNNNNN, National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources: Chromium Compounds.

(111) 40 CFR Part 63, Subpart OOOOOO, National Emission Standards for Hazardous Air Pollutants for Flexible Polyurethane Foam Production and Fabrication Area Sources.

(112) 40 CFR Part 63, Subpart PPPPPP, National Emission Standards for Hazardous Air Pollutants for Lead Acid Battery Manufacturing Area Sources.

(113) 40 CFR Part 63, Subpart QQQQQQ, National Emission Standards for Hazardous Air Pollutants for Wood Preserving Area Sources.

(114) 40 CFR Part 63, Subpart RRRRRR, National Emission Standards for Hazardous Air Pollutants for Clay Ceramics Manufacturing Area Sources.

(115) 40 CFR Part 63, Subpart SSSSSS, National Emission Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources.

(116) 40 CFR Part 63, Subpart VVVVVV, National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources.

(117) 40 CFR Part 63, Subpart TTTTTT, National Emission Standards for Hazardous Air Pollutants for Secondary Nonferrous Metals Processing Area Sources.

(118) 40 CFR Part 63, Subpart WWWWWW, National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations.

(119) 40 CFR Part 63, Subpart XXXXXX, National Emission Standards for Hazardous Air Pollutants Area Source Standards for Nine Metal Fabrication and Finishing Source Categories.

(120) 40 CFR Part 63, Subpart YYYYYY, National Emission Standards for Hazardous Air Pollutants for Area Sources: Ferroalloys Production Facilities.

(121) 40 CFR Part 63, Subpart ZZZZZZ, National Emission Standards for Hazardous Air Pollutants: Area Source Standards for Aluminum, Copper, and Other Nonferrous Foundries.

(122) 40 CFR Part 63, Subpart AAAAAAA, National Emission Standards for Hazardous Air Pollutants for Area Sources: Asphalt Processing and Asphalt Roofing Manufacturing.

(123) 40 CFR Part 63, Subpart BBBBBBB, National Emission Standards for Hazardous Air Pollutants for Area Sources: Chemical Preparations Industry.

(124) 40 CFR Part 63, Subpart CCCCCCC, National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing.

(125) 40 CFR Part 63, Subpart DDDDDDD, National Emission Standards for Hazardous Air Pollutants for Area Sources: Prepared Feeds Manufacturing.

(126) 40 CFR Part 63, Subpart EEEEEEE, National Emission Standards for Hazardous Air Pollutants: Gold Mine Ore Processing and Production Area Source Category.

KEY: air pollution, hazardous air pollutant, MACT, NESHAP
Date of Enactment or Last Substantive Amendment: August 4, 2016
Notice of Continuation: November 8, 2012
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)

R307. Environmental Quality, Air Quality.
R307-220. Emission Standards: Plan for Designated Facilities.
R307-220-1. Incorporation by Reference.

Pursuant to 42 U.S.C. 7411(d), the Federal Clean Air Act Section 111(d), the following sections hereby incorporate by reference the Utah plan for designated facilities. Copies of the plan are available at the Division of Air Quality and the Division of Administrative Rules.

R307-220-2. Section I, Municipal Solid Waste Landfills.

Section I, Municipal Solid Waste Landfills, as most recently adopted by the Air Quality Board on September 3, 1997, pursuant to

Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-220-3. Section II, Hospital, Medical, Infectious Waste Incinerators.

Section II, Hospital, Medical, Infectious Waste Incinerators, as most recently adopted by the Air Quality Board on March 7, 2012, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-220-4. Section III, Small Municipal Waste Combustion Units.

Section III, Small Municipal Waste Combustion Units, as most recently adopted by the Air Quality Board on October 2, 2002, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

R307-220-5. Section IV, Coal-Fired Electric Generating Units.

Section IV, Coal-Fired Electric Generating Units, as most recently adopted by the Air Quality Board on March 14, 2007, pursuant to Section 19-2-104, is hereby incorporated by reference and made a part of these rules.

KEY: air pollution, landfills, incinerators, electric generating units
Date of Enactment or Last Substantive Amendment: March 7, 2012
Notice of Continuation: February 6, 2013
Authorizing, and Implemented or Interpreted Law: 19-2-104(3)(q)

R307. Environmental Quality, Air Quality.
R307-221. Emission Standards: Emission Controls for Existing Municipal Solid Waste Landfills.
R307-221-1. Purpose and Applicability.

(1) To meet the requirements of 42 U.S.C. 7411(d) and 40 CFR 60.30c through 60.36c, and to meet the requirements of the plan for Municipal Solid Waste Landfills, incorporated by reference at R307-220-2, R307-221 regulates emissions from existing municipal solid waste landfills.

(2) R307-221 applies to each existing municipal solid waste landfill for which construction, reconstruction or modification was commenced before May 30, 1991. Municipal solid waste landfills which closed prior to November 8, 1987, are not subject to R307-221. Physical or operational changes made solely to comply with the plan for Municipal Solid Waste Landfills are not considered a modification or reconstruction and do not subject the landfill to the requirements of 40 CFR 60 Subpart WWW.

(3) Municipal solid waste landfills with a design capacity greater than or equal to 2.5 million megagrams (2,755,750 tons) and 2.5 million cubic meters (3,270,000 cubic yards) are subject to the emission inventory requirements of R307-150.

R307-221-2. Definitions and References.

Definitions found in 40 CFR Part 60.751, effective as of the date referenced in R307-101-3, are adopted and incorporated by reference, with the exclusion of the definitions of closed landfill, design capacity, and NMOC. The following additional definitions apply to R307-221:

"Closed Landfill" means a landfill in which solid waste is no longer being placed, and in which no additional solid wastes will be placed. A landfill is considered closed after meeting the criteria specified in Subsection R315-301-2(13).

"Design Capacity" means the maximum amount of solid waste a landfill can accept, as specified in an operating permit issued under R307-415 or a solid waste permit issued under Rule R315-310.

"Modification" means an increase in the landfill design capacity through a physical or operational change, as reported in the initial Design Capacity Report.

"NMOC" means nonmethane organic compounds.

R307-221-3. Emission Restrictions.

(1) The requirements found in 40 CFR 60.752 through 60.759, including Appendix A, effective as of date referenced in R307-101-3, are adopted and incorporated by reference, with the following exceptions and the substitutions listed in R307-221-3(2) through (5):

(a) Substitute "director" for all federal regulation references to "Administrator."

(b) Substitute "State of Utah" for all federal regulation references to "State, local or Tribal agency."

(c) Substitute "R307-221" for all references to "This subpart" or "this part."

(d) Substitute "40 CFR" for all references to "This title."

(e) Substitute "Title 19, Chapter 6" for all references to "RCRA" or the "Resource Conservation and Recovery Act," 42 U.S.C. 6921, et seq.

(f) Substitute "Rules R315-301 through 320" for all references to 40 CFR 258.

(2) Instead of 40 CFR 60.757(a)(1),substitute the following: The initial design capacity report must be submitted within 90 days after the date on which EPA approves the state plan incorporated by reference under R307-220-2.

(3) Instead of 40 CFR 60.757(a)(3), substitute the following: An amended design capacity report shall be submitted to the director providing notification of any increase in the design capacity of the landfill, whether the increase results from an increase in the permitted area or depth of the landfill, a change in the operating procedures, or any other means which results in an increase in the maximum design capacity of the landfill. The amended design capacity report shall be submitted within 90 days of the earliest of the following events:

(a) the issuance of an amended operating permit;

(b) submittal of application for a solid waste permit under R315-310; or

(c) the change in operating procedures which will result in

an increase in design capacity.

(4) Instead of 40 CFR 60.757(b)(1)(i), substitute the following: The initial emission rate report for nonmethane organic compounds must be submitted within 90 days after EPA approval of the state plan incorporated by reference under R307-220-2.

(5) Instead of 40 CFR 60.752(b)(2)(ii)(B)(2), substitute the following: The liner shall be installed with liners on the bottom and all sides in all areas in which gas is to be collected, or as approved by the director. The liner shall meet the requirements of Subsection R315-303-3(3).

R307-221-4. Control Device Specifications.

Control devices meeting the following requirements, shall be used to control collected municipal solid waste landfill emissions:

(1) an open flare designed and operated in accordance with the parameters established in Section 40 CFR Part 60.18, effective as of date referenced in R307-101-3, which is adopted and incorporated by reference into this rule; or

(2) a control system designed and operated to reduce nonmethane organic compounds by 98 weight percent; or

(3) an enclosed combustor designed and operated to reduce the outlet nonmethane organic compounds concentration to 20 parts per million as hexane by volume, dry basis at 3 percent oxygen, or less.

R307-221-5. Compliance Schedule.

(1) Except as provided in (2) below, planning, awarding of contracts, and installation of municipal solid waste landfill air emission collection and control equipment capable of meeting the emission standards established under R307-221-3(1) shall be accomplished within 30 months after the date on which EPA approves the state plan incorporated by reference under R307-220-2.

(2) For each existing municipal solid waste landfill meeting the conditions in R307-221-1(2) whose emission rate for nonmethane organic compounds is less than 50 megagrams (55 tons) per year on the date EPA approves the state plan incorporated by reference under R307-220-2, installation of collection and control systems capable of meeting emissions standards in R307-221-1(2) shall be accomplished within 30 months of the date when the landfill has an emission rate of nonmethane organic compounds of 50 megagrams (55 tons) per year or more.

(3) The owner or operator of each landfill with a design capacity greater than or equal to 2.5 million megagrams (2,755,750 tons) and 2.5 million cubic meters (3,270,000 cubic yards) shall submit by April 1, 1997, an inventory of nonmethane organic compounds. The calculations for this inventory shall use emission factors which obtain the most accurate representation of emissions from the landfill.

(4) The owner or operator of a landfill requiring controls shall notify the director of the awarding of contracts for the

construction of the collection and control system or the order to purchase components for the system. This notification shall be submitted within 18 months after reporting a nonmethane organic compound emission equal to or greater than 50 megagrams (55 tons) per year.

(5) The owner or operator shall notify the director of the initiation of construction or installation of the collection and control system. This notification shall be submitted to the director within 22 months after reporting a nonmethane organic compound emission rate equal to or greater than 50 megagrams (55 tons) per year. Landfills with commingled asbestos and municipal solid waste may include the submittals required under R307-214-1 with this notice.

KEY: air pollution, municipal landfills
Date of Enactment or Last Substantive Amendment: February 8, 2008
Notice of Continuation: February 6, 2013
Authorizing, and Implemented or Interpreted Law: 19-2-104

R307. Environmental Quality, Air Quality.
R307-222. Emission Standards: Existing Incinerators for Hospital, Medical, Infectious Waste.
R307-222-1. Purpose and Applicability.

(1) R307-222 regulates emissions from existing incinerators for hospital, medical, or infectious waste or any combination of them. The purpose of R307-222 is to reduce the emissions of particulate matter, sulfur dioxide, hydrogen chloride, oxides of nitrogen, carbon monoxide, lead, cadmium, mercury, and dioxins and dibenzofurans from incinerators burning hospital, medical or infectious waste. Reductions are required by 42 U.S.C. 7411(d) and 7429 and 40 CFR Part 60, Subpart Ce, published at 62 FR 48348, September 15, 1997, 40 CFR Part 60, Subpart Ce as amended on October 6, 2009, and by the Plan for Incinerators for Hospital, Medical, and Infectious Waste which is incorporated by reference at R307-220-3.

(2) Except as set forth in R307-222-1(2)(a) through R307-222-1(2)(g), R307-222 applies to each incinerator for hospital, medical, or infectious waste or any combination of them for which construction commenced on or before June 20, 1996; for which modification was commenced on or before March 16, 1998; for which construction was commenced after June 20, 1996 but no later than December 1, 2008; or for which modification is commenced after March 16, 1998 but no later than April 6, 2010.

(a) A combustor is not subject to R307-222 during periods when only pathological waste, low-level radioactive waste, chemotherapeutic waste or any combination of them as defined in 40 CFR 60.51c is burned, provided the owner or operator of the combustor:

(i) Notifies the director of an exemption claim; and

(ii) Keeps records on a calendar quarter basis of the periods of time when only pathological waste, low-level

radioactive waste, chemotherapeutic waste or any combination of them is burned.

(b) Any co-fired combustor as defined in 40 CFR 60.51c is not subject to this subpart if the owner or operator of the co-fired combustor:

(i) Notifies the director of an exemption claim;

(ii) Provides an estimate of the relative weight of wastes to be combusted, including hospital, medical or infectious waste or any combination of them, and other fuels and wastes; and

(iii) Keeps records on a calendar quarter basis of the weight of hospital, medical, or infectious waste or any combination of them which was combusted, and the weight of all other fuels and wastes combusted at the co-fired combustor.

(c) Any combustor required to have a permit under R315-306 is not subject to R307-222.

(d) Any combustor which meets the applicability requirements under Subpart Cb, Ea, or Eb of 40 CFR Part 60 is not subject to R307-222.

(e) Any pyrolysis unit as defined in 40 CFR 60.51c is not subject to R307-222.

(f) Any cement kiln firing hospital, medical, or infectious waste or any combination of them is not subject to R307-223.

(g) Physical or operational changes made to an existing hospital, medical or infectious waste incinerator unit solely for the purpose of complying with emission guidelines under R307-222 are not considered a modification and do not result in an existing hospital, medical or infectious or any combination waste incinerator unit becoming subject to the provisions of R307-210.

(3) Beginning September 15, 2000, any facility subject to R307-222 is also required to obtain an operating permit under R307-415.

R307-222-2. Definitions and References.

(1) The following definitions apply only to R307-222. Definitions found in 40 CFR 60.31e, effective as of the date referenced in R307-101-3, and 40 CFR 60.51c, effective as of the date referenced in R307-101-3, are adopted and incorporated by reference, with the following substitutions.

(a) Substitute "director" for all federal regulation references to "Administrator."

(b) Substitute "State of Utah" for all federal regulation references to "State agency" or "State regulatory agency."

(c) Substitute "Rule R307-222" for all references to "this subpart."

(d) Substitute "40 CFR Part 60" for all references to "this part."

(e) Substitute "40 CFR" for all references to "This title."

R307-222-3. All Incinerators.

Each incinerator subject to R307-222 must comply with the requirements of 40 CFR 60.52c(b) for emission limits, 40 CFR 60.53c for operator training and qualification, 40 CFR 60.54c for

siting requirements, 40 CFR 60.55c for a waste management plan, 40 CFR 56c for compliance and performance testing, 40 CFR 60.57c for monitoring requirements, and 40 CFR 60.58c(b) excluding (b)(2)(ii) and (b)(7) for recordkeeping, and 40 CFR 60.58c(c) through (f) for reporting. These provisions, effective as of the date referenced in R307-101-3, are adopted and incorporated by reference.

R307-222-4. Large, Medium and Small Incinerators.

Except as provided in Section R307-222-5, each incinerator must comply with the emissions limitations of Table 1A and Table 1B in 40 CFR Part 60, Subpart Ce; 40 CFR 60.57c; and 40 CFR 60.56c, excluding 56c(b)(12) and 56c(c)(3), effective as of the date referenced in R307-101-3, which are adopted and incorporated by reference.

R307-222-5. Small Rural Incinerators.

(1) A small rural incinerator is a small incinerator as defined in Section R307-222-2 that:

(a) is located more than 50 miles from the boundary of the nearest Standard Metropolitan Statistical Area listed in OMB bulletin No. 93-17 entitled "Revised Statistical definitions for Metropolitan Areas," June 30, 1993; and

(b) burns less than 2000 pounds per week of hospital, medical or infectious waste or any combination of them. The 2000 pounds per week limitation does not apply during performance tests.

(2) Each small rural incinerator must comply with the emission limits of Table 2A and Table 2B in 40 CFR Part 60, Subpart Ce, effective as of the date referenced in R307-101-3, which are adopted and incorporated by reference.

(3) Each small rural incinerator must comply with the inspection requirements of 40 CFR 60.36e(a)(1) and (a)(2), effective as of the date referenced in R307-101-3, which are adopted and incorporated by reference. An inspection meeting these requirements must be conducted within one year after federal approval of the Plan incorporated by reference in R307-220-3, and annually no more than 12 months following the previous annual inspection.

(4) Each small rural incinerator must comply with the compliance and performance testing requirements of 40 CFR 60.37e(b)(1) through (b)(5), effective as of the date referenced in R307-101-3, which are adopted and incorporated by reference.

(5) Each small rural incinerator must comply with the monitoring requirements of 40 CFR 60.37e(d)(1) through (d)(3), effective as of the date referenced in R307-101-3, which are adopted and incorporated by reference.

(6) Each small rural incinerator must comply with the recordkeeping and reporting requirements of 40 CFR 60.38e(b)(1) and (b)(2), effective as of the date referenced in R307-101-3, which are adopted and incorporated by reference.

KEY: air pollution, hospitals, medical incinerator, infectious

waste
Date of Enactment or Last Substantive Amendment: March 7, 2012
Notice of Continuation: February 6, 2013
Authorizing, and Implemented or Interpreted Law: 19-2-104

R307. Environmental Quality, Air Quality.
R307-223. Emission Standards: Existing Small Municipal Waste Combustion Units.
R307-223-1. Purpose and Applicability.

(1) R307-223 regulates emissions from existing small municipal waste combustion units. The purpose of R307-223 is to reduce the emissions of particulate matter, sulfur dioxide, hydrogen chloride, oxides of nitrogen, carbon monoxide, lead, cadmium, mercury, and dioxins and furans from small municipal waste combustion units. Reductions are required by 42 U.S.C. 7411(d) and 7429 and 40 CFR Part 60, subpart BBBB, and by the Plan for Existing Small Municipal Waste Combustion Units that is incorporated by reference at R307-220-4.

(2) R307-223 applies to each existing small municipal waste combustion unit that has the capacity to combust at least 35 tons per day but no more than 250 tons per day of municipal solid waste or refuse-derived fuel and commenced construction on or before August 30, 1999. A list of facilities not subject to R307-223 is found in 40 CFR 60.1555(a) through (k), effective as of the date referenced in R307-101-3, which is hereby adopted and incorporated by reference.

(3) If an owner or operator of a municipal waste combustion unit makes physical or operational changes to an existing municipal waste combustion unit primarily to comply with the Plan for Existing Small Municipal Waste Combustion Units that is incorporated by reference at R307-220-4, then R307-210 does not apply to that unit. Such changes do not constitute modifications or reconstructions under R307-210.

(4) The owner or operator of any source subject to R307-223 also is required to submit an application for an operating permit under R307-415.

R307-223-2. Definitions and Equations.

(1) The following definitions apply only to R307-223. Definitions found in 40 CFR 60.1940, effective as of the date referenced in R307-101-3, are adopted and incorporated by reference, with the following substitutions.

(a) Substitute "director" for all federal regulation references to "Administrator" or "EPA Administrator."

(b) Substitute "State of Utah" for all federal regulation references to "State," "State agency" or "State regulatory agency."

(c) "State plan" means the Plan for Existing Small Municipal Waste Combustion Units that is incorporated by reference at R307-220-4.

(d) "You" means the owner or operator of a small municipal

waste combustion unit.

(e) Substitute "Rule R307-223" for all references to "this subpart."

(f) Substitute "40 CFR Part 60" for all references to "this part."

(g) Substitute "40 CFR" for all references to "This title."

(2) Equations found in 40 CFR 60.1935, effective as of the date referenced in R307-101-3, are adopted and incorporated by reference.

R307-223-3. Requirements.

(1) Each incinerator owner or operator subject to R307-223 must comply with the requirements of 40 CFR 60.1540 and 60.1585 through 60.1905, and with the requirements and schedules set forth in Tables 2 through 8 that are found following 40 CFR 60.1940 for operator training and certification, operating requirements, emission limits, continuous emission monitoring, stack testing, other monitoring requirements, record keeping, and reporting. These provisions and table, effective as of the date referenced in R307-101-3, are adopted and incorporated by reference with the exceptions listed below.

(a) In 40 CFR 60.1650(a), delete "or state."

(b) In 40 CFR 60.1675(a), delete "or a current provisional operator certification from your State certification program."

(c) In 40 CFR 1675 (c), change "three" to "two," and delete 40 CFR 1675(c)(3).

(2) Compliance dates. Each incinerator must be in compliance with the dates in Section III of the Plan.

KEY: air pollution, municipal waste incinerator, waste to energy plant
Date of Enactment or Last Substantive Amendment: February 8, 2008
Notice of Continuation: February 6, 2013
Authorizing, and Implemented or Interpreted Law: 19-2-104

R307. Environmental Quality, Air Quality.
R307-224. Mercury Emission Standards: Coal-Fired Electric Generating Units.
R307-224-1. Purpose and Applicability.

(1) Nationwide reductions of mercury (Hg) emissions from certain coal-fired electric generating units are required by 40 CFR Part 60, subparts B and HHHH, in effect on June 9, 2006, and by the Designated Facilities Plan for coal-fired electric generating units, incorporated by reference at R307-220-5.

(2) R307-224 regulates mercury emissions from any coal-fired electric generating unit as defined in 40 CFR 60.24.

R307-224-2. Emission Guidelines and Compliance Times for Coal-Fired Electric Generating Units.

(1) The following sections of 40 CFR Part 60, subpart HHHH, effective as of the date referenced in R307-101-3, are adopted and

incorporated by reference into these rules:
(a) Sections 60.4101 through 60.4124;
(b) Sections 60.4142 paragraph (c)(2) through paragraph (c)(4);
(c) Sections 60.4150 through 60.4176.

KEY: air pollution, electric generating unit, mercury
Date of Enactment or Last Substantive Amendment: February 8, 2008
Notice of Continuation: February 6, 2013 and HHHH
Authorizing, and Implemented or Interpreted Law: 19-2-104(3)(q); 40 CFR Part 60, Subparts Da

R307. Environmental Quality, Air Quality.
R307-250. Western Backstop Sulfur Dioxide Trading Program.
R307-250-1. Purpose.

This rule implements the Western Backstop (WEB) Sulfur Dioxide Trading Program provisions in accordance with the federal Regional Haze Rule, 40 CFR 51.309, and Section XX.E of the State Implementation Plan for Regional Haze, titled "Sulfur Dioxide Milestones and Backstop Trading Program," incorporated under R307-110-28.

R307-250-2. Definitions.

The following additional definitions apply to R307-250:

"Account Certificate of Representation" or "Certificate" means the completed and signed submission required to designate an Account Representative for a WEB source or an Account Representative for a general account. "Account Representative" means the individual who is authorized through an Account Certificate of Representation to represent owners and operators of the WEB source with regard to matters under the WEB Trading Program or, for a general account, who is authorized through an Account Certificate of Representation to represent the persons having an ownership interest in allowances in the general account with regard to matters concerning the general account.

"Actual Emissions" means total annual sulfur dioxide emissions determined in accordance with R307-250-9 or determined in accordance with the Sulfur Dioxide Milestone Inventory requirements of R307-150 for sources that are not subject to R307-250-9.

"Allocate" means to assign allowances to a WEB source in accordance with SIP Section XX.E.3.a through c.

"Allowance" means the limited authorization under the WEB Trading Program to emit one ton of sulfur dioxide during a specified control period or any control period thereafter subject to the terms and conditions for use of unused allowances as established by R307-250.

"Allowance Limitation" means the tonnage of sulfur dioxide emissions authorized by the allowances available for compliance deduction for a WEB source under R307-250-12 on the allowance transfer deadline for each control period.

"Allowance Transfer Deadline" means the deadline established in R307-250-10(2) when allowance transfers must be submitted for recording in a WEB source's compliance account in order to demonstrate compliance for that control period.

"Compliance Account" means an account established in the WEB EATS under R307-250-8(1) for the purpose of recording allowances that a WEB source might hold to demonstrate compliance with its allowance limitation.

"Compliance Certification" means a submission to the director by the Account Representative as required under R307-250-12(2) to report a WEB source's compliance or noncompliance with R307-250.

"Control Period" means the period beginning January 1 of each year and ending on December 31 of the same year, inclusive.

"Existing Source" means a stationary source that commenced operation before the Program Trigger Date.

"General Account" means an account established in the WEB EATS under R307-250-8 for the purpose of recording allowances held by a person that are not to be used to show compliance with an allowance limitation.

"Milestone" means the maximum level of stationary source regional sulfur dioxide emissions for each year from 2003 to 2018, established according to the procedures in SIP Section XX.E.1.

"New WEB Source" means a WEB source that commenced operation on or after the program trigger date.

"New Source Set-aside" means a pool of allowances that are available for allocation to new sources in accordance with the provisions of SIP Section XX.E.3.c.

"Program trigger date" means the date that the director determines that the WEB Trading Program has been triggered in accordance with the provisions of SIP Section XX.E.1.c.

"Program trigger years" means the years shown in SIP Section XX.E.1.a, Table 3, column 3 for the applicable milestone if the WEB Trading Program is triggered as described in SIP Section XX.E.1.

"Retired source" means a WEB source that has received a retired source exemption as provided in R307-250-4(4).

"Serial number" means, when referring to allowances, the unique identification number assigned to each allowance by the Tracking Systems Administrator, in accordance with R307-250-7(2).

"SIP Section XX.E" means Section XX, Part E of the State Implementation Plan, titled "Sulfur Dioxide Milestones and Backstop Trading Program." SIP Section XX, Regional Haze, is incorporated by reference under R307-110-28.

"Special Reserve Compliance Account" means an account established in the WEB EATS under R307-250-8(1) for the purpose of recording allowances that a WEB source might hold to demonstrate compliance with its allowance limitation for emission units that are monitored for sulfur dioxide in accordance with R307-250-9(1)(b).

"Sulfur Dioxide emitting unit" means any equipment that is located at a WEB source and that emits sulfur dioxide.

"Submit" means sent to the director or the Tracking system

Administrator under the signature of the Account Representative. For purposes of determining when something is submitted, an official U.S. Postal Service postmark, or equivalent electronic time stamp, shall establish the date of submittal.

"Ton" means 2000 pounds and any fraction of a ton equaling 1000 pounds or more shall be treated as one ton and any fraction of a ton equaling less than 1000 pounds shall be treated as zero tons.

"Tracking System Administrator" or "TSA" means the person designated by the director as the administrator of the WEB EATS.

"WEB Source" means a stationary source that meets the applicability requirements of R307-250-4.

"WEB Trading Program" means R307-250, the Western Backstop Trading Program, triggered as a backstop in accordance with the provisions in SIP Section XX.E, if necessary, to ensure that regional sulfur dioxide emissions are reduced.

"WEB Emissions and Allowance Tracking System (WEB EATS)" means the central database where sulfur dioxide emissions for WEB sources as recorded and reported in accordance with R307-250 are tracked to determine compliance with allowance limitations, and the system where allowances under the WEB Trading Program are recorded, held, transferred and deducted.

"WEB EATS account" means an account in the WEB EATS established for purposes of recording, holding, transferring, and deducting allowances.

R307-250-3. WEB Trading Program Trigger.

(1) Except as provided in (2) below, R307-250 shall apply on the program trigger date that is established in accordance with the procedures in SIP Section XX.E.1.c.

(2) Special Penalty Provisions for the 2018 Milestone, R307-250-13, shall apply on January 1, 2018, and shall remain effective until the requirements of R307-250-13 have been met.

R307-250-4. WEB Trading Program Applicability.

(1) General Applicability. R307-250 applies to any stationary source or group of stationary sources that are located on one or more contiguous or adjacent properties and that are under the control of the same person or persons under common control, belonging to the same industrial grouping, and that are described in paragraphs (a) and (b) of this subsection. A stationary source or group of stationary sources shall be considered part of a single industrial grouping if all of the pollutant emitting activities at such source or group of sources on contiguous or adjacent properties belong to the same Major Group (i.e., all have the same two-digit code) as described in the Standard Industrial Classification Manual, 1987.

(a) All BART-eligible sources as defined in 40 CFR 51.301 that are BART-eligible due to sulfur dioxide emissions.

(b) All stationary sources that have actual sulfur dioxide emissions of 100 tons or more per year in the program trigger years or any subsequent year. The fugitive emissions of a

stationary source shall not be considered in determining whether it is subject to R307-250 unless the source belongs to one of the following categories of stationary source:

(i) Coal cleaning plants (with thermal dryers);

(ii) Kraft pulp mills;

(iii) Portland cement plants;

(iv) Primary zinc smelters;

(v) Iron and steel mills;

(vi) Primary aluminum ore reduction plants;

(vii) Primary copper smelters;

(viii) Municipal incinerators capable of charging more than 250 tons of refuse per day;

(ix) Hydrofluoric, sulfuric, or nitric acid plants;

(x) Petroleum refineries;

(xi) Lime plants;

(xii) Phosphate rock processing plants;

(xiii) Coke oven batteries;

(xiv) Sulfur recovery plants;

(xv) Carbon black plants (furnace process);

(xvi) Primary lead smelters;

(xvii) Fuel conversion plants;

(xviii) Sintering plants;

(xix) Secondary metal production plants;

(xx) Chemical process plants;

(xxi) Fossil-fuel boilers (or combination thereof) totaling more than 250 million British thermal units per hour heat input;

(xxii) Petroleum storage and transfer units with a total storage capacity exceeding 300,000 barrels;

(xxiii) Taconite ore processing plants;

(xxiv) Glass fiber processing plants;

(xxv) Charcoal production plants;

(xxvi) Fossil-fuel-fired steam electric plants of more than 250 million British thermal units per hour heat input; or

(xxvii) Any other stationary source category, which as of August 7, 1980, is being regulated under Section 111 or 112 of the Clean Air Act.

(b) A new source that begins operation after the program trigger date and has the potential to emit 100 tons or more of sulfur dioxide per year.

(2) The director may determine on a case-by-case basis, with concurrence from the EPA Administrator, that a stationary source defined in (1)(b) above that has not previously met the applicability requirements of (1) is not subject to R307-250 if the stationary source had actual sulfur dioxide emissions of 100 tons or more in a single year and in each of the previous five years had actual sulfur dioxide emissions of less than 100 tons per year, and:

(a)(i) the emissions increase was due to a temporary emission increase that was caused by a sudden, infrequent failure of air pollution control equipment, or process equipment, or a failure to operate in a normal or usual manner, and

(ii) the stationary source has corrected the failure of air

pollution equipment, process equipment, or process by the time of the director's determination; or

(b) the stationary source had to switch fuels or feedstocks on a temporary basis and as a result of an emergency situation or unique and unusual circumstances besides the cost of such fuels or feedstocks.

(3) Duration of Applicability. Except as provided for in (4) below, once a stationary source is subject to R307-250, it will remain subject to the rule every year thereafter.

(4) Retired Source Exemption.

(a) Application. Any WEB source that is permanently retired shall apply for a retired source exemption. The WEB source may be considered permanently retired only if all sulfur dioxide emitting units at the source are permanently retired. The application shall contain the following information:

(i) identification of the WEB source, including the plant name and an appropriate identification code in a format specified by the director;

(ii) name of account representative;

(iii) description of the status of the WEB source, including the date that the WEB source was permanently retired;

(iv) signed certification that the WEB source is permanently retired and will comply with the requirements of R307-250-4(4); and

(v) verification that the WEB source has a general account where any unused allowances or future allocations will be recorded.

(b) Notice. The retired source exemption becomes effective when the director notifies the WEB source that the retired source exemption has been granted.

(c) Responsibilities of Retired Sources.

(i) A retired source shall be exempt from R307-250-9 and R307-250-12, except as provided below.

(ii) A retired source shall not emit any sulfur dioxide after the date the retired source exemption is issued.

(iii) A WEB source shall submit sulfur dioxide emissions reports, as required by R307-250-9, for any time period the source was operating prior to the effective date of the retired source exemption. The retired source shall be subject to the compliance provisions of R307-250-12, including the requirement to hold allowances in the source's compliance account to cover all sulfur dioxide emissions prior to the date the source was permanently retired.

(iv) A retired source that is still in existence but no longer emitting sulfur dioxide shall, for a period of five years from the date the records are created, retain records demonstrating that the source is permanently retired for purposes of this rule.

(d) Resumption of Operations.

(i) Before resuming operation, the retired source must submit registration materials as follows:

(A) If the source is required to obtain an approval order

under R307-401 or an operating permit under R307-415 prior to resuming operation, then registration information as described in R307-250-6(1) and a copy of the retired source exemption must be submitted with the notice of intent under R307-401 or the operating permit application required under R307-415;

(B) If the source does not meet the criteria of (A), then registration information as described in R307-250-6(1) and a copy of the retired source exemption must be submitted to the director at least ninety days prior to resumption of operation.

(ii) The retired source exemption shall automatically expire on the day the retired source resumes operation.

(e) Loss of Future Allowances. A WEB source that is permanently retired and that does not apply to the director for a retired source exemption within ninety days of the date that the source is permanently retired shall forfeit any unused and future allowances. The abandoned allowances shall be retired by the TSA.

R307-250-5. Account Representative for WEB Sources.

(1) Each WEB source must identify one account representative and may also identify an alternate account representative who may act on behalf of the account representative. Any representation, action, inaction or submission by the alternate account representative will be deemed to be a representation, action, inaction or submission by the account representative.

(2) Identification and Certification of an account representative.

(a) The account representative and any alternate account representative shall be appointed by an agreement that makes the representations, actions, inactions or submissions of the account representative and any alternate binding on the owners and operators of the WEB source.

(b) The account representative shall submit to the director and the TSA a signed and dated certificate that contains the following elements:

(i) identification of the WEB source by plant name and an appropriate identification code in a format specified by the director;

(ii) the name, address, e-mail (if available), telephone and facsimile number of the account representative and any alternate;

(iii) a list of owners and operators of the WEB source;

(iv) information to be part of the emission tracking system database that is established in accordance with SIP Section XX.E.3.i. The specific data elements shall be as specified by the the director to be consistent with the data system structure, and may include basic facility information that may appear in other reports and notices submitted by the WEB source, such as county location, industrial classification codes, and similar general facility information.

(v) The following certification statement: "I certify that I was selected as the account representative or alternate account representative, as applicable, by an agreement binding on the owners and operators of the WEB source. I certify that I have all

the necessary authority to carry out my duties and responsibilities under the WEB Trading Program on behalf of the owners and operators of the WEB source and that the owner and operator each shall be fully bound by my representations, actions, inactions, or submissions and by any decision or order issued to me by the director regarding the WEB Trading Program."

(c) Upon receipt by the director of the complete certificate, the account representative and any alternate account representative represents and, by his or her representations, actions, inactions, or submissions, legally binds each owner and operator of the WEB source in all matters pertaining to the WEB Trading Program. Each owner and operator shall be bound by any decision or order issued by the director regarding the WEB Trading Program.

(d) No WEB EATS account shall be established for the WEB source until the TSA has received a complete Certificate. Once the account is established, all submissions concerning the account, including the deduction or transfer of allowances, shall be made by the account representative.

(3) Responsibilities.

(a) The responsibilities of the account representative include, but are not limited to, the transferring of allowances and the submission of monitoring plans, registrations, certification applications, sulfur dioxide emissions data and compliance reports as required by R307-250, and representing the source in all matters pertaining to the WEB Trading Program.

(b) Each submission under this program shall be signed and certified by the account representative for the WEB source. Each submission shall include the following truth and accuracy certification statement by the account representative: "I am authorized to make this submission on behalf of the owners and operators of the WEB source for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."

(4) Changing the Account Representative or Owners and Operators.

(a) Changing the Account Representative or the alternate Account Representative. The account representative or alternate account representative may be changed at any time by sending a complete superseding certificate to the director and the TSA under R307-250-5(2). The change will be effective upon receipt of such certificate by the TSA. Notwithstanding any such change, all representations, actions, inactions, and submissions by the previous account representative or alternate prior to the time and

date when the TSA receives the superseding certificate shall be binding on the new account representative and the owners and operators of the WEB source.

(b) Changes in Owner and Operator.

(i) Within thirty days of any change in the owners and operators of the WEB source, including the addition of a new owner or operator, the account representative shall submit a revised certificate amending the list of owners and operators to include such change.

(ii) In the event a new owner or operator of a WEB source is not included in the list of owners and operators submitted in the certificate, such new owner or operator shall be deemed to be subject to and bound by the certificate, the representations, actions, inactions, and submissions of the account representative of the WEB source, and the decisions, orders, actions, and inactions of the director as if the new owner or operator were included in the list.

R307-250-6. Registration.

(1) Deadlines.

(a) Each source that is a WEB source on or before the program trigger date shall register by submitting the initial certificate required in R307-250-5(2) to the director no later than 180 days after the program trigger date.

(b) Any existing source that becomes a WEB source after the program trigger date shall register by submitting the initial certificate required in R307-250-5(2) to the director no later than September 30 of the year following the inventory year in which the source exceeded the 100 tons sulfur dioxide emission threshold in R307-250-4(1)(b).

(c) Any new WEB source shall register by submitting the initial certificate required in R307-250-5(2) to the director prior to commencing operation.

(2) Any allocation, transfer or deduction of allowances to or from the source's compliance account shall not require a revision of the WEB source's operating permit under R307-415.

R307-250-7. Allowance Allocations.

(1) The TSA will record the allowances for each WEB source in the source's compliance account once the allowances are allocated by the director under SIP Section XX.E.3.a through c. If applicable, the TSA will record a portion of the sulfur dioxide allowances for a WEB source in a special reserve compliance account to account for any allowances to be held by the source that conducts monitoring in accordance with R307-250-9(1)(b).

(2) The TSA will assign a serial number to each allowance in accordance with SIP Section XX.E.3.f.

(3) All allowances shall be allocated, recorded, transferred, or used as whole allowances. To determine the number of whole allowances, the number of allowances shall be rounded down for decimals less than 0.50 and rounded up for decimals of 0.50 or greater.

(4) An allowance is not a property right, and is a limited authorization to emit one ton of sulfur dioxide valid only for the purpose of meeting the requirements of R307-250. No provision of the WEB Trading Program or other law should be construed to limit the authority of the director to terminate or limit such authorization.

(5) Early Reduction Bonus Allocation. Any non-utility WEB source that installs new control technology and that reduces its permitted annual sulfur dioxide emissions to a level that is below the floor level allocation established for that source in SIP Section XX.E.3.a(1)(b)(i) or any utility that reduces its permitted annual sulfur dioxide emissions to a level that is below best available control technology may apply to the director for an early reduction bonus allocation. The bonus allocation shall be available for reductions that occur between 2003 and the program trigger year. The application must be submitted no later than 90 days after the program trigger date. Any WEB source that applies and receives early reduction bonus allocations must retain the records referenced in this section for a minimum of five years after the early reduction bonus allowance is certified in accordance with SIP Section XX.E.3.a(1)(c). The application for an early reduction bonus allocation must contain the following information:

(a) copies of all approval orders, operating permits or other enforceable documents that include annual sulfur dioxide emissions limits for the WEB source during the period the WEB source qualifies for an early reduction credit. Approval orders, permits, or enforceable documents must contain monitoring requirements for sulfur dioxide emissions that meet the specifications in R307-250-9(1)(a).

(b) demonstration that the floor level established for the source in SIP Section XX.E.3.a(1)(b)(i) for non-utilities or best available control technology for utilities was calculated using data that are consistent with monitoring methods specified in R307-250-9(1)(a). If needed, the demonstration shall include a new floor level calculation that is consistent with the monitoring methodology in R307-250-9.

(6) Request for Allowances for New WEB Sources or Modified WEB Sources.

(a) A new WEB source may apply to the director for an allocation from the new source set-aside, as outlined in SIP Section XX.E.3.c. A new WEB source is eligible for an annual floor allocation equal to the lower of the permitted annual sulfur dioxide emission limit for that source, or sulfur dioxide annual emissions calculated based on a level of control equivalent to best available control technology (BACT) and assuming 100 percent utilization of the WEB source, beginning with the first full calendar year of operation.

(b) An existing WEB source that has increased production capacity through a new approval order issued under R307-401 may apply to the director for an allocation from the new source set-aside, as outlined in SIP Section XX.E.3.c. An existing WEB

source is eligible for an annual allocation equal to:

(i) the permitted annual sulfur dioxide emission limit for a new unit; or

(ii) the permitted annual sulfur dioxide emission increase for the WEB source due to the replacement of an existing unit with a new unit or the modification of an existing unit that increased production capacity of the WEB source.

(c) A source that has received a retired source exemption under R307-250-4(4) is not eligible for an allocation from the new source set-aside.

(d) The application for an allocation from the new source set-aside must contain the following:

(i) for a new WEB source or a new unit under R307-250-7(6)(b)(i), documentation of the actual date of the commencement of operation and a copy of the approval order issued under R307-401;

(ii) for an existing WEB source under R307-250-7(6)(b)(ii), documentation of the production capacity of the source before and after the new permit.

R307-250-8. Establishment of Accounts.

(1) WEB EATS. All WEB sources are required to open a compliance account. Any person may open a general account for the purpose of holding and transferring allowances. In addition, if a WEB source conducts monitoring under R307-250-9(1)(b), the WEB source shall open a special reserve compliance account for allowances associated with units monitored under those provisions. To open any type of account, an application that contains the following information must be submitted to the TSA:

(a) the name, mailing address, e-mail address, telephone number, and facsimile number of the account representative. For a compliance account, the application shall include a copy of the certificatefor the account representative and any alternate as required in R307-250-5(2)(b). For a general account, the application shall include the certificate for the account representative and any alternate as required in (3)(b) below.

(b) the WEB source or organization name;

(c) the type of account to be opened;

(d) identification of the specific units that are being monitored under R307-250-9(1)(b) and that must demonstrate compliance with the allowance limitation in the special reserve compliance account; and

(e) a signed certification of truth and accuracy by the account representative according to R307-250-5(3)(b) for compliance accounts and for general accounts, certification of truth and accuracy by the account representative according to (4) below.

(2) Account Representative for General Accounts. For a general account, one account representative must be identified and an alternate account representative may be identified and may act on behalf of the account representative. Any representation, action, inaction or submission by the alternate account

representative will be deemed to be a representation, action, inaction or submission by the account representative.

(3) Identification and Certification of an Account Representative for General Accounts.

(a) The account representative shall be appointed by an agreement that makes the representations, actions, inactions or submissions of the account representative binding on all persons who have an ownership interest with respect to allowances held in the general account.

(b) The account representative shall submit to the TSA a signed and dated certificate that contains the following elements:

(i) the name, address, e-mail (if available), telephone and facsimile number of the account representative and any alternate;

(ii) the organization name, if applicable;

(iii) the following certification statement: "I certify that I was selected as the account representative or alternate account representative, as applicable, by an agreement binding on all persons who have an ownership interest in allowances in the general account with regard to matters concerning the general account. I certify that I have all the necessary authority to carry out my duties and responsibilities under the WEB Trading Program on behalf of said persons and that each such person shall be fully bound by my representations, actions, inactions, or submissions."

(c) Upon receipt by the TSA of the complete certificate, the account representative represents and, by his or her representations, actions, inactions, or submissions, legally binds each person who has an ownership interest in allowances held in the general account with regard to all matters concerning the general account. Such persons shall be bound by any decision or order issued by the director.

(d) A WEB EATS general account shall not be established until the TSA has received a complete certificate. Once the account is established, the account representative shall make all submissions concerning the account, including the deduction or transfer of allowances.

(4) Requirements and Responsibilities for General Accounts. Each submission for the general account shall be signed and certified by the account representative for the general account. Each submission shall include the following truth and accuracy certification statement by the account representative: "I am authorized to make this submission on behalf of all person who have an ownership interest in allowances held in the general account. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the

possibility of fine or imprisonment."

(5) Changing the Account Representative for General Accounts. The account representative or alternate account representative may be changed at any time by sending a complete superseding certificate to the director and the TSA under (3)(b) above. The change will take effect upon the receipt of the certificate by the TSA. Notwithstanding any such change, all representations, actions, inactions, and submissions by the previous account representative or alternate prior to the time and date when the TSA receives the superseding certificate shall be binding on the new account representative and all persons having ownership interest with respect to allowances held in the general account.

(6) Changes to the Account. Any change to the information required in the application for an existing account under (1) above shall require a revision of the application.

R307-250-9. Monitoring, Recordkeeping and Reporting.

(1) General Requirements on Monitoring Methods.

(a) For each sulfur dioxide emitting unit at a WEB source the WEB source shall comply with the following, as applicable, to monitor and record sulfur dioxide mass emissions.

(i) If a unit is subject to 40 CFR Part 75 under a requirement separate from the WEB Trading Program, the unit shall meet the requirements contained in Part 75 with respect to monitoring, recording and reporting sulfur dioxide mass emissions.

(ii) If a unit is not subject to 40 CFR Part 75 under a requirement separate from the WEB Trading Program, a unit shall use one of the following monitoring methods, as applicable:

(A) a continuous emission monitoring system (CEMS) for sulfur dioxide and flow that complies with all applicable monitoring provisions in 40 CFR Part 75;

(B) if the unit is a gas- or oil-fired combustion device, the excepted monitoring methodology in Appendix D to 40 CFR Part 75, or, if applicable, the low mass emissions (LME) provisions (with respect to sulfur dioxide mass emissions only) of 40 CFR 75.19;

(C) one of the optional WEB protocols, if applicable, in Appendix B of State Implementation Plan Section XX, Regional Haze; or

(D) a petition for site-specific monitoring that the source submits for approval by the director and approval by the U.S. Environmental Protection Agency in accordance with R307-250-9(9).

(iii) A permanently retired unit shall not be required to monitor under this section if such unit was permanently retired and had no emissions for the entire control period and the account representative certifies in accordance with R307-250-12(2) that these conditions were met.

(b) Notwithstanding (a) above, a WEB source with a unit that meets one of the conditions of (i) below may submit a request to the director to have the provisions of this subsection (b) apply to that unit.

(i) Any of the following units may implement this subsection (b):

(A) any smelting operation where all of the emissions from the operation are not ducted to a stack; or

(B) any flare, except to the extent such flares are used as a fuel gas combustion device at a petroleum refinery; or

(C) any other type of unit without add-on sulfur dioxide control equipment, if the unit belongs to one of the following source categories: cement kilns, pulp and paper recovery furnaces, lime kilns, or glass manufacturing.

(ii) For each unit covered by this subsection (b), the account representative shall submit a notice to request that this subsection (b) apply to one or more sulfur dioxide emitting units at a WEB source. The notice shall be submitted in accordance with the deadlines specified in R307-250-9(6)(a), and shall include the following information (in a format specified by the director with such additional, related information as may be requested):

(A) a list of all units at the WEB source that identifies the units that are to be covered by this subsection (b);

(B) an identification of any such units that are permanently retired.

(iii) For each new unit at an existing WEB source for which the WEB source seeks to comply with this subsection (b) and for which the account representative applies for an allocation under the new source set-aside provisions of R307-250-7(6), the account representative shall submit a modified notice under (ii) above that includes such new sulfur dioxide emitting units. The modified request shall be submitted in accordance with the deadlines in R307-250-9(6)(a), but no later than the date on which a request is submitted under R307-250-7(6) for allocations from the set-aside.

(iv) The account representative for a WEB source shall submit an annual emissions statement for each unit under this subsection (b) pursuant to R307-250-9(8). The WEB source shall maintain operating records sufficient to estimate annual sulfur dioxide emissions in a manner consistent with the emission inventory submitted by the source for calendar year 2006. In addition, if the estimated emissions from all such units at the WEB source are greater than the allowances for the current control year held in the special reserve compliance account for the WEB source, the account representative shall report the extra amount as part of the annual report for the WEB source under R307-250-12 and shall obtain and transfer allowances into the special reserve compliance account to account for such emissions.

(v) R307-250-9(2) - (10) shall not apply to units covered by this paragraph except where otherwise noted.

(vi) A WEB source may opt to modify the monitoring for a sulfur dioxide emitting unit to use monitoring under (a) above, but any such monitoring change must take effect on January 1 of the next compliance year. In addition, the account representative must submit an initial monitoring plan at least 180 days prior to the date on which the new monitoring will take effect and a detailed monitoring plan in accordance with (2) below. The

account representative shall also submit a revised notice under R307-250-9(1)(b)(ii) at the same time that the initial monitoring plan is submitted.

(c) For any monitoring method that the WEB source uses under R307-250-9 including (b) above, the WEB source shall install, certify, and operate the equipment in accordance with this section, and record and report the data from the method as required in this section. In addition, the WEB source may not:

(i) except for an alternative approved by the EPA Administrator for a WEB source that implements monitoring under (a) above, use an alternative monitoring system, alternative reference method or another alternative for the required monitoring method without having obtained prior written approval in accordance with (9) below;

(ii) operate a sulfur dioxide emitting unit so as to discharge, or allow to be discharged, sulfur dioxide emissions to the atmosphere without accounting for these emissions in accordance with the applicable provisions of this section;

(iii) disrupt the approved monitoring method or any portion thereof, and thereby avoid monitoring and recording sulfur dioxide mass emissions discharged into the atmosphere, except for periods of recertification or periods when calibration, quality assurance testing or maintenance is performed in accordance with the applicable provisions of this section; or

(iv) retire or permanently discontinue use of an approved monitoring method, except under one of the following circumstances:

(A) during a period when the unit is exempt from the requirements of this Section, including retirement of a unit as addressed in (a)(iii) above;

(B) the WEB source is monitoring emissions from the unit with another certified monitoring method approved under this Section for use at the unit that provides data for the same parameter as the retired or discontinued monitoring method; or

(C) the account representative submits notification of the date of certification testing of a replacement monitoring system in accordance with this Section, and the WEB source recertifies thereafter a replacement monitoring system in accordance with the applicable provisions of this Section.

(2) Monitoring Plan.

(a) General Provisions. A WEB source with a sulfur dioxide emitting unit that uses a monitoring method under (1)(a)(ii) above shall meet the following requirements.

(i) Prepare and submit to the director an initial monitoring plan for each monitoring method that the WEB source uses to comply with this Section. In accordance with (c) below, the plan shall contain sufficient information on the units involved, the applicable method, and the use of data derived from that method to demonstrate that all unit sulfur dioxide emissions are monitored and reported. The plan shall be submitted in accordance with the deadlines specified in (6) below.

(ii) Prepare, maintain and submit to the director a detailed

monitoring plan in accordance with the deadlines specified in (6) below. The plan will contain the applicable information required by (d) below. The director may require that the monitoring plan or portions of it be submitted electronically. The director may also require that the plan be submitted on an ongoing basis in electronic format as part of the quarterly report submitted under (8)(a) below or resubmitted separately within 30 days after any change is made to the plan in accordance with (iii) below.

(iii) Whenever a WEB source makes a replacement, modification, or change in one of the systems or methodologies provided for in (1)(a)(ii) above, including a change in the automated data acquisition and handling system or in the flue gas handling system, that affects information reported in the monitoring plan, such as a change to serial number for a component of a monitoring system, then the WEB source shall update the monitoring plan.

(b) A WEB source with a sulfur dioxide emitting unit that uses a method under (1)(a)(i) above shall meet the requirements of this subsection (2) by preparing, maintaining and submitting a monitoring plan in accordance with the requirements of 40 CFR Part 75. If requested, the WEB source also shall submit the entire monitoring plan to the director.

(c) Initial Monitoring Plan. The account representative shall submit an initial monitoring plan for each sulfur dioxide emitting unit or group of units sharing a common methodology that, except as otherwise specified in an applicable provision in Appendix B of State Implementation Plan Section XX, contains the following information:

(i) For all sulfur dioxide emitting units:

(A) plant name and location;

(B) plant and unit identification numbers assigned by the director;

(C) type of unit, or units for a group of units using a common monitoring methodology;

(D) identification of all stacks or pipes associated with the monitoring plan;

(E) types of fuels fired or sulfur containing process materials used in the sulfur dioxide emitting unit, and the fuel classification of the unit if combusting more than one type of fuel and using a 40 CFR Part 75 methodology;

(F) types of emissions controls for sulfur dioxide installed or to be installed, including specifications of whether such controls are pre-combustion, post-combustion, or integral to the combustion process;

(G) maximum hourly heat input capacity, or process throughput capacity, if applicable;

(H) identification of all units using a common stack; and

(I) indicator of whether any stack identified in the plan is a bypass stack.

(ii) For each unit and parameter required to be monitored, identification of monitoring methodology information, consisting of monitoring methodology, monitor locations, substitute data

approach for the methodology, and general identification of quality assurance procedures. If the proposed methodology is a specific methodology submitted pursuant to (1)(a)(ii)(D) above, the description under this paragraph shall describe fully all aspects of the monitoring equipment, installation locations, operating characteristics, certification testing, ongoing quality assurance and maintenance procedures, and substitute data procedures.

(iii) If a WEB source intends to petition for a change to any specific monitoring requirement otherwise required under this Section, such petition may be submitted as part of the initial monitoring plan.

(iv) The director may issue a notice of approval or disapproval of the initial monitoring plan based on the compliance of the proposed methodology with the requirements for monitoring in this Section.

(d) Detailed Monitoring Plan. The account representative shall submit a detailed monitoring plan that, except as otherwise specified in an applicable provision in Appendix C of State Implementation Plan Section XX, the Regional Haze SIP, shall contain the following information:

(i) Identification and description of each monitoring component (including each monitor and its identifiable components, such as analyzer or probe) in a continuous emissions monitoring system (e.g., sulfur dioxide pollutant concentration monitor, flow monitor, moisture monitor), a 40 CFR Part 75, Appendix D monitoring system (e.g., fuel flowmeter, data acquisition and handling system), or a protocol in Appendix B of SIP Section XX, including:

(A) manufacturer, model number and serial number;

(B) component and system identification code assigned by the facility to each identifiable monitoring component, such as the analyzer and/or probe;

(C) designation of the component type and method of sample acquisition or operation such as in situ pollutant concentration monitor or thermal flow monitor;

(D) designation of the system as a primary or backup system;

(E) first and last dates the system reported data;

(F) status of the monitoring component; and

(G) parameter monitored.

(ii) Identification and description of all major hardware and software components of the automated data acquisition and handling system, including:

(A) hardware components that perform emission calculations or store data for quarterly reporting purposes, including the manufacturer and model number; and

(B) identification of the provider and model or version number of the software components.

(iii) Explicit formulas for each measured emissions parameter, using component or system identification codes for the monitoring system used to measure the parameter that links the system observations with the reported concentrations and mass

emissions. The formulas must contain all constants and factors required to derive mass emissions from component or system code observations and an indication of whether the formula is being added, corrected, deleted, or is unchanged. The WEB source with a low mass emissions unit for which the WEB source is using the optional low mass emissions excepted methodology in 40 CFR Part 75.19(c) is not required to report such formulas.

(iv) For units with flow monitors only, the inside cross-sectional area in square feet at the flow monitoring location.

(v) If using CEMS for sulfur dioxide and flow, for each parameter monitored, include the scale, maximum potential concentration and method of calculation, maximum expected concentration, if applicable, and method of calculation, maximum potential flow rate and method of calculations, span value, full-scale range, daily calibration units of measure, span effective date and hour, span inactivation date and hour, indication of whether dual spans are required, default high range value, flow rate span, and flow rate span value and full scale value in standard cubic feet per hour for each unit or stack using sulfur dioxide or flow component monitors.

(vi) If the monitoring system or excepted methodology provides for use of a constant, assumed, or default value for a parameter under specific circumstances, then include the following information for each value of such parameter:

(A) identification of the parameter;

(B) default, maximum, minimum, or constant value, and units of measure for the value;

(C) purpose of the value;

(D) indicator of use during controlled and uncontrolled hours;

(E) types of fuel;

(F) source of the value;

(G) value effective date and hour;

(H) date and hour value is no longer effective, if applicable; and

(I) for units using the excepted methodology under 40 CFR 75.19, the applicable sulfur dioxide emission factor.

(vii) Unless otherwise specified in subsection 6.5.2.1 of Appendix A to 40 CFR Part 75, for each unit or common stack on which continuous emissions monitoring system hardware are installed:

(A) the upper and lower boundaries of the range of operation as defined in subsection 6.5.2.1 of Appendix A to 40 CFR Part 75, or thousands of pounds per hour (lb/hr) of steam, or feet per second (ft/sec), as applicable;

(B) the load or operating level(s) designated as normal in subsection 6.5.2.1 of Appendix A to 40 CFR Part 75, or thousands of lb/hr of steam, or ft/sec, as applicable;

(C) the two load or operating levels (i.e., low, mid, or high) identified in subsection 6.5.2.1 of Appendix A to 40 CFR Part 75 as the most frequently used;

(D) the date of the data analysis used to determine the

normal load (or operating) level(s) and the two most frequently-used load or operating levels; and

(E) activation and deactivation dates when the normal load or operating levels change and are updated.

(viii) For each unit that is complying with 40 CFR Part 75 for which the optional fuel flow-to-load test in subsection 2.1.7 of Appendix D to 40 CFR Part 75 is used:

(A) the upper and lower boundaries of the range of operation as defined in subsection 6.5.2.1 of Appendix A to 40 CFR Part 75, expressed in thousands of lb/hr of steam;

(B) the load level designated as normal, pursuant to subsection 6.5.2.1 of Appendix A to 40 CFR Part 75, expressed in thousands of lb/hr of steam; and

(C) the date of the load analysis used to determine the normal load level.

(ix) Information related to quality assurance testing, including, as applicable: identification of the test strategy; protocol for the relative accuracy test audit; other relevant test information; calibration gas levels expressed as percent of span for the calibration error test and linearity check; and calculations for determining maximum potential concentration, maximum expected concentration if applicable, maximum potential flow rate, and span.

(x) If applicable, apportionment strategies under sections 75.10 through 75.18 of 40 CFR Part 75.

(xi) Description of site locations for each monitoring component in a monitoring system, including schematic diagrams and engineering drawings and any other documentation that demonstrates each monitor location meets the appropriate siting criteria. For units monitored by a continuous emission monitoring system, diagrams shall include:

(A) a schematic diagram identifying entire gas handling system from unit to stack for all units, using identification numbers for units, monitor components, and stacks corresponding to the identification numbers provided in the initial monitoring plan and (i) and (iii) above. The schematic diagram must depict the height of any monitor locations. Comprehensive and/or separate schematic diagrams shall be used to describe groups of units using a common stack; and

(B) stack and duct engineering diagrams showing the dimensions and locations of fans, turning vanes, air preheaters, monitor components, probes, reference method sampling ports, and other equipment that affects the monitoring system location, performance, or quality control checks.

(xii) A data flow diagram denoting the complete information handling path from output signals of CEMS components to final reports.

(e) In addition to supplying the information in (c) and (d) above, the WEB source with a sulfur dioxide emitting unit using either of the methodologies in (1)(a)(ii)(B) above shall include the following information in its monitoring plan for the specific situations described:

(i) For each gas-fired or oil-fired sulfur dioxide emitting unit for which the WEB source uses the optional protocol in Appendix D to 40 CFR Part 75 for sulfur dioxide mass emissions, the Account Representative shall include the following information in the monitoring plan:

(A) parameter monitored;

(B) type of fuel measured, maximum fuel flow rate, units of measure, and basis of maximum fuel flow rate expressed as the upper range value or unit maximum for each fuel flowmeter;

(C) test method used to check the accuracy of each fuel flowmeter;

(D) submission status of the data;

(E) monitoring system identification code;

(F) the method used to demonstrate that the unit qualifies for monthly gross calorific value (GCV) sampling or for daily or annual fuel sampling for sulfur content, as applicable;

(G) a schematic diagram identifying the relationship between the unit, all fuel supply lines, the fuel flowmeters, and the stacks. The schematic diagram must depict the installation location of each fuel flowmeter and the fuel sampling locations. Comprehensive or separate schematic diagrams shall be used to describe groups of units using a common pipe;

(H) for units using the optional default sulfur dioxide emission rate for "pipeline natural gas" or "natural gas" in appendix D to 40 CFR Part 75, the information on the sulfur content of the gaseous fuel used to demonstrate compliance with either subsection 2.3.1.4 or 2.3.2.4 of Appendix D to 40 CFR Part 75;

(I) for units using the 720 hour test under subsection 2.3.6 of Appendix D to 40 CFR Part 75 to determine the required sulfur sampling requirements, report the procedures and results of the test; and

(J) for units using the 720 hour test under subsection 2.3.5 of Appendix D to 40 CFR Part 75 to determine the appropriate fuel GCV sampling frequency, report the procedures used and the results of the test.

(ii) For each sulfur dioxide emitting unit for which the WEB source uses the low mass emission excepted methodology of 40 CFR 75.19, the WEB source shall include the information in (A) through (F) in the monitoring plan that accompanies the initial certification application.

(A) The results of the analysis performed to qualify as a low mass emissions unit under 40 CFR 75.19(c). This report will include either the previous three years' actual or projected emissions. The report will include the current calendar year of application; the type of qualification; years one, two, and three; annual measured, estimated or projected sulfur dioxide mass emissions for years one, two, and three; and annual operating hours for years one, two, and three.

(B) A schematic diagram identifying the relationship between the unit, all fuel supply lines and tanks, any fuel flowmeters, and the stacks. Comprehensive or separate schematic diagrams

shall be used to describe groups of units using a common pipe.

(C) For units which use the long term fuel flow methodology under 40 CFR 75.19(c)(3), a diagram of the fuel flow to each unit or group of units and a detailed description of the procedures used to determine the long term fuel flow for a unit or group of units for each fuel combusted by the unit or group of units.

(D) A statement that the unit burns only gaseous fuels or fuel oil and a list of the fuels that are burned or a statement that the unit is projected to burn only gaseous fuels or fuel oil and a list of the fuels that are projected to be burned.

(E) A statement that the unit meets the applicability requirements in 40 CFR 75.19(a) and (b) with respect to sulfur dioxide emissions.

(F) Any unit historical actual, estimated and projected sulfur dioxide emissions data and calculated sulfur dioxide emissions data demonstrating that the unit qualifies as a low mass emissions unit under 40 CFR 75.19(a) and (b).

(iii) For each gas-fired unit, the account representative shall include the following in the monitoring plan: current calendar year, fuel usage data as specified in the definition of gas-fired in 40 CFR 72.2, and an indication of whether the data are actual or projected data.

(f) The specific elements of a monitoring plan under this section shall not be part of a WEB source's operating permit issued under R307-415, and modifications to the elements of the plan shall not require a permit modification.

(3) Certification and Recertification.

(a) All monitoring systems are subject to initial certification and recertification testing as specified in 40 CFR Part 75 or Appendix B of State Implementation Plan Section XX, as applicable. Certification or recertification of a monitoring system by the U.S. EPA for a WEB source that is subject to 40 CFR Part 75 under a requirement separate from this Rule shall constitute certification under the WEB Trading Program.

(b) The WEB source with a sulfur dioxide emitting unit not otherwise subject to 40 CFR Part 75 that monitors sulfur dioxide mass emissions in accordance with 40 CFR Part 75 to satisfy the requirements of this section shall perform all of the tests required by that regulation and shall submit the following to the director:

(i) a test notice, not later than 21 days before the certification testing of the monitoring system, provided that the director may establish additional requirements for adjusting test dates after this notice as part of the approval of the initial monitoring plan under (2)(c) above; and

(ii) an initial certification application within 45 days after testing is complete.

(c) A monitoring system will be considered provisionally certified while the application is pending.

(d) Upon receipt of a disapproval of the certification of a monitoring system or component, the certification is revoked. The data measured and recorded shall not be considered valid quality-

assured data from the date of issuance of the notification of revocation until the WEB source completes a subsequently-approved certification or re-certification test in accordance with the procedures in this rule. The WEB source shall apply the substitute data procedures in this rule to replace all of the invalid data for each disapproved system or component.

(4) Ongoing Quality Assurance and Quality Control. The WEB source shall satisfy the applicable quality assurance and quality control requirements of 40 CFR Part 75 or, if the WEB source is subject to a WEB protocol in Appendix B of State Implementation Plan Section XX, the applicable quality assurance and quality control requirements in Appendix B of State Implementation Plan Section XX on and after the date that certification testing commences.

(5) Substitute Data Procedures.

(a) For any period after certification testing is complete in which quality assured, valid data are not being recorded by a monitoring system certified and operating in accordance with R307-250, missing or invalid data shall be replaced with substitute data in accordance with 40 CFR Part 75 or, if the WEB source is subject to a WEB protocol in Appendix B of State Implementation Plan Section XX, with substitute data in accordance with that Appendix.

(b) For a sulfur dioxide emitting unit that does not have a certified or provisionally certified monitoring system in place as of the beginning of the first control period for which the unit is subject to the WEB Trading Program, the WEB source shall use one of the following procedures.

(i) If the WEB source will use a continuous emissions monitoring system to comply with this Section, substitute the maximum potential concentration of sulfur dioxide for the unit and the maximum potential flow rate, as determined in accordance with 40 CFR Part 75. The procedures for conditional data validation under section 75.20(b)(3) may be used for any monitoring system under this Rule that uses these 40 CFR Part 75 procedures, as applicable.

(ii) If the WEB source will use the 40 CFR Part 75 Appendix D methodology, substitute the maximum potential sulfur content, density or gross calorific value for the fuel and the maximum potential fuel flow rate, in accordance with section 2.4 of Appendix D to 40 CFR Part 75.

(iii) If the WEB source will use the 40 CFR Part 75 methodology for low mass emissions units, substitute the sulfur dioxide emission factor required for the unit as specified in 40 CFR 75.19 and the maximum rated hourly heat input, as defined in 40 CFR 72.2.

(iv) If using a protocol in Appendix B of State Implementation Plan Section XX, follow the procedures in the applicable protocol.

(6) Deadlines.

(a) The initial monitoring plan required under R307-250-9(2)(a)(i) shall be submitted by the following dates:

(i) for each source that is a WEB source on or before the program trigger date, the monitoring plan shall be submitted 180 days after such program trigger date.

(ii) for any existing source that becomes a WEB source after the program trigger date, the monitoring plan shall be submitted by September 30 of the year following the inventory year in which the source exceeded the 100 tons per year sulfur dioxide emissions threshold in R307-250-4(1)(b).

(iii) for any new WEB source, the monitoring plan shall be included with the notice of intent required by R307-401.

(b) The detailed monitoring plan required under R307-250-9(2)(a)(ii) shall be submitted no later than 45 days prior to commencing certification testing in accordance with (c) below. Modifications to the monitoring plan shall be submitted within 90 days of implementing revised monitoring plans.

(c) Emission monitoring systems shall be installed, operational and shall have met all of the certification testing requirements of R307-250-9(3), including any referenced in Appendix B of State Implementation Plan Section XX, by the following dates:

(i) for each source that is a WEB source on or before the program trigger date, two years prior to the start of the first control period as described in R307-250-12.

(ii) for any existing source that becomes a WEB source after the program trigger date, one year after the due date for the monitoring plan under (6)(a)(ii) above.

(iii) for any new WEB source or any new unit at a WEB source, the earlier of 90 unit operating days or 180 calendar days after the date the new source commences operation.

(d) The WEB source shall submit test notices and certification applications in accordance with the deadlines set forth in R307-250-9(3)(b).

(e) For each control period, the WEB source shall submit each quarterly report no later than 30 days after the end of each calendar quarter, and shall submit each annual report no later than 60 days after the end of each calendar year.

(7) Recordkeeping.

(a) The WEB source shall keep copies of all reports, registration materials, compliance certifications, sulfur dioxide emissions data, quality assurance data, and other submissions under this Rule for a period of five years. In addition, the WEB source shall keep a copy of all certificates for the duration of the WEB Trading Program. Unless otherwise requested by the WEB source and approved by the director, the copies shall be kept on site.

(b) The WEB source shall keep records of all operating hours, quality assurance activities, fuel sampling measurements, hourly averages for sulfur dioxide, stack flow, fuel flow, or other continuous measurements, as applicable, and any other applicable data elements specified in this section or in Appendix B of State Implementation Plan Section XX. The WEB source shall maintain the applicable records specified in 40 CFR Part 75 for

any sulfur dioxide emitting unit that uses a Part 75 monitoring method to meet the requirements of this Section.

(8) Reporting.

(a) Quarterly Reports. For each sulfur dioxide emitting unit, the account representative shall submit a quarterly report within thirty days after the end of each calendar quarter. The report shall be in a format specified by the director, including hourly and quality assurance activity information, and shall be submitted in a manner compatible with the WEB EATS. If the WEB source submits a quarterly report under 40 CFR Part 75 to the U.S. EPA Administrator, no additional report under this paragraph (a) shall be required. The director may require that a copy of that report or a separate statement of quarterly and cumulative annual sulfur dioxide mass emissions be submitted separately.

(b) Annual Report. Based on the quarterly reports, each WEB source shall submit an annual statement of total annual sulfur dioxide emissions for all sulfur dioxide emitting units at the source. The annual report shall identify total emissions for all units monitored in accordance with (1)(a) above and the total emissions for all units with emissions estimated in accordance with (1)(b) above. The annual report shall be submitted within 60 days after the end of a control period.

(c) If directed by the director, monitoring plans, reports, certifications or recertifications, or emissions data required to be submitted under this section also shall be submitted to the TSA.

(d) If the director rejects any report submitted under this subsection that contains errors or fails to satisfy the requirements of this section, the account representative shall resubmit the report to correct any deficiencies.

(9) Petitions. A WEB source may petition for an alternative to any requirement specified in (1)(a)(ii) above. The petition shall require approval of the director and the Administrator. Any petition submitted under this paragraph shall include sufficient information for the evaluation of the petition, including, at a minimum, the following information:

(a) identification of the WEB source and applicable sulfur dioxide emitting unit(s);

(b) a detailed explanation of why the proposed alternative is being suggested in lieu of the requirement;

(c) a description and diagram of any equipment and procedures used in the proposed alternative, if applicable; and

(d) a demonstration that the proposed alternative is consistent with the purposes of the requirement for which the alternative is proposed, is consistent with the purposes of R307-250, and that any adverse effect of approving such alternative will be de minimis; and

(e) any other relevant information that the director may require.

(10) For any monitoring plans, reports, or other information submitted under this Rule, the account representative shall ensure that, where applicable, identifying information is consistent with

the identifying information provided in the most recent certificate for the WEB source submitted under R307-250-5.

R307-250-10. Allowance Transfers.

(1) Procedure. To transfer allowances, the account representative shall submit the following information to the TSA:

(a) the number or numbers identifying the transferor account;

(b) the number or numbers identifying the transferee account;

(c) the serial number of each allowance to be transferred; and

(d) the transferor's account representative's name, signature, and the date of submission.

(2) Allowance Transfer Deadline. The allowance transfer deadline is midnight Pacific Standard Time on March 1 of each year, or, if this date is not a business day, midnight of the first business day thereafter, following the end of the control period. By this time, the transfer of the allowances into the WEB source's compliance account must be correctly submitted to the TSA in order to demonstrate compliance under R307-250-12 for that control period.

(3) Retirement of Allowances. To permanently retire allowances, the transferor's account representative shall submit the following information to the TSA:

(a) the transfer account number identifying the transferor account;

(b) the serial number of each allowance to be retired; and

(c) the transferor's account representative's name, signature, and the date of submission accompanied by a signed statement acknowledging that each retired allowance is no longer available for future transfers from or to any account.

(4) Special Reserve Compliance Accounts. Allowances shall not be transferred out of special reserve compliance accounts. Allowances may be transferred into special reserve compliance accounts in accordance with the procedures in paragraph (1) above.

R307-250-11. Use of Allowances from a Previous Year.

(1) Any allowance that is held in a compliance account or general account will remain in the account until the allowance is either deducted in conjunction with the compliance process, or transferred to another account.

(2) In order to demonstrate compliance under R307-250-12(1) for a control period, WEB sources shall only use allowances allocated for that control period or any previous year.

(3) If flow control procedures for the current control period have been triggered as outlined in SIP Section XX.E.3.h(2), then the use of allowances that were allocated for any previous year will be limited in the following ways.

(a) The number of allowances that are held in each compliance account and general account as of the allowance transfer deadline for the immediately previous year and that were

allocated for any previous year will be determined.

(b) The number determined in (a) above will be multiplied by the flow control ratio established in accordance with SIP Section XX.E.3.h to determine the number of allowances that were allocated for a previous year that can be used without restriction for the current control period.

(c) Allowances that were allocated for a previous year in excess of the number determined in (b) above may also be used for the current control period. If such allowances are used to make a deduction, two allowances must be deducted for each deduction of one allowance required under R307-250-12.

(4) Special provisions for the year 2018. After compliance with the 2017 allowance limitation has been determined in accordance with R307-250-12(1), allowances allocated for any year prior to 2018 shall not be used for determining compliance with the 2018 allowance limitation or any future allowance limitation.

(5) Special Reserve Compliance Accounts. Unused allowances in any special reserve compliance account will be retired after the compliance deductions under R307-250-12 have been completed for each control period, and shall not be available for use in any future control period.

R307-250-12. Compliance.

(1) Compliance with Allowance Limitations.

(a) The WEB source must hold allowances, in accordance with (b)and (c) below and R307-250-11, as of the allowance transfer deadline in the WEB source's compliance account, together with any current control year allowances held in the WEB source's special reserve compliance account under R307-250-9(1)(b), in an amount not less than the total sulfur dioxide emissions for the control period from the WEB source, as determined under the monitoring and reporting requirements of R307-250-9.

(i) For each source that is a WEB source on or before the program trigger date, the first control period is the calendar year that is six years following the calendar year for which sulfur dioxide emissions exceeded the milestone as determined in accordance with SIP Section XX.E.1.

(ii) For any existing source that becomes a WEB source after the program trigger date, the first control period is the calendar year that is four years following the inventory year in which the source became a WEB source.

(iii) For any new WEB source after the program trigger date, the first control period is the first full calendar year that the source is in operation.

(iv) If the WEB Trading Program is triggered in accordance with the 2013 review procedures in SIP Section XX.E.1.d, the first control period for each source that is a WEB source on or before the program trigger date is the year 2018.

(b) Allowance transfer deadline. An allowance may only be deducted from the WEB source's compliance account if:

(i) the allowance was allocated for the current control period or meets the requirements in R307-250-11 for use of

allowances from a previous control period, and

(ii) the allowance was held in the WEB source's compliance account as of the allowance transfer deadline for the current control period, or was transferred into the compliance account by an allowance transfer correctly submitted for recording by the allowance transfer deadline for the current control period.

(c) Compliance with allowance limitations shall be determined as follows.

(i) The total annual sulfur dioxide emissions for all sulfur dioxide emitting units at the source that are monitored under R307-250-9(1)(b), as reported by the source to the director, in accordance with R307-250-9, and recorded in the WEB EATS shall be compared to the allowances held in the source's special reserve compliance account as of the allowance transfer deadline for the current control period, adjusted in accordance with R307-250-11. If the emissions are equal to or less than the allowances in such account, all such allowances shall be retired to satisfy the obligation to hold allowances for such emissions. If the total emissions from such units exceed the allowances in such special reserve compliance account, the WEB source shall account for such excess emissions in the following paragraph (ii).

(ii) The total annual sulfur dioxide emissions for all sulfur dioxide emitting units at the source that are monitored under R307-250-9(1)(a), as reported by the source to the director in accordance with R307-250-9 and recorded in the WEB EATS, together with any excess emissions as calculated in the preceding paragraph (i), shall be compared to the allowances held in the source's compliance account as of the allowance transfer deadline for the current control period, adjusted in accordance with R307-250-11.

(iii) If the comparison in paragraph (ii) above results in emissions that exceed the allowances held in the source's compliance account, the source has exceeded its allowance limitation and the excess emissions are subject to the allowance deduction penalty in R307-250-12(3)(a).

(d) Other than allowances in a special reserve compliance account for units monitored under R307-250-9(1)(b), to the extent consistent with R307-250-11, allowances shall be deducted for a WEB source for compliance with the allowance limitation as directed by the WEB source's account representative. Deduction of any other allowances as necessary for compliance with the allowance limitation shall be on a first-in, first-out accounting basis in the order of the date and time of their recording in the WEB source's compliance account, beginning with the allowances allocated to the WEB source and continuing with the allowances transferred to the WEB source's compliance account from another compliance account or general account. The allowances held in a special reserve compliance account pursuant to R307-250-9(1)(b) shall be deducted as specified in paragraph (c)(i) above.

(2) Certification of Compliance.

(a) For each control period in which a WEB source is subject to the allowance limitation, the account representative of the

source shall submit to the director a compliance certification report for the source.

(b) The compliance certification report shall be submitted no later than the allowance transfer deadline of each control period, and shall contain the following:

(i) identification of each WEB source;

(ii) at the account representative's option, the serial numbers of the allowances that are to be deducted from a source's compliance account or special reserve compliance account for compliance with the allowance limitation; and

(iii) the compliance certification report according to (c) below.

(c) In the compliance certification report, the account representative shall certify, based on reasonable inquiry of those persons with primary responsibility for operating the WEB source in compliance with the WEB Trading Program, whether the WEB source for which the compliance certification is submitted was operated in compliance with the requirements of the WEB Trading Program applicable to the source during the control period covered by the report, including:

(i) whether the WEB source operated in compliance with the sulfur dioxide allowance limitation;

(ii) whether sulfur dioxide emissions data was submitted to the director in accordance with R307-250-9(8) and other applicable requirements for review, revision as necessary, and finalization;

(iii) whether the monitoring plan for the WEB source has been maintained to reflect the actual operation and monitoring of the source, and contains all information necessary to attribute sulfur dioxide emissions to the source, in accordance with R307-250-9(2);

(iv) whether all the sulfur dioxide emissions from the WEB source if applicable, were monitored or accounted for either through the applicable monitoring or through application of the appropriate missing data procedures;

(v) if applicable, whether any sulfur dioxide emitting unit for which the WEB source is not required to monitor in accordance with R307-250-9(1)(a)(iii) of this rule remained permanently retired and had no emissions for the entire applicable period; and

(vi) whether there were any changes in the method of operating or monitoring the WEB source that required monitor recertification. If there were any such changes, the report must specify the nature, reason, and date of the change, the method to determine compliance status subsequent to the change, and specifically, the method to determine sulfur dioxide emissions.

(3) Penalties for Any WEB Source Exceeding Its Allowance Limitations.

(a) Allowance Deduction Penalty.

(i) An allowance deduction penalty will be assessed equal to three times the number of the WEB source's tons of sulfur dioxide emissions in excess of its allowance limitation for a control period, determined in accordance with R307-250-12(1). Allowances allocated for the following control period in the amount of the

allowance deduction penalty will be deducted from the source's compliance account. If the compliance account does not have sufficient allowances allocated for that control period, the required number of allowances will be deducted from the WEB source's compliance account regardless of the control period for which they were allocated, once allowances are recorded in the account.

(ii) Any allowance deduction required under R307-250-12(1)(c) shall not affect the liability of the owners and operators of the WEB source for any fine, penalty or assessment or their obligation to comply with any other remedy, for the same violation, as ordered under the Clean Air Act, implementing regulations or Utah Code 19-2. Accordingly, a violation can be assessed each day of the control period for each ton of sulfur dioxide emissions in excess of its allowance limitation, or for each other violation of R307-250.

(4) Liability.

(a) WEB Source liability for non-compliance. Separate and regardless of any allowance deduction penalty, a WEB source that violates any requirement of this Rule is subject to civil and criminal penalties under Utah Code 19-2. Each day of the control period is a separate violation, and each ton of sulfur dioxide emissions in excess of a source's allowance limitation is a separate violation.

(b) General Liability.

(i) Any provision of the WEB Trading Program that applies to a source or an account representative shall apply also to the owners and operators of such source.

(ii) Any person who violates any requirement or prohibition of the WEB Trading Program will be subject to enforcement pursuant to Utah Code 19-2.

(iii) Any person who knowingly makes a false material statement in any record, submission, or report under this WEB Trading Program shall be subject to criminal enforcement pursuant to the Utah Code.

R307-250-13. Special Penalty Provisions for the 2018 Milestone.

(1) If the WEB Trading Program is triggered as outlined in SIP Section XX.E.1, and the first control period will not occur until after the year 2018, the following provisions shall apply for the 2018 emissions year.

(a) All WEB sources shall register, and shall open a compliance account within 180 days after the program trigger date, in accordance with R307-250-6(1) and R307-250-8.

(b) The TSA will record the allowances for the 2018 control period for each WEB source in the source's compliance account once the director allocates the 2018 allowances under SIP Section XX.E.3.a and XX.E.4.

(c) The allowance transfer deadline is midnight Pacific Standard Time on May 31, 2021 (or if this date is not a business day, midnight of the first business day thereafter). WEB sources may transfer allowances as provided in R307-250-10(1) until the

allowance transfer deadline.

(d) A WEB source must hold allowances allocated for 2018, including those transferred into the compliance account or a special reserve account by an allowance transfer correctly submitted by the allowance transfer deadline, in an amount not less than the WEB source's total sulfur dioxide emissions for 2018. Emissions will be determined using the pre-trigger monitoring provisions in SIP Section XX.E.2, and R307-150

(e) In accordance with R307-250-11(4) and (d) above, the director will seek a minimum financial penalty of $5,000 per ton of sulfur dioxide emissions in excess of the WEB source's allowance limitation.

(i) Any source may resolve its excess emissions violation by agreeing to a streamline settlement approach where the source pays a penalty of $5,000 per ton or partial ton of excess emissions, and payment is received within 90 calendar days after the issuance of a notice of violation.

(ii) Any source that does not resolve its excess emissions violation in accordance with the streamlined settlement approach in (i) above will be subject to enforcement action in which the director will seek a financial penalty for the excess emissions based on the statutory maximum civil penalties.

(f) Each ton of sulfur dioxide emissions in excess of a source's allowance limitation is a separate violation and each day of a control period is a separate violation.

(2) The provisions in R307-250-13 shall continue to apply for each year after the 2018 emission year until:

(a) the first control period under the WEB trading program; or

(b) the director determines, in accordance with SIP Section XX.E.1.c(10), that the 2018 sulfur dioxide milestone has been met.

(3) If the special penalty provisions continue after the year 2018 as outlined in (2) above, the deadlines listed in (1)(b) through (e) above will be adjusted as follows:

(i) for the 2019 control period the dates will be adjusted forward by one year, except that the allowance transfer deadline shall be midnight Pacific Standard Time on May 31, 2021 (or if this date is not a business day, midnight of the first business day thereafter); and

(ii) for each control period after 2018 that the special penalty provisions are assessed, the dates in (i) above for the 2019 control period will be adjusted forward by one year.

(4) The TSA will record the same number of allowances for each WEB source as were recorded for the 2018 control period for each subsequent control period.

R307-250-14. Integration into Permits.

(1) Initial Permitting. Each source that is a WEB source on or before the program trigger date shall follow the procedures outlined in R307-415 to incorporate all of the applicable requirements of this rule into the permit issued to it under R307-415.

(2) Post Trigger Permitting.

(a) New WEB Source. Any existing source that becomes a WEB source after the program trigger date shall submit a Notice of Intent pursuant to R307-401 to incorporate all of the requirements of this rule into an approval order issued under R307-401 within 90 days of the date the source became a WEB source, and shall follow the procedures of R307-415 to obtain an operating permit.

(b) WEB Sources No Longer Subject to Permitting Under R307-415. If a WEB source's permit issued under R307-415 ceases to be effective or required, the WEB source must submit a Notice of Intent pursuant to R307-401 to incorporate all of the requirements of this rule into an approval order issued under R307-401 within 90 days of the date the permit issued under R307-415 ceased to be effective or required.

KEY: air pollution, sulfur dioxide, market trading program
Date of Enactment or Last Substantive Amendment: November 10, 2008
Notice of Continuation: February 6, 2013
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a); 19-2-104(3)(e)

R307. Environmental Quality, Air Quality.
R307-301. Utah and Weber Counties: Oxygenated Gasoline Program As a Contingency Measure.
R307-301-1. Definitions.

The following additional definitions apply to R307-301.

"Averaging period" is the control period and means the period of time over which all gasoline sold or dispensed for use in a control area by any control area responsible party or blender control area responsible party must comply with the average oxygen content standard.

"Blender control area responsible party (blender CAR)" means a person who owns oxygenated gasoline which is sold or dispensed from a control area oxygenate blending installation.

"Blending Allowance" means the amount of oxygen a gasoline blend is allowed above its upper oxygen content limit. Any gasoline blended under the provisions of 42 U.S.C. 7545(f)(1) addressing substantially similar fuels are permitted a blending allowance of 0.2% oxygen by weight. Blending allowances are not given to gasoline blends granted a waiver by the Administrator under 42 U.S.C. 7545(f)(4).

"Carrier" means any person who transports, stores or causes the transportation or storage of gasoline at any point in the gasoline distribution network, without taking title to or otherwise having ownership of the gasoline, and without altering the quality or quantity of the gasoline.

"Control area" means a geographic area in which only gasoline under the oxygenated gasoline program may be sold or dispensed during the control period.

"Control area oxygenate blending installation" means any

installation or truck at which oxygenate is added to gasoline or gasoline blendstock which is intended for use in any control area, and at which the quality or quantity of the gasoline or gasoline blendstock is not otherwise altered, except through the addition of deposit-control additives.

"Control area responsible party (CAR)" means a person who owns oxygenated gasoline which is sold or dispensed from a control area terminal.

"Control area terminal" means either a terminal which is capable of receiving gasoline in bulk, i.e., by pipeline, marine vessel or barge, or a terminal at which gasoline is altered either in quantity or quality, excluding the addition of deposit control additives, or both. Gasoline which is intended for use in any control area is sold or dispensed into trucks at these control area terminals.

"Control period" means November 1 through the last day of February, during which time only oxygenated gasoline may be sold and dispensed in any control area.

"Distributor" means any person who transports or stores or causes the transportation or storage of gasoline at any point between any gasoline refiner's installation and any retail outlet or wholesale purchaser-consumer's installation. A distributor is a blender CAR if the distributor alters the oxygen content of gasoline intended for use in any control area through the addition of one or more oxygenates, or lowers its oxygen content below the minimum oxygen content specified in R307-301-6.

"Gasoline" means any fuel sold for use in motor vehicles and motor vehicle engines, and commonly or commercially known or sold as gasoline.

"Gasoline blendstock" means a hydrocarbon material which by itself does not meet specifications for finished gasoline, but which can be blended with other components, including oxygenates, to produce a blended gasoline fully meeting the American Society for Testing and Materials (ASTM) or state specifications.

"Non-oxygenated gasoline" means any gasoline which does not meet the definition of oxygenated gasoline.

"Oxygen content of gasoline blends" means percentage of oxygen by weight contained in a gasoline blend, based upon the percent by volume of each type of oxygenate contained in the gasoline blend, excluding denaturants and other non-oxygen-containing compounds. All measurements shall be adjusted to 60 degrees Fahrenheit.

"Oxygenate" means any substance, which when added to gasoline, increases the amount of oxygen in that gasoline blend. Lawful use of any combination of these substances requires that they be substantially similar as provided for under 42 U.S.C. 7545(f)(1), or be permitted under a waiver granted by the Administrator of the Environmental Protection Agency under the authority of 42 U.S.C. 7545(f)(4).

"Oxygenate blender" means a person who owns, leases, operates, controls, or supervises a control area oxygenate blending installation.

"Oxygenated gasoline" means any gasoline which contains at least 2.0% oxygen by weight, or 2.6% oxygen by weight if the average oxygen content standard is 3.1%, that was produced through the addition of one or more oxygenates to a gasoline and has been included in the oxygenated gasoline program accounting by a control area responsible party or blender control area responsible party and which is intended to be sold or dispensed for use in any control area. Notwithstanding the foregoing, if the Board determines that the requirement of 2.0% oxygen by weight, or 2.6% oxygen by weight if the average oxygen content standard is 3.1%, will prevent or interfere with attainment of the PM_{10} National Ambient Air Quality Standard and the State requests and is granted a waiver from the Administrator of the Environmental Protection Agency under 42 U.S.C. 7545, the waiver amount granted by the Administrator of the Environmental Protection Agency shall apply. Oxygenated gasoline containing lead is required to conform to the same waiver conditions or substantially similar ruling as unleaded gasoline as described in the definition of oxygenate.

"Refiner" means any person who owns, leases, operates, controls, or supervises a refinery which produces gasoline for use in a control area during the applicable control period.

"Refinery" means a plant at which gasoline is produced.

"Reseller" means any person who purchases gasoline and resells or transfers it to a retailer or a wholesale purchaser-consumer.

"Retail outlet" means any establishment at which gasoline is sold or offered for sale to the ultimate consumer for use in motor vehicles.

"Retailer" means any person who owns, leases, operates, controls, or supervises a retail outlet.

"Terminal" means an installation at which gasoline is sold, or dispensed into trucks for transportation to retail outlets or wholesale purchaser-consumer installations.

"Trigger date" means the date on which is triggered the Contingency Action Level specified in Section IX.C.8.h or IX.C.6.e of the state implementation plan.

"Wholesale purchaser-consumer" means any organization that:

(1) is an ultimate consumer of gasoline;

(2) purchases or obtains gasoline from a supplier for use in motor vehicles; and

(3) receives delivery of that product into a storage tank of at least 550-gallon capacity substantially under the control of that organization.

"Working day" means Monday through Friday, excluding observed federal and Utah state holidays.

R307-301-2. Applicability and Control Period Start Dates.

(1) Unless waived under authority of 42 U.S.C. 7545(m)(3) by the Administrator of the Environmental Protection Agency, R307-301 is applicable in Utah and Weber Counties.

(2) The first control period for areas for which R307-301 is applicable begins on November 1 following the trigger date for the

county in which it has been triggered.

R307-301-3. Average Oxygen Content Standard.

(1) All gasoline sold or dispensed during the control period, for use in each control area, by each CAR or blender CAR as defined in R307-301-1, shall be blended for each averaging period to contain an average oxygen content of not less than 2.7% oxygen by weight.

(2) The averaging period over which all gasoline sold or dispensed in the control area is to be averaged shall be equal to the control period.

(3) All gasoline, both leaded and unleaded, shall be blended in compliance with 40 CFR Part 79 (1991) - Registration of Fuels and Fuel Additives and 40 CFR Part 80 (1991) - Regulation of Fuels and Fuel Additives.

(4) Any gasoline blended under 42 U.S.C. 7545(f)(1) dealing with substantially similar fuels must be blended in compliance with the criteria specified in the substantially similar ruling. Any extra volume of oxygenate or oxygenates added to gasoline blended under a substantially similar ruling as provided for under 42 U.S.C. 7545(f)(1) in excess of the criteria specified in 42 U.S.C. 7545(f)(1) may not be included in the compliance calculations specified in R307-301-5(2) and (3).

(5) Any gasoline blended under a waiver granted by the Environmental Protection Agency under the provisions of 42 U.S.C. 7545(f)(4) must be blended in compliance with the criteria specified in the appropriate waiver. Gasoline blends waived to oxygen content above 2.7% oxygen by weight are not permitted a blending allowance for blending tolerance purposes. Any extra volume of oxygenate in excess of the criteria specified in the appropriate waiver may not be included in the compliance calculations specified in R307-301-5(2) or (3).

(6) Oxygen content shall be determined in accordance with R307-301-4.

R307-301-4. Sampling, Testing, and Oxygen Content Calculations.

(1) For the purpose of determining compliance with the requirements of R307-301, the oxygen content of gasoline shall be determined by one or both of the two following methods.

(a) Volumetric Method. Oxygen content may be calculated by the volumetric method specified in the Environmental Protection Agency Guidelines for Oxygenated Gasoline Credit Programs under Section 211(m) of the Clean Air Act as Amended - Supplementary Information - Oxygen Content Conversions, published in the Federal Register on October 20, 1992.

(b) Chemical Analysis Method.

(i) Use the sampling methodologies detailed in 40 CFR Part 80 (1993), Appendix D, to obtain a representative sample of the gasoline to be tested;

(ii) Determine the oxygenate content of the sample by use of:

(A) the test method specified in ASTM Designation D4815-93,

Testing Procedures--Method--ASTM Standard Test Method for Determination of C1 to C4 Alcohols and MTBE in Gasoline by Gas Chromatography,

(B) the test method specified in Appendix C of Environmental Protection Agency Guidelines for Oxygenated Gasoline Credit Programs under Section 211(m) of the Clean Air Act as Amended - Test Procedure Test for the Determination of Oxygenates in Gasoline as published in the Federal Register on October 20, 1992, or

(C) an alternative test method approved by the director.

(iii). Calculate the oxygen content of the gasoline sampled by multiplying the mass concentration of each oxygenate in the gasoline sampled by the oxygen molecular weight contribution of the oxygenate set forth in (3) below.

(2) All volume measurements required in R307-301-4 shall be adjusted to 60 degrees Fahrenheit.

(3) For the purposes of R307-301, the oxygen molecular weight contributions and specific gravities of oxygenates currently approved for use in the United States by the U.S. Environmental Protection Agency are the following:

TABLE

Specific Gravity and Weight Percent Oxygen of Common Oxygenates

oxygenate	weight fraction oxygen	specific gravity at 60 degrees F
ethyl alcohol	0.3473	0.7939
normal propyl alcohol	0.2662	0.8080
isopropyl alcohol	0.2662	0.7899
normal butyl alcohol	0.2158	0.8137
isobutyl alcohol	0.2158	0.8058
secondary butyl alcohol	0.2158	0.8114
tertiary butyl alcohol	0.2158	0.7922
methyl tertiary-butyl ether (MTBE)	0.1815	0.7460
tertiary amyl methyl ether (TAME)	0.1566	0.7752
ethyl tertiary-butyl ether (ETBE)	0.1566	0.7452

(4) Sampling, testing, and oxygen content calculation records shall be maintained for not less than two years after the end of each control period for which the information is required.

(5) Every refiner must determine the oxygen content of all gasoline produced for use in a control area by use of the methodology specified in (1) above. Documentation shall include the percent oxygen by weight, each type of oxygenate, the purity of each oxygenate, and the percent oxygenate by volume for each oxygenate. If a CAR or blender CAR alters the oxygen content of a gasoline intended for use within a control area during a control period, the CAR or blender CAR must determine the oxygen content of the gasoline by use of the methodology specified in (1) above.

R307-301-5. Alternative Compliance Options.

(1) Each CAR or blender CAR shall comply with the standard specified in R307-301-3 by means of the method set forth in either (2) or (3) below and shall specify which option will be used at the time of the registration required under R307-301-7.

(2) Compliance calculation on average basis.

(a) The CAR or blender CAR shall determine compliance with the standard specified in R307-301-3 for each averaging period and for each control area by:

(i) Calculating the total volume of gasoline labeled as oxygenated that is sold or dispensed, not including volume dispensed or sold to another CAR or blender CAR, for use in the control area which is the sum of:

(A) the volume of each separate batch or truckload of gasoline labeled as oxygenated that is sold or dispensed;

(B) minus the volume of each separate batch or truckload of gasoline labeled as oxygenated that is sold or dispensed for use in a different control area;

(C) minus the volume of each separate batch or truckload of gasoline labeled as oxygenated that is sold or dispensed for use in any non-control area.

(ii) Calculating the required total oxygen credit units. Multiply the total volume in gallons of gasoline labeled as oxygenated that is sold or dispensed for use in the control area, as determined by (i) above, by the oxygen content standard specified in R307-301-3(1).

(iii) Calculating the actual total oxygen credit units generated. The actual total oxygen credit units generated is the sum of the volume of each batch or truckload of gasoline labeled as oxygenated that was sold or dispensed for use in the control area as determined by (i) above, multiplied by the actual oxygen content by weight percent associated with each batch or truckload. If a batch or truckload of gasoline is blended under the substantially similar provisions of 42 U.S.C. 7545(f)(1) or under a waiver granted by the Environmental Protection Agency under the provisions of 42 U.S.C. 7545(f)(4), any extra volume of oxygenate in excess of the substantially similar criteria including the blending tolerance of 0.2% oxygen by weight, or in excess of the appropriate waiver, cannot be included in the calculation of oxygen credit units.

(iv) Calculating the adjusted actual total oxygen credit units. The adjusted actual total oxygen content units is the sum of the actual total oxygen credit units generated, as determined by (iii) above;

(A) plus the total oxygen credit units purchased, acquired through trade and received; and

(B) minus the total oxygen credit units sold,given away and provided through trade.

(v) Comparing the adjusted actual total oxygen credit units with the required total oxygen credit units. If the adjusted actual total content oxygen credit units is greater than or equal to the required total oxygen credit units, then the standard in R307-301-3 is met. If the adjusted actual total oxygen credit

units is less than the required total oxygen credit units, then the purchase of oxygen credit units is required in order to achieve compliance.

(vi) In transferring oxygen credit units, the transferor shall provide the transferee with information as to how the credits were calculated, including the volume and oxygen content by weight percent of the gasoline associated with the credits.

(b) To determine the oxygen credit units associated with each batch or truck load of oxygenated gasoline sold or dispensed into the control area, use the running weighted oxygen content (RWOC) of the tank from which and at the time the batch or truckload was received (see (c) below). In the case of batches or truckloads of gasoline to which oxygenate was added outside of the terminal storage tank from which it was received, use the weighted average of the RWOC and the oxygen content added as a result of the volume of the additional oxygenate added.

(c) Running weighted oxygen content. The RWOC accounts for the volume and oxygen content of all gasoline, including transfers to or from another CAR or blender CAR, which enters or leaves a terminal storage tank, and the oxygen contribution of all oxygenates which are added to the tank. The RWOC must be calculated each time gasoline enters or leaves the tank or whenever oxygenates are added to the tank. The RWOC is calculated weighing the following:

(i) the volume and oxygen content by weight percent of the gasoline in the storage tank at the beginning of the averaging period;

(ii) the volume and oxygen content by weight percent of gasoline entering the storage tank;

(iii) the volume and oxygen content by weight percent of gasoline leaving the storage tank; and

(iv) the volume, type, purity and oxygen content by weight percent of the oxygenates added to the storage tank.

(d) Credit transfers. Credits may be used in the compliance calculation in (2)(a)(i) above, provided that:

(i) the credits are generated in the same control area as they are used, i.e., no credits may be transferred between nonattainment areas;

(ii) the credits are generated in the same averaging period as they are used;

(iii) the ownership of credits is transferred only between CARs or blender CARs registered under the averaging compliance option specified in R307-301-7;

(iv) the credit transfer agreement is made no later than 30 working days, as defined in R307-301-1, after the final day of the averaging period in which the credits are generated; and

(v) the credits are properly created.

(e) Improperly created credits.

(i) No party may transfer any credits to the extent such a transfer would result in the transferor having a negative credit balance at the conclusion of the averaging period for which the credits were transferred. Any credits transferred in violation of

this paragraph are improperly created credits.

(ii) Improperly created credits may not be used, regardless of a credit transferee's good faith belief that the transferee was receiving valid credits.

(3) Compliance calculation on a per gallon basis. Each gallon of gasoline sold or dispensed by a CAR or blender CAR for use within each control area during the averaging period as defined in R307-301-1 shall have an oxygen content of at least the average oxygen content standard specified in R307-301-3(1). The maximum oxygen content which may be used to calculate compliance is the average oxygen content standard specified in R307-301-3. In addition, the CAR or blender CAR is prohibited from selling, trading or providing oxygen credits based on gasoline for which compliance is calculated under this alternative per-gallon method.

R307-301-6. Minimum Oxygen Content.

(1) Any gasoline which is sold or dispensed by a CAR, blender CAR, carrier, distributor, or reseller for use within a control area, as defined in R307-301-1, during the control period, shall contain not less than 2.0% oxygen by weight, or 2.6% oxygen by weight if the average oxygen content standard is 3.1%, unless it is sold or dispensed to another registered CAR or blender CAR. This requirement shall begin five working days, as defined in R307-301-1, before the applicable control period and shall apply until the end of that period.

(2) This requirement shall apply to all parties downstream of the CAR or blender CAR unless the gasoline will be sold or dispensed to another CAR or blender CAR. Any gasoline which is offered for sale, sold or dispensed to an ultimate consumer within a control area during a control period, as defined in R307-301-1, shall not contain less than 2.0% oxygen by weight, or 2.6% oxygen by weight if the average oxygen content standard is 3.1%. This requirement shall apply during the entire applicable control period.

(3) Every refiner must determine the oxygen content of all gasoline produced by use of the methodologies described in R307-301-4. This determination shall include the oxygen content by weight percent, each type of oxygenate, and percent oxygenate by volume for each type of oxygenate.

(4) Any gasoline sold or dispensed by a CAR or blender CAR for use within a control area and for which compliance is demonstrated using the method specified in (3) shall contain not less than the average oxygen content standard specified in R307-301-3(1), unless the gasoline is sold or dispensed to another registered CAR or blender CAR.

R307-301-7. Registration.

(1) All persons who sell or dispense gasoline directly or indirectly to persons who sell or dispense to ultimate consumers in a control area during a control period, including CARs, blender CARs, carriers, resellers, and distributors, shall petition the director for registration not less than one calendar month in

advance of such sales or transfers of gasoline into the control area during the control period.

(2) This petition for registration shall be on forms prescribed by the director and shall include the following information:

(a) the name and business address of the CAR, blender CAR, carrier, reseller, or distributor;

(b) in the case of a CAR, the address and physical location of each of the control area terminals from which the CAR operates;

(c) in the case of a blender CAR, the address and physical location of each control area oxygenate blending installation which is owned, leased, operated, or controlled, or supervised by a blender CAR;

(d) in the case of a carrier, distributor, or reseller, the names and addresses of retailers they supply;

(e) the address and physical location where documents which are required to be retained by R307-301 shall be kept; and

(f) in the case of a CAR or blender CAR, the compliance option chosen under provisions of R307-301-5 and a list of oxygenates which will be used.

(3) If the registration information previously supplied by a registered party under the provisions of (2)(a) through (e) becomes incomplete or inaccurate, that party shall submit updated registration information to the director within 15 working days as defined in R307-301-1. If the information required under (2)(f) is to change, the updated registration information must be submitted to the director before the change is made.

(4) No person shall participate in the oxygenated gasoline program as a CAR, blender CAR, carrier, reseller, or distributor until such person has been notified by the director that such person has been registered as a CAR, blender CAR, carrier, reseller, or distributor. Registration shall be valid for the time period specified by the director. The director shall issue each CAR, blender CAR, carrier, reseller, or distributor a unique identification number within one calendar month of the petition for registration.

R307-301-8. Recordkeeping.

(1) Records. All parties in the gasoline distribution network, as described below, shall maintain records containing compliance information enumerated or described below. These records shall be retained by the regulated parties for a period of two years after the end of each control period for which the information is required.

(a) Refiners. Refiners shall, for each separate quantity of gasoline produced or imported for use in a control area during a control period, maintain records containing the following information:

(i) results of the tests utilized to determine the types of oxygenates and percent by volume;

(ii) percent oxygenate content by volume of each oxygenate;

(iii) oxygen content by weight percent;

(iv) purity of each oxygenate;

(v) total volume of gasoline; and

(vi) the name and address of the party to whom each separate quantity of oxygenated gasoline was sold or transferred.

(b) Control area terminal operators. Persons who own, lease, operate or control gasoline terminals which serve control areas, or any truck- or terminal-lessee who subleases any portion of a leased tank or terminal to other persons, shall maintain a copy of the transfer document for each batch or truckload of gasoline received, purchased, sold or dispensed, and shall maintain records containing the following information:

(i) the owner of each batch of gasoline handled by each regulated installation if known, or the storage customer of record;

(ii) volume of each batch or truckload of gasoline going into or out of the terminal;

(iii) for all batches or truckloads of gasoline leaving the terminal, the RWOC of the batch or truckload;

(iv) for each oxygenate, the type of oxygenate, purity if available, and percent oxygenate by volume;

(v) oxygen content by weight percent of all batches or truckloads received at the terminal;

(vi) destination county of each tank truck sale or batch of gasoline as declared by the purchaser of the gasoline, if the destination is within Utah or Weber County;

(vii) the name and address of the party to whom the gasoline was sold or transferred and the date of the sale or transfer, and

(viii) the results of the tests for oxygenates, if performed, of each sale or transfer, and who performed the tests.

(c) CARs and blender CARs. Each CAR must maintain records containing the information listed in (b) above. Each CAR and blender CAR must maintain a copy of the transfer document for each shipment of gasoline received, purchased, sold or dispensed, as well as the records containing the following information:

(i) CAR or blender CAR identification number;

(ii) the name and address of the person from whom each shipment of gasoline was received, and the date when it was received;

(iii) data on each shipment of gasoline received, including:

(A) the volume of each shipment;

(B) type of oxygenate or oxygenates, and percentage by volume; and

(C) oxygen content by weight percent;

(iv) the volume of each receipt of bulk oxygenates;

(v) the name and address of the parties from whom bulk oxygenate was received;

(vi) the date and destination county of each sale of gasoline, if the destination is within Utah or Weber County;

(vii) data on each shipment of gasoline sold or dispensed including:

(A) the volume of each shipment;

(B) type of each oxygenate, and percent by volume for each

oxygenate, and

(C) oxygen content by weight percent;

(viii) documentation of the results of all tests done regarding the oxygen content of gasoline;

(ix) the names, addresses and CAR or blender CAR identification numbers of the parties to whom any gasoline was sold or dispensed, and the dates of these transactions; and

(x) in the case of CARs or blender CARs that elect to comply with the average oxygen content standard specified in R307-301-3 by means of the compliance option specified in R307-301-5(2) must also maintain records containing the following information:

(A) records supporting and demonstrating compliance with the averaging standard specified in R307-301-3; and

(B) for any credits bought, sold, traded, or transferred, the dates of the transactions, the names, addresses and CAR or blender CAR identification numbers of the CARs and blender CARs involved in the individual transactions, and the amount of credits transferred. Any credits transferred must be accompanied by a demonstration of how those credits were calculated. Adequate documentation that both parties have agreed to all credit transfers within 30 working days, as defined in R307-301-1, following the close of the averaging period must be included.

(d) Retailers and wholesale purchaser-consumers within a control area must maintain the following records:

(i) the names, addresses and CAR, blender CAR, carrier, distributor, or reseller identification numbers of the parties from whom all shipments of gasoline were purchased or received, and the dates when they were received and for each shipment of gasoline bought, sold or transported:

(A) the transfer document as specified in R307-301-8(3) and

(B) a copy of each contract for delivery of oxygenated gasoline and

(ii) data on every shipment of gasoline bought, sold or transported, including:

(A) volume of each shipment;

(B) for each oxygenate, the type, percent by volume and purity (if available);

(C) oxygen content by weight percent; and

(D) destination county of each sale or shipment of gasoline, if the destination is within Utah or Weber County; and

(iii) the name and telephone number of the person responsible for maintaining the records and the address where the records are located, if the location of the records is different from the station or outlet location.

(e) Carriers, distributors, resellers, terminal operators, and oxygenate blenders must keep a copy of the transfer document for each truckload or shipment of gasoline received, obtained, purchased, sold or dispensed.

R307-301-9. Reports.

(1) Each CAR or blender CAR that elects to comply with the average oxygen content standard specified in R307-301-3 by the

compliance option specified in R307-301-5(2) shall submit a report to the director for each control period for each control area as defined in R307-301-1 reflecting the compliance information detailed in R307-301-5(2).

(2) Each CAR or blender CAR that elects to comply with the average oxygen content standard specified in R307-301-3 shall submit a report to the director for each control period for each control area as defined in R307-301-1 reflecting the compliance information detailed in R307-301-5(3), including the volume of oxygenated gasoline sold or dispensed into each control area during the control period.

(3) The report is due 30 working days, as defined in R307-301-1, after the last day of the control period for which the information is required. The report shall be filed using forms provided by the director.

R307-301-10. Transfer Documents.

Each time that physical custody or title of gasoline destined for a control area changes hands other than when gasoline is sold or dispensed for use in motor vehicles at a retail outlet or wholesale purchaser-consumer installation, the transferor shall provide to the transferee, in addition to, or as part of, normal bills of lading, invoices, etc., a document containing information regarding that shipment. This document shall accompany every shipment of gasoline to a control area after it has been dispensed by a terminal, or the information shall be included in the normal paperwork which accompanies every shipment of gasoline. The information shall legibly and conspicuously contain the following information:

(1) the date of the transfer;

(2) the name, address, and CAR, blender CAR, carrier, distributor, or reseller identification number, if applicable, of the transferor;

(3) the name, address, and CAR, blender CAR, carrier, distributor, or reseller identification number, if applicable, of the transferee;

(4) the volume of gasoline which is being transferred;

(5) identification of the gasoline as oxygenated or, if non-oxygenated, with a statement labeling it as "Non-oxygenated gasoline, not for sale to ultimate consumer in a control area during a control period";

(6) the location of the gasoline at the time of the transfer;

(7) type of each oxygenate and percentage by volume for each oxygenate;

(8) oxygen content by weight percent; and

(9) for gasoline which is in the gasoline distribution network between the refinery or import installation and the control area terminal, for each oxygenate used, the type of oxygenate, its purity and percentage by volume and the oxygen content by weight percent.

R307-301-11. Prohibited Activities.

(1) During the control period, no refiner, oxygenate blender, CAR, blender CAR, control area terminal operator, carrier, distributor or reseller may manufacturer, sell, offer for sale, dispense, supply, offer for supply, store, transport, or cause the transport of:

(a) gasoline which contains less than 2.0% oxygen by weight, or 2.6% oxygen by weight if the average oxygen content standard is 3.1% oxygen, for use during the control period, in a control area unless clearly marked documents accompany the gasoline labeling it as "Non-oxygenated gasoline, not for sale to ultimate consumer in a control area during a control period"; or

(b) gasoline represented as oxygenated which has an oxygen content which is improperly stated in the documents which accompany such gasoline.

(2) No retailer or wholesale purchaser-consumer may dispense, offer for sale, sell or store, for use during the control period, gasoline which contains less than 2.0% oxygen by weight, or 2.6% oxygen by weight if the average oxygen content standard is 3.1% in a control area.

(3) No person may operate as a CAR or blender CAR or hold themselves out as such unless they have been properly registered by the director. No CAR or blender CAR may offer for sale or store, sell, or dispense gasoline, to any person not registered as a CAR or blender CAR for use in a control area, unless:

(a) the average oxygen content of the gasoline during the averaging period meets the standard established in R307-301-3; and

(b) the gasoline contains at least 2.0% oxygen by weight, or 2.6% oxygen by weight if the average oxygen content standard is 3.1% on a per-gallon basis.

(4) For terminals which sell or dispense gasoline intended for use in a control area during a control period, the terminal owner or operator may not accept gasoline into the terminal unless:

(a) transfer documentation containing the information specified in R307-301-8(3) accompanies the gasoline and

(b) the terminal owner or operator conducts a quality assurance program to verify the accuracy of this information.

(5) No person may sell or dispense non-oxygenated gasoline for use in any control area during the control period, unless:

(a) the non-oxygenated gasoline is segregated from oxygenated gasoline;

(b) clearly marked documents accompany the non-oxygenated gasoline labeling it as "non-oxygenated gasoline, not for sale to ultimate consumer in a control area during a control period," and

(c) the non-oxygenated gasoline is in fact not sold or dispensed to ultimate consumers during the control period in the control area.

(6) No named person may fail to comply with the recordkeeping and reporting requirements contained in R307-301-8 through 10.

(7) No person may sell, dispense or transfer oxygenated

gasoline, except for use by the ultimate consumer at a retail outlet or wholesale purchaser-consumer installation, without transfer documents which accurately contain the information required by R307-301-10).

(8) Liability for violations of the prohibited activities.

(a) Where the gasoline contained in any storage tank at any installation owned, leased, operated, controlled or supervised by any retailer, wholesale purchaser-consumer, distributor, reseller, carrier, refiner, or oxygenate blender is found in violation of the prohibitions described in (1)(a) or (2) above, the following persons shall be in violation:

(i) the retailer, wholesale purchaser-consumer, distributor, reseller, carrier, refiner, or oxygenate blender who owns, leases, operates, controls or supervises the installation where the violation is found; and

(ii) each oxygenate blender, distributor, reseller, and carrier who, downstream of the control area terminal, sold, offered for sale, dispensed, supplied, offered for supply, stored, transported, or caused the transportation of any gasoline which is in the storage tank containing gasoline found to be in violation.

(b) Where the gasoline contained in any storage tank at any installation owned, leased, operated, controlled or supervised by any retailer, wholesale purchaser-consumer, distributor, reseller, carrier, refiner, or oxygenate blender is found in violation of the prohibitions described in (1)(b) or (2) above, the following persons shall be in violation:

(i) the retailer, wholesale purchaser-consumer, distributor, reseller, carrier, refiner, or oxygenate blender who owns, leases, operates, controls or supervises the installation where the violation is found; and

(ii) each refiner, oxygenate blender, distributor, reseller, and carrier who manufactured, imported, sold, offered for sale, dispensed, supplied, offered for supply, stored, transported, or caused the transportation of any gasoline which is in the storage tank containing gasoline found to be in violation.

(9) Defenses for prohibited activities.

(a) In any case in which a refiner, oxygenate blender, distributor, reseller or carrier would be in violation under (1) above, that person shall not be in violation if they can demonstrate that they meet all of the following:

(i) that the violation was not caused by the regulated party or its employee or agent;

(ii) that refiner, oxygenate blender, distributor, reseller or carrier possesses documents which should accompany the gasoline, which contain the information required by R307-301-8; and

(iii) that refiner, oxygenate blender, distributor, reseller or carrier conducts a quality assurance sampling and testing program as described in (10) below.

(b) In any case in which a retailer or wholesale purchaser-consumer would be in violation under (2) above, the retailer or wholesale purchaser-consumer shall not be in violation if it can

demonstrate that they meet all of the following:

(i) that the violation was not caused by the regulated party or its employee or agent; and

(ii) that the retailer or wholesale purchaser-consumer possess documents which should accompany the gasoline, which contain the information required by R307-301-8 through 10.

(c) Where a violation is found at an installation which is operating under the corporate, trade or brand name of a refiner, that refiner must show, in addition to the defense elements required by (a) above, that the violation was caused by any of the following:

(i) an act in violation of law (other than the Clean Air Act or R307-301), or an act of sabotage or vandalism, or

(ii) the action of a reseller, distributor, oxygenate blender, carrier, or a retailer, or wholesale purchaser-consumer which is supplied by any of the persons listed in (a) above, in violation of a contractual undertaking imposed by the refiner designed to prevent such action, and despite periodic sampling and testing by the refiner to ensure compliance with such contractual obligation; or

(iii) the action of any carrier or other distributor not subject to a contract with the refiner but engaged by the refiner for transportation of gasoline, despite specification or inspection of procedures and equipment by the refiner or periodic sampling and testing which are reasonably calculated to prevent such action.

(d) In R307-301-8 through 11, the term "was caused" means that the party must demonstrate by specific showings or by direct evidence, that the violation was caused or must have been caused by another.

(10) Quality Assurance Program. In order to demonstrate an acceptable quality assurance program, a party must conduct periodic sampling and testing to determine if the oxygenated gasoline has oxygen content which is consistent with the product transfer documentation.

R307-301-12. Labeling of Pumps.

(1) Any person selling or dispensing oxygenated gasoline pursuant to R307-301 is required to label the fuel dispensing system with one of the following notices.

(a) "The gasoline dispensed from this pump is oxygenated and will reduce carbon monoxide pollution from motor vehicles. This fuel contains up to (specify maximum percent by volume) (specific oxygenate or specific combination of oxygenates in concentrations of at least one percent)."

(b) "The gasoline dispensed from this pump is oxygenated and will reduce carbon monoxide pollution from motor vehicles. This fuel contains up to (specify maximum percent by volume) (specific oxygenate or combination of oxygenates present in concentrations of at least one percent) from November 1 through February 29."

(2) The label letters shall be block letters of no less than 20-point type, at least 1/16 inch stroke (width of type), and of a

color that contrasts with the label background color. The label letters that specify maximum percent oxygenate by volume and that disclose the specific oxygenate shall be at least 1/2 inch in height, 1/16 inch stroke (width of type).

(3) The label must be affixed to the upper one-half of the vertical surface of the pump on each side with gallonage and dollar amount meters from which gasoline can be dispensed and must be clearly readable to the public.

(4) The retailer or wholesale purchaser-consumer shall be responsible for compliance with R307-301-12.

R307-301-13. Inspections.

Inspections of registered parties, control area retailers, refineries, control area terminals, oxygenate blenders and control area wholesale purchaser-consumers may include the following:

(1) physical sampling, testing, and calculation of oxygen content of the gasoline as specified in R307-301-4;

(2) review of documentation relating to the oxygenated gasoline program, including but not limited to records specified in R307-301-8; and

(3) in the case of control area retailers and wholesale purchaser-consumers, verification that gasoline dispensing pumps are labeled in accordance with R307-301-12.

R307-301-14. Public and Industry Education Program.

The director shall provide to the affected public, mechanics, and industry information regarding the benefits of the program and other issues related to oxygenated gasoline.

KEY: air pollution control, motor vehicles, gasoline, petroleum
Date of Enactment or Last Substantive Amendment: May 18, 2004
Notice of Continuation: February 1, 2012
Authorizing, and Implemented or Interpreted Law: 19-2-101; 19-2-104

R307. Environmental Quality, Air Quality.
R307-302. Solid Fuel Burning Devices in Box Elder, Cache, Davis, Salt Lake, Tooele, Utah, and Weber Counties.
R307-302-1. Purpose and Definitions.

(1) R307-302 establishes emission standards for fireplaces and solid fuel burning devices used in residential, commercial, institutional and industrial facilities and associated outbuildings used to provide comfort heating.

(2) The following additional definitions apply to R307-302:

"Sole source of heat" means the solid fuel burning device is the only available source of heat for the entire residence, except for small portable heaters.

"Solid fuel burning device" means fireplaces, wood stoves and boilers used for burning wood, coal, or any other nongaseous and non-liquid fuel, both indoors and outdoors, but excluding outdoor wood boilers, which are regulated under R307-208.

R307-302-2. Applicability.

(1) R307-302-3 and R307-302-6 shall apply to any solid fuel burning device in PM10 and PM2.5 nonattainment and maintenance areas as defined in 40 CFR 81.345 (July 1, 2011) and geographically described as all regions of Salt Lake and Davis counties; all portions of the Cache Valley; all regions in Weber and Utah counties west of the Wasatch mountain range; in Box Elder County, from the Wasatch mountain range west to the Promontory mountain range and south of Portage; and in Tooele County, from the northernmost part of the Oquirrh mountain range to the northern most part of the Stansbury mountain range and north of Route 199.

(2) R307-302-4 shall apply only within the city limits of Provo in Utah County.

(3) R307-302-5 shall apply in all portions of Box Elder, Cache, Davis, Salt Lake, Tooele, Utah and Weber counties.

(4) The following exemptions apply to R307-302:

(a) R307-302 does not apply to restaurant and institutional food preparation.

(b) R307-302 does not apply to commercial and industrial boilers subject to an approval order issued under R307-401.

(c) R307-302-3 does not apply to sources located above 7,000 feet in elevation within Box Elder, Davis, Salt Lake, Tooele, Utah and Weber counties.

(d) R307-302 does not apply to firefighting training devices that meet the definition of a solid fuel burning device.

R307-302-3. No-Burn Periods for Fine Particulate.

(1) By June 1, 2015, sole sources of residential heating using solid fuel burning devices must be registered with the director in order to be exempt during mandatory no-burn periods.

(2) When the ambient concentration of PM10 measured by the monitors in Salt Lake, Davis, Weber, or Utah counties reaches the level of 120 micrograms per cubic meter and the forecasted weather for the specific area includes a temperature inversion which is predicted to continue for at least 24 hours, the director will issue a public announcement and will distribute such announcement to the local media notifying the public that a mandatory no-burn period for solid fuel burning devices and fireplaces is in effect. The mandatory no-burn periods will only apply to those areas or counties impacting the real-time monitoring site registering the 120 micrograms per cubic meter concentration. Residents, commercial, institutional and industrial facilities of the affected areas shall not use solid fuel burning devices or fireplaces except those that are the sole source of heat for the entire residence and registered with the director.

(3) PM10 Contingency Plan. If the PM10 Contingency Plan described in Section IX, Part A, of the State Implementation Plan has been implemented, the trigger level for no-burn periods as specified in R307-302-3(2) will be 110 micrograms per cubic meter for that area where the PM10 Contingency Plan has been

implemented.

(4) When the ambient concentration of PM2.5 measured by monitors in Box Elder, Cache, Davis, Salt Lake, Tooele, Utah or Weber counties are forecasted to reach or exceed 25 micrograms per cubic meter, the director will issue a public announcement to provide broad notification that a mandatory no-burn period for solid fuel burning devices and fireplaces is in effect. The mandatory no-burn periods will only apply to those counties identified by the director. Residents, commercial, institutional and industrial facilities within the geographical boundaries described in R307-302-2(1) shall not use solid fuel burning devices or fireplaces except those that are the sole source of heat for the entire residence and registered with the director.

(5) PM2.5 Contingency Plan. If the PM2.5 contingency plan of the State Implementation Plan has been implemented, the trigger level for no-burn periods as specified in R307-302-3(4) shall be 15 micrograms per cubic meter for the area where the PM2.5 contingency plan has been implemented.

R307-302-4. No-Burn Periods for Carbon Monoxide.

(1) Beginning on November 1 and through March 1, the director will issue a public announcement and will distribute such announcement to the local media notifying the public that a mandatory no-burn period for solid fuel burning devices and fireplaces is in effect when the running eight-hour average carbon monoxide concentration as monitored by the state at 4:00 PM reaches a value of 6.0 ppm or more.

(2) In addition to the conditions contained in R307-302-4(1), the director may use meteorological conditions to initiate a no-burn period. These conditions are:

(a) A national weather service forecasted clearing index value of 250 or less;

(b) Forecasted wind speeds of three miles per hour or less;

(c) Passage of a vigorous cold front through the Wasatch Front; or

(d) Arrival of a strong high pressure system into the area.

(3) During the no-burn periods specified in R307-302-4(1) and (2), residents, commercial, institutional and industrial facilities in Provo City shall not use solid fuel burning devices or fireplaces except those that are the sole source of heat for the entire residence and are registered with the director or the local health district office.

R307-302-5. Opacity for Heating Appliances.

Except during no-burn periods as required by R307-302-3 and 4, visible emissions from solid fuel burning devices and fireplaces shall be limited to a shade or density no darker than 20% opacity as measured by EPA Method 9, except for the following:

(1) An initial fifteen minute start-up period, and

(2) A period of fifteen minutes in any three-hour period in which emissions may exceed the 20% opacity limitation for refueling.

R307-302-6. Prohibition.

(1) Beginning September 1, 2013, no person shall sell, offer for sale, supply, install, or transfer a wood burning stove that is not EPA Phase 2 certified or a fireplace that is not EPA qualified.

(2) Ownership of a non EPA Phase 2 certified stove within a residential dwelling installed prior to March 6, 2014 may be transferred as part of a real estate transaction, so long as the unit remains intact within the real property of sale.

KEY: air pollution, fireplaces, stoves, solid fuel burning
Date of Enactment or Last Substantive Amendment: February 4, 2015
Notice of Continuation: May 6, 2015
Authorizing, and Implemented or Interpreted Law: 19-2-101; 19-2-104

R307. Environmental Quality, Air Quality.
R307-303. Commercial Cooking.
R307-303-1. Purpose.

The purpose of this rule is to reduce volatile organic compound (VOC) and PM2.5 emissions from commercial cooking equipment.

R307-303-2. Applicability.

R307-303 shall apply to Box Elder, Cache, Davis, Salt Lake, Tooele, Utah and Weber counties.

R307-303-3. Definitions.

"Catalytic oxidizer" means an emission control device that employs a catalyst fixed onto a substrate to oxidize air pollutants in an exhaust stream.

"Chain-driven charbroiler" means a semi-enclosed charbroiler designed to mechanically move food on a grated grill through the broiler.

"Charbroiler" means a cooking device composed of a grated grill and a heat source, where food resting on the grated grill cooks as the food receives direct heat from the heat source or a radiant surface.

R307-303-4. Performance Standards and Recordkeeping.

(1) Owners or operators of all chain-driven charbroilers in food service establishments shall install, maintain and operate a catalytic oxidizer.

(2) Any emission control device installed and operated under this rule shall be operated, cleaned, and maintained in accordance with the manufacturer's specifications. Manufacturer specifications for all emission controls must be maintained onsite.

(3) The owner or operator shall maintain on the premises of the food service establishment records of each of the following:

(a) The date of installation of the emission control device;

(b) When applicable, the date of the catalyst replacement; and

(c) For a minimum of five years, the date, time, and a brief description of all maintenance performed on the emission control device, including, but not limited to, preventative maintenance, breakdown repair, and cleaning.

(4) Opacity of exhaust stream shall not exceed 20% opacity using EPA Method 9.

KEY: commercial cooking, charbroilers, PM2.5, VOC
Date of Enactment or Last Substantive Amendment: December 15, 2015
Authorizing, and Implemented or Interpreted Law: 19-2-101

R307. Environmental Quality, Air Quality.
R307-305. Nonattainment and Maintenance Areas for PM10: Emission Standards.
R307-305-1. Purpose.

This rule establishes emission standards and work practices for sources located in PM10 nonattainment and maintenance areas to meet the reasonably available control measures requirement in section 189(a)(1)(C) of the Act.

R307-305-2. Applicability.

The requirements of R307-305 apply to the owner or operator of any source that is listed in Section IX, Part H of the state implementation plan or located in a PM10 nonattainment or maintenance area.

R307-305-3. Visible Emissions.

(1) Visible emissions from existing installations except diesel engines shall be of a shade or density no darker than 20% opacity. Visible emissions shall be measured using EPA Method 9.

(2) No owner or operator of a gasoline engine or vehicle shall allow, cause or permit the emissions of visible pollutants.

(3) Emissions from diesel engines, except locomotives, shall be of a shade or density no darker than 20% opacity, except for starting motion no farther than 100 yards or for stationary operation not exceeding three minutes in any hour.

(4) Visible emissions exceeding the opacity standards for short time periods as the result of initial warm-up, soot blowing, cleaning of grates, building of boiler fires, cooling, etc., caused by start-up or shutdown of a facility, installation or operation, or unavoidable combustion irregularities which do not exceed three minutes in length (unavoidable combustion irregularities which exceed three minutes in length must be handled in accordance with R307-107), shall not be deemed in violation provided that the director finds that adequate control technology has been applied. The owner or operator shall minimize visible and non-visible emissions during start-up or shutdown of a

facility, installation, or operation through the use of adequate control technology and proper procedures.

R307-305-4. Particulate Emission Limitations and Operating Parameters (PM10).

Any source with emission limits included in Section IX, Part H, of the Utah state implementation plan shall comply with those emission limitations and operating parameters. Specific limitations will be set by the director, through an approval order issued under R307-401, for installations within a source that do not have limitations specified in the state implementation plan.

R307-305-5. Compliance Testing (PM10).

Compliance testing for PM10, sulfur dioxide, and oxides of nitrogen emission limitations shall be done in accordance with Section IX, Part H of the state implementation plan. PM10 compliance shall be determined from the results of EPA test method 201 or 201a. A backhalf analysis shall be performed for inventory purposes for each PM10 compliance test in accordance with Method 202, or other appropriate EPA approved reference method.

R307-305-6. Automobile Emission Control Devices.

Any person owning or operating any motor vehicle or motor vehicle engine registered in the State of Utah on which is installed or incorporated a system or device for the control of crankcase emissions or exhaust emissions in compliance with the Federal motor vehicle rules, shall maintain the system or device in operable condition and shall use it at all times that the motor vehicle or motor vehicle engine is operated. No person shall remove or make inoperable within the State of Utah the system or device or any part thereof, except for the purpose of installing another system or device, or part thereof, which is equally or more effective in reducing emissions from the vehicle to the atmosphere.

R307-305-7. Compliance Schedule for New Nonattainment Areas.

The provisions of R307-305 shall apply to the owner or operator of a source that is located in any new PM10 nonattainment area 180 days after the area is officially designated a nonattainment area for PM10 by the Environmental Protection Agency. Provisions of R307-201 shall continue to apply to the owner or operator of a source during this transition period.

KEY: air pollution, particulate matter, PM10, PM 2.5
Date of Enactment or Last Substantive Amendment: December 15, 2015
Notice of Continuation: February 5, 2015
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)

R307. Environmental Quality, Air Quality.
R307-306. PM10 Nonattainment and Maintenance Areas: Abrasive

Blasting.

R307-306-1. Purpose.

This rule establishes requirements that apply to abrasive blasting operations in PM10 nonattainment and maintenance areas.

R307-306-2. Definitions.

The following additional definitions apply to R307-306.

"Abrasive Blasting" means the operation of cleaning or preparing a surface by forcibly propelling a stream of abrasive material against the surface.

"Abrasive Blasting Equipment" means any equipment used in abrasive blasting operations.

"Abrasives" means any material used in abrasive blasting operations including but not limited to sand, slag, steel shot, garnet or walnut shells.

"Confined Blasting" means any abrasive blasting conducted in an enclosure that significantly restricts air pollutants from being emitted to the ambient atmosphere, including but not limited to shrouds, tanks, drydocks, buildings and structures.

"Hydroblasting" means any abrasive blasting using high pressure liquid as the propelling force.

"Multiple Nozzles" means a group of two or more nozzles used for abrasive cleaning of the same surface in such close proximity that their separate plumes are indistinguishable.

"Unconfined Blasting" means any abrasive blasting that is not confined blasting as defined above.

"Wet Abrasive Blasting" means any abrasive blasting using compressed air as the propelling force and sufficient water to minimize the plume.

R307-306-3. Applicability.

R307-306 applies to any person who operates abrasive blasting equipment in a PM10 nonattainment or maintenance area, or to sources listed in Section IX, Part H of the state implementation plan.

R307-306-4. Visible Emission Standard.

(1) Except as provided in (2) below, visible emissions from abrasive blasting operations shall not exceed 20% opacity except for an aggregate period of three minutes in any one hour.

(2) If the abrasive blasting operation complies with the performance standards in R307-306-6, visible emissions from the operation shall not exceed 40% opacity, except for an aggregate period of 3 minutes in any one hour.

R307-306-5. Visible Emission Evaluation Techniques.

(1) Visible emissions shall be measured using EPA Method 9. Visible emissions from intermittent sources shall use procedures similar to Method 9, but the requirement for observations to be made at 15 second intervals over a six minute period shall not apply.

(2) Visible emissions from unconfined blasting shall be

measured at the densest point of the emission after a major portion of the spent abrasive has fallen out at a point not less than five feet nor more than twenty-five feet from the impact surface from any single abrasive blasting nozzle.

(3) An unconfined blasting operation that uses multiple nozzles shall be considered a single source unless it can be demonstrated by the owner or operator that each nozzle, measured separately, meets the visible emission standards in R307-306-4.

(4) Emissions from confined blasting shall be measured at the densest point after the air pollutant leaves the enclosure.

R307-306-6. Performance Standards.

(1) To satisfy the requirements of R307-306-4(2), the abrasive blasting operation shall use at least one of the following performance standards:

(a) confined blasting;

(b) wet abrasive blasting;

(c) hydroblasting; or

(d) unconfined blasting using abrasives as defined in (2) below.

(2) Abrasives.

(a) Abrasives used for dry unconfined blasting referenced in (1) above shall comply with the following performance standards:

(i) Before blasting, the abrasive shall not contain more than 1% by weight material passing a #70 U.S. Standard sieve.

(ii) After blasting the abrasive shall not contain more than 1.8% by weight material 5 microns or smaller.

(b) Abrasives reused for dry unconfined blasting are exempt from (a)(ii) above, but must conform with (a)(i) above.

(3) Abrasive Certification. Sources using the performance standard of (1)(d) above to meet the requirements of R307-306-4(2) must demonstrate they have obtained abrasives from a supplier who has certified (submitted test results) to the director at least annually that such abrasives meet the requirements of (2) above.

R307-306-7. Compliance Schedule.

The provisions of R307-306 shall apply in any new PM10 nonattainment area 180 days after the area is officially designated a nonattainment area for PM10 by the Environmental Protection Agency. Provisions of R307-206 shall continue to apply to the owner or operator of a source during this transition period.

KEY: air pollution, abrasive blasting, PM10
Date of Enactment or Last Substantive Amendment: December 15, 2015
Notice of Continuation: February 5, 2015
Authorizing, and Implemented or Interpreted Law: 19-2-101(1)(a)

R307. Environmental Quality, Air Quality.

R307-307. Road Salting and Sanding.

R307-307-1. Applicability.

R307-307 applies to all persons who apply salt or abrasives such as crushed slag and sand to roads in PM10 and PM2.5 nonattainment and maintenance areas as defined in 40 CFR 81.345 (July 1, 2011) and geographically described as all regions of Davis, Salt Lake, and Utah counties; all portions of the Cache Valley; all regions in Weber County west of the Wasatch mountain range; in Box Elder County, from the Wasatch mountain range west to the Promontory mountain range and south of Portage; and in Tooele County, from the northernmost part of the Oquirrh mountain range to the northern most part of the Stansbury mountain range and north of Route 199.

R307-307-2. Definitions.

The following additional definition applies to R307-307:

"Arterial roadway" has the same meaning as outlined in U.S. DOT Federal Highway Administration Publication No. FHWA-ED-90-006, Revised March 1989, "Highway Functional Classification: Concepts, Criteria, and Procedures" as interpreted by Utah Department of Transportation and shown in the following maps: Salt Lake Urbanized Area, Provo-Orem Urbanized Area, and Ogden Urbanized Area (1992 or later).

R307-307-3. Records.

(1) Any person who applies salt or abrasives such as crushed slag and sand to roads in PM10 and PM2.5 nonattainment and maintenance areas shall maintain records of the material applied.

(a) For salt, the records shall include the quantity applied, the percent by weight of insoluble solids in the salt, and the percentage of the material that is sodium chloride (Nacl), magnesium chloride (MgCl2), calcium chloride (CaCl2), or potassium chloride (KCl).

(b) For abrasives such as sand or crushed slag, the records shall include the quantity applied and the percent by weight of fine material which passes the number 200 sieve in a standard gradation analysis.

(2) All records shall be maintained for a period of at least two years, and the records shall be made available to the director or his designated representative upon request.

R307-307-4. Content.

(1) After October 1, 1993, any salt applied to roads in Salt Lake, Davis, or Utah counties shall be at least 92% NaCl, MgCl2, CaCl2, and/or KCl.

(2) After January 1, 2014, any salt applied to roads in all other areas specified in R307-307-1 shall be no less than 92% by weight NaCl, MgCl2, CaCl2, and/or KCl.

R307-307-5. Alternatives.

(1) After October 1, 1993, any person who applies an abrasive such as crushed slag, or sand or who applies salt that is

less than 92% by weight NaCl, MgCl2, CaCl2 and/or KCl to roads in Salt Lake, Davis, or Utah Counties shall either:

(a) demonstrate to the director that the material applied has no more PM10 or PM2.5 emissions than salt which is at least 92% NaCl, MgCl2, CaCl2, and/or KCl; or

(b) vacuum sweep every arterial roadway (principal and minor) to which the material was applied within three days of the end of the storm for which the application was made.

(2) After January 1, 2014,any person who applies an abrasive such as crushed slag or sand, or who applies salt that is less than 92% by weight NaCl, MgCl2, and/or CaCl2 to roads in all other areas specified in R307-307-1 shall comply with the requirements of either R307-307-5(1)(a) or (b).

R307-307-6. Exemptions.

(1) In the interest of public safety, any person who applies an abrasive such as crushed slag or sand to arterial roadways because salt alone would not ensure safe driving conditions due to steepness of grade or extreme weather is exempt from the requirements in R307-307-4.

(2) The following roads are specifically excluded from the requirements of R307-307-5(1):

(a) all canyon roads;

(b) the portion of Interstate 15 near Point of the Mountain;

(c) I-15, from Exit 385 northward to the Idaho Border;

(d) I-84 from Exit 17 eastward to Exit 40 at Tremonton;

(e) SR-39 from Harrison Boulevard eastward into Ogden Canyon;

(f) I-84 from the junction with US-89 eastward into Weber Canyon;

(g) I-80 near Black Rock, from the junction with SR-36 to the junction with SR-202;

(h) SR-199; and

(i) SR-196.

KEY: air pollution, roads, particulate
Date of Enactment or Last Substantive Amendment: February 1, 2013
Notice of Continuation: February 5, 2015
Authorizing, and Implemented or Interpreted Law: 19-2-104

R307. Environmental Quality, Air Quality.
R307-309. Nonattainment and Maintenance Areas for PM10 and PM2.5: Fugitive Emissions and Fugitive Dust.
R307-309-1. Purpose.

This rule establishes minimum work practices and emission standards for sources of fugitive emissions and fugitive dust.

R307-309-2. Definitions.

The following additional definition applies to R307-309:

"Material" means sand, gravel, soil, minerals, and other matter that may create fugitive dust.

R307-309-3. Applicability.

(1) Applicability. R307-309 applies to all sources of fugitive dust and fugitive emissions located in PM10 and PM2.5 nonattainment and maintenance plan areas as defined in 40 CFR 81.345 (July 1, 2011), except as specified in R307-309-3(2).

(2) Exemptions.

(a) Agriculturally derived fugitive dust sources, including agricultural or horticultural activities specified in 19-2-114 (1)-(3) are exempt from the provisions of R307-309.

(b) Any activity subject to R307-307 is exempt from R307-309-7.

R307-309-4. Fugitive Emissions.

(1) Fugitive emissions from any source shall not exceed 15% opacity.

(2) Opacity observations of fugitive emissions from stationary sources shall be conducted in accordance with EPA Method 9.

(3) For intermittent sources and mobile sources, opacity observations shall be conducted using Method 9; however, the requirement for observations to be made at 15 second intervals over a six-minute period shall not apply.

R307-309-5. General Requirements for Fugitive Dust.

(1) Except as provided in R307-309-5(3), opacity caused by fugitive dust shall not exceed:

(a) 10% at the property boundary; and

(b) 20% on site

(2) Any person owning or operating a new or existing source of fugitive dust one-quarter acre or greater in size shall submit a fugitive dust control plan to the director in accordance with R307-309-6.

(3) Opacity in R307-309-5(1) shall not apply when the wind speed exceeds 25 miles per hour if the owner or operator has implemented, and continues to implement, the accepted fugitive dust control plan in R307-309-6 and administers at least one of the following contingency measures:

(a) Pre-event watering;

(b) Hourly watering;

(c) Additional chemical stabilization; or

(d) Cease or reduce fugitive dust producing operations.

(e) Other contingency measure approved by the director.

(4) Wind speed may be measured by a hand-held anemometer or equivalent device.

(5) Opacity observations of fugitive dust from any source shall be measured at the densest point of the plume.

(a) For mobile sources, visible emissions shall be measured at a point not less than 1/2 vehicle length behind the vehicle and not less than 1/2 the height of the vehicle.

(b) Opacity observations of emissions from stationary sources shall be measured in accordance with EPA Method 9.

(c) For intermittent sources, opacity observations shall be conducted using Method 9; however, the requirement for observations to be made at 15 second intervals over a six-minute period shall not apply.

R307-309-6. Fugitive Dust Control Plan.

(1) Any person owning or operating a new or existing source of fugitive dust, including storage, hauling or handling operations, clearing or leveling of land one-quarter acre or greater in size, earthmoving, excavation, moving trucks or construction equipment over cleared land one-quarter acre or greater in size or access haul roads, or demolition activities including razing homes, buildings or other structures, shall submit a fugitive dust control plan on a form provided by the director or another format approved by the director.

(a) A fugitive dust control plan that has been submitted to and accepted by the director prior to December 3, 2012, will fulfill the requirements of R307-309-6.

(2) Activities regulated by R307-309 shall not commence before the fugitive dust control plan is approved by the director.

(a) Successful completion of the web-based division-sponsored fugitive dust control plan tool shall constitute plan approval.

(b) Hard copy fugitive control plan submission must be reviewed and approved by the director prior to commencing activities regulated by R307-309.

(3) Sources with an existing fugitive dust control plan who make site modifications that result in emission changes shall submit an updated fugitive dust control plan.

(4) Minimum fugitive dust control plan requirements. At a minimum, a fugitive dust control plan must include the following requirements as they apply to a source:

(a) Backfilling.

(i) Stabilize backfill material when not actively handling.

(ii) Stabilize backfill material during handling.

(iii) Stabilize soil at completion of backfilling activity.

(iv) Stabilize material while using pipe padder equipment.

(b) Blasting.

(i) Stabilize surface soils where drills, support equipment and vehicles will operate.

(ii) Stabilize soil during blast preparation activities.

(iii) Stabilize soil after blasting.

(c) Clearing.

(i) Stabilize surface soils where support equipment and vehicles will operate.

(ii) Stabilize disturbed soil immediately after clearing and grubbing activities.

(iii) Stabilize slopes at completion of activity.

(d) Clearing forms, foundations and slabs.

(i) Use water, sweeping and vacuum to clear.

(e) Crushing.

(i) Stabilize surface soils where support equipment and

vehicles will operate.

(ii) Stabilize material before, during and after crushing.

(iii) Traffic mileage or speed controls.

(iv) Minimize transfer height.

(f) Cut and fill.

(i) Stabilize surface soils where support equipment and vehicles will operate.

(ii) Pre-water soils.

(iii) Stabilize soil during and after cut activities.

(g) Demolition-implosion.

(i) Stabilize surface area where support equipment and vehicles will be operated.

(ii) Stabilize demolition debris immediately following blast and safety clearance.

(iii) Stabilize and clean surrounding area immediately following blast and safety clearance.

(h) Demolition-mechanical and manual.

(i) Stabilize surface areas where support equipment and vehicles will operate.

(ii) Stabilize demolition debris during handling.

(iii) Stabilize debris following demolition.

(iv) Stabilize surrounding area following demolition.

(i) Disturbed soil.

(i) Limit disturbance of soils where possible.

(ii) Stabilize and maintain stability of all disturbed soil throughout construction site.

(j) Hauling materials.

(i) Limit visible dust opacity from vehicular operations.

(ii) Stabilize materials during transport on site.

(iii) Clean wheels and undercarriage of haul trucks prior to leaving construction site.

(k) Paving subgrade preparation.

(i) Stabilize adjacent disturbed soils following paving activities by applying water, chemical stabilizer and/or synthetic cover.

(l) Sawing and cutting materials.

(i) Limit visible emissions using water or vacuum.

(m) Screening.

(i) Stabilize surface soils where support equipment and vehicles will operate.

(ii) Pre-treat material prior to screening.

(iii) Stabilize material during screening.

(iv) Stabilize material and surrounding area immediately after screening.

(v) Minimize transfer height.

(n) Staging areas.

(i) Limit visible dust opacity from vehicular operations.

(ii) Stabilize staging area soils during use.

(iii) Stabilize staging area soils at project completion.

(o) Stockpiling.

(i) Stabilize stockpile materials during and after handling.

(ii) Stabilize surface soils where support equipment and

vehicles will operate.

(p) Trackout prevention and cleanup.

(i) Install and maintain trackout control devices in effective condition at all access points where paved and unpaved access or travel routes intersect.

(q) Traffic on unpaved routes and parking areas.

(i) Stabilize surface soils where support equipment and vehicles will operate.

(r) Trenching.

(i) Stabilize surface soils where trenching equipment, support equipment and vehicles will operate.

(ii) Stabilize soils after trenching.

(s) Truck loading.

(i) Empty loader bucket slowly and keep loader bucket close to the truck to minimize the drop height while dumping.

(ii) Stabilize surface soils where support equipment and vehicles will operate.

(5) The fugitive dust control plan must include contact information, site address, total area of disturbance, expected start and completion dates, identification of dust suppressant and plan certification by signature of a responsible person.

R307-309-7. Storage, Hauling and Handling of Aggregate Materials.

Any person owning, operating or maintaining a new or existing material storage, handling or hauling operation shall prevent, to the maximum extent possible, material from being deposited onto any paved road other than a designated deposit site. Any such person who deposits materials that may create fugitive dust on a public or private paved road shall clean the road promptly.

R307-309-8. Construction and Demolition Activities.

Any person engaging in clearing or leveling of land with an area of one-quarter acre or more, earthmoving, excavating, construction, demolition, or moving trucks or construction equipment over cleared land or access haul roads shall prevent, to the maximum extent possible, material from being deposited onto any paved road other than a designated deposit site. Any such person who deposits materials that may create fugitive dust on a public or private paved road shall clean the road promptly.

R307-309-9. Roads.

(1) Any person responsible for construction or maintenance of any existing road or having right-of-way easement or possessing the right to use the same whose activities result in fugitive dust from the road shall minimize fugitive dust to the maximum extent possible. Any such person who deposits materials that may create fugitive dust on a public or private paved road shall clean the road promptly.

(2) Unpaved Roads. Any person responsible for construction or maintenance of any new or existing unpaved road shall prevent, to the maximum extent possible, the deposit of material from the unpaved road onto any intersecting paved road during construction

or maintenance. Any person who deposits materials that may create fugitive dust on a public or private paved road shall clean the road promptly.

R307-309-10. Mining Activities.

(1) Fugitive dust, construction activities, and roadways associated with mining activities are regulated under the provisions of R307-309-10 and not by R307-309-6,7, 8, 9, and 11.

(2) Any person who owns or operates a mining operation shall minimize fugitive dust as an integral part of site preparation, mining activities, and reclamation operations.

(3) The fugitive dust control measures to be used shall include:

(a) Periodic watering of unpaved roads or;

(b) Use of chemical stabilizers on unpaved roads or;

(c) Paving of roads.

(d) Immediate removal of coal, rock minerals, soil, and other dust-forming debris from roads and frequent scraping and compaction of unpaved roads to stabilize the road surface.

(e) Restricting the speed of vehicles in and around the mining operation,

(f) Revegetating, mulching, or otherwise stabilizing the surface of all areas adjoining roads that are a source of fugitive dust.

(g) Restricting the travel of vehicles on other than established roads.

(h) Enclosing, covering, watering, or otherwise treating loaded haul trucks and railroad cars, to minimize loss of material to wind and spillage.

(i) Substitution of conveyor systems for haul trucks and covering of conveyor systems when conveyed loads are subject to wind erosion.

(j) Minimizing the area of disturbed land.

(k) Prompt revegetation of regraded lands.

(l) Planting of special windbreak vegetation at critical points in the permit area.

(m) Control of dust from drilling, using water sprays, hoods, dust collectors or other controls approved by the director.

(n) Restricting the areas to be blasted at any one time.

(o) Reducing the period of time between initially disturbing the soil and revegetating or other surface stabilization.

(p) Restricting fugitive dust at spoil and coal transfer and loading points.

(q) Control of dust from storage piles through use of enclosures, covers, or stabilization and other equivalent methods or techniques as approved by the director, or

(r) Other techniques as determined necessary by the director.

(4) Owners or operators shall submit a fugitive dust control plan to the director on a form provided by the director or another format approved by the director.

(a) Activities regulated by R307-309-10 shall not commence

before the fugitive dust control plan is approved by the director.

(b) A fugitive dust control plan that has been submitted to and accepted by the director prior to December 3, 2012, will fulfill the requirements of R307-309-10.

(c) Sources with an existing fugitive dust control plan that make site modifications that result in emission changes shall submit an updated fugitive dust control plan.

(d) The fugitive dust control plan shall include site location, contact information, plot plan, total area of land to be disturbed, sources of fugitive dust, types of dust suppressants, high wind contingency measures, treatments for preventing trackout controls and plan certification by signature of a responsible person.

R307-309-11. Tailings Piles and Ponds.

(1) Fugitive dust, construction activities, and roadways associated with tailings piles and ponds are regulated under the provisions of R307-309-11 and not by R307-309-6,7, 8, 9, and 10.

(2) Any person owning or operating an existing tailings operation where fugitive dust results from grading, excavating, depositing, or natural erosion or other causes in association with such operation shall take steps to minimize fugitive dust from such activities. Such controls shall include:

(a) Watering or;

(b) Chemical stabilization or;

(c) Synthetic covers or;

(d) Vegetative covers or;

(e) Wind breaks or;

(f) A combination of R307-309-11(2)(a)-(e);

(g) Minimizing the area of disturbed tailings;

(h) Restricting the speed of vehicles in and around the tailings operation; or

(h) Other equivalent methods or techniques which may be approvable by the director.

(3) Owners or operators shall submit a fugitive dust control plan to the director.

(a) Activities regulated by R307-309-11 shall not commence before the fugitive dust control plan is approved by the director.

(b) A fugitive dust control plan that has been submitted to and accepted by the director prior to December 3, 2012, will fulfill the requirements of R307-309-11.

(c) Sources with an existing fugitive dust control plan that make site modifications that result in emission changes shall submit an updated fugitive dust control plan.

(d) The fugitive dust control plan shall include site location, contact information, plot plan, total area of land to be disturbed, sources of fugitive dust, types of dust suppressants, high wind contingency measures, treatments for preventing trackout controls and plan certification by signature of a responsible person.

R307-309-12. Record Keeping.

All sources subject to R307-309-5(2) and (3) shall maintain records demonstrating compliance with R307-309. These records shall be available to the director upon request.

R307-309-13. Compliance Schedule.

(1) All sources within the applicable portions of Salt Lake County, Utah County and the city of Ogden shall be in compliance with R307-309 upon the effective date of this rule.

(2) All sources within the remaining areas described in R307-309-3(1) shall be in compliance with R307-309-4 through 9 and R307-309-12 within 30 days of the effective date of this rule and shall be in compliance with R307-309-10 and 11 within 90 days of the effectiveness of this rule.

KEY: air pollution, fugitive dust
Date of Enactment or Last Substantive Amendment: January 1, 2013
Notice of Continuation: February 5, 2015
Authorizing, and Implemented or Interpreted Law: 19-2-101; 19-2-104; 19-2-109

R307. Environmental Quality, Air Quality.
R307-310. Salt Lake County: Trading of Emission Budgets for Transportation Conformity.
R307-310-1. Purpose.

This rule establishes the procedures that may be used to trade a portion of the primary PM10 budget when demonstrating that a transportation plan, transportation improvement program, or project conforms with the motor vehicle emission budgets in the Salt Lake County portion of Section IX, Part A of the State Implementation Plan, "Fine Particulate Matter (PM10)"

R307-310-2. Definitions.

The definitions contained in 40 CFR 93.101, effective as of the date referenced in R307-101-3, are incorporated into this rule by reference. The following additional definitions apply to this rule.

"Budget" means the motor vehicle emission projections used in the attainment demonstration in the Salt Lake County portion of Section IX, Part A of the State Implementation Plan, "Fine Particulate Matter (PM10)."

"NOx" means oxides of nitrogen.

"Primary PM10" means PM10 that is emitted directly by a source. Primary PM10 does not include particulate matter that is formed when gaseous emissions undergo chemical reactions in the ambient air.

"Transportation Conformity" means a demonstration that a transportation plan, transportation improvement program, or project conforms with the emissions budgets in a state implementation plan, as outlined in 40 CFR, Chapter 1, Part 93, "Determining Conformity of Federal Actions to State or Federal Implementation Plans."

R307-310-3. Applicability.

(1) This rule applies to agencies responsible for demonstrating transportation conformity with the Salt Lake County portion of Section IX, Part A of the State Implementation Plan, "Fine Particulate Matter (PM10)."

(2) This rule does not apply to emission budgets from Section IX, Part D.2 of the State Implementation Plan, "Ozone Maintenance Plan."

(3) This rule does not apply to emission budgets from Section IX, Part C.7 of the State Implementation Plan, "Carbon Monoxide Maintenance Provisions."

R307-310-4. Trading Between Emission Budgets.

(1) The agencies responsible for demonstrating transportation conformity are authorized to supplement the budget for NOx with a portion of the budget for primary PM10 for the purpose of demonstrating transportation conformity for NOx. The NOx budget shall be supplemented using the following procedures.

(a) The metropolitan planning organization shall include the following information in the transportation conformity demonstration:

(i) The budget for primary PM10 and NOx for each required year of the conformity demonstration, before trading allowed by this rule has been applied;

(ii) The portion of the primary PM10 budget that will be used to supplement the NOx budget, specified in tons per day using a 1:1 ratio of primary PM10 to NOx, for each required year of the conformity demonstration;

(iii) The remainder of the primary PM10 budget that will be used in the conformity demonstration for primary PM10, specified in tons per day for each required year of the conformity demonstration; and

(iv) The budget for primary PM10 and NOx for each required year of the conformity demonstration after the trading allowed by this rule has been applied.

(b) Transportation conformity for NOx shall be demonstrated using the NOx budget supplemented by a portion of the primary PM10 budget as described in (a)(ii). Transportation conformity for primary PM10 shall be demonstrated using the remainder of the primary PM10 budget described in (a)(iii).

(c) The primary PM10 budget shall not be supplemented by using a portion of the NOx budget.

R307-310-5. Transition Provision.

R307-310, sections 1-4 will remain in effect until the day that EPA approves the conformity budget in the PM10 maintenance plan adopted by the board on July 6, 2005.

KEY: air pollution, transportation conformity, PM10
Date of Enactment or Last Substantive Amendment: February 8, 2008
Notice of Continuation: February 5, 2015

Authorizing, and Implemented or Interpreted Law: 19-2-104

R307. Environmental Quality, Air Quality.
R307-311. Utah County: Trading of Emission Budgets for Transportation Conformity.
R307-311-1. Purpose.

This rule establishes the procedures that may be used to trade a portion of the primary PM10 budget when demonstrating that a transportation plan, transportation improvement program, or project conforms with the motor vehicle emission budgets in the Utah County portion of Section IX, Part A of the State Implementation Plan, "Fine Particulate Matter (PM10)".

R307-311-2. Definitions.

The definitions contained in 40 CFR 93.101, effective as of the date referenced in R307-101-3, are incorporated into this rule by reference. The following additional definitions apply to this rule.

"Budget" means the motor vehicle emission projections used in the attainment demonstration in the Utah County portion of Section IX, Part A of the State Implementation Plan, "Fine Particulate Matter (PM10)."

"NOx" means oxides of nitrogen.

"Primary PM10" means PM10 that is emitted directly by a source. Primary PM10 does not include particulate matter that is formed when gaseous emissions undergo chemical reactions in the ambient air.

"Transportation Conformity" means a demonstration that a transportation plan, transportation improvement program, or project conforms with the emissions budgets in a state implementation plan, as outlined in 40 CFR, Chapter 1, Part 93, "Determining Conformity of Federal Actions to State or Federal Implementation Plans."

R307-311-3. Applicability.

(1) This rule applies to agencies responsible for demonstrating transportation conformity with the Utah County portion of Section IX, Part A of the State Implementation Plan, "Fine Particulate Matter (PM10)."

(2) This rule does not apply to emission budgets from Section IX, Part C.6 of the State Implementation Plan, "Carbon Monoxide Maintenance Plan."

R307-311-4. Trading Between Emission Budgets.

(1) The agencies responsible for demonstrating transportation conformity are authorized to supplement the budget for NOx with a portion of the budget for primary PM10 for the purpose of demonstrating transportation conformity for NOx. The NOx budget shall be supplemented using the following procedures.

(a) The metropolitan planning organization shall include the following information in the transportation conformity

demonstration:

(i) The budget for primary PM10 and NOx for each required year of the conformity demonstration, before trading allowed by this rule has been applied;

(ii) The portion of the primary PM10 budget that will be used to supplement the NOx budget, specified in tons per day using a 1:1 ratio of primary PM10 to NOx, for each required year of the conformity demonstration;

(iii) The remainder of the primary PM10 budget that will be used in the conformity demonstration for primary PM10, specified in tons per day for each required year of the conformity demonstration; and

(iv) The budget for primary PM10 and NOx for each required year of the conformity demonstration after the trading allowed by this rule has been applied.

(b) Transportation conformity for NOx shall be demonstrated using the NOx budget supplemented by a portion of the primary PM10 budget as described in (a)(ii). Transportation conformity for primary PM10 shall be demonstrated using the remainder of the primary PM10 budget described in (a)(iii).

(c) The primary PM10 budget shall not be supplemented by using a portion of the NOx budget.

KEY: air pollution, transportation conformity, PM10
Date of Enactment or Last Substantive Amendment: March 5, 2015
Authorizing, and Implemented or Interpreted Law: 19-2-104

R307. Environmental Quality, Air Quality.
R307-312. Aggregate Processing Operations for PM2.5 Nonattainment Areas.
R307-312-1. Purpose.

R307-312 establishes emission standards for sources in the aggregate processing industry, including aggregate processing equipment, hot mix asphalt plants, and concrete batch plants.

R307-312-2. Applicability.

(1) R307-312 applies to all crushers, screens, conveyors, hot mix asphalt plants, and concrete batch plants located within a PM2.5 nonattainment and maintenance area as defined in 40 CFR 81.345 (July 1, 2011) and geographically described as all regions of Salt Lake and Davis counties; all portions of the Cache Valley; all regions in Weber and Utah counties west of the Wasatch mountain range; in Box Elder County, from the Wasatch mountain range west to the Promontory mountain range and south of Portage; and in Tooele County, from the northernmost part of the Oquirrh mountain range to the northern most part of the Stansbury mountain range and north of Route 199.

(2) The provisions of R307-312 do not apply to temporary hot mix asphalt plants.

R307-312-3. Definitions.

The following definitions apply to R307-312:

"Aggregate" means material of which the majority is nonmetallic minerals.

"Concrete batch plant" means any facility used to manufacture concrete by mixing aggregate with cement.

"Conveyor" means a device for transporting nonmetallic materials from one piece of equipment to another.

"Crusher" means a machine used to crush any nonmetallic minerals.

"Hot mix asphalt plant" means any facility used to manufacture hot mix asphalt by heating and drying aggregate and mixing with asphalt cements.

"Nonmetallic mineral" has the same definition as defined in 40 CFR 60.671.

"Screen" means a device for separating nonmetallic minerals according to size by passing undersize material through one or more mesh surfaces in series, and retaining oversize material on the mesh surfaces.

"Temporary" means not more than 180 operating days and not more than 365 calendar days.

R307-312-4. Visible Emissions.

(1) Visible emissions from sources subject to R307-312 shall not exceed the opacity limits as specified in Table 1.

TABLE 1

CATEGORY	OPACITY LIMIT
Crushers	12%
Screens	7%
Conveyor transfer points	7%
Concrete batch plants	7%

(2) Opacity Observation.

(a) Opacity observations of emissions shall be conducted according to 40 CFR 60, Appendix A, Method 9.

(b) The duration of the Method 9 observations shall be 30 minutes (five six-minute averages).

(c) Compliance shall be based on the average of the five six-minute averages. The duration of Method 9 may be reduced to 6 minutes (one six-minute average) if the first six-minute average is below the limit specified in Table 1.

R307-312-5. Hot Mix Asphalt Plants.

(1) The filterable PM2.5 emission rate from a hot mix asphalt plant dryer shall not exceed 0.024 grains per dscf.

(a) Filterable PM2.5 emissions shall be determined by 40 CFR 51, Appendix M, Method 201A.

(2) From November 1 to March 1, a hot mix asphalt plant burning a fuel other than natural gas or liquefied petroleum gas (LPG) shall not produce more than 50% of its rated capacity.

(a) Production shall be determined by scale house records,

belt scale records or manifest statements on a daily basis.

(b) Compliance shall be based on either the daily amount of hot mix asphalt produced averaged over the operating day or the daily amount of hot mix asphalt produced while burning a fuel other than natural gas or LPG averaged over the time the plant is operating while burning a fuel other than natural gas or LPG each day.

(c) Compliance shall be determined by production records and fuel records.

R307-312-6. Compliance Schedule.

(1) All sources subject to R307-312-4 or R307-312-5(2) shall be in compliance with this rule by June 7, 2013.

(2) All sources subject to R307-312-5(1) that begin construction prior to June 7, 2013, shall submit test results demonstrating compliance with R307-312-5(1) to the director by December 14, 2015.

(3) All sources subject to R307-312-5(1) that begin construction on or after June 7, 2013, shall submit test results demonstrating compliance with R307-312-5(1) to the director no later than 180 days after initial startup.

KEY: air pollution, aggregate, asphalt, concrete
Date of Enactment or Last Substantive Amendment: February 4, 2016
Authorizing, and Implemented or Interpreted Law: 19-2-101; 19-2-104; 19-2-109

R307. Environmental Quality, Air Quality.
R307-320. Ozone Maintenance Areas and Ogden City: Employer-Based Trip Reduction Program.
R307-320-1. Purpose.

The purpose of this program is to reduce the number of measurable vehicle miles driven by employees commuting to and from work by requiring employers with work sites within ozone maintenance areas to implement strategies designed to reduce the employee drive-alone rate. An employer-based trip reduction program is authorized under 19-2-104(1)(h) and (2). It is a state implementation plan control strategy to reduce ambient ozone and is a potential contingency measure for carbon monoxide. An added benefit of the program is reducing the number of cars on increasingly congested roadways.

R307-320-2. Applicability.

(1) R307-320 applies to any federal, state, or local entity, or any other public department, district (including public universities and public school districts), or agency in Davis or Salt Lake County.

(2) If the contingency requirements for carbon monoxide are triggered as outlined in Section IX.C.8.f of the State Implementation Plan, R307-320 applies to any federal, state, or local entity, or any other public department, district (including

public universities and public school districts), or agency in Ogden City.

R307-320-3. Definitions.

The following additional definitions apply to R307-320:

"Compressed Work Week" means any work schedule that eliminates at least one commute trip to a work site in each two week period.

"Drive-alone Rate" means the number of single-occupancy vehicles divided by the sum of single-occupancy vehicles, plus employees using mass transit, ridesharing, biking, walking, telecommuting or having credit for a compressed work week. The drive-alone rate calculation must be based on a typical Monday through Friday work week.

Drive-alone Rate = single-occupancy vehicles/(single-occupancy vehicles + mass transit users + rideshare participants + bikers + walkers + telecommuters + credit for compressed work week).

"Employee" means any person including persons employed by public universities or school districts, who works at or reports to a single work site at least three days per week for at least six months of the year.

"Employee Transportation Coordinator" means a person assigned the responsibility of developing, implementing, monitoring, tracking, and marketing the trip reduction plan for the employer.

"Employer" means federal, state, or local entity, or any other public department, district (including public universities or public school districts), or agency.

"Peak Travel Period" means the period beginning at 6 a.m. and ending at 10 a.m., Mondays through Fridays.

"Ridesharing" means transportation of more than one person for commute purposes in a vehicle.

"Single-occupancy Vehicles" means vehicles traveling to the work site with a driver and no passengers during the peak travel period.

"Target Drive-alone Rate" means a twenty percent reduction in the drive alone rate based on the 1990 census data for modes of travel in each county. The target drive-alone rate schedule is as follows:

TABLE
TARGET DRIVE-ALONE RATE SCHEDULE

	Davis County Drive-Alone Rate	Salt Lake County Drive-Alone Rate
From 1990 Census Data	0.76	0.77
1st year interim target drive-alone rate	0.72	0.73
2nd year interim target drive-alone rate	0.68	0.69

3rd year interim target drive-alone rate	0.67	0.67
4th year interim target drive-alone rate	0.65	0.65
5th year interim target drive-alone rate	0.63	0.64
6th year interim target drive-alone rate	0.61	0.62
Target drive-alone rate	0.61	0.62

"Telecommuting" means working at home or at a satellite work site, provided the employee does not use a single-occupancy vehicle to travel to the satellite work site.

"Trip Reduction Plan" means a set of strategies designed to reduce the drive-alone rate.

"Vehicle" means motorcycles and on-road vehicles powered by a gasoline or diesel internal combustion engine with nine or less seating positions for adults.

"Work Site" means a building and any group of buildings that are on physically contiguous parcels of land or on parcels separated solely by private or public roadways or rights-of way.

R307-320-4. Employer Requirements.

(1) Each employer shall assign an employee trip reduction coordinator within 30 days after the effective date of R307-320.

(2) Each employer shall determine the drive-alone rate per work site on an annual basis for a typical Monday through Friday work week during the peak travel period. The drive-alone rate can be determined by one of the following methods in (a), (b) or (c) below.

(a) Information from an annual employee survey.

(i) The employer must use a standardized survey approved by the director. The survey shall ask the travel distance from the employee's home to the work site, what frequency and mode of transportation the employee used to get to work, and how often the employee participates in a telecommuting program or compressed work week schedule.

(ii) The employer shall administer the survey and shall capture, at a minimum, 75% of the employee population arriving at the work site during the peak travel period.

(b) Verifiable information, less than one year old of the submittal due date, from employer records including:

(i) employee work schedules;

(ii) employee participation in telecommuting schedules;

(iii) employee participation of mass transit;

(iv) employee participation in rideshare arrangements; and

(v) employee participation in non-vehicular transit.

(c) Another method of the employer's choosing, with written approval from the director.

(3) Each employer shall design and submit to the director an approvable trip reduction plan for each work site to meet the target drive-alone rate as specified by the target drive-alone rate schedule in R307-320-3.

(a) An employer may combine more than one work site in a trip reduction plan submittal.

(i) The target drive-alone rate for a multi-work site submission shall be a weighted average of the drive-alone rates for the individual work sites.

(ii) The employer may combine a trip reduction plan for any work site within the same county.

(b) The trip reduction plan submittal shall adhere to the following schedule:

(i) Submittal of a trip reduction plan shall be annually on or before the anniversary of the initial due date.

(ii) For employers within ozone maintenance areas:

(A) The trip reduction plan must be submitted for approval within 90 days after the employer has been notified.

(B) If the employer has not been notified, then the trip reduction plan must be submitted no later than 360 days after the effective date of this rule.

(c) Materials and information submitted to the director shall include:

(i) A letter of commitment to fully implement an approved trip reduction plan signed by an authorized employee at the work site.

(ii) The name and signature of the employee transportation coordinator;

(iii) The drive-alone rate for the work site;

(iv) General work site information including name and address of organization; general layout of buildings and parking areas; location of major streets; location of nearby mass transit stops; number of total employees; number of employees arriving at the work site during peak travel periods; current and planned incentives, disincentives, and facilities available encouraging alternatives to single-occupant vehicle commuting; the type of activities conducted at the work site; and the time spent by the employee transportation coordinator in complying with the plan.

(d) A trip reduction plan designed to meet the target drive-alone rate schedule may include but is not limited to employer involvement in the following:

(i) Subsidized bus passes;

(ii) Rideshare matching programs;

(iii) Vanpool leasing programs;

(iv) Telecommuting programs;

(v) Compressed work week schedule programs and flexible work schedule programs;

(vi) Work site parking fee programs;

(vii) Preferential parking for rideshare participants;

(viii) Transportation for business related activities;

(ix) A guaranteed ride home program;
(x) On-site facility improvements;
(xi) Soliciting feedback from employees;
(xii) On-site daycare facilities;
(xiii) Coordination with local transit authorities for improved mass transit service and information on mass transit programs; and
(xiv) Recognition and rewards for employee participation.
(e) An approvable plan shall contain all the information required in R307-320-4. The director will approve or request revision of the trip reduction plan within 60 days of the plan submittal.
(4) Each employer shall implement a trip reduction plan approved by the director.
(5) Each employer shall inform employees of the trip reduction plan and options available to them for participation.

R307-320-5. Recordkeeping.
(1) The employer shall keep records of all documents necessary to prove compliance with and verify implementation of an approved trip reduction plan for at least two years from the plan approval date.
(2) Approved trip reduction plans shall be kept for five years from date of approval.
(3) Employer trip reduction records are subject to review by representatives of the director.

R307-320-6. Violations.
(1) The following are violations of this rule:
(a) failure to submit an approvable employer-based trip reduction plan as specified in R307-320-4;
(b) providing false information;
(c) failure to submit a revised employer-based trip reduction plan when requested by the director;
(d) failure to implement an approved trip reduction plan;
(e) failure to maintain records as specified in R307-320-5;
(f) upon receipt of the second disapproval notice and until a revised plan is submitted and approved, the employer is in violation of this rule.
(2) Failure to achieve the target drive-alone rate is not a violation of this rule.

R307-320-7. Exemptions.
(1) An employer with less than 100 employees at a work site is exempt from the requirements of this rule.
(2) An employer who has met the target drive-alone rate is exempt from requirements stated in R307-320-4(3) and (4). The employer must still submit the drive-alone rate information to the director annually.
(3) Employees using vehicles for commute purposes as part of their job responsibility for emergency response are exempt from the drive-alone rate determination if they do not have the option,

because of employer policies, to participate in telecommuting programs, compressed work week schedules, or as a rideshare driver, as approved by the director.

(a) An employer seeking exemption status shall comply with all requirements of the rule until an exemption is granted.

(b) The director shall approve or deny a request for exemption within 90 days of application.

(4) Other exemptions may be granted on a case by case basis and must be approved by the director.

(a) The employer seeking exemption must be able to demonstrate that the trip reduction program causes an adverse impact on the employer's ability to provide services or creates an undue hardship.

(b) The employer may also seek an exemption by providing an alternative to the Trip Reduction Program that shows, at a minimum, for the work site seeking exemption, a reduction in oxides of nitrogen equivalent to that achieved by the Trip Reduction Program when implemented to the target drive-alone rate schedule in the table in R307-320-3. The employer shall provide all substantiating information and calculations.

(c) An employer seeking exemption status shall comply with all requirements of the rule until an exemption is granted.

(d) The director shall approve or deny a request for exemption within 90 days of application.

KEY: air pollution, motor vehicles, trip reduction
Date of Enactment or Last Substantive Amendment: March 9, 2007
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Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(h)

R307. Environmental Quality, Air Quality.
R307-325. Ozone Nonattainment and Maintenance Areas: General Requirements.
R307-325-1. Purpose.

The purpose of R307-325 is to establish general requirements for control of volatile organic compounds (VOCs) in any nonattainment or maintenance area.

R307-325-2. Applicability.

R307-325 applies to all sources located in any nonattainment or maintenance area for ozone.

R307-325-3. Definition and General Requirement.

No person shall allow or cause volatile organic compounds (VOCs) to be spilled, discarded, stored in open containers, or handled in any other manner that would result in greater evaporation of VOCs than would have if reasonably available control technology (RACT) had been applied.

R307-325-4. Compliance Schedule.

All sources within any newly designated nonattainment area

for ozone shall be in compliance with this rule within 180 days of the effective date of designation to nonattainment.

KEY: air pollution, emission controls, ozone, RACT
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Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)

R307. Environmental Quality, Air Quality.
R307-326. Ozone Nonattainment and Maintenance Areas: Control of Hydrocarbon Emissions in Petroleum Refineries.
R307-326-1. Purpose.

The purpose of R307-326 is to establish Reasonably Available Control Technology (RACT), as required by section 182(b)(2)(A) of the Clean Air Act, for the control of hydrocarbon emissions from petroleum refineries that are located in ozone nonattainment and maintenance areas. The rule is based on federal control technique guidance documents.

R307-326-2. Applicability.

R307-326 applies to the owner or operator of any petroleum refinery located in any ozone nonattainment or maintenance area.

R307-326-3. Definitions.

The following additional definitions apply to R307-326.

"Accumulator" means the reservoir of a condensing unit receiving the condensate from the condenser.

"Condenser" means any device that removes condensable vapors by a reduction in the temperature of captured gases.

"Control System" means any number of control devices, including condensers, that are designed and operated to reduce the quantity of VOCs emitted to the atmosphere.

"Hot Well" means the reservoir of a condensing unit receiving the warm condensate consisting primarily of water from the condenser.

"Petroleum Refinery Complex" means any source or installation engaged in producing gasoline, aromatics, kerosene, distillate fuel oils, residual fuel oils, lubricants, asphalt, or other products through distillation of petroleum or through redistillation, cracking, rearrangement, or reforming of unfinished petroleum derivatives.

"Process Drain" means any drain used in a refinery complex on equipment that processes or transfers a VOC or a mixture of VOCs.

"Process Unit Turnaround" means the procedure of shutting a refinery unit down after a run to do necessary maintenance and repair work and putting the unit back in operation.

"Vacuum Producing System" means any reciprocating, rotary, or centrifugal blower or compressor, or any jet ejector or device that takes suction from a pressure below atmospheric and discharges against atmospheric pressure.

R307-326-4. Vacuum Producing Systems.

The emission of noncondensable VOCs from the condensers, hot wells, or accumulators of vacuum producing systems shall be controlled by:

(1) piping the noncondensable vapors to a firebox or incinerator, or

(2) compressing the vapors and adding them to the refinery fuel gas, or

(3) other equally effective means provided the design and effectiveness of such means are documented and submitted to and approved by the director.

R307-326-5. Wastewater (Oil/Water) Systems.

Any wastewater separator handling VOCs shall be equipped with:

(1) covers and seals approved by the Director on all separators and forebays,

(2) lids or seals on all openings in covers, separators, and forebays. Such lids or seals shall be in the closed position at all times except when in actual use.

R307-326-6. Process Unit Turnaround.

The owner or operator of a petroleum refinery shall insure that a minimum of VOCs are emitted to the atmosphere during process unit turnarounds. The owner or operator shall develop and submit to the director for approval a procedure for minimizing VOC emissions during turnarounds. At a minimum the procedure shall provide for:

(1) venting of the process unit or vessel during depressurization and purging to a vapor recovery system, flare or firebox, and

(2) preventing discharge to the atmosphere of emissions of VOCs from a process unit or vessel until its internal pressure is 136 kPa (19.7 psia) or less; or

(3) an equally effective system provided the design and effectiveness of such system are documented and submitted to and approved by the director.

(4) keeping records of the following items:

(a) every date that each process unit or vessel is shut down;

(b) the approximate vessel VOC concentration when the VOCs were first discharged to the atmosphere; and

(c) the approximate total quantity of VOCs emitted to the atmosphere.

(5) maintaining records. The records required in (4) above shall be kept for at least two years and shall be made available for review by the director or the director's representative.

R307-326-7. Catalytic Cracking Units.

Flue gas produced by catalytic cracker catalyst regeneration units shall be vented to a waste heat boiler or a process heater firebox, or incinerated, or controlled by other methods, provided

the design and effectiveness of such methods are documented, submitted to, and approved by the director.

R307-326-8. Safety Pressure Relief Valves.

All safety pressure relief valves handling organic material shall be vented to a flare, firebox, or vapor recovery system, or controlled by the inspection, monitoring, and repair requirements described in R307-326-9.

R307-326-9. Monitoring of Leaks from Petroleum Refinery Equipment.

(1) The owner or operator of a petroleum refinery complex shall develop and conduct a VOC monitoring program and shall follow the recording, reporting, and operating requirements consistent with R307-326-9. The monitoring program shall be submitted 30 days prior to start up of the petroleum refinery complex or as determined necessary by the director.

(2) Any affected component within a petroleum refinery complex found to be leaking shall be repaired and retested as soon as practicable, but not later than fifteen (15) days after the leak is detected. A leaking component is defined as one that has a concentration of VOCs exceeding 10,000 parts per million by volume (ppmv) when tested by a VOC detection instrument at the leak source in the manner described in 40 CFR 60, Appendix A, Reference Method 21, using methane or hexane as the calibration gas. Components not subject to New Source Performance Standards Subpart GGG shall use methane or hexane as calibration gas, provided a relative response factor for each individual instrument is determined for the calibration gas used. Those leaks that cannot be repaired until the unit is shut down for turnaround shall be identified with a tag and recorded as per (6) below and shall be reported as per (7) below. The Director, in coordination with the refinery owner or operator, may require early unit turnaround based on the number and severity of tagged leaks awaiting turnaround.

(3) Monitoring Requirements.

(a) In order to ensure that all existing VOC leaks are identified and that new VOC leaks are located as soon as practicable, the refinery owner or operator shall perform necessary monitoring using visual observations when specified or the method described in 40 CFR 60, Appendix A, Reference Method 21, as follows:

(i) Monitor at least one time per year (annually) all pump seals, valves in liquid service, and process drains;

(ii) Monitor four times per year (quarterly) all compressor seals, valves in gaseous service, and pressure relief valves in gaseous service;

(iii) Monitor visually 52 times per year (weekly) all pump seals;

(iv) Monitor within 24 hours (with a portable VOC detection device) or repair within 15 days any pump seal from which liquids are observed dripping;

(v) Monitor any relief valve within 24 hours after it has been vented to the atmosphere;

(vi) Monitor immediately after repair any component that was found leaking;

(vii) For all other valves considered "unsafe-to-monitor" or inaccessible during an annual inspection, the owner or operator shall document to the director the number of valves considered "unsafe-to-monitor" or inaccessible, the dangers involved or reasons for inaccessibility, the location of these valves, and the procedures that the owner or operator shall follow to ensure that the valves do not leak. The documentation for each calendar year shall be submitted for approval to the director 15 days after the last day of each calendar year. At a minimum, the inaccessible valves shall be monitored at least once per year (annually).

(b) For the purpose of R307-326, gaseous service for pipeline valves and pressure relief valves is defined as the VOCs being gaseous at conditions that prevail in the components during normal operations. Pipeline valves and pressure relief valves in gaseous service and other components subject to leaks shall be noted or marked so that their location within the refinery complex is obvious to the refinery operator performing the monitoring and to the State of Utah, Division of Air Quality.

(4) Exemptions. The following are exempt from the monitoring requirements of (3) above:

(a) Pressure relief devices that are connected to an operating flare header, firebox, or vapor recovery devices, storage tank valves, and valves that are not externally regulated;

(b) Refinery equipment containing a stream composition less than 10 percent by weight VOCs; and

(c) Refinery equipment containing natural gas supplied by a public utility as defined by the Utah Public Service Commission.

(5) Alternate Monitoring Methods and Requirements.

(a) If at any time after two complete liquid service inspections and five complete gaseous service inspections, the owner or operator of a petroleum refinery can demonstrate that modifications to (3) above are in order, he may apply in writing to the Air Quality Board for a variance from the requirements of (3) above.

(b) This submittal shall include data that have been developed to justify the modification to (3) above. As a minimum, the submittal should contain the following information:

(i) the name and address of the company;

(ii) the name and telephone number of the responsible company representative;

(iii) a description of the proposed alternate monitoring procedures; and

(iv) a description of the proposed alternate operational or equipment controls.

(6) Recording Requirements. Identified leaks shall be noted and affixed with a readily visible and weatherproof tag bearing the identification of the leak and the date the leak was detected. The tag shall remain in place until the leaking component is

repaired. The presence of the leak shall also be noted in a log maintained by the operator or owner of the refinery. The log shall contain, at a minimum, the name of the process unit where the component is located, the type of component, the tag number, the date the leak is detected, the date repaired, and the date and instrument reading when the recheck of the component is made. The log should also indicate those leaks that cannot be repaired until turnaround, and summarize the total number of components found leaking. The operator or owner of the refinery complex shall retain the leak detection log for two years after the leak has been repaired and shall make the log available to the director upon request.

(7) Reporting Requirements. The operator or owner of a petroleum refinery complex shall submit a report to the director by the 15th day of January, April, July, and October of each year listing the total number of components inspected, all leaks that have been located during the previous 3 calendar months but not repaired within 15 days, all leaking components awaiting unit turnaround and the total number of components found leaking. In addition, the refinery operator or owner shall submit a signed statement with each report that all monitoring has been performed as stipulated in R307-326-9.

(8) Additional Requirements. Any time a valve, with the exception of safety pressure relief valves, is located at the end of a pipe or line containing VOCs, the end of the line shall be sealed with one of the following: a second valve, a blind flange, a plug or a cap. This sealing device shall only be removed when the line is in use for sampling.

R307-326-10. Alternate Methods of Control.

(1) Any person may apply to the director for approval of an alternate test method, an alternate method of control, an alternate compliance period, an alternate emission limit, or an alternate monitoring schedule. The application must include a demonstration that the proposed alternate produces an equal or greater air quality benefit than that required by R307-326, or that the alternate test method is equivalent to that required by these rules. The director shall obtain concurrence from EPA when approving an alternate test method, an alternate method of control, an alternate compliance period, an alternate emission limit, or an alternate monitoring schedule.

(2) Manufacturer's operational specifications, records, and testings of any control system shall use the applicable EPA Reference Methods of 40 CFR Part 60, the most recent EPA test methods, or EPA-approved state methods, to determine the efficiency of the control device. In addition, the owner or operator must meet the applicable requirements of record keeping for any control device. A record of all tests, monitoring, and inspections required by R307-326 shall be maintained by the owner or operator for a minimum of 2 years and shall be made available to the director or the director's representative upon request. Any malfunctioning control device shall be repaired within 15

calendar days after it is found by the owner or operator to be malfunctioning, unless otherwise approved by the director.

(3) For purposes of determining compliance with emission limits, VOCs and nitrogen oxides will be measured by the test methods identified in federal regulation or approved by the director. Where such a method also inadvertently measures compounds with negligible photochemical reactivity, an owner or operator may exclude these negligibly reactive compounds when determining compliance with an emissions standard.

R307-326-11. Compliance Schedule.

All sources within any newly designated nonattainment area for ozone shall be in compliance with this rule within 180 days of the effective date of designation to nonattainment.

KEY: air pollution, refinery, gasoline, ozone
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R307. Environmental Quality, Air Quality.
R307-327. Ozone Nonattainment and Maintenance Areas: Petroleum Liquid Storage.
R307-327-1. Purpose.

The purpose of R307-327 is to establish Reasonably Available Control Technology (RACT), as required by section 182(2)(A) of the Clean Air Act, for petroleum refineries and petroleum liquid storage facilities that are located in any ozone nonattainment or maintenance area. The rule is based on federal control technique guidance documents.

R307-327-2. Applicability.

R307-327 applies to the owner or operator of any petroleum refinery or petroleum liquid storage facility located in any ozone nonattainment or maintenance area.

R307-327-3. Definitions.

The following additional definitions apply to R307-327:

"Average Monthly Storage Temperature" means the average daily storage temperature measured over a period of one month.

"Waxy, Heavy Pour Crude Oil" means a crude oil with a pour point of 50 degrees F or higher as determined by the American Society for Testing and Materials Standard D97-66, "Test for pourpoint of petroleum oils."

R307-327-4. General Requirements.

(1) Any existing stationary storage tank, reservoir or other container with a capacity greater than 40,000 gallons (150,000 liters) that is used to store volatile petroleum liquids with a true vapor pressure greater than 10.5 kilo pascals (kPa) (1.52

psia) at storage temperature shall be fitted with control equipment that will minimize vapor loss to the atmosphere. Storage tanks, except those erected before January 1, 1979, which are equipped with external floating roofs, shall be fitted with an internal floating roof that shall rest on the surface of the liquid contents and shall be equipped with a closure seal or seals to close the space between the roof edge and the tank wall, or alternative equivalent controls, provided the design and effectiveness of such equipment is documented and submitted to and approved by the director. The owner or operator shall maintain a record of the type and maximum true vapor pressure of stored liquid.

(2) The owner or operator of a petroleum liquid storage tank not subject to (1) above, but containing a petroleum liquid with a true vapor pressure greater than 7.0 kPa (1.0 psia), shall maintain records of the average monthly storage temperature, the type of liquid, throughput quantities, and the maximum true vapor pressure.

R307-327-5. Installation and Maintenance.

(1) The owner or operator shall ensure that all control equipment on storage vessels is properly installed and maintained.

(a) There shall be no visible holes, tears or other openings in any seal or seal fabric and all openings, except stub drains, shall be equipped with covers, lids, or seals.

(b) All openings in floating roof tanks, except for automatic bleeder vents, rim space vents, and leg sleeves, shall provide a projection below the liquid surface.

(c) The openings shall be equipped with a cover, seal, or lid.

(d) The cover, seal, or lid is to be in a closed position at all times except when the device is in actual use.

(e) Automatic bleeder vents shall be closed at all times except when the roof is floated off or landed on the roof leg supports. Rim vents shall be set to open when the roof is being floated off the leg supports or at the manufacturer's recommended setting.

(f) Any emergency roof drain shall be provided with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the area of the opening.

(2) The owner or operator shall conduct routine inspections from the top of the tank for external floating roofs or through roof hatches for internal floating roofs at six month or shorter intervals to insure there are no holes, tears, or other openings in the seal or seal fabric.

(a) The cover must be uniformly floating on or above the liquid and there must be no visible defects in the surface of the cover or petroleum liquid accumulated on the cover.

(b) The seal(s) must be intact and uniformly in place around the circumference of the cover between the cover and tank wall.

(3) A close visible inspection of the primary seal of an external floating roof is to be conducted at least once per year

from the roof top unless such inspection requires detaching the secondary seal, which would result in damage to the seal system.

(4) Whenever a tank is emptied and degassed for maintenance, an emergency, or any other similar purpose, a close visible inspection of the cover and seals shall be made.

(5) The director must be notified 7 days prior to the refilling of a tank that has been emptied, degassed for maintenance, an emergency, or any other similar purpose. Any non-compliance with this rule must be corrected before the tank is refilled.

R307-327-6. Retrofits for Floating Roof Tanks.

(1) Except where specifically exempted in (3) below, all existing external floating roof tanks with capacities greater than 950 barrels (40,000 gals) shall be retrofitted with a continuous secondary seal extending from the floating roof to the tank wall (a rim-mounted secondary seal) if:

(a) The tank is a welded tank, the true vapor pressure of the contained liquid is 27.6 kPa (4.0 psia) or greater and the primary seal is one of the following:

(i) A metallic type shoe seal, a liquid-mounted foam seal, a liquid-mounted liquid-filled seal, or

(ii) Any other primary seals that can be demonstrated equivalent to the above primary seals.

(b) The tank is a riveted tank, the true vapor pressure of the contained liquid is 10.5 kPa (1.5 psia) or greater, and the primary seal is as described in (a) above.

(c) The tank is a welded or riveted tank, the true vapor pressure of the contained liquid is 10.5 kPa (1.5 psia) or greater and the primary seal is vapor-mounted. When such primary seal closure device can be demonstrated equivalent to the primary seals described in (a) above, these processes apply.

(2) The owner or operator of a storage tank subject to this rule shall ensure that all the seal closure devices meet the following requirements:

(a) There shall be no visible holes, tears, or other openings in the seals or seal fabric.

(b) The seals must be intact and uniformly in place around the circumference of the floating roof between the floating roof and the tank wall.

(c) For vapor mounted primary seals, the accumulated area of gaps between the secondary seal and the tank wall shall not exceed 21.2 cm^2 per meter of tank diameter (1.0 in^2 per ft. of tank diameter) and the width of any gap shall not exceed 1.27 cm (1/2 in.). The owner or operator shall measure the secondary seal gap annually and make a record of the measurement.

(3) The following are specifically exempted from the requirements of (1) above:

(a) External floating roof tanks having capacities less than 10,000 barrels (420,000 gals) used to store produced crude oil and condensate prior to custody transfer.

(b) A metallic type shoe seal in a welded tank that has a

secondary seal from the top of the shoe seal to the tank wall (a shoe mounted secondary seal).

(c) External floating roof tanks storing waxy, heavy pour crudes.

(d) External floating roof tanks with a closure seal device or other devices installed that will control volatile organic compounds (VOC) emissions with an effectiveness equal to or greater than the seals required in (1) above. It shall be the responsibility of the owner or operator of the source to demonstrate the effectiveness of the alternative seals or devices to the director. No exemption under (3) shall be granted until the alternative seals or devices are approved by the director.

R307-327-7. Alternate Methods of Control.

(1) Any person may apply to the director for approval of an alternate test method, an alternate method of control, an alternate compliance period, an alternate emission limit, or an alternate monitoring schedule. The application must include a demonstration that the proposed alternate produces an equal or greater air quality benefit than that required by R307-327, or that the alternate test method is equivalent to that required by these rules. The director shall obtain concurrence from EPA when approving an alternate test method, an alternate method of control, an alternate compliance period, an alternate emission limit, or an alternate monitoring schedule.

(2) Manufacturer's operational specifications, records, and testings of any control system shall use the applicable EPA Reference Methods of 40 CFR Part 60, the most recent EPA test methods, or EPA-approved state methods, to determine the efficiency of the control device. In addition, the owner or operator must meet the applicable requirements of record keeping for any control device. A record of all tests, monitoring, and inspections required by R307-327 shall be maintained by the owner or operator for a minimum of 2 years and shall be made available to the director or the director's representative upon request. Any malfunctioning control device shall be repaired within 15 calendar days after it is found by the owner or operator to be malfunctioning, unless otherwise approved by the director.

(3) For purposes of determining compliance with emission limits, VOCs and nitrogen oxides will be measured by the test methods identified in federal regulation or approved by the director. Where such a method also inadvertently measures compounds with negligible photochemical reactivity, an owner or operator may exclude these negligibly reactive compounds when determining compliance with an emissions standard.

R307-327-8. Compliance Schedule.

All sources within any newly designated nonattainment area for ozone shall be in compliance with this rule within 180 days of the effective date of designation to nonattainment.

KEY: air pollution, petroleum, gasoline, ozone

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R307. Environmental Quality, Air Quality.
R307-328. Gasoline Transfer and Storage.
R307-328-1. Purpose.

The purpose of R307-328 is to establish Reasonably Available Control Technology (RACT) for control of gasoline vapors during the filling of gasoline cargo tank and storage tanks in Utah. The rule is based on federal control technique guidance documents. This requirement is commonly referred to as stage I vapor recovery.

R307-328-2. Applicability.

(1) Gasoline Cargo Tanks. R307-328 applies to the owner or operator of any gasoline cargo tank that loads or unloads gasoline in Utah.

(2) Gasoline Dispensing. R307-328 applies to the owner or operator of any bulk terminal, bulk plant, stationary storage container, or service station located in Utah that dispenses 10,000 gallons or more in any one calendar month.

(3) This rule applies to all gasoline cargo tanks and gasoline dispensing facilities that operate within Utah according to the compliance schedule defined in section 328-9 of this rule.

(4) All references to 40 CFR in R307-328 shall mean the version that is effective as of the date referenced in R307-101-3.

R307-328-3. Definitions.

The following additional definitions apply to R307-328.

"Bottom Filling" means the filling of a tank through an inlet at or near the bottom of the tank designed to have the opening covered by the liquid after the pipe normally used to withdraw liquid can no longer withdraw any liquid.

"Submerged Fill Pipe" means any fill pipe with a discharge opening which is entirely submerged when the liquid level is 6 inches above the bottom of the tank and the pipe normally used to withdraw liquid from the tank can no longer withdraw any liquid.

"Gasoline cargo tank" means gasoline cargo tank as defined in 40 CFR 63.421 that is hereby incorporated by reference.

R307-328-4. Loading of Tank Trucks, Trailers, Railroad Tank Cars, and Other Transport Vehicles.

(1) No person shall load or permit the loading of gasoline into any gasoline cargo tank unless the emissions from such vehicle are controlled by use of a vapor collection and control system and submerged or bottom filling. RACT shall be required and in no case shall vapor emissions to the atmosphere exceed 0.640 pounds per 1,000 gallons transferred.

(2) Such vapor collection and control system shall be properly installed and maintained.

(3) The loading device shall not leak.

(4) The loading device shall utilize the dry-break loading design couplings and shall be maintained and operated to allow no more than an average of 15 cc drainage per disconnect for 5 consecutive disconnects.

(5) All loading and vapor lines shall be equipped with fittings which make a vapor tight connection and shall automatically close upon disconnection to prevent release of the organic material.

(6) A gasoline storage and transfer installation that receives inbound loads and dispatches outbound loads ("bulk plant") need not comply with R307-328-4 if it does not have a daily average throughput of more than 3,900 gallons (15,000 or more liters) of gasoline based upon a 30-day rolling average. Such installations shall on-load and off-load gasoline by use of bottom or submerged filling. The emission limitation is based on operating procedures and equipment specifications using Reasonably Available Control Technology as defined in EPA documents EPA 450/2-77-026 October 1977, "Control of Hydrocarbons from Tank Truck Gasoline Loading Terminals," and EPA-450/2-77-035 December 1977, "Control of Volatile Organic Emissions from Bulk Gasoline Plants." The design effectiveness of such equipment and the operating procedures must be documented and submitted to and approved by the director.

(7) Hatches of gasoline cargo tanks shall not be opened at any time during loading operations except to avoid emergency situations or during emergency situations. Pressure relief valves on storage tanks and gasoline cargo tanks shall be set to release at the highest possible pressure, in accordance with State or local fire codes and National Fire Prevention Association guidelines. Pressure in the vapor collection system shall not exceed the gasoline cargo tank pressure relief setting.

(8) Each owner or operator of a gasoline storage or dispensing installation shall conduct testing of vapor collection systems used at such installation and shall maintain records of all tests for no less than two years. Testing procedures of vapor collection systems shall be approved by the director and shall be consistent with the procedures described in the EPA document, "Control of Volatile Organic Compound Leaks from Gasoline Tank Trucks and Vapor Collection Systems," EPA-450/2-78-051.

(9) Semi-annual testing shall be conducted and records maintained of such test. The frequency of tests may be altered by the director upon submittal of documentation which would justify a change.

(10) The vapor collection and vapor processing equipment shall be designed and operated to prevent gauge pressure in the gasoline cargo tank from exceeding 18 inches of water and prevent vacuum from exceeding 6 inches of water. During testing and monitoring, there shall be no reading greater than or equal to 100 percent of the lower explosive limit measured at 1.04 inches around the perimeter of a potential leak source as detected by a combustible gas detector. Potential leak sources include, but are

not limited to, piping, seals, hoses, connections, pressure or vacuum vents, and vapor hoods. In addition, no visible liquid leaks are permitted during testing or monitoring.

R307-328-5. Stationary Source Container Loading.

(1) No person shall transfer or permit the transfer of gasoline from any gasoline cargo tank into any stationary storage container with a capacity of 250 gallons or greater unless such container is equipped with a submerged fill pipe that extends to no more than twelve inches from the bottom of the storage tank for fill pipes installed on or before November 9, 2006, and no more than six inches form the bottom of the storage tank for fill pipes installed after November 9, 2006, and at least 90 percent of the gasoline vapor, by weight, displaced during the filling of the stationary storage container is prevented from being released to the atmosphere. This requirement shall not apply to:

(a) the transfer of gasoline into any stationary storage container of less than 550 gallons used primarily for the fueling of implements of husbandry if such container is equipped with a permanent submerged fill pipe;

(b) the transfer of gasoline into any stationary storage container having a capacity of less than 2,000 gallons which was installed prior to January 1, 1979, if such container is equipped with a permanent submerged fill pipe;

(c) the transfer of gasoline to storage tanks equipped with floating roofs or their equivalent which have been approved by the director.

(2) The 90 percent performance standard of the vapor control system shall be based on operating procedures and equipment specifications. The design effectiveness of such equipment and the operating procedure must be documented and submitted to and approved by the director.

(3) Each owner or operator of a gasoline storage tank or the owner or operator of the gasoline cargo tank subject to (1) above shall install vapor control equipment, which includes, but is not limited to:

(a) vapor return lines and connections sufficiently free of restrictions to allow transfer of vapor to the gasoline cargo tank or to the vapor control system, and to achieve the required recovery;

(b) a means of assuring that the vapor return lines are connected to the gasoline cargo tank, or vapor control system, and storage tank during tank filling;

(c) restrictions in the storage tank vent line designed and operated to prevent:

(i) the release of gasoline vapors to the atmosphere during normal operation; and

(ii) gauge pressure in the gasoline cargo tank from exceeding 18 inches of water and vacuum from exceeding 6 inches of water.

R307-328-6. Gasoline Cargo Tank.

(1) Gasoline cargo tanks must be designed and maintained to be vapor tight during loading and unloading operations as well as during transport, except for normal pressure venting required under United States Department of Transportation Regulations.

(2) The design of the vapor recovery system shall be such that when the gasoline cargo tank is connected to an approved storage tank vapor recovery system or loading terminal, 90% vapor recovery efficiencies are realized. The connectors of the gasoline cargo tanks shall be compatible with the fittings on the fill pipes and vapor vents at the storage containers and gasoline loading terminals where the gasoline cargo tank will service or be serviced. Adapters may be used to achieve compatibility.

(3) No person shall knowingly allow the introduction of gasoline into, dispensing of gasoline from, or transportation of gasoline in a gasoline cargo tank that does not meet the leak tight testing requirements of R307-328-7.

(4) A vapor-laden gasoline cargo tank may be refilled only at installations equipped to recover, process or dispose of vapors. Gasoline cargo tanks that only service locations with storage containers specifically exempted from the requirements of R307-328-5 need not be retrofitted to comply with R307-328-6(1)-(3) above, provided such gasoline cargo tanks are loaded through a submerged fill pipe or equivalent equipment provided the design and effectiveness of such equipment are documented and submitted to and approved by the director.

R307-328-7. Vapor Tightness Testing.

(1) Gasoline cargo tanks and their vapor collection systems shall be tested annually for leakage in accordance with the test methods and vapor tightness standards in 40 CFR 63.425(e) which are hereby incorporated by reference.

(2) Each owner or operator of a gasoline cargo tank shall have documentation in their possession demonstrating that the gasoline cargo tank has passed the annual test in (1) above within the preceding twelve months.

(3) The vapor tightness documentation described in (2), as well as record of any maintenance performed, shall be retained by the owner or operator of the gasoline cargo tank for a two year period and be available for review by the director or the director's representative.

(4) The owner or operator of a railcar gasoline cargo tank may use the testing, recordkeeping, and reporting requirements in 40 CFR 63.425(i), that is hereby incorporated by reference, as an alternative to the annual testing requirements in (1) through (3) above.

R307-328-8. Alternate Methods of Control.

(1) Any person may apply to the director for approval of an alternate test method, an alternate method of control, an alternate compliance period, an alternate emission limit, or an alternate monitoring schedule. The application must include a demonstration that the proposed alternate produces an equal or

greater air quality benefit than that required by R307-328, or that the alternate test method is equivalent to that required by these rules. The director shall obtain concurrence from EPA when approving an alternate test method, an alternate method of control, an alternate compliance period, an alternate emission limit, or an alternate monitoring schedule.

(2) Manufacturer's operational specifications, records, and testings of any control system shall use the applicable EPA Reference Methods of 40 CFR Part 60, the most recent EPA test methods, or EPA-approved state methods, to determine the efficiency of the control device. In addition, the owner or operator must meet the applicable requirements of record keeping for any control device. A record of all tests, monitoring, and inspections required by R307-328 shall be maintained by the owner or operator for a minimum of 2 years and shall be made available to the director or the director's representative upon request. Any malfunctioning control device shall be repaired within 15 calendar days after it is found by the owner or operator to be malfunctioning, unless otherwise approved by the director.

(3) For purposes of determining compliance with emission limits, volatile organic compounds and nitrogen oxides will be measured by the test methods identified in federal regulation or approved by the director. Where such a method also inadvertently measures compounds with negligible photochemical reactivity, an owner or operator may exclude these negligibly reactive compounds when determining compliance with an emissions standard.

R307-328-9. Compliance Schedule.

(1) Effective May 1, 2000, all Facilities located in Davis, Salt Lake, Utah, and Weber Counties shall be in compliance with this rule.

(2) All other facilities located in Utah, shall be in compliance with this rule according to the following phase-in schedule:

(a) Facilities located in Box Elder, Cache, Tooele and Washington Counties shall be in compliance with this rule by April 30, 2009.

(b) Facilities located in Emery, Iron, Juab, Millard, Sevier, Summit and Uintah Counties shall be in compliance with this rule by April 30, 2010.

(c) All facilities located in Utah shall be in compliance with this rule by April 30, 2011.

(3) If this implementation schedule results in a scheduling and/or financial hardship for an individual facility, that facility may request a six-month extension from the director. A maximum of two six-month extensions may be granted. Regardless of extension requests submitted, all facilities must be in compliance with this rule not later than April 30, 2011.

(4) A request for an extension must be documented and contain valid reasons why a facility will not able to meet the phase-in schedule indicated in (2)(a) or (b) above. A late start on preparation or planning is not a valid reason to grant an

extension. The request for extension must also contain a proposed implementation schedule that shows compliance to this rule at the earliest possible date, but no later than April 30, 2011.

(5) The vapor tightness testing standard in R307-328-7(1) shall apply to tests conducted after June 7, 2011. All gasoline cargo tanks shall be tested using the vapor tightness testing standard in R307-328-7(1) by June 7, 2012.

R307-328-10. Authorized Contractors.

(1) All modifications performed on underground storage tanks regulated by Title 19, Chapter 6, Part 4, the Utah Underground Storage Tank Act, to bring them into compliance with R307-328, shall be performed by contractors certified under R311-201.

KEY: air pollution, gasoline transport, ozone
Date of Enactment or Last Substantive Amendment: February 4, 2016
Notice of Continuation: February 1, 2012
Authorizing, and Implemented or Interpreted Law: 19-2-101; 19-2-104(1)(a)

R307. Environmental Quality, Air Quality.
R307-335. Degreasing and Solvent Cleaning Operations.
R307-335-1. Purpose.

The purpose of this rule is to limit volatile organic compound (VOC) emission from degreasing and solvent cleaning operations.

R307-335-2. Applicability.

R307-335 applies to all degreasing or solvent cleaning operations that use VOCs and that are located in PM10 and PM2.5 nonattainment and maintenance plan areas as defined in 40 CFR 81.345 (July 1, 2011).

R307-335-3. Definitions.

The following additional definitions apply to R307-335:

"Batch open top vapor degreasing" means the batch process of cleaning and removing grease and soils from metal surfaces by condensing hot solvent vapor on the colder metal parts.

"Cold cleaning" means the batch process of cleaning and removing soils from metal surfaces by spraying, brushing, flushing or immersing while maintaining the solvent below its boiling point.

"Conveyorized degreasing" means the continuous process of cleaning and removing greases and soils from metal surfaces by using either cold or vaporized solvents.

"Department of Defense military technical data" means a specification that specifies design requirements, such as materials to be used, how a requirement is to be achieved, or how an item is to be fabricated or constructed.

"Freeboard ratio" means the freeboard height (distance between solvent line and top of container)divided by the width of

the degreaser.

"Industrial solvent cleaning" means operations performed using a liquid that contains any VOC, or combination of VOCs, which is used to clean parts, tools, machinery, equipment and work areas. Cleaning operations include, but are not limited to, spraying, wiping, flushing, and purging.

"Open top vapor degreaser" means the batch process of cleaning and removing soils from metal surfaces by condensing low solvent vapor on the colder metal parts.

"Separation operation" means any process that separates a mixture of compounds and solvents into two or more components. Specific mechanisms include extraction, centrifugation, filtration, and crystallization.

"Solvent metal cleaning" means the process of cleaning soils from metal surfaces by cold cleaning, open top vapor degreasers, or conveyorized degreasing.

R307-335-4. Cold Cleaning Facilities.

No owner or operator shall operate a degreasing or solvent cleaning operation unless conditions in R307-335-4(1) through (7) are met.

(1) A cover shall be installed which shall remain closed except during actual loading, unloading or handling of parts in cleaner. The cover shall be designed so that it can be easily operated with one hand if:

(a) The volatility of the solvent is greater than 2 kPa (15 mm Hg or 0.3 psi) measured at 38 degrees C (100 degrees F),

(b) The solvent is agitated, or

(c) The solvent is heated.

(2) An internal draining rack for cleaned parts shall be installed on which parts shall be drained until all dripping ceases. If the volatility of the solvent is greater than 4.3 kPa (32 mm Hg at 38 degrees C (100 degrees F)), the drainage facility must be internal, so that parts are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

(3) Waste or used solvent shall be stored in covered containers.

(4) Tanks, containers and all associated equipment shall be maintained in good operating condition, and leaks shall be repaired immediately or the degreaser shall be shutdown.

(5) Written procedures for the operation and maintenance of the degreasing or solvent cleaning equipment shall be permanently posted in an accessible and conspicuous location near the equipment.

(6) If the solvent volatility is greater than 4.3 kPa (33 mm Hg or 0.6 psi) measured at 38 degrees C (100 degrees F), or if solvent is heated above 50 degrees C (120 degrees F), then one of the following control devices shall be used:

(a) Freeboard that gives a freeboard ratio greater than 0.7;

(b) Water cover if the solvent is insoluble in and heavier than water); or

(c) Other systems of equivalent control, such as a refrigerated chiller or carbon adsorption.

(7) If used, the solvent spray shall be a solid fluid stream at a pressure that does not cause excessive splashing and may not be a fine, atomized or shower type spray.

R307-335-5. Open Top Vapor Degreasers.

Owners or operators of open top vapor degreasers shall, in addition to meeting the requirements of R307-335-4(3), (4) and (5),

(1) Equip the vapor degreaser with a cover that can be opened and closed without disturbing the vapor zone. The cover shall be closed except when processing work loads through the degreaser;

(2) Install one of the following control devices:

(a) Equipment necessary to sustain:

(i) A freeboard ratio greater than or equal to 0.75, and

(ii) A powered cover if the degreaser opening is greater than 1 square meter (10.8 square feet),

(b) Refrigerated chiller,

(c) Enclosed design (cover or door opens only when the dry part is actually entering or exiting the degreaser),

(d) Carbon adsorption system, with ventilation greater than or equal to 15 cubic meters per minute per square meter (50 cubic feet per minute per square foot) of air/vapor area when cover is open and exhausting less than 25 parts per million of solvent averaged over one complete adsorption cycle;

(3) Minimize solvent carryout by:

(a) Racking parts to allow complete drainage,

(b) Moving parts in and out of the degreaser at less than 3.3 meters per minute (11 feet per minute),

(c) Holding the parts in the vapor zone at least 30 seconds or until condensation ceases,

(d) Tipping out any pool of solvent on the cleaned parts before removal, and

(e) Allowing the parts to dry within the degreaser for at least 15 seconds or until visibly dry.

(4) Spray parts only in or below the vapor level;

(5) Not use ventilation fans near the degreaser opening, nor provide exhaust ventilation exceeding 20 cubic meters per minute per square meter (65 cubic feet per minute per square foot) in degreaser open area, unless necessary to meet state and federal occupational, health, and safety requirements.

(6) Not degrease porous or absorbent materials, such as cloth, leather, wood or rope;

(7) Not allow work loads to occupy more than half of the degreaser's open top area;

(8) Ensure that solvent is not visually detectable in water exiting the water separator;

(9) Install safety switches on the following:

(a) Condenser flow switch and thermostat (shuts off sump heat if condenser coolant is either not circulating or too warm);

and

(b) Spray switch (shuts off spray pump if the vapor level drops excessively, i.e., greater than 10 cm (4 inches).

(10) Open top vapor degreasers with an open area smaller than one square meter (10.8 square feet) are exempt from R307-335-5(2)(b) and (d).

R307-335-6. Conveyorized Degreasers.

Owners and operators of conveyorized degreasers shall, in addition to meeting the requirements of R307-335-4(3), (4) and (5) and R307-335-5(5):

(1) Install one of the following control devices for conveyorized degreasers with an air/vapor interface equal to or greater than two square meters (21.5 square feet):

(a) Refrigerated chiller; or

(b) Carbon adsorption system, with ventilation greater than or equal to 15 cubic meters per minute per square meter (50 cubic feet per minute per square foot) of air/vapor area when downtime covers are open, and exhausting less than 25 parts per million of solvent, by volume, averaged over a complete adsorption cycle.

(2) Equip the cleaner with equipment, such as a drying tunnel or rotating (tumbling) basket, sufficient to prevent cleaned parts from carrying out solvent liquid or vapor.

(3) Provide downtime covers for closing off the entrance and exit during shutdown hours. Ensure that down-time cover is placed over entrances and exits of conveyorized degreasers immediately after the conveyor and exhaust are shut down and is removed just before they are started up.

(4) Minimize carryout emissions by racking parts for best drainage and maintaining the vertical conveyor speed at less than 3.3 meters per minute (11 feet per minute).

(5) Minimize openings: Entrances and exits should silhouette work loads so that the average clearance (between parts and the edge of the degreaser opening) is either less than 10 cm (4 inches) or less than 10% of the width of the opening.

(6) Install safety switches on the following:

(a) Condenser flow switch and thermostat - shuts off sump heat if coolant is either not circulating or too warm;

(b) Spray switch - shuts off spray pump or conveyor if the vapor level drops excessively, i.e., greater than 10 cm or (4 inches); and

(c) Vapor level control thermostat - shuts off sump level if vapor level rises too high.

(7) Ensure that solvent is not visibly detectable in the water exiting the water separator.

R307-335-7. Industrial Solvent Cleaning.

(1) Exemptions. The requirements of R307-335-7 do not apply to aerospace, wood furniture, shipbuilding and repair, flat wood paneling, large appliance, metal furniture, paper film and foil, plastic parts, miscellaneous metal parts coatings and light autobody and truck assembly coatings, flexible packaging,

lithographic and letterpress printing materials, fiberglass boat manufacturing materials, and operations that are exclusively covered by Department of Defense military technical data and performed by a Department of Defense contractor and/or on site at installations owned and/or operated by the United States Armed Forces.

(2) Operators of industrial solvent cleaning that emit 15 pounds of VOCs or more per day from industrial solvent cleaning operations, shall reduce VOC emissions from the use, handling, storage, and disposal of cleaning solvents and shop towels by implementing the following work practices:

(a) Covering open containers; and

(b) Storing used applicators and shop towels in closed fire proof containers, and

(c) Limiting VOC emissions by either:

(i) Using solvents (excluding water and solvents exempt from the definition of volatile organic compounds found in R307-101-2) with a VOC limit in Table 1; or

(ii) Installing an emission control system designed to have an overall capture and control efficiency of at least 85%.

TABLE 1
Solvent Cleaning VOC Limits

Solvent Cleaning Category	VOC Limit (lb/gal)
Coatings, adhesives and ink manufacturing	4.2
Electronic parts and components	4.2
General miscellaneous cleaning	2.5
Medical devices and pharmaceutical	
Tools, equipment and machinery	6.7
General surface cleaning	5.0
Screening printing operations	4.2
Semiconductor tools, maintenance and equipment Cleaning	6.7

R307-335-8. Add-on Emission Control Systems Operations.

(1) Determination of overall capture and control efficiency shall be determined using EPA approved methods, as follows.

(a) The capture efficiency of a VOC emission control system's VOC collection device shall be determined according to EPA's "Guidelines for Determining Capture Efficiency," January 9, 1995 and 40 CFR Part 51, Appendix M, Methods 204-204F, as applicable.

(b) The control efficiency of a VOC emission control system's VOC control device shall be determined using test methods in Appendices A-1, A-6, and A-7 to 40 CFR Part 60, for measuring flow rates, total gaseous organic concentrations, or emissions of exempt compounds, as applicable.

(c) An alternative test method may be substituted for the preceding test methods after review and approval by the EPA Administrator.

(2) The owner or operator of a control system shall provide

documentation that the emission control system will attain the requirements of R307-335-7(2)(c)(ii).

(3) The owner or operator shall maintain records of key system parameters necessary to ensure compliance with R307-335-7. Key system parameters may include, but are not limited to, temperature, pressure and flow rates. Operator inspection schedule, monitoring, recordkeeping, and key parameters shall be in accordance with the manufacturer's recommendations, and as required to demonstrate operations are providing continuous emission reduction from the source during all periods that the operations cause emissions from the source.

(4) The owner or operator shall maintain for a minimum of two years records of operating and maintenance sufficient to demonstrate that the equipment is being operated and maintained in accordance with the manufacturer recommendations.

R307-335-9. Recordkeeping.

The owner or operator shall maintain, for a minimum of two years, records of the solvent VOC content applied and the physical characteristics that demonstrate compliance with R307-335-7(2).

KEY: air pollution, degreasing, solvent cleaning
Date of Enactment or Last Substantive Amendment: December 1, 2014
Notice of Continuation: February 1, 2012
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)

R307. Environmental Quality, Air Quality.
R307-341. Ozone Nonattainment and Maintenance Areas: Cutback Asphalt.
R307-341-1. Purpose.

This rule establishes reasonably achievable control technology (RACT) requirements for the use or application of cutback asphalt in ozone nonattainment and maintenance areas.

R307-341-2. Applicability.

R307-341 applies to any person who uses or applies asphalt in any ozone nonattainment or maintenance area.

R307-341-3. Definitions.

The following additional definitions apply to R307-341:

"Asphalt or Asphalt Cement" means the dark brown to black cementitious material, either solid, semisolid or liquid in consistency, of which the main constituents are bitumens that occur naturally or as a residue of petroleum refining.

"Asphalt Concrete" means a waterproof and durable paving material composed of dried aggregate that is evenly coated with hot asphalt cement.

"Cutback Asphalt" means any asphalt that has been liquified by blending with petroleum solvents (diluents) or, in the case of some slow cure asphalts (road oils), which have been produced directly from the distillation of petroleum.

"Emulsified Asphalt" means asphalt emulsions produced by combining asphalt with water that contains an emulsifying agent.

"Patch Mix" means a mixture of an asphalt binder and aggregate in which cutback or emulsified asphalts are used either as sprayed liquid or as a binder.

"Penetrating Prime Coat" means an application of low-viscosity liquid asphalt to an absorbent surface in order to prepare it for paving with asphaltic concrete.

R307-341-4. Limitations on Use of Cutback Asphalt.

No person shall cause, allow, or permit the use or application of cutback asphalt, or emulsified asphalt containing more than 7 percent oil distillate, as determined by ASTM distillation test D-244, except as provided below:

(1) Where the use or application commences on or after October 1 of any year and such use or application is completed by April 30 of the following year;

(2) Where long-life (longer than 1 month) stockpile storage of patch mix is demonstrated to the director to be necessary;

(3) Where the asphalt is to be used solely as a penetrating prime coat;

(4) Where the user can demonstrate that there are no emissions of volatile organic compounds from the asphalt under conditions of normal use;

(5) Where the use or application is for the paving of parking lots smaller than 300 parking stalls.

R307-341-5. Recordkeeping.

Any person subject to R307-341 shall keep records for at least two years of the types and amounts of cutback or emulsified asphalt used, the amounts of solvents added, and the location where the asphalt is applied. The records shall be made available to the director upon request.

R307-341-6. Compliance Schedule.

All sources within any newly designated nonattainment area for ozone shall be in compliance with this rule within 180 days of the effective date of designation to nonattainment.

KEY: air pollution, emission controls, asphalt, solvent
Date of Enactment or Last Substantive Amendment: January 16, 2007
Notice of Continuation: February 1, 2012
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)

R307. Environmental Quality, Air Quality.
R307-342. Adhesives and Sealants.
R307-342-1. Purpose.

The purpose of this rule is to limit emissions of volatile organic compounds (VOCs) from adhesives, sealants, primers and cleaning solvents.

R307-342-2. Applicability.

Beginning September 1, 2014, R307-342 applies to any person who manufactures any adhesive, sealant, adhesive primer or sealant primer in Box Elder, Cache, Davis, Salt Lake, Utah or Weber counties and to any person who sells, supplies, or applies any adhesive, sealant, adhesive primer or sealant primer in Box Elder, Cache, Davis, Salt Lake, Tooele, Utah or Weber counties manufactured on or after September 1, 2014.

R307-342-3. Exemptions.

(1) The requirements of R307-342 do not apply to the following:

(a) Adhesives, sealants, adhesive primers or sealant primers being tested or evaluated in any research and development, quality assurance or analytical laboratory;

(b) Adhesives and sealants that contain less than 20 grams of VOC per liter of adhesive or sealant, less water and exempt solvents, as applied;

(c) Cyanoacrylate adhesives;

(d) Adhesives, sealants, adhesive primers or sealant primers that are sold or supplied by the manufacturer or supplier in containers with a net volume of 16 fluid ounces or less or that have a net weight of one pound or less, except plastic cement welding adhesives and contact adhesives;

(e) Contact adhesives that are sold or supplied by the manufacturer or supplier in containers with a net volume of one gallon or less;

(f) Aerosol adhesives and primers dispensed from aerosol spray cans; or

(g) Polyester bonding putties to assemble fiberglass parts at fiberglass boat manufacturing facilities and at other reinforced plastic composite manufacturing facilities.

(2) The requirements of R307-342 do not apply to the use of adhesives, sealants, adhesive primers, sealant primers, surface preparation and cleanup solvents in the following operations:

(a) Tire repair operations, provided the label of the adhesive states "for tire repair only;"

(b) In the production, rework, repair, or maintenance of aerospace vehicles and components, and undersea-based weapon systems;

(c) In the manufacture of medical equipment;

(d) Operations that are exclusively covered by Department of Defense military technical specifications and standards and performed by a Department of Defense contractor and/or on site at installations owned and/or operated by the United States Armed Forces.

(e) Plaque laminating operations in which adhesives are used to bond clear, polyester acetate laminate to wood with lamination equipment installed prior to July 1, 1992.

(3) The requirements of R307-342 do not apply to commercial and industrial operations if the total VOC emissions from all adhesives, sealants, adhesive primers and sealant primers used at

the source are less than 200 pounds per calendar year.

(4) Adhesive products and sealant products shipped, supplied or sold exclusively outside of the areas specified in R307-342-2 are exempt from the requirements of this rule.

(5) R307-342 shall not apply to any adhesive, sealant, adhesive primer or sealant primer products manufactured for shipment and use outside of the counties specified R307-342-2 as long as the manufacturer or distributor can demonstrate both that the product is intended for shipment and use outside of the applicable counties and that the manufacturer or distributor has taken reasonable prudent precautions to assure that the product is not distributed to the applicable counties.

(6) R307-342 shall not apply to the use of any adhesives, sealants, adhesive primers, sealant primers, cleanup solvents and surface preparation solvents, provided the total volume of noncomplying adhesives, sealants, primers, cleanup and surface preparation solvents applied facility-wide does not exceed 55 gallons per rolling 12-month period.

(7) Commercial and industrial operations claiming exemption pursuant to R307-342-3 shall record and maintain operational records sufficient to demonstrate compliance.

R307-342-4. Definitions.

The following additional definitions apply to R307-342:

"Acrylonitrile-butadiene-styrene (ABS) welding adhesive" means any adhesive intended by the manufacturer to weld acrylonitrile-butadiene-styrene pipe, which is made by reacting monomers of acrylonitrile, butadiene and styrene.

"Adhesive" means any chemical substance that is applied for the purpose of bonding two surfaces together other than by mechanical means.

"Adhesive primer" means any product intended by the manufacturer for application to a substrate, prior to the application of an adhesive, to provide a bonding surface.

"Aerospace component" means a fabricated part, assembled part, or completed unit, including passenger safety equipment, of any aircraft, helicopter, missile or space vehicle.

"Architectural sealant or primer" means any sealant or sealant primer intended by the manufacturer to be applied to stationary structures, including mobile homes and their appurtenances. Appurtenances to an architectural structure include, but are not limited to: hand railings, cabinets, bathroom and kitchen fixtures, fences, rain gutters and downspouts, and windows.

"Automotive glass adhesive primer" means an adhesive primer labeled by the manufacturer to be applied to automotive glass prior to installation of the glass using an adhesive or sealant.

"Ceramic tile installation adhesive" means any adhesive intended by the manufacturer for use in the installation of ceramic tiles.

"Chlorinated polyvinyl chloride plastic (CPVC) plastic" means a polymer of the vinyl chloride monomer that contains 67% chlorine

and is typically identified with a CPVC marking.

"Chlorinated polyvinyl chloride (CPVC) welding adhesive" means an adhesive labeled for welding of chlorinated polyvinyl chloride plastic.

"Cleanup solvent" means a VOC-containing material used either to remove a loosely held uncured (i.e., not dry to the touch) adhesive or sealant from a substrate or to clean equipment used in applying a material.

"Computer diskette jacket manufacturing adhesive" means any adhesive intended by the manufacturer to glue the fold-over flaps to the body of a vinyl computer diskette jacket.

"Contact bond adhesive" means an adhesive that:

(1) is designed for application to both surfaces to be bonded together;

(2) is allowed to dry before the two surfaces are placed in contact with each other;

(3) forms an immediate bond that is impossible, or difficult, to reposition after both adhesive-coated surfaces are placed in contact with each other; and

(4) does not need sustained pressure or clamping of surfaces after the adhesive-coated surfaces have been brought together using sufficient momentary pressure to establish full contact between both surfaces.

"Contact adhesive" means an adhesive that feels dry to the touch and bonds instantly. Contact adhesives do not include rubber cements that are primarily intended for use on paper substrates and vulcanizing fluids that are designed and labeled for tire repair only.

"Cove base" means a flooring trim unit, generally made of vinyl or rubber, having a concave radius on one edge and a convex radius on the opposite edge that is used in forming a junction between the bottom wall course and the floor or to form an inside corner.

"Cove base installation adhesive" means any adhesive intended by the manufacturer to be used for the installation of cove base or wall base on a wall or vertical surface at floor level.

"Cyanoacrylate adhesive" means any adhesive with a cyanoacrylate content of at least 95% by weight.

"Department of Defense military technical data" means a specification that specifies design requirements, such as materials to be used, how a requirement is to be achieved, or how an item is to be fabricated or constructed.

"Enclosed cleaning system" means a cleaner consisting of a closed container with a door or top that can be opened and closed and fitted with cleaning connections. A spray gun is attached to the enclosed cleaning system by a connection, and solvent is pumped through the gun to clean it. The cleaning solvent falls back into the cleaning system's solvent reservoir for recirculation.

"Flexible vinyl" means non-rigid polyvinyl chloride plastic with at least 5% by weight plasticizer content.

"Fiberglass" means a material consisting of extremely fine

glass fibers.

"Indoor floor covering installation adhesive" means any adhesive intended by the manufacturer for use in the installation of wood flooring, carpet, resilient tile, vinyl tile, vinyl backed carpet, resilient sheet and roll or artificial grass. Adhesives used to install ceramic tile and perimeter bonded sheet flooring with vinyl backing onto a non-porous substrate, such as flexible vinyl, are excluded from this category.

"Laminate" means a product made by bonding together two or more layers of material.

"Marine deck sealant" or "marine deck sealant primer" means any sealant or sealant primer labeled for application to wooden marine decks.

"Medical equipment manufacturing" means the manufacture of medical devices, such as, but not limited to, catheters, heart valves, blood cardioplegia machines, tracheostomy tubes, blood oxygenators, and cardiatory reservoirs.

"Metal to urethane/rubber molding or casting adhesive" means any adhesive intended by the manufacturer to bond metal to high density or elastomeric urethane or molded rubber materials, in heater molding or casting processes, to fabricate products such as rollers for computer printers or other paper handling equipment.

"Multipurpose construction adhesive" means any adhesive intended by the manufacturer for use in the installation or repair of various construction materials, including but not limited to drywall, subfloor, panel, fiberglass reinforced plastic (FRP), ceiling tile and acoustical tile.

"Nonmembrane roof installation/repair adhesive" means any adhesive intended by the manufacturer for use in the installation or repair of nonmembrane roofs and that is not intended for the installation of prefabricated single-ply flexible roofing membrane, including, but not limited to, plastic or asphalt roof cement, asphalt roof coating and cold application cement.

"Outdoor floor covering installation adhesive" means any adhesive intended by the manufacturer for use in the installation of floor covering that is not in an enclosure and that is exposed to ambient weather conditions during normal use.

"Panel installation" means the installation of plywood, pre-decorated hardboard (or tileboard), fiberglass reinforced plastic, and similar pre-decorated or non-decorated panels to studs or solid surfaces using an adhesive formulated for that purpose.

"Perimeter bonded sheet flooring installation" means the installation of sheet flooring with vinyl backing onto a nonporous substrate using an adhesive designed to be applied only to a strip of up to four inches wide around the perimeter of the sheet flooring.

"Plastic cement welding adhesive" means any adhesive intended by the manufacturer for use to dissolve the surface of plastic to form a bond between mating surfaces.

"Plastic cement welding adhesive primer" means any primer intended by the manufacturer for use to prepare plastic substrates prior to bonding or welding.

"Plasticizer" means a material such as a high boiling point organic solvent that is incorporated into a vinyl to increase its flexibility, workability, or distensibility, as determined by ASTM Method E-260-96.

"Polyvinyl chloride (PVC) plastic" means a polymer of the chlorinated vinyl monomer that contains 57% chlorine.

"Polyvinyl chloride welding adhesive" or "PVC welding adhesive" means any adhesive intended by the manufacturer for use in the welding of PVC plastic pipe.

"Porous material" means a substance that has tiny openings, often microscopic, in which fluids may be absorbed or discharged, including, but not limited to, wood, paper and corrugated paperboard.

"Roadway sealant" means any sealant intended by the manufacturer for application to public streets, highways and other surfaces, including but not limited to curbs, berms, driveways and parking lots.

"Rubber" means any natural or manmade rubber substrate, including styrene-butadiene rubber, polychloroprene (neoprene), butyl rubber, nitrile rubber, chlorosulfonated polyethylene and ethylene propylene diene terpolymer.

"Sealant primer" means any product intended by the manufacturer for application to a substrate, prior to the application of a sealant, to enhance the bonding surface.

"Sealant" means any material with adhesive properties, including sealant primers and caulks, that is formulated primarily to fill, seal, waterproof or weatherproof gaps or joints between two surfaces. "Sheet-applied rubber installation" means the process of applying sheet rubber liners by hand to metal or plastic substrates to protect the underlying substrate from corrosion or abrasion. These operations also include laminating sheet rubber to fabric by hand.

"Single-ply roof membrane" means a prefabricated single sheet of rubber, normally ethylene-propylenediene terpolymer, that is field applied to a building roof using one layer of membrane material.

"Single-ply roof membrane installation and repair adhesive" means any adhesive labeled for use in the installation or repair of single-ply roof membrane.

(1) Installation includes, as a minimum, attaching the edge of the membrane to the edge of the roof and applying flashings to vents, pipes and ducts that protrude through the membrane.

(2) Repair includes gluing the edges of torn membrane together, attaching a patch over a hole and reapplying flashings to vents, pipes or ducts installed through the membrane.

"Single-ply roof membrane adhesive primer" means any primer labeled for use to clean and promote adhesion of the single-ply roof membrane seams or splices prior to bonding.

"Single-ply roof membrane sealant" means any sealant labeled for application to single-ply roof membrane.

"Structural glazing adhesive" means any adhesive intended by the manufacturer to apply glass, ceramic, metal, stone or

composite panels to exterior building frames.

"Subfloor installation" means the installation of subflooring material over floor joists, including the construction of any load bearing joists. Subflooring is covered by a finish surface material.

"Surface preparation solvent" means a solvent used to remove dirt, oil and other contaminants from a substrate prior to the application of a primer, adhesive or sealant.

"Thin metal laminating adhesive" means any adhesive intended by the manufacturer for use in bonding multiple layers of metal to metal or metal to plastic in the production of electronic or magnetic components in which the thickness of the bond line is less than 0.25 mils.

"Tire repair" means a process that includes expanding a hole, tear, fissure or blemish in a tire casing by grinding or gouging, applying adhesive, and filling the hole or crevice with rubber.

"Traffic marking tape" means preformed reflective film intended by the manufacturer for application to public streets, highways and other surfaces, including curbs, berms, driveways and parking lots.

"Traffic marking tape adhesive primer" means any primer intended by the manufacturer for application to surfaces prior to installation of traffic marking tape.

"Undersea-based weapons systems components" means the fabrication of parts, assembly of parts or completed units of any portion of a missile launching system used on undersea ships.

"Waterproof resorcinol glue" means a two-part resorcinol-resin-based adhesive designed for applications where the bond line must be resistant to conditions of continuous immersion in fresh or salt water.

R307-342-5. VOC Content Limits.

(1) Beginning September 1, 2014, no person shall manufacturer any adhesive, sealant, adhesive primer or sealant primer with a VOC content in excess of the limits in Table 1.

(2) Beginning September 1, 2014, no person shall sell supply or offer for sale any adhesive, sealant, adhesive primer or sealant primer with a VOC content in excess of the limits in Table 1 and that was manufactured on or after September 1, 2014.

(3) Beginning September 1, 2014, no person shall apply any adhesive, sealant, adhesive primer or sealant primer with a VOC content in excess of the limits in Table 1 unless that person uses an add-on control device as specified in R307-342-8 or unless the adhesive, sealant, adhesive primer or sealant primer was manufactured before September 1, 2014.

(4) The VOC content limits in Table 1 for adhesives applied to particular substrates shall apply as follows:

(a) If a person uses an adhesive or sealant subject to a specific VOC content limit for such adhesive or sealant in Table 1, such specific limit is applicable rather than an adhesive-to-substrate limit; and

(b) If an adhesive is used to bond dissimilar substrates

together, the applicable substrate category with the highest VOC content shall be the limit for such use.

TABLE 1

VOC Content Limits for Adhesives, Sealants, Adhesive Primers, Sealant Primers and Adhesives Applied to Particular Substrates (minus water and exempt compounds (compounds that are not defined as VOC in R307-101-2)), as applied

Adhesive, Sealant, Adhesive Primer Category	VOC Content Limit (grams VOC/liter)
Adhesives	
ABS welding	400
Ceramic tile installation	130
Computer diskette jacket manufacturing	850
Contact bond	250
Cove base installation	150
CPVC welding	490
Indoor floor covering installation	150
Metal to urethane/rubber molding or casting	850
Multipurpose construction	200
Nonmembrane roof installation/repair	300
Other plastic cement welding	510
Outdoor floor covering installation	250
PVC welding	510
Single-ply roof membrane installation/repair	250
Structural glazing	100
Thin metal laminating	780

Tire retread	100
Perimeter bonded sheet vinyl flooring installation	660
Waterproof resorcinol glue	170
Sheet-applied rubber installation	850
Sealants	
Architectural	250
Marine deck	760
Nonmembrane roof installation/repair	300
Roadway	250
Single-ply roof membrane	450
Other	420
Adhesive Primers	
Automotive glass	700
Plastic cement welding	650
Single-ply roof membrane	250
Traffic marking tape	150
Other	250
Sealant Primers	
Non-porous architectural	250
Porous architectural	775
Marine deck	760
Other	750
Adhesives Applied to the Listed Substrate	
Flexible vinyl	250
Fiberglass	200

Metal	30
Porous material	120
Rubber	250
Other substrates	250

R307-342-6. Application Equipment.

(1) An operator shall only use the following equipment to apply adhesives and sealants:

(a) Electrostatic application;

(b) Flow coater;

(c) Roll coater;

(d) Dip coater;

(e) Hand application method;

(f) Airless spray and air-assisted airless spray;

(g) High volume, low pressure spray equipment operated in accordance with the manufacturers specifications; or

(h) Other methods having a minimum 65% transfer efficiency.

(2) Removal of an adhesive, sealant, adhesive primer or sealant primer from the parts of spray application equipment shall be performed as follows:

(a) In an enclosed cleaning system;

(b) Using a solvent (excluding water and solvents exempt from the definition of volatile organic compounds found in R307-101-2) with a VOC content less than or equal to 70 grams of VOC per liter of material; or

(c) Parts containing dried adhesive may be soaked in a solvent if the composite vapor pressure of the solvent, excluding water and exempt compounds, is less than or equal to 9.5 mm Hg at 20 degrees Celsius and the parts and solvent are in a closed container that remains closed except when adding parts to or removing parts from the container.

R307-342-7. Administrative Requirements.

(1) Each person that manufactures adhesives, sealants, and adhesive primers subject to this rule shall maintain records demonstrating compliance.

(2) Commercial and industrial operations that are not exempt under R307-342-3 shall maintain records demonstrating compliance with this rule, including:

(a) A list of each adhesive, sealant, adhesive primer, sealant primer cleanup solvent and surface preparation solvent in use and in storage;

(b) A material data sheet for each adhesive, sealant, adhesive primer, sealant primer, cleanup solvent and surface preparation solvent;

(c) A list of catalysts, reducers or other components used and the mix ratio;

(d) The VOC content or vapor pressure, as applied; and

(e) The monthly volume of each adhesive, sealant, adhesive

primer, sealant primer cleanup solvent and surface preparation solvent used.

(2) Except as provided in R307-342-6(2), no person shall use materials containing VOCs for the removal of adhesives, sealants, or adhesive or sealant primers from surfaces, other than spray application equipment, unless the composite vapor pressure of the solvent used is less than 45 mm Hg at 20 degrees Celsius.

R307-342-8. Add-On Controls Systems Operations.

(1) The owner or operator shall install and maintain an incinerator, carbon adsorption, or any other add-on emission control system, provided that the emission control system is operated and maintained in accordance with the manufacturer recommendations in order to maintain at least 85% capture and control efficiency. Determination of overall capture and control efficiency shall be determined using EPA approved methods, as follows.

(a) The capture efficiency of a VOC emission control system's VOC collection device shall be determined according to EPA's "Guidelines for Determining Capture Efficiency," January 9, 1995 and 40 CFR Part 51, Appendix M, Methods 204-204F, as applicable.

(b) The control efficiency of a VOC emission control system's VOC control device shall be determined using test methods in Appendices A-1, A-6, and A-7 to 40 CFR Part 60, for measuring flow rates, total gaseous organic concentrations, or emissions of exempt compounds, as applicable.

(c) An alternative test method may be substituted for the preceding test methods after review and approval by the EPA Administrator.

(2) The owner or operator of a control system shall provide documentation that the emission control system will attain the requirements of R307-342-8(1).

(3) The owner or operator shall maintain records of key system parameters necessary to ensure compliance with R307-342-8. Key system parameters may include, but are not limited to, temperature, pressure and flow rates. Operator inspection schedule, monitoring, recordkeeping, and key parameters shall be in accordance with the manufacturer's recommendations, and as required to demonstrate operations are providing continuous emission reduction from the source during all periods that the operations cause emissions from the source.

(4) The owner or operator shall maintain for a minimum of two years records of operating and maintenance sufficient to demonstrate that the equipment is being operated and maintained in accordance with the manufacturer recommendations.

R307-342-9. Container Labeling.

Each manufacturer of an adhesive, sealant, adhesive primer or sealant primer subject to this rule shall display the following information on the product container or label:

(1) A statement of the manufacture's recommendation

regarding thinning, reducing, or mixing of the product.

(a) R307-342-9 does not apply to the thinning of a product with water.

(b) If the thinning of the product prior to use is not necessary, the recommendation shall specify that the product is to be applied without thinning.

(2) The maximum or the actual VOC content of the product in accordance with Table 1, as supplied, displayed in grams of VOC per liter of product; and

(3) The maximum or the actual VOC content of the product in accordance with Table 1, which includes the manufacture's maximum recommendation for thinning, as applied, displayed in grams of VOC per liter of product.

KEY: air pollution, adhesives, sealants, primers
Date of Enactment or Last Substantive Amendment: December 1, 2014
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)

R307. Environmental Quality, Air Quality.
R307-343. Emissions Standards for Wood Furniture Manufacturing Operations.
R307-343-1. Purpose.

The purpose of R307-343 is to limit volatile organic compound (VOC) emissions from wood furniture manufacturing.

R307-343-2. Applicability.

R307-343 applies to wood furniture manufacturing operations, including related cleaning activities, that have the potential to emit 2.7 tons or more per year of VOCs and that are located in Box Elder, Cache, Davis, Salt Lake, Utah, Tooele, and Weber counties.

R307-343-3. Definitions.

The following additional definitions apply to R307-343:

"Affected source" means a wood furniture manufacturing source that meets the criteria in R307-343-2.

"As applied" means the volatile organic compound and solids content of the finishing material that is actually used for coating the substrate. It includes the contribution of materials used for in-house dilution of the finishing material.

"Coating" means a protective, decorative, or functional material applied in a thin layer to a surface. Such materials may include paints, topcoats, varnishes, sealers, stains, washcoats, basecoats, inks, and temporary protective coatings.

"Compliant coating" means a finishing material or strippable booth coating that meets the emission limits specified in R307-343-4(1).

"Control system" means the combination of capture and control devices used to reduce emissions to the atmosphere.

"Conventional Air Spray" means a spray coating method in which the coating is atomized by mixing it with compressed air at an air pressure greater than ten pounds per square inch (gauge) at

the point of atomization. Airless, air assisted airless spray technologies, and electrostatic spray technology are not considered conventional air spray.

"Finishing material" means a coating used in the wood furniture industry, including basecoats, stains, washcoats, sealers, and topcoats.

"Finishing Operation" means those activities in which a finishing material is applied to a substrate and is subsequently air-dried, cured in an oven, or cured by radiation.

"Sealer" means a finishing material used to seal the pores of a wood substrate before additional coats of finishing material are applied. A washcoat used to optimize aesthetics is not a sealer.

"Solids" means the part of the coating that remains after the coating is dried or cured; solids content is determined using data from EPA Method 24.

"Stain" means any color coat having a solids content by weight of no more than 8.0% that is applied in single or multiple coats directly to the substrate, including nongrain raising stains, equalizer stains, sap stains, body stains, no-wipe stains, penetrating stains, and toners.

"Topcoat" means the last film-building finishing material applied in a finishing system. Non-permanent final finishes are not topcoats.

"Touch-up and Repair" means the application of finishing materials to cover minor finishing imperfections.

"Washcoat" means a transparent special purpose coating having a solids content by weight of 12.0% or less that is applied over initial stains to protect and control color and to stiffen the wood fibers in order to aid sanding.

"Washoff operations" means those operations in which organic solvent is used to remove coating from a substrate.

"Wood furniture" means any product made of wood, a wood product such as rattan or wicker, or an engineered wood product such as particleboard that is manufactured under any of the following standard industrial classification codes: 2434, 2511, 2512, 2517, 2519, 2521, 2531, 2541, 2599, or 5712.

"Wood furniture manufacturing operations" means the finishing, cleaning, and washoff operations associated with the production of wood furniture or wood furniture components.

R307-343-4. VOC Content Limits.

(1) Each affected source subject to R307-343 shall limit VOC emissions by:

(a) Using the compliant coating method as described in R307-343-4(1)(a)(i) or using the control system method as described in R307-343-4(1)(a)(ii).

(i) Compliant coating method is the use of the topcoats or topcoat/sealer combinations in Table 1:

TABLE 1

Compliant Coating VOC Limitations

(values in pounds VOC per pound of solids, minus water and exempt solvents (compounds not classified as VOC as defined in R307-101-2), as applied)

COATING CATEGORY	VOC Content Limitations	
	Effective Through December 31,2014	Effective Beginning January 1, 2015
Topcoats	0.8	0.4
Topcoat/Sealer combination		
Topcoat	1.8	0.9
Sealer	1.9	0.9
Acid-cured, alkyd amino topcoat/sealer combinations		
Acid-cured, alkyd amino topcoat	2.0	1.0
Acid-cured, alkyd amino vinyl Sealer	2.3	1.2

(ii) Control system method is the use of a VOC control system achieving a 85% or greater emissions reduction.

(b) Using strippable spray booth coatings that contain no greater than 0.8 pounds VOC per pound solids as applied.

(c) Using closed containers for the storing of finishing, gluing, cleaning and washoff materials.

R307-343-5. Application Equipment Requirements.

(1) All coatings shall be applied using equipment having a minimum 65% transfer efficiency, except as allowed under R307-343-5(3) and operated according to the equipment manufacturer specifications. Equipment meeting the transfer efficiency requirement includes:

(a) Brush, dip, or roll coating;

(b) Electrostatic application; and

(c) High volume, low pressure (HVLP) spray equipment.

(2) Other coating application methods that achieve transfer efficiency equivalent to HVLP or electrostatic spray application methods may be used.

(3) Conventional air spray methods may be used under the following circumstances:

(a) To apply finishing materials that have no greater than 1.0 pound of VOC per pound of solids, as applied;

(b) For touch-up and repair under the following circumstances:

(i) The touchup and repair occurs after completion of the finishing operation; or

(ii) The touchup and repair occurs after the application of stain and before the application of any other type of finishing material, and the materials used for touchup and repair are applied from a container that has a volume of no more than 2.0 gallons;

(c) When the spray gun is aimed and triggered automatically, not manually;

(d) When the emissions from the finishing application station are directed to a control device;

(e) When the conventional air gun is used to apply finishing materials and the cumulative total usage of that finishing material is no more than 10% of the total gallons of finishing material used during the calendar year; or

(f) When the conventional air gun is used to apply stain on a part for which it is technically or economically infeasible to use any other spray application technology. The following criteria shall be used, either independently or in combination, to support the affected source's claim of technical or economic infeasibility:

(i) The production speed is too high or the part shape is too complex for one operator to coat the part and the application station is not large enough to accommodate an additional operator; or

(ii) The excessively large vertical spray area of the part makes it difficult to avoid sagging or runs in the stain.

R307-343-6. Add-on Controls Systems Operations.

(1) The owner or operator shall install and maintain an incinerator, carbon adsorption, or any other add-on emission control system, provided that the emission control system is operated and maintained in accordance with the manufacturer recommendations in order to maintain at least 85% capture and control efficiency. Determination of overall capture and control efficiency shall be determined using EPA approved methods, as follows.

(a) The capture efficiency of a VOC emission control system's VOC collection device shall be determined according to EPA's "Guidelines for Determining Capture Efficiency," January 9, 1995 and 40 CFR Part 51, Appendix M, Methods 204-204F, as applicable.

(b) The control efficiency of a VOC emission control system's VOC control device shall be determined using test methods in Appendices A-1, A-6, and A-7 to 40 CFR Part 60, for measuring flow rates, total gaseous organic concentrations, or emissions of exempt compounds, as applicable.

(c) An alternative test method may be substituted for the preceding test methods after review and approval by the EPA Administrator.

(2) The owner or operator of a control system shall provide documentation that the emission control system will attain the requirements of R307-343-6(1).

(3) The owner or operator shall maintain records of key

system parameters necessary to ensure compliance with R307-343-6. Key system parameters may include, but are not limited to, temperature, pressure and flow rates. Operator inspection schedule, monitoring, recordkeeping, and key parameters shall be in accordance with the manufacturer's recommendations, and as required to demonstrate operations are providing continuous emission reduction from the source during all periods that the operations cause emissions from the source.

(4) The owner or operator shall maintain for a minimum of two years records of operating and maintenance sufficient to demonstrate that the equipment is being operated and maintained in accordance with the manufacturer recommendations.

R307-343-7. Work Practices and Recordkeeping.

(1) Control techniques and work practices shall be implemented at all times to reduce VOC emissions from fugitive type sources. Control techniques and work practices shall include:

(a) Storing all VOC-containing coatings, thinners, and coating-related waste materials in closed containers;

(b) Ensuring that mixing and storage containers used for VOC-containing coatings, thinners, and coating-related waste material are kept closed at all times except when depositing or removing these materials;

(c) Minimizing spills of VOC-containing coatings, thinners, and coating-related waste materials; and

(d) Conveying VOC-containing coatings, thinners, and coating-related waste materials from one location to another in closed containers or pipes.

(2) The work practices for cleaning materials shall be implemented at all times to reduce VOC emissions from fugitive type sources. The work practices shall include:

(a) Storing all VOC-containing cleaning materials and used shop towels in closed containers;

(b) Ensuring that storage containers used for VOC-containing cleaning materials are kept closed at all times except when depositing or removing these materials;

(c) Minimizing spills of VOC-containing cleaning materials;

(d) Conveying VOC-containing cleaning materials from one location to another in closed containers or pipes; and

(e) Minimizing VOC emissions from cleaning of application, storage, mixing, and conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers.

(3) All persons shall perform solvent cleaning operations with cleaning material having VOC content (excluding compounds not classified as VOC) of 0.21 pounds per gallon or less.

(4) For each calendar year, all sources subject to R307-343 shall maintain records demonstrating compliance with R307-343-4, R307-343-5 and R307-343-7.

(a) Records shall include, but shall not be limited to, inventory and product data sheets for all coatings and solvents

subject to R307-343.

(b) These records shall be made available to the director upon request.

KEY: air pollution, wood furniture, coatings
Date of Enactment or Last Substantive Amendment: December 1, 2014
Notice of Continuation: February 1, 2012
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a); 19-2-104(3)(e)

R307. Environmental Quality, Air Quality.
R307-344. Paper, Film, and Foil Coatings.
R307-344-1. Purpose.

The purpose of this rule is to limit volatile organic compound (VOC) emissions from roll, knife, and rotogravure coaters and drying ovens of paper, film, and foil coating operations.

R307-344-2. Applicability.

R307-344 applies to sources located in Box Elder, Cache, Davis, Salt Lake, Tooele, Utah and Weber counties that have the potential to emit 2.7 tons per year or more of VOC, including related cleaning activities.

R307-344-3. Definitions.

The following additional definitions apply to R307-344:

"Coating" means a protective, functional, or decorative film applied in a thin layer to a surface. This term often applies to paints such as lacquers or enamels. It is also used to refer to films applied to paper, plastics, or foil.

"Foil coating" means a coating applied in a web coating process on any foil substrate other than paper or fabric, including, but not limited to, typewriter ribbons, photographic film, magnetic tape, and metal foil gift wrap, but excluding coatings applied to packaging used exclusively for food and health care products for human and animal consumption.

"Knife coating" means the application of a coating material to a substrate by means of drawing the substrate beneath a blade that spreads the coating evenly over the width of the substrate.

"Paper coating" means uniform distribution of coatings put on paper, film, foils and pressure sensitive tapes regardless of substrate. Related web coating processes on plastic film and decorative coatings on metal foil are included in this definition. Paper coating covers saturation operations as well as coating operations.

"Roll coating" means the application of a coating material to a substrate by means of hard rubber or steel rolls.

"Roll printing" means the application of words, designs and pictures to a substrate usually by means of a series of hard rubber or steel rolls each with only partial coverage.

"Rotogravure coating" means the application of a uniform layer of material across the entire width of the web to substrate

by means of a roll coating technique in which the pattern to be applied is etched on the coating roll. The coating material is picked up in these recessed areas and is transferred to the substrate.

"Saturation" means dipping the web into a bath.

"Web" means a continuous sheet of substrate.

R307-344-4. VOC Content Limits.

Each owner or operator shall not apply coatings with a VOC content in excess of the amounts specified in Table 1 or shall use an add-on control device as specified in R307-344-6.

TABLE 1

Paper, Film, and Foil Coating Limitations
(values in pounds VOC per pound of coating, minus water and exempt solvents (compounds not classified as VOC as defined in R307-101-2), as applied)

COATING CATEGORY	VOC EMISSION RATES
Paper, film and foil	0.08
Pressure sensitive tape and label	0.067

R307-344-5. Work Practices and Recordkeeping.

(1) Control techniques and work practices are to be implemented at all times to reduce VOC emissions. Control techniques and work practices include:

(a) Using tight fitting covers for open tanks;

(b) Using covered containers for solvent wiping cloths;

(c) Using collection hoods for areas where solvent is used for cleanup;

(d) Minimizing spills of VOC-containing cleaning materials;

(e) Conveying VOC-containing materials from one location to another in closed containers or pipes;

(f) Cleaning spray guns in enclosed systems; and

(g) Using recycled solvents for cleaning.

(2) All sources subject to R307-344 shall maintain records demonstrating compliance with R307-344-4 and R307-344-5.

(a) Records shall include, but not limited to, inventory and product data sheets of all coatings and solvents subject to R307-344.

(b) These records shall be available to the director upon request.

(3) No person shall apply coatings unless these materials are applied with equipment operated according to the manufacturer's specifications, and by the use of one of the following methods:

(a) Flow coater;

(b) Roll coater;

(c) Dip coater;
(d) Foam coater;
(e) Die coater;
(f) Hand application methods;
(g) High-volume, low pressure (HVLP) spray; or
(h) Other application method capable of achieving at least 65% transfer efficiency, as certified by the manufacturer.

(4) All persons shall perform solvent cleaning operations with cleaning materials having VOC content (excluding water and solvents exempt from the definition of volatile organic compounds found in R307-101-2) of 0.21 pounds per gallon or less.

R307-344-6. Add-On Controls Systems Operations.

(1) The owner or operator shall install and maintain an incinerator, carbon adsorption, or any other add-on emission control system, provided that the emission control system is operated and maintained in accordance with the manufacturer recommendations in order to maintain at least 90% capture and control efficiency. Determination of overall capture and control efficiency shall be determined using EPA approved methods, as follows.

(a) The capture efficiency of a VOC emission control system's VOC collection device shall be determined according to EPA's "Guidelines for Determining Capture Efficiency," January 9, 1995 and 40 CFR Part 51, Appendix M, Methods 204-204F, as applicable.

(b) The control efficiency of a VOC emission control system's VOC control device shall be determined using test methods in Appendices A-1, A-6, and A-7 to 40 CFR Part 60, for measuring flow rates, total gaseous organic concentrations, or emissions of exempt compounds, as applicable.

(c) An alternative test method may be substituted for the preceding test methods after review and approval by the EPA Administrator.

(2) The owner or operator of a control system shall provide documentation that the emission control system will attain the requirements of R307-344-6(1).

(3) The owner or operator shall maintain records of key system parameters necessary to ensure compliance with R307-344-6. Key system parameters may include, but are not limited to, temperature, pressure and flow rates. Operator inspection schedule, monitoring, recordkeeping, and key parameters shall be in accordance with the manufacturer's recommendations, and as required to demonstrate operations are providing continuous emission reduction from the source during all periods that the operations cause emissions from the source.

(4) The owner or operator shall maintain for a minimum of two years records of operating and maintenance sufficient to demonstrate that the equipment is being operated and maintained in accordance with the manufacturer recommendations.

KEY: VOC emission, paper coating, film coating, foil coating

Date of Enactment or Last Substantive Amendment: December 1, 2014
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)

R307. Environmental Quality, Air Quality.
R307-345. Fabric and Vinyl Coatings.
R307-345-1. Purpose.

The purpose of this rule is to limit volatile organic compound (VOC) emissions from fabric and vinyl coating operations, which use roll, knife, or rotogravure coaters and drying ovens.

R307-345-2. Applicability.

R307-345 applies to sources located in Box Elder, Cache, Davis, Salt Lake, Tooele, Utah and Weber counties that have the potential to emit 2.7 tons per year or more of VOC, including related cleaning activities.

R307-345-3. Definitions.

The following additional definitions apply to R307-345:

"Coating" means a protective, functional, or decorative film applied in a thin layer to a surface.

"Fabric coating" means the coating or saturation of a textile substrate with a knife, roll or rotogravure coater to impart characteristics that are not initially present, such as strength, stability, water or acid repellency, or appearance. Fabric coatings can include, but are not limited to, industrial and electrical tapes, tie cord, utility meter seals, imitation leathers, tarpaulins, shoe material, and upholstery fabrics.

"Knife coating" means the application of a coating material to a substrate by means of drawing the substrate beneath a blade that spreads the coating evenly over the width of the substrate.

"Roller coating" the coating material is applied to the moving fabric, in a direction opposite to the movement of the substrate, by hard rubber or steel rolls.

"Rotogravure coating" means the application of a uniform layer of material across the entire width of the web to substrate by means of a roll coating technique in which the pattern to be applied is etched on the coating roll. The coating material is picked up in these recessed areas and is transferred to the substrate.

"Vinyl coating" means applying a decorative or protective top coat, or printing on vinyl coated fabric or vinyl sheets.

R307-345-4. VOC Content Limits.

(1) Each owner or operator shall not apply coatings with a VOC content in excess of the amounts specified in Table 1 or shall use an add-on control device as specified in R307-345-6.

TABLE 1

Fabric and Vinyl Coating Limitations
(values in pounds VOC per gallon of coating, minus water and

exempt solvents (compounds not classified as VOC), as applied)

COATING CATEGTORY	VOC CONTENT LIMITS Effective Through December 31, 2014	VOC CONTENT LIMITS Effective Beginning January 1, 2015
Fabric	2.9	2.2
Vinyl	3.8	2.2

(2) Organosol and plastisol coatings shall not be used to bubble emissions from vinyl printing and top coating.

R307-345-5. Work Practices and Recordkeeping.

(1) Control techniques and work practices are to be implemented at all times to reduce VOC emissions. Control techniques and work practices include:

(a) Tight fitting covers for open tanks or drums;

(b) Covered containers for solvent wiping cloths;

(c) Collection hoods for areas where solvent is used for cleanup;

(d) Covered mixing tanks; and

(e) Covered hoods and oven routed to add-on control devices, which may include, but are not limited to, after burners, thermal incinerators, catalytic oxidation, or carbon adsorption.

(2) No person shall apply any coating unless the coating application method achieves a demonstrated 65% transfer efficiency.

The following applications achieve a minimum of 65% transfer efficiency and must be operated in accordance with the manufacturers specifications:

(a) Foam coat;

(b) Flow coat;

(c) Roll coat;

(d) Dip coat;

(e) Die coat;

(e) High-volume, low-pressure (HVLP) spray;

(f) Hand application methods; or

(g) Other application method capable of achieving at least 65% transfer efficiency, as certified by the manufacturer.

(3) All persons shall perform solvent cleaning operations with cleaning material having VOC content (excluding compounds not classified as VOC) of 0.21 pounds per gallon or less.

(4) All sources subject to R307-345 shall maintain records demonstrating compliance with R307-345-4 and R307-345-5.

(a) Records shall include, but not be limited to, inventory and product data sheets of all coatings and solvents subject to R307-345.

(b) These records shall be available to the director upon request.

R307-345-6. Add-On Controls Systems Operations.

(1) The owner or operator shall install and maintain an incinerator, carbon adsorption, or any other add-on emission control system, provided that the emission control system is operated and maintained in accordance with the manufacturer recommendations in order to maintain at least 90% capture and control efficiency. Determination of overall capture and control efficiency shall be determined using EPA approved methods, as follows.

(a) The capture efficiency of a VOC emission control system's VOC collection device shall be determined according to EPA's "Guidelines for Determining Capture Efficiency," January 9, 1995 and 40 CFR Part 51, Appendix M, Methods 204-204F, as applicable.

(b) The control efficiency of a VOC emission control system's VOC control device shall be determined using test methods in Appendices A-1, A-6, and A-7 to 40 CFR Part 60, for measuring flow rates, total gaseous organic concentrations, or emissions of exempt compounds, as applicable.

(c) An alternative test method may be substituted for the preceding test methods after review and approval by the EPA Administrator.

(2) The owner or operator of a control system shall provide documentation that the emission control system will attain the requirements of R307-345-6(1).

(3) The owner or operator shall maintain records of key system parameters necessary to ensure compliance with R307-345-6. Key system parameters may include, but are not limited to, temperature, pressure and flow rates. Operator inspection schedule, monitoring, recordkeeping, and key parameters shall be in accordance with the manufacturer's recommendations, and as required to demonstrate operations are providing continuous emission reduction from the source during all periods that the operations cause emissions from the source.

(4) The owner or operator shall maintain for a minimum of two years records of operating and maintenance sufficient to demonstrate that the equipment is being operated and maintained in accordance with the manufacturer recommendations.

KEY: air pollution, emission controls, fabric coating, vinyl coating
Date of Enactment or Last Substantive Amendment: December 1, 2014
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)

R307. Environmental Quality, Air Quality.
R307-346. Metal Furniture Surface Coatings.
R307-346-1. Purpose.

The purpose of this rule is to limit volatile organic compound (VOC) emissions from metal furniture surface coating operations in application areas, flash-off areas, and ovens of metal furniture coating lines involved in prime and top-coat or single coat operations.

R307-346-2. Applicability.

R307-346 applies to sources located in Box Elder, Cache, Davis, Salt Lake, Tooele, Utah and Weber counties that have the potential to emit 2.7 tons per year or more of VOC, including related cleaning activities.

R307-346-3. Exemptions.

(1) The requirements of R307-346 do not apply to the following:

(a) Stencil coatings;
(b) Safety-indicating coatings;
(c) Solid-film lubricants;
(d) Electrical-insulating and thermal-conducting coatings;
(e) Touch-up and repair coatings; or
(f) Coating applications utilizing hand-held aerosol cans.

R307-346-4. Definitions.

The following additional definitions apply to R307-346:

"Air dried coating" means coatings that are dried by the use of air or a forced warm air at temperatures up to 194 degrees Fahrenheit.

"Application area" means the area where the coating is applied by spraying, dipping, or flow coating techniques.

"Baked coating" means a coating that is cured at a temperature at or above 194 degrees Fahrenheit.

"Coating" means a protective, functional, or decorative film applied in a thin layer to a surface. This term applies to paints, sealants, caulks, inks, adhesives, and maskants.

"Extreme performance coatings" means coatings designed for harsh exposure or extreme environmental conditions.

"Maskants" means a material that protects a metal surface during the etching process.

"Metal furniture coating" means the surface coating of any furniture made of metal or any metal part that will be assembled with other metal, wood fabric, plastic, or glass parts to form a furniture piece.

R307-346-5. VOC Content Limits.

Each owner or operator shall not apply coatings with a VOC content in excess of the amounts specified in Table 1 or shall use an add-on control device as specified in R307-346-7.

TABLE 1

METAL FURNITURE SURFACE COATING VOC LIMITS
(values in pounds of VOC per gallon of coating, minus water and exempt solvents (compounds not classified as VOC as defined in R307-101-2, as applied)

COATING CATEGORY	VOC CONTENT LIMITS

	Baked	Air Dried
General, One Component	2.3	2.3
General, Multi-Component	2.3	2.8
Extreme High Gloss	3.0	2.8
Extreme Performance	3.0	3.5
Heat Resistant	3.0	3.5
Metallic	3.5	3.5
Pretreatment Coatings	3.5	3.5
Solar Absorbent	3.0	3.5

R307-346-6. Work Practices.

(1) The owner or operator shall:

(a) Store all VOC-containing coatings, thinners, and cleaning materials in closed containers;

(b) Minimize spills of VOC-containing coatings, thinners, and cleaning materials;

(c) Clean up spills immediately;

(d) Convey any coatings, thinners, and cleaning materials in closed containers or pipes;

(e) Close mixing vessels that contain VOC coatings and other materials except when specifically in use; and

(f) Minimize usage of solvents during cleaning of storage, mixing, and conveying equipment.

(2) No person shall apply any coating unless the coating application method achieves a demonstrated 65% transfer efficiency.

The following applications achieve a minimum of 65% transfer efficiency and shall be operated in accordance with the manufacturers specifications:

(a) Electrostatic application;

(b) Electrodeposition;

(c) Brush coat;

(d) Flow coat;

(e) Roll coat;

(f) Dip coat;

(g) Continuous coating;

(h) High-volume, low-pressure (HVLP) spray; or

(i) Other application method capable of achieving at least 65% transfer efficiency, as certified by the manufacturer.

(3) All persons shall perform solvent cleaning operations with cleaning material having VOC content (excluding water and solvents exempt from the definition of volatile organic compounds found in R307-101-2) of 0.21 pounds per gallon or less, unless such cleaning operations are performed within the control of the

emission control system of R307-346-7.

(4) All sources subject to R307-346 shall maintain records demonstrating compliance with R307-346-5 and R307-346-6.

(a) Records shall include, but not be limited to, inventory and product data sheets of all coatings and solvents subject to R307-346.

(b) These records shall be available to the director upon request.

R307-346-7. Add-On Controls Systems Operations.

(1) The owner or operator shall install and maintain an incinerator, carbon adsorption, or any other add-on emission control system, provided that the emission control system is operated and maintained in accordance with the manufacturer recommendations in order to maintain at least 90% capture and control efficiency. Determination of overall capture and control efficiency shall be determined using EPA approved methods, as follows.

(a) The capture efficiency of a VOC emission control system's VOC collection device shall be determined according to EPA's "Guidelines for Determining Capture Efficiency," January 9, 1995 and 40 CFR Part 51, Appendix M, Methods 204-204F, as applicable.

(b) The control efficiency of a VOC emission control system's VOC control device shall be determined using test methods in Appendices A-1, A-6, and A-7 to 40 CFR Part 60, for measuring flow rates, total gaseous organic concentrations, or emissions of exempt compounds, as applicable.

(c) An alternative test method may be substituted for the preceding test methods after review and approval by the EPA Administrator.

(2) The owner or operator of a control system shall provide documentation that the emission control system will attain the requirements of R307-346-7(1).

(3) The owner or operator shall maintain records of key system parameters necessary to ensure compliance with R307-346-7. Key system parameters may include, but are not limited to, temperature, pressure and flow rates. Operator inspection schedule, monitoring, recordkeeping, and key parameters shall be in accordance with the manufacturer's recommendations, and as required to demonstrate operations are providing continuous emission reduction from the source during all periods that the operations cause emissions from the source.

(4) The owner or operator shall maintain for a minimum of two years records of operating and maintenance sufficient to demonstrate that the equipment is being operated and maintained in accordance with the manufacturer recommendations.

KEY: air pollution, emission controls, surface coating, metal furniture
Date of Enactment or Last Substantive Amendment: December 1, 2014
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)

R307. Environmental Quality, Air Quality.
R307-347. Large Appliance Surface Coatings.
R307-347-1. Purpose.

The purpose of this rule is to reduce volatile organic compound (VOC) emissions from large appliance surface coating operations.

R307-347-2. Applicability.

R307-347 applies to sources located in Box Elder, Cache, Davis, Salt Lake, Tooele, Utah and Weber counties that have the potential to emit 2.7 tons per year or more of VOC, including related cleaning activities.

R307-347-3. Exemptions.

(1) The requirements of R307-347 do not apply to the following:

(a) Stencil coatings;
(b) Safety-indicating coatings;
(c) Solid-film lubricants;
(d) Electric-insulating and thermal-conducting coatings;
(e) Touch-up and repair coatings; or
(f) Coating application utilizing hand-held aerosol cans.

R307-347-4. Definitions.

The following additional definitions apply to R307-347:

"Air dried coating" means coatings that are dried by the use of air or a forced warm air at temperatures up to 194 degrees Fahrenheit.

"Baked coating" means a coating that is cured at a temperature at or above 198 degrees Fahrenheit.

"Coating" means a protective, functional, or decorative film applied in a thin layer to a surface. This term often applies to paints such as lacquers or enamels. It is also used to refer to films applied to paper, plastics, or foil.

"Extreme performance coatings" means coatings designed for harsh exposure or extreme environmental conditions.

"Large appliances" means doors, cases, lids, panels, and interior support parts of residential and commercial washers, dryers, ranges, refrigerators, freezers, water heaters, dishwashers, trash compactors, air conditioners, and other similar products.

R307-347-5. VOC Content Limits.

Each owner or operator shall not apply coatings with a VOC content in excess of the amounts specified in Table 1 or shall use an add-on control device as specified in R307-347-7.

TABLE 1

Large Appliance Coating Limitations

(values in pounds VOC per gallon of coating, minus water and exempt solvents(compounds not classified as VOC as defined in R307-101-2), as applied)

COATING CATEGORY	VOC CONTENT LIMITS	
	Baked	Air Dried
General, one component	2.3	2.3
General, multi-component	2.3	2.8
Extreme high gloss	3.0	2.8
Extreme performance	3.0	3.5
Heat resistance	3.0	3.5
Solar absorbent	3.0	3.5
Metallic	3.5	3.5
Pretreatment coatings	3.5	3.5

R307-347-6. Work Practices and Recordkeeping.

(1) The owner or operator shall:

(a) Store all VOC-containing coatings, thinners, and cleaning materials in closed containers;

(b) Minimize spills of VOC-containing coatings, thinners, and cleaning materials;

(c) Clean up spills immediately;

(d) Convey any coatings, thinners, and cleaning materials in closed containers or pipes;

(e) Close mixing vessels that contain VOC coatings and other materials except when specifically in use; and

(f) Minimize usage of solvents during cleaning of storage, mixing, and conveying equipment.

(2) All sources subject to R307-347 shall maintain records demonstrating compliance with R307-347-5 and R307-347-6.

(a) Records shall include, but not be limited to, inventory and product data sheets of all coatings and solvents subject to R307-347.

(b) These records shall be made available to the director upon request.

(3) No person shall apply any coating unless the coating application method achieves a demonstrated 65% transfer efficiency. The following applications achieve a minimum of 65% transfer efficiency and shall be operated in accordance with the manufacturers specifications:

(a) Electrostatic application;

(b) Electrodeposition;

(c) Brush coat;

(d) Flow coat;
(e) Roll coat;
(f) Dip coat;
(g) High-volume, low-pressure (HVLP) spray; or
(h) Other application method capable of achieving at least 65% transfer efficiency, as certified by the manufacturer.

(4) All persons shall perform solvent cleaning operations with cleaning materials having VOC content (excluding water and solvents exempt from the definition of volatile organic compounds found in R307-101-2) of 0.21 pounds per gallon or less.

R307-347-7. Add-On Controls Systems Operations.

(1) The owner or operator shall install and maintain an incinerator, carbon adsorption, or any other add-on emission control system, provided that the emission control system is operated and maintained in accordance with the manufacturer recommendations in order to maintain at least 90% capture and control efficiency. Determination of overall capture and control efficiency shall be determined using EPA approved methods, as follows.

(a) The capture efficiency of a VOC emission control system's VOC collection device shall be determined according to EPA's "Guidelines for Determining Capture Efficiency," January 9, 1995 and 40 CFR Part 51, Appendix M, Methods 204-204F, as applicable.

(b) The control efficiency of a VOC emission control system's VOC control device shall be determined using test methods in Appendices A-1, A-6, and A-7 to 40 CFR Part 60, for measuring flow rates, total gaseous organic concentrations, or emissions of exempt compounds, as applicable.

(c) An alternative test method may be substituted for the preceding test methods after review and approval by the EPA Administrator.

(2) The owner or operator of a control system shall provide documentation that the emission control system will attain the requirements of R307-347-7(1).

(3) The owner or operator shall maintain records of key system parameters necessary to ensure compliance with R307-347-7. Key system parameters may include, but are not limited to, temperature, pressure and flow rates. Operator inspection schedule, monitoring, recordkeeping, and key parameters shall be in accordance with the manufacturer's recommendations, and as required to demonstrate operations are providing continuous emission reduction from the source during all periods that the operations cause emissions from the source.

(4) The owner or operator shall maintain for a minimum of two years records of operating and maintenance sufficient to demonstrate that the equipment is being operated and maintained in accordance with the manufacturer recommendations.

KEY: air pollution, emission controls, large appliance, surface coating

Date of Enactment or Last Substantive Amendment: December 1, 2014
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)

R307. Environmental Quality, Air Quality.
R307-348. Magnet Wire Coatings.
R307-348-1. Purpose.

The purpose of this rule is to limit volatile organic compound (VOC) emissions from ovens of magnet wire coating operations.

R307-348-2. Applicability.

R307-348 applies to sources located in Box Elder, Cache, Davis, Salt Lake, Tooele, Utah and Weber counties that have the potential to emit 2.7 tons per year or more of VOC, including related cleaning activities.

R307-348-3. Definitions.

The following additional definition applies to R307-348:

"Magnet wire coating" means the process of applying coating of electrical insulating varnish or enamel to aluminum or copper wire for use in electrical machinery.

R307-348-4. VOC Content Limit.

(1) No owner or operator of a magnet wire coating oven may cause, allow or permit discharge into the atmosphere of any VOC in excess of 0.20 kilograms per liter of coating (1.7 pounds per gallon), excluding water, and exempt solvents (compounds not classified as VOCs) delivered to the coating applicator from magnet wire coating operations.

(a) Equivalency calculations for coatings shall be performed in units of pounds VOCs per gallon of solid rather than pounds VOCs per gallon of coating when determining compliance.

(b) The equivalent emission limit is 2.2 pounds VOCs per gallon solids.

(2) The emission limitations specified above shall be achieved by:

(a) The application of low solvent content coating technology; or

(b) The use of an add-on control device on magnet wire coating ovens as specified in R307-348-6.

R307-348-5. Work Practices and Recordkeeping.

(1) The owner or operator shall:

(a) Store all VOC-containing coatings and cleaning materials in closed containers;

(b) Minimize spills of VOC-containing coatings and cleaning materials;

(c) Clean up spills immediately;

(d) Convey any coatings, thinners, and cleaning materials in closed containers or pipes;

(e) Close mixing vessels that contain VOC coatings and other

materials except when specifically in use; and

(f) Minimize usage of solvents during cleaning of storage, mixing, and conveying equipment.

(2) All sources subject to R307-348 shall maintain records demonstrating compliance with R307-348-4, and these records shall be available to the director upon request.

R307-348-6. Add-On Control Systems Operations.

(1) The owner or operator shall install and maintain an incinerator, carbon adsorption, or any other add-on emission control system, provided that the emission control system is operated and maintained in accordance with the manufacturer recommendations in order to maintain at least 90% capture and control efficiency. Determination of overall capture and control efficiency shall be determined using EPA approved methods, as follows.

(a) The capture efficiency of a VOC emission control system's VOC collection device shall be determined according to EPA's "Guidelines for Determining Capture Efficiency," January 9, 1995 and 40 CFR Part 51, Appendix M, Methods 204-204F, as applicable.

(b) The control efficiency of a VOC emission control system's VOC control device shall be determined using test methods in Appendices A-1, A-6, and A-7 to 40 CFR Part 60, for measuring flow rates, total gaseous organic concentrations, or emissions of exempt compounds, as applicable.

(c) An alternative test method may be substituted for the preceding test methods after review and approval by the EPA Administrator.

(2) The owner or operator of a control system shall provide documentation that the emission control system will attain the requirements of R307-348-6(1).

(3) The owner or operator shall maintain records of key system parameters necessary to ensure compliance with R307-348-6. Key system parameters may include, but are not limited to, temperature, pressure and flow rates. Operator inspection schedule, monitoring, recordkeeping, and key parameters shall be in accordance with the manufacturer's recommendations, and as required to demonstrate operations are providing continuous emission reduction from the source during all periods that the operations cause emissions from the source.

(4) The owner or operator shall maintain for a minimum of two years records of operating and maintenance sufficient to demonstrate that the equipment is being operated and maintained in accordance with the manufacturer recommendations.

KEY: air pollution, emission controls, surface coating, magnet wire
Date of Enactment or Last Substantive Amendment: October 7, 2014
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)

R307. Environmental Quality, Air Quality.
R307-349. Flat Wood Panel Coatings.
R307-349-1. Purpose.

The purpose of R307-349 is to limit volatile organic compound (VOC) emissions from flat wood paneling coating sources.

R307-349-2. Applicability.

R307-349 applies to sources located in Box Elder, Cache, Davis, Salt Lake, Tooele, Utah and Weber counties that have the potential to emit 2.7 tons per year or more of VOC, including related cleaning activities.

R307-349-3. Definitions.

The following additional definitions apply to R307-349:

"Coating" means a protective, decorative, or functional material applied in a thin layer to a surface. Such materials may include paints, topcoats, varnishes, sealers, stains, washcoats, basecoats, inks, and temporary protective coatings.

"Finishing material" means a coating used in the flat wood panel industry, including basecoats, stains, washcoats, sealers, and topcoats.

"Flat wood paneling" means wood paneling products that are any decorative interior, exterior or tileboard (class I hardboard) panel to which a protective, decorative, or functional material or layer has been applied.

"Sealer" means a finishing material used to seal the pores of a wood substrate before additional coats of finishing material are applied. A washcoat used to optimize aesthetics is not a sealer.

"Strippable booth coating" means a coating that is applied to a booth wall to provide a protective film to receive overspray during finishing and that is subsequently peeled and disposed. Strippable booth coatings are intended to reduce or eliminate the need to use organic solvents to clean booth walls.

"Tileboard" means a premium interior wall paneling product made of hardboard that meets the specifications for Class I given by the standard ANSI/AHA A135.4-1995.

R307-349-4. VOC Content Limit.

(1) Each owner or operator shall not apply coatings with a VOC content in excess of 2.1 pounds of VOC per gallon, excluding water and exempt solvents (compounds not classified as VOC). The equivalent emission limit shall be 2.9 pounds VOCs per gallon solids coating; or

(2) Each owner or operator shall use an add-on control device as specified in R307-349-6.

R307-349-5. Work Practice and Recordkeeping.

(1) The owner or operator shall:

(a) Store all VOC-containing coatings, thinners, and cleaning materials in closed containers;

(b) Minimize spills of VOC-containing coatings, thinners, and cleaning materials;

(c) Clean up spills immediately;

(d) Convey any coatings, thinners, and cleaning materials in closed containers or pipes;

(e) Close mixing vessels that contain VOC coatings and other materials except when specifically in use; and

(f) Minimize usage of solvents during cleaning of storage, mixing, and conveying of equipment.

(2) No person shall apply any coating unless the coating application method achieves a demonstrated 65% transfer efficiency.

The following applications achieve a minimum of 65% transfer efficiency and shall be operated in accordance with the manufacturers specifications:

(a) Paint brush;

(b) Flow coat;

(c) Roll coat;

(d) Dip coat;

(e) Detailing or touch-up guns;

(e) High-volume, low-pressure (HVLP) spray;

(f) Hand application methods; or

(g) Other application method capable of achieving at least 65% transfer efficiency, as certified by the manufacturer.

(3) No person shall use organic solvents for cleaning operations that exceed a VOC content (excluding water and solvents exempt from the definition of volatile organic compounds found in R307-101-2) of 0.21 pounds per gallon and a strippable booth coating with a VOC content in excess of 3.8 pounds per gallon, excluding water and exempt solvents (compounds that are not defined as VOC).

(4) All sources subject to R307-349 shall maintain records demonstrating compliance with R307-349-4 and R307-349-5.

(a) Records should include, but not be limited to, inventory and products data sheets of all coatings and solvents subject to R307-349.

(b) These records shall be available to the Director upon request.

R307-349-6. Add-On Controls Systems Operations.

(1) The owner or operator shall install and maintain an incinerator, carbon adsorption, or any other add-on emission control system, provided that the emission control system is operated and maintained in accordance with the manufacturer recommendations in order to maintain at least 90% capture and control efficiency. Determination of overall capture and control efficiency shall be determined using EPA approved methods, as follows.

(a) The capture efficiency of a VOC emission control system's VOC collection device shall be determined according to EPA's "Guidelines for Determining Capture Efficiency," January 9, 1995 and 40 CFR Part 51, Appendix M, Methods 204-204F, as applicable.

(b) The control efficiency of a VOC emission control

system's VOC control device shall be determined using test methods in Appendices A-1, A-6, and A-7 to 40 CFR Part 60, for measuring flow rates, total gaseous organic concentrations, or emissions of exempt compounds, as applicable.

(c) An alternative test method may be substituted for the preceding test methods after review and approval by the EPA Administrator.

(2) The owner or operator of a control system shall provide documentation that the emission control system will attain the requirements of R307-349-6(1).

(3) The owner or operator shall maintain records of key system parameters necessary to ensure compliance with R307-349-6. Key system parameters may include, but are not limited to, temperature, pressure and flow rates. Operator inspection schedule, monitoring, recordkeeping, and key parameters shall be in accordance with the manufacturer's recommendations, and as required to demonstrate operations are providing continuous emission reduction from the source during all periods that the operations cause emissions from the source.

(4) The owner or operator shall maintain for a minimum of two years records of operating and maintenance sufficient to demonstrate that the equipment is being operated and maintained in accordance with the manufacturer recommendations.

KEY: air pollution, emission controls, flat wood paneling, coatings
Date of Enactment or Last Substantive Amendment: December 1, 2014
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)

R307. Environmental Quality, Air Quality.
R307-350. Miscellaneous Metal Parts and Products Coatings.
R307-350-1. Purpose.

The purpose of R307-350 is to limit volatile organic compound (VOC) emissions from miscellaneous metal parts and products coating operations.

R307-350-2. Applicability.

(1) R307-350 applies to sources located in Box Elder, Cache, Davis, Salt Lake, Tooele, Utah and Weber counties where the potential to emit VOC emissions from all miscellaneous metal product parts surface coating operations, including related cleaning activities, is 2.7 tons per year or more.

(2) R307-350 applies to, but is not limited to, the following industries:

(a) Large farm machinery (harvesting, fertilizing, planting, tractors, combines, etc.);

(b) Small farm machinery (lawn and garden tractors, lawn mowers, rototillers, etc.)

(c) Small appliance (fans, mixers, blenders, crock pots, vacuum cleaners, etc.);

(d) Commercial machinery (computers, typewriters,

calculators, vending machines, etc.);

(e) Industrial machinery (pumps, compressors, conveyor components, fans, blowers, transformers, etc.);

(f) Fabricated metal products (metal covered doors, frames, trailer frames, etc.); and

(g) Any other industrial category that coats metal parts or products under the standard Industrial Classification Code of major group 33 (primary metal industries), major group 34 (fabricated metal products), major group 35 (nonelectric machinery), major group 36 (electrical machinery), major group 37 (transportation equipment) major group 38 (miscellaneous instruments), and major group 39 (miscellaneous manufacturing industries).

R307-350-3. Exemptions.

(1) The requirements of R307-350 do not apply to the following:

(a) The surface coating of automobiles and light-duty trucks;

(b) Flat metal sheets and strips in the form of rolls or coils;

(c) Surface coating of aerospace vehicles and components;

(d) Automobile refinishing;

(e) The exterior of marine vessels;

(f) Customized top coating of automobiles and trucks if production is less than 35 vehicles per day;

(g) Military munitions manufactured by or for the Armed Forces of the United States;

(h) Operations that are exclusively covered by Department of Defense military technical data and performed by a Department of Defense contractor and/or on site at installations owned and/or operated by the United States Armed Forces; or

(i) Stripping of cured coatings and adhesives.

(2) The requirements of R307-350-5 do not apply to the following:

(a) Stencil coatings;

(b) Safety-indicating coatings;

(c) Solid-film lubricants;

(d) Electric-insulating and thermal-conducting coatings;

(e) Magnetic data storage disk coatings; or

(f) Plastic extruded onto metal parts to form a coating.

(3) The requirements of R307-350-6 do not apply to the following:

(a) Touch-up coatings;

(b) Repair coatings; or

(c) Textured finishes.

R307-350-4. Definitions.

The following additional definitions apply to R307-350:

"Aerospace vehicles and component" means any fabricated part, processed part, assembly of parts, or completed unit, with the exception of electronic components, of any aircraft including but

not limited to airplanes, helicopters, missiles, rockets and space vehicles.

"Air dried coating" means coatings that are dried by the use of air or a forced warm air at temperatures up to 194 degrees Fahrenheit.

"Baked coating" means coatings that are cured at a temperature at or above 194 degrees Fahrenheit.

"Camouflage coating" means coatings that are used, principally by the military, to conceal equipment from detection.

"Coating" means a material applied to a substrate for decorative, protective, or functional purposes.

(1) Such materials include, but are not limited to, paints, sealants, liquid plastic coatings, caulks, inks, adhesives, and maskants.

(2) Decorative, protective, or functional materials that consist only of protective oils for metal, acids, bases, or any combination of these substances, or paper film or plastic film which may be pre-coated with an adhesive by the film manufacturer, are not considered coatings.

"Coating application System" means all operations and equipment that applies, conveys, and dries a surface coating, including, but not limited to, spray booths, flow coaters, flash off areas, air dryers and ovens.

"Cured coating or adhesive" means a coating or adhesive, which is dry to the touch.

"Department of Defense military technical data" means a specification that specifies design requirements, such as materials to be used, how a requirement is to be achieved, or how an item is to be fabricated or constructed.

"Dip coating" means a method of applying coatings to a substrate by submersion into and removal from a coating bath.

"Electric-insulating varnish" means a non-convertible-type coating applied to electric motors, components of electric motors, or power transformers, to provide electrical, mechanical, and environmental protection or resistance.

"Electric-insulating and thermal-conducting" means a coating that displays an electrical insulation of at least 1000 volts DC per mil on a flat test plate and an average thermal conductivity of at least 0.27 BTU per hour-foot-degree-Fahrenheit.

"Electrostatic application" means a method of applying coating particles or coating droplets to a grounded substrate by electrically charging them.

"Etching filler" mean a coating that contains less than 23% solids by weight and at least 0.5% acid by weight, and is used instead of applying a pretreatment coating followed by a primer.

"Extreme high-gloss coating" means a coating which, when tested by the American Society for Testing Material (ASTM) Test Method D-523 adopted in 1980, shows a reflectance of 75 or more on a 60 degree meter.

"Extreme performance coatings" means coatings designed for harsh exposure or extreme environmental conditions.

"Flow coat" means a non-atomized technique of applying

coatings to a substrate with a fluid nozzle in a fan pattern with no air supplied to the nozzle.

"Heat-resistant coating" means a coating that must withstand a temperature of at least 400 degrees Fahrenheit during normal use.

"High-performance architectural coating" means a coating used to protect architectural subsections and which meets the requirements of the Architectural Aluminum Manufacturer Association's publication number AAMA 605.2-1980.

"High-temperature coating" means a coating that is certified to with-stand a temperature of 1,000 degrees Fahrenheit for 24 hours.

"High-volume, low-pressure (HVLP) spray" means a coating application system which is designed to be operated and which is operated between 0.1 and 10 pounds per square inch gauge (psig) air pressure, measured dynamically at the center of the air cap and the air horns.

"Magnetic data storage disk coating" means a coating used on a metal disk which stores data magnetically.

"Metallic coating" means a coating which contains more than 5 grams of metal particles per liter of coating, applied.

"Military specification coating" means a coating applied to metal parts and products and which has a formulation approved by a United States military agency for use on military equipment.

"Mold-seal coating" means the initial coating applied to a new mold or repaired mold to provide a smooth surface which, when coated with a mold release coating, prevents products from sticking to the mold.

"Multi-component coating" means a coating requiring the addition of a separate reactive resin, commonly known as a catalyst or hardener, before application to form an acceptable dry film.

"One-component coating" means a coating that is ready for application as it comes out of its container to form an acceptable dry film. A thinner, necessary to reduce the viscosity, is not considered a component.

"Pan backing coating" means a coating applied to the surface of pots, pans, or other cooking implements that are exposed directly to a flame or other heating elements.

"Prefabricated architectural component coatings" means coatings applied to metal parts and products that are to be used as an architectural structure or their appurtenances including, but not limited to, hand railings, cabinets, bathroom and kitchen fixtures, fences, rain-gutters and down-spouts, window screens, lamp-posts, heating and air conditioning equipment, other mechanical equipment, and large fixed stationary tools.

"Pretreatment coating" means a coating which contains no more than 12% solids by weight, and at least 0.5% acid, by weight, is used to provide surface etching, and is applied directly to metal surfaces to provide corrosion resistance, adhesion, and ease of stripping.

"Primer" means a coating applied to a surface to provide a

firm bond between the substrate and subsequent coats.

"Repair coating" means a coating used to recoat portions of a part or product which has sustained mechanical damage to the coating.

"Safety-indicating coating" means a coating which changes physical characteristics, such as color, to indicate unsafe condition.

"Silicone release coating" means any coating which contains silicone resin and is intended to prevent food from sticking to metal surfaces.

"Solar-absorbent coating" means a coating which has as its prime purpose the absorption of solar radiation.

"Solid-film lubricant" means a very thin coating consisting of a binder system containing as its chief pigment material one or more of molybdenum disulfide, graphite, polytetrafluoroethylene (PTEF) or other solids that act as a dry lubricant between faying surfaces.

"Stencil coating" means an ink or a coating which is rolled or brushed onto a template or stamp in order to add identifying letters or numbers to metal parts and products.

"Textured finish" means a rough surface produced by spraying and splattering large drops of coating onto a previously applied coating. The coatings used to form the appearance of the textured finish are referred to as textured coatings.

"Touch-up coating" means a coating used to cover minor coating imperfections appearing after the main coating operation.

"Vacuum-metalizing coating" means the undercoat applied to the substrate on which the metal is deposited or the overcoat applied directly to the metal film.

R307-350-5. VOC Content Limits.

(1) Each owner or operator shall not apply coatings with a VOC content in excess of the amounts specified in Table 1 or shall use an add-on control device as specified in R307-350-8.

TABLE 1

METAL PARTS AND PRODUCTS VOC CONTENT LIMITS
(values in pounds of VOC per gallon of coating, minus water and exempt solvents (compounds not classified as VOC as defined in R307-101-2), as applied)

COATING CATEGORY	VOC CONTENT LIMITS	
	Air Dried	Baked
General One Component	2.8	2.3
General Multi Component	2.8	2.3
Camouflage	3.5	3.5

Electric-Insulating varnish	3.5	3.5
Etching Filler	3.5	3.5
Extreme High-Gloss	3.5	3.0
Extreme Performance	3.5	3.0
Heat-Resistant	3.5	3.0
High Performance architectural	6.2	6.2
High Temperature	3.5	3.5
Metallic	3.5	3.5
Military Specification	2.8	2.3
Mold-Seal	3.5	3.5
Pan Backing	3.5	3.5
Prefabricated Architectural Multi-Component	3.5	2.3
Prefabricated Architectural One-Component	3.5	2.3
Pretreatment Coatings	3.5	3.5
Repair and Touch Up	3.5	3.0
Silicone Release	3.5	3.5
Solar-Absorbent	3.5	3.0
Vacuum-Metalizing	3.5	3.5
Drum Coating, New, Exterior	2.8	2.8
Drum Coating, New, Interior	3.5	3.5
Drum Coating, Reconditioned, Exterior	3.5	3.5
Drum Coating, Reconditioned, Interior	4.2	4.2

(2) If more than one content limit indicated in this section applies to a specific coating, then the most stringent content

limit shall apply.

R307-350-6. Application Methods.

No owner or operator of a facility shall apply VOC containing coatings to metal parts and products unless the coating is applied with equipment operated according to the equipment manufacturer specifications, and by the use of one of the following methods:

(1) Electrostatic application;

(2) Flow coat;

(3) Dip/electrodeposition coat;

(4) Roll coat;

(5) High-volume, low-pressure (HVLP) spray;

(6) Hand Application Methods;

(7) Airless or air-assisted airless spray may also be used for metal coatings with a viscosity of 15,000 centipoise or greater, as supplied; or

(8) Another application method capable of achieving transfer efficiency equivalent or better to HVLP spray, as certified by the manufacturer.

R307-350-7. Work Practices and Recordkeeping.

(1) Control techniques and work practices shall be implemented at all times to reduce VOC emissions. Control techniques and work practices shall include, but are not limited to:

(a) Storing all VOC-containing coatings, thinners, and coating-related waste materials in closed containers;

(b) Ensuring that mixing and storage containers used for VOC-containing coatings, thinners, and coating-related waste material are kept closed at all times except when depositing or removing these materials;

(c) Minimizing spills of VOC-containing coatings, thinners, and coating-related waste materials; and

(d) Conveying VOC-containing coatings, thinners, and coating-related waste materials from one location to another in closed container or pipes; and

(e) Minimizing VOC emission from cleaning of application, storage, mixing, and conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers.

(2) All persons shall perform solvent cleaning operations with cleaning material having VOC content (excluding water and solvents exempt from the definition of volatile organic compounds found in R307-101-2) of 0.21 pounds per gallon or less.

(3) All sources subject to R307-350 shall maintain records demonstrating compliance with R307-350-5, R307-350-6, and R307-350-7(2).

(a) Records shall include, but not be limited to, inventory and product data sheets of all coatings and solvents subject to R307-350.

(b) These records shall be available to the director upon request.

R307-350-8. Add-On Controls Systems Operations.

(1) The owner or operator shall install and maintain an incinerator, carbon adsorption, or any other add-on emission control system, provided that the emission control system is operated and maintained in accordance with the manufacturer recommendations in order to maintain at least 90% capture and control efficiency. Determination of overall capture and control efficiency shall be determined using EPA approved methods, as follows.

(a) The capture efficiency of a VOC emission control system's VOC collection device shall be determined according to EPA's "Guidelines for Determining Capture Efficiency," January 9, 1995 and 40 CFR Part 51, Appendix M, Methods 204-204F, as applicable.

(b) The control efficiency of a VOC emission control system's VOC control device shall be determined using test methods in Appendices A-1, A-6, and A-7 to 40 CFR Part 60, for measuring flow rates, total gaseous organic concentrations, or emissions of exempt compounds, as applicable.

(c) An alternative test method may be substituted for the preceding test methods after review and approval by the EPA Administrator.

(2) The owner or operator of a control system shall provide documentation that the emission control system will attain the requirements of R307-350-8(1).

(3) The owner or operator shall maintain records of key system parameters necessary to ensure compliance with R307-350-8. Key system parameters may include, but are not limited to, temperature, pressure and flow rates. Operator inspection schedule, monitoring, recordkeeping, and key parameters shall be in accordance with the manufacturer's recommendations, and as required to demonstrate operations are providing continuous emission reduction from the source during all periods that the operations cause emissions from the source.

(4) The owner or operator shall maintain for a minimum of two years records of operating and maintenance sufficient to demonstrate that the equipment is being operated and maintained in accordance with the manufacturer recommendations.

KEY: air pollution, emission controls, coatings, miscellaneous metal parts
Date of Enactment or Last Substantive Amendment: December 1, 2014
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)

R307. Environmental Quality, Air Quality.
R307-351. Graphic Arts.
R307-351-1. Purpose.

The purpose of this rule is to limit volatile organic

compound (VOC) emissions from graphic arts printing operations.

R307-351-2. Applicability.

R307-351 applies to graphic arts printing operations in Box Elder, Cache, Davis, Salt Lake, Utah and Weber counties as specified below. For purposes of determining whether the emissions applicability threshold or an equivalent threshold is met, the owner or operator shall consider source-wide emissions from all printing operations including related cleaning activities prior to controls.

(1) R307-351-4 applies to all packaging and publication rotogravure; packaging and publication flexographic; and specialty printing operations employing VOC-containing inks, including dilution and cleaning materials, that have potential to emit on a per press basis equal to or greater than 25 tons per year of VOC. Flexible packaging printing is exempt from R307-351-4.

(2) R307-351-5 applies to all flexible packaging printing operations with potential to emit on a per press basis, from the dryer, prior to controls, equal to or greater than 25 tons per year of VOC from inks, coatings and adhesives combined.

(3) R307-351-6(1) applies to individual heatset web offset lithographic printing presses and individual heatset web letterpress printing presses with potential to emit from the dryer, on a per press basis, prior to controls, equal to or greater than 25 tons per year of VOC. Heatset presses used for book printing and heatset presses with maximum web width of 22 inches or less are exempt from R307-351-6(1).

(4) R307-351-6(4) applies to offset lithographic printing operations that emit at least 2.7 tons per year actual emissions of VOC, or an equivalent level, before consideration of controls. Any press with total fountain solution reservoir of less than one gallon and sheet-fed presses with maximum sheet size of 11 inches by 17 inches or smaller are exempt from R307-351-6(4).

(5) R307-351-6(5) applies to offset lithographic printing and letterpress printing operations that emit at least 2.7 tons per year actual emissions of VOC, or an equivalent level, before consideration of controls. Cleaners used on electronic components of a press, pre-press cleaning operations (e.g., platemaking), post-press cleaning operations (e.g., binding), cleaning supplies (e.g., detergents) used to clean the floor (other than dried ink) in the area around a press, or cleaning performed in parts washers or cold cleaners are exempt from R307-351-6(5).

(6) R307-351-7 applies to all graphic arts printing operations that emit at least 2.7 tons per year actual emissions of VOC, or an equivalent level, before consideration of controls.

R307-351-3. Definitions.

The following additional definitions apply to R307-351:

"Alcohol" means any of the following compounds, when used as a fountain solution additive for offset lithographic printing: ethanol, n-propanol, and isopropanol.

"Alcohol Substitute" means a nonalcohol additive that

contains VOCs and is used in the fountain solution.

"Automatic Blanket Wash System" means equipment used to clean lithographic blankets which can include, but is not limited to those utilizing a cloth and expandable bladder, brush, spray, or impregnated cloth system.

"Cleaning Solution" means a liquid solvent or solution used to clean the operating surfaces of a printing press and its parts. Cleaning solutions include, but are not limited to blanket wash, roller wash, metering roller cleaner, plate cleaner, impression cylinder washes, rubber rejuvenators, and other cleaners used for cleaning a press, press parts, or to remove dried ink or coating from areas around the press.

"Blanket" means a synthetic rubber material that is wrapped around a cylinder used in offset lithography to transfer or "offset" an image from an image carrier.

"Capture efficiency" means the fraction of all VOC emissions generated by a process that are delivered to a control device, expressed as a percentage.

"Capture system" means the equipment (including hoods, ducts, fans, etc.) used to collect, capture, or transport a pollutant to a control device.

"Coating" means material applied onto or impregnated into a substrate. Such materials include, but are not limited to, solvent-borne and waterborne coatings.

"Composite partial vapor pressure" means the sum of the partial pressure of the compounds defined as VOCs.

"Control device" means a device such as a carbon adsorber or oxidizer which reduces the VOC in an exhaust gas by recovery or by destruction.

"Control device efficiency" means the ratio of VOC emissions recovered or destroyed by a control device to the total VOC emissions that are introduced into the control device, expressed as a percentage.

"Flexible packaging" means any package or part of a package the shape of which can be readily changed. Flexible packaging includes, but is not limited to, bags, pouches, liners and wraps utilizing paper, plastic, film, aluminum foil, metalized or coated paper or film, or any combination of these materials.

"Flexographic press" means an unwind or feed section, which may include more than one unwind or feed station (such as on a laminator), a series of individual work stations, one or more of which is a flexographic print station, any dryers (including interstage dryers and overhead tunnel dryers) associated with the work stations, and a rewind, stack, or collection section. The work stations may be oriented vertically, horizontally, or around the circumference of a single large impression cylinder. Inboard and outboard work stations, including those employing any other technology, such as rotogravure, are included if they are capable of printing or coating on the same substrate. A publication rotogravure press with one or more flexographic imprinters is not a flexographic press.

"Flexographic printing" means the application of words,

designs, and pictures to substrate by means of a roll printing technique in which the pattern to be applied is raised above the printing roll and the image carrier is made of rubber or other elastomeric materials.

"Fountain solution" means a mixture of water and other volatile and non-volatile chemicals and additives that wets the nonimage area of a lithographic printing plate so that the ink is maintained within the image areas.

"Heatset" means an offset lithographic printing or letterpress printing operation in which the ink solvents are vaporized by passing the printed surface through a dryer.

"Letterpress printing" means a method where the image area is raised relative to the non-image area and the ink is transferred to the substrate directly from the image surface.

"Narrow-web flexographic press" means a flexographic press that is not capable of printing substrates greater than 18 inches in width and that does not also meet the definition of rotogravure press (i.e., it has no rotogravure print stations).

"Non-heatset", also called coldset, means an offset lithographic printing or letterpress printing operation in which the ink dries by oxidation and/or absorption into the substrate without use of heat from dryers.

"Offset lithographic printing" means a plane-o-graphic method in which the image and non-image areas are on the same plane and the ink is offset from a plate to a rubber blanket, and then from the blanket to the substrate.

"Overall control efficiency" means the total efficiency of a control system, determined either by:

(1) The product of the capture efficiency and the control device efficiency; or

(2) A liquid-liquid material balance.

"Packaging printing" means rotogravure or flexographic printing, not otherwise defined as publication printing, upon paper, paper board, metal foil, plastic film, and other substrates, which are, in subsequent operations, formed into packaging products and labels. This includes, but is not limited to, folding cartons, flexible packaging, labels and wrappers.

"Printing operation" means the application of words, designs, or pictures on a substrate. All units in a machine which have both coating and printing units shall be considered as performing a printing operation.

"Printing Press" means a printing production assembly composed of one or more units used to produce a printed substrate, including but not limited to, any associated coating, spray powder application, heatset web dryer, ultraviolet or electron beam curing units, or infrared heating units.

"Publication rotogravure printing" means rotogravure printing upon paper that is subsequently formed into books, magazines, catalogues, brochures, directories, newspaper supplements, and other types of printed materials.

"Publication rotogravure press" means a rotogravure press used for publication rotogravure printing. A publication

rotogravure press may include one or more flexographic imprinters. A publication rotogravure press with one or more flexographic imprinters is not a flexographic press.

"Roll coating" means the application of a coating material to a substrate by means of hard rubber or steel rolls.

"Roll printing" means the application of words, designs and pictures to a substrate usually by means of a series of hard rubber or steel rolls each with only partial coverage.

"Rotogravure coating" means the application of a uniform layer of material across the entire width of the web to substrate by means of a roll coating technique in which the pattern to be applied is etched on the coating roll. The coating material is picked up in these recessed areas and is transferred to the substrate.

"Rotogravure press" means an unwind or feed section, which may include more than one unwind or feed station (such as on a laminator), a series of individual work stations, one or more of which is a rotogravure print station, any dryers associated with the work stations, and a rewind, stack, or collection section. Inboard and outboard work stations, including those employing any other technology, such as flexography, are included if they are capable of printing or coating on the same substrate.

"Rotogravure printing" means the application of words, designs, and pictures to a substrate by means of a roll printing technique that involves a recessed image area in the form of cells.

"Specialty printing operations" means all gravure and flexographic operations that print a design or image, excluding publication and packaging printing. Specialty printing operations include, among other things, printing on paper cups and plates, patterned gift wrap, wallpaper, and floor coverings.

"Web" means a continuous roll of substrate.

"Wide-web flexographic press" means a flexographic press capable of printing substrates greater than 18 inches in width.

R307-351-4. Standards for Rotogravure, Flexographic, and Specialty Printing Operations.

(1) No owner or operator of a packaging and publication rotogravure; packaging and publication flexographic, and specialty printing operations employing VOC-containing ink may operate, cause, or allow or permit the operation of a facility unless:

(a) The volatile fraction of ink, as it is applied to the substrate, contains 25.0% by volume or less of VOC and 75.0% by volume or more of water; or

(b) The ink as it is applied to the substrate, less water, contains 60.0% by volume or more nonvolatile material; or

(c) The owner or operator installs and operates either a carbon adsorption system as described in R307-351-4(1)(c)(i) or an incineration system as described in R307-351-4(1)(c)(ii).

(i) A carbon adsorption system shall reduce the volatile organic emissions from the capture system by a minimum of 90.0% by weight.

(ii) An incineration system shall oxidize, from the capture system, a minimum of 90.0% of the non-methane VOCs measured as total combustible carbon to carbon dioxide and water.

(iii) A capture system as described in R307-351-4(1)(c)(iv) shall be used in conjunction with a carbon adsorption system and an incineration system.

(iv) The design and operation of a capture system must be consistent with good engineering practices and shall be required to provide for an overall reduction in VOC emissions of at least:

(A) 75.0% where a publication rotogravure process is employed;

(B) 65.0% where a packaging rotogravure process is employed; or

(C) 60.0% where a flexographic printing process is employed.

(2) The owner or operator of an emission control device shall provide documentation that the system will attain the requirements of R307-351-4.

(3) The Emission control system shall be operated and maintained in accordance with the manufacturer recommendations.

(4) The owner or operator of an emission control device shall maintain for a minimum of two years records of operating and maintenance sufficient to demonstrate that the equipment is being operated and maintained in accordance with the manufacturer recommendations.

R307-351-5. Standards for Flexible Packaging Printing Operations.

(1) Presses used for flexible packaging printing shall comply with an 80% overall emission control efficiency.

(a) The owner or operator of an emission control device shall provide documentation that the emissions control system will attain the requirements of R307-351-5.

(b) The Emission control system shall be operated and maintained in accordance with the manufacturer recommendations.

(2) The owner or operator of an emission control device shall maintain for a minimum of two years records of operating and maintenance sufficient to demonstrate that the equipment is being operated and maintained in accordance with the manufacturer recommendations.

(3) As an alternative to the overall control efficiency, the following two equivalent VOC content limits may be met by use of low VOC content materials or combinations of materials and controls as follows:

(a) 0.8 kg VOC/kg solids applied; or

(b) 0.16 kg VOC/kg materials applied.

(c) The VOC content limits can be met by averaging the VOC content of materials used on a single press, i.e., within a line. The use of averaging to meet the VOC content limits is not allowed for cross-line, i.e., across multiple lines.

R307-351-6. Standards for Offset Lithographic Printing and Letterpress Printing Operations.

(1) Requirements for heatset web offset lithographic and

heatset letterpress inks and dryers.

(a) Individual heatset web offset lithographic printing presses and individual heatset web letterpress printing presses shall comply with 90% control efficiency for the control device on heatset dryers.

(b) The owner or operator of an emission control device shall provide documentation that the emissions control system will attain the requirements of R307-351-6.

(c) The Emission control system shall be operated and maintained in accordance with the manufacturer recommendations.

(2) The owner or operator shall maintain for a minimum of two years records of operating and maintenance sufficient to demonstrate that the equipment is being operated and maintained in accordance with the manufacturer recommendations.

(3) As an alternative to the control efficiency, the control device outlet concentration may be reduced to 20 ppmv as hexane on a dry basis to accommodate situations where the inlet VOC concentration is low or there is no identifiable measurable inlet.

(4) Requirements for fountain solution.

(a) For heatset web offset lithographic printing, the level of control for VOC emissions from on-press (as-applied) fountain solution shall meet one of the following:

(i) 1.6% alcohol or less (by weight) in the fountain;

(ii) 3.0% alcohol or less (by weight) in the fountain solution if the fountain solution is refrigerated to below 60 degrees Fahrenheit; or

(iii) 5.0% alcohol substitute or less (by weight) and no alcohol in the fountain solution.

(b) For sheet-fed offset lithographic printing, the level of control for VOC emissions from on-press (as-applied) fountain solution shall meet one of the following:

(i) 5.0% alcohol or less (by weight) in the fountain;

(ii) 8.5% alcohol or less (by weight) in the fountain solution provided the fountain solution is refrigerated to below 60 degrees Fahrenheit; or

(iii) 5.0% alcohol substitute or less (by weight) and no alcohol in the fountain solution.

(c) For non-heatset web offset lithographic printing, the level of control for VOC emissions shall be 5.0% alcohol substitute or less (by weight) on-press (as-applied) and no alcohol in the fountain solution.

(5) Requirements for cleaning materials.

(a) For blanket washing, roller washing, plate cleaners, metering roller cleaners, impression cylinder cleaners, rubber rejuvenators, and other cleaners used for cleaning a press, press parts, or to remove dried ink from areas around a press, only cleaning materials with a VOC composite vapor pressure of less than ten mm Hg at 68 degrees Fahrenheit or cleaning materials containing less than 70 weight percent VOC shall be used.

(b) Up to 110 gallons per year of cleaning materials which meet neither the VOC composite vapor pressure requirement nor the VOC content requirement may be used.

R307-351-7. Work Practices and Recordkeeping.

(1) Control techniques and work practices are to be implemented at all times to reduce VOC emissions from fugitive type sources. Control techniques and work practices include:

(a) Tight fitting covers for open tanks; and

(b) Keeping cleaning materials, used shop towels, and solvent wiping cloths in closed containers.

(2) Record keeping and reporting.

(a) The owner or operator of any source subject to R307-351 shall maintain:

(i) Records of the annual usage of all materials that may be a source of VOC emissions including, but not limited to, inks, coatings, adhesives, fountain solution, and cleaning materials.

(ii) All sources subject to R307-351 shall maintain records demonstrating compliance with all provisions of R307-351. These records shall be available to the director upon request.

R307-351-8. Compliance Schedule.

(1) All sources within Salt Lake and Davis counties shall be in compliance with this rule by the effective date of this rule.

(2) All sources within Box Elder, Cache, Utah and Weber counties shall be in compliance with this rule by January 1, 2014.

KEY: air pollution, graphic arts, VOC, printing operations
Date of Enactment or Last Substantive Amendment: February 1, 2013
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)

R307. Environmental Quality, Air Quality.
R307-352. Metal Container, Closure, and Coil Coatings.
R307-352-1. Purpose.

The purpose of this rule is to reduce volatile organic compound (VOC) emissions from the coating of metal coils, cans, pails, and lids in the manufacturing or reconditioning process.

R307-352-2. Applicability.

R307-352 applies to sources located in Box Elder, Cache, Davis, Salt Lake, Tooele, Utah and Weber counties that have the potential to emit 2.7 tons per year or more of VOC, including related cleaning activities.

R307-352-3. Definitions.

The following additional definitions apply to R307-352:

"Coating" means a protective, functional or decorative film applied in a thin layer to a surface.

"End sealing compound" means a compound which is coated onto can ends and which functions as a gasket when the end is assembled onto the can.

"Exterior body spray" means a coating sprayed on the exterior of the container body to provide a decorative or protective finish.

"Interior body spray" means a coating sprayed on the interior of the can body to provide a protective film between the product and the can.

"Metal container or closure coating" means any coating applied to either the interior or exterior of formed metal cans, pails, lids or crowns or flat metal sheets which are intended to be formed into cans, pails, lids or crowns.

"Overvarnish" means a coating applied directly over a design coating to reduce the coefficient of friction, to provide gloss and to protect the finish against abrasion and corrosion.

"Reconditioned pails or lids" means any metal container which is reused, recycled or remanufactured.

"Three-piece can side-seam coating" means a coating sprayed on the exterior and/or interior of a welded, cemented or soldered seam to protect the exposed metal.

"Two-piece can exterior-end coating" means a coating applied to the exterior bottom end of a can to reduce the coefficient of friction and to provide protection to the metal.

R307-352-4. VOC Content Limits.

Each owner or operator shall not apply coatings with a VOC content in excess of the amounts specified in Table 1 or shall use an add-on control device as specified in R307-352-6.

TABLE 1

METAL CONTAINER AND CLOSURE COIL COATING LIMITATIONS
(values in pounds VOC per gallon of coating, minus water and exempt solvents (compounds not classified as VOC as defined in R307-101-2), as applied)

COATING CATEGORY	VOC CONTENT LIMITS
CANS	
Sheet basecoat (interior and exterior) and overvarnish	1.9
Two-piece can exterior basecoat, overvarnish, and end coating	2.1
Interior body spray	
Two-piece cans	3.5
Three-piece cans	3.0
Three-piece can side seam spray	5.5
End sealing compound: Food cans, non-food cans, and beverage cans	0.1
Exterior body spray	3.5

PAILS AND LIDS	
Body spray	
Reconditioned interior	4.2
Reconditioned exterior	3.5
New interior	3.5
New exterior	2.8
End sealing compound	0.5
Inks, all applications	2.5
Coil	
Coil coating	1.7

R307-352-5. Work Practices and Recordkeeping.

(1) The owner or operator shall:

(a) Store all VOC-containing coatings, thinners, and cleaning materials in closed containers;

(b) Minimize spills of VOC-containing coatings, thinners, and cleaning materials;

(c) Clean up spills immediately;

(d) Convey any coatings, thinners, and cleaning materials in closed containers or pipes;

(e) Close mixing vessels that contain VOC coatings and other materials except when specifically in use; and

(f) Minimize usage of solvents during cleaning of storage, mixing, and conveying equipment.

(2) No person shall apply any coating unless the coating application method achieves a demonstrated 65% transfer efficiency.

The following applications achieve a minimum of 65% transfer efficiency and shall be operated in accordance with the manufacturers specifications:

(a) Electrostatic application;

(b) Flow coat;

(c) Roll coat;

(d) Dip coat;

(e) High-volume, low-pressure (HVLP) spray;

(f) Hand application methods;

(g) Printing techniques; or

(h) Other application method capable of achieving at least 65% transfer efficiency, as certified by the manufacturer.

(3) All persons shall perform solvent cleaning operations with cleaning material having VOC content (excluding water and solvents exempt from the definition of volatile organic compounds found in R307-101-2) of 0.21 lb/gallon or less.

(4) All sources subject to R307-352 shall maintain records

demonstrating compliance with R307-352-4 and R307-352-5.

(a) Records shall include, but not be limited to, inventory and product data sheets of all coatings and solvents subject to R307-352.

(b) These records shall be made available to the director upon request.

R307-352-6. Add-On Controls Systems Operations.

(1) The owner or operator shall install and maintain an incinerator, carbon adsorption, or any other add-on emission control system, provided that the emission control system is operated and maintained in accordance with the manufacturer recommendations in order to maintain at least 90% capture and control efficiency. Determination of overall capture and control efficiency shall be determined using EPA approved methods, as follows.

(a) The capture efficiency of a VOC emission control system's VOC collection device shall be determined according to EPA's "Guidelines for Determining Capture Efficiency," January 9, 1995 and 40 CFR Part 51, Appendix M, Methods 204-204F, as applicable.

(b) The control efficiency of a VOC emission control system's VOC control device shall be determined using test methods in Appendices A-1, A-6, and A-7 to 40 CFR Part 60, for measuring flow rates, total gaseous organic concentrations, or emissions of exempt compounds, as applicable.

(c) An alternative test method may be substituted for the preceding test methods after review and approval by the EPA Administrator.

(2) The owner or operator of a control system shall provide documentation that the emission control system will attain the requirements of R307-352-6(1).

(3) The owner or operator shall maintain records of key system parameters necessary to ensure compliance with R307-352-6. Key system parameters may include, but are not limited to, temperature, pressure and flow rates. Operator inspection schedule, monitoring, recordkeeping, and key parameters shall be in accordance with the manufacturer's recommendations, and as required to demonstrate operations are providing continuous emission reduction from the source during all periods that the operations cause emissions from the source.

(4) The owner or operator shall maintain for a minimum of two years records of operating and maintenance sufficient to demonstrate that the equipment is being operated and maintained in accordance with the manufacturer recommendations.

KEY: air pollution, emission controls, metal containers, coil coatings
Date of Enactment or Last Substantive Amendment: December 1, 2014
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)

R307. Environmental Quality, Air Quality.
R307-353. Plastic Parts Coatings.
R307-353-1. Purpose.

The purpose of this rule is to limit volatile organic compound (VOC) emissions from the application of coatings to any plastic product.

R307-353-2. Applicability.

R307-353 applies to plastic parts coating operations located in Box Elder, Cache, Davis, Salt Lake, Tooele, Utah and Weber counties that have the potential to emit 2.7 tons per year or more of VOC, including related cleaning activities.

R307-353-3. Exemptions.

(1) The provisions of this rule shall not apply to any of the following:

(a) Stencil coatings;
(b) Safety-indicating coatings;
(c) Electric-insulating and thermal-conducting coatings;
(d) Magnetic data storage disk coatings;
(e) Plastic extruded onto metal parts to form a coating; and
(f) Textured finishes.

(2) If a coating line is subject to the requirements for existing automobile, light-duty truck, and other product and material coatings or for existing metallic surface coating lines, the coating line shall be exempt from this rule.

R307-353-4. Definitions.

The following additional definitions apply to R307-353:

"Air dried coating" means coatings that are dried by the use of air or a forced warm air at temperatures up to 194 degrees Fahrenheit.

"Baked coating" means coatings that are cured at a temperature at or above 194 degrees Fahrenheit.

"Coating" means a protective, functional, or decorative film applied in a thin layer to a surface. This term often applies to paints such as lacquers or enamels. It is also used to refer to films applied to paper, plastics, or foil.

"Electric-insulating and thermal-conducting" means a coating that displays an electrical insulation of at least 1000 volts DC per mil on a flat test plate and an average thermal conductivity of at least 0.27 BTU per hour-foot-degree-Fahrenheit.

"Magnetic data storage disk coating" means a coating used on a metal disk which stores data magnetically.

"Metallic coating" means a coating which contains more than 5 grams of metal particles per liter of coating as applied.

"Military specification coating" means a coating which has a formulation approved by a United States military agency for use on military equipment.

"Mirror backing" means the coating applied over the silvered surface of a mirror.

"Mold-seal coating" means the initial coating applied to a

new mold or a repaired mold to provide a smooth surface which, when coated with a mold release coating, prevents products from sticking to the mold.

"Multi-colored coating" means a coating which exhibits more than one color when applied, and which is packaged in a single container and applied in a single coat.

"Multi-component coating" means a coating requiring the addition of a separate reactive resin, commonly known as a catalyst, before application to form an acceptable dry film.

"One-component coating" means a coating that is ready for application as it comes out of its container to from an acceptable dry film. A thinner necessary to reduce the viscosity is not considered a component.

"Optical coating" means a coating applied to an optical lens.

"Plastic" means a substrate containing one or more resigns that may be solid, porous, flexible, or rigid, and includes fiber reinforced plastic composites.

"Primer" means a coating applied to a surface to provide a firm bond between the substrate and subsequent coats.

"Repair coating" means a coating used to recoat portions of a part or product which has sustained mechanical damage to the coating.

"Roller Coated" means a type of coating application equipment that utilizes a series of mechanical rollers to form a thin coating film on the surface of a roller, which is then applied to a substrate by moving the substrate underneath the roller.

"Safety-indicating coating" means a coating which changes physical characteristics, such as color, to indicate unsafe condition.

"Stencil coating" means an ink or a coating which is rolled or brushed onto a template or stamp in order to add identifying letters or numbers to metal parts and products.

"Textured finish" means a rough surface produced by spraying and splattering large drops of coating onto a previously applied coating. The coatings used to form the appearance of the textured finish are referred to as textured coatings.

"Touch-up coating" means a coating used to cover minor coating imperfections appearing after the main coating operation.

"Topcoat" means the last film-building finishing material applied in a finishing system. Non-permanent final finishes are not topcoats.

R307-353-5. VOC Content Limits.

(1) For automobile and truck plastic parts coating lines:

(a) Each owner or operator shall not apply coatings with a VOC content in excess of the amounts specified in Table 1 or shall use an add-on control device as specified in R307-353-8.

(b) For red and black coatings, the emission limitation shall be determined by multiplying the appropriate limit in Table 1 by 1.15.

(c) When EPA Method 24 is used to determine the VOC content of a high bake coating, the applicable emission limitation shall

be determined by adding 0.5 to the appropriate limit in Table 1.

(d) When EPA Method 24 is used to determine the VOC content of an air-dried coating, the applicable emission limitation shall be determined by adding 0.1 to the appropriate limit in Table 1.

TABLE 1

AUTOMOBILE AND TRUCK PLASTIC PARTS COATING LINES
(values in pounds of VOC per gallon of coating, minus water and exempt solvents (compounds not classified as VOC as defined in R307-101-2), as applied)

COATING CATEGORY	VOC Content Limitations
High bake coating - exterior and interior parts	
Prime	
Flexible coating	4.5
Nonflexible coating	3.5
Topcoat	
Basecoat	4.3
Clearcoat	4.0
Non-basecoat/clearcoat	4.3
Air-dried coating - exterior parts	
Prime	4.8
Topcoat	
Basecoat	5.0
Clearcoat	4.5
Non-basecoat/clearcoat	5.0
Air-dried coating - interior parts	5.0
Touch-up and repair	5.2

(2) Each owner or operator of a business machine plastic parts coating line shall not apply coatings with a VOC content in excess of the amounts specified in Table 2 or shall use an add-on control device as specified in R307-353-8.

TABLE 2

BUSINESS MACHINE PLASTIC PARTS COATING LINES
(values in pounds of VOC per gallon of
coating, minus water and exempt solvents (compounds not
classified as VOC as defined in R307-101-2), as applied)

COATING CATEGORY	VOC Content Limitations
Prime	2.9
Topcoat	2.9
Texture coat	2.9
Fog coat	2.2
Touch-up and repair	2.9

(3) Each owner or operator engaged in other plastic product coating operations shall not apply coatings with a VOC content in excess of the amounts specified in Table 3 or shall use an add-on control device as specified in R307-353-8.

TABLE 3

OTHER PLASTIC PRODUCT COATING CATEGORIES
(values in pounds of VOC per gallon of
coating, minus water and exempt solvents (compounds not
classified as VOC as defined in R307-101-2), as applied)

COATING CATEGORY	VOC Content Limitations
General One-Component	2.3
General Multi-Component	3.5
Electric Dissipating Coatings And Shock-Free Coatings	3.0
Extreme Performance	3.5 (2-pack coatings)
Metallic	3.5
Military Specification	2.8 (1 pack) 3.5 (2 pack)
Mold-Seal	6.3
Multi-colored Coatings	5.7

Optical Coatings	6.7
Vacuum-Metalizing	6.7
Mirror Backing	
Curtain Coated	4.2
Roll Coated	3.6

(4) If a part consists of both plastic and metal surfaces and is exempted from the requirements for existing metallic surface coating lines, the part shall be subject to this rule.

R307-353-6. Application Methods.

No person shall apply VOC containing coatings unless the coating is applied with equipment operated according to the manufacturer specifications, and by use of one of the following methods:

(1) Electrostatic application;
(2) Flow coat;
(3) Roller coat;
(4) Dip/electrodeposition coat;
(5) Airless Spray;
(6) High-volume, low-pressure (HVLP) spray; or
(7) Other application method equal to or better than HVLP, as certified by the manufacturer.

R307-353-7. Work Practices and Recordkeeping.

(1) The owner or operator shall:

(a) Store all VOC-containing coatings, thinners, and cleaning materials in closed containers;

(b) Minimize spills of VOC-containing coatings, thinners, and cleaning materials;

(c) Clean up spills immediately;

(d) Convey any coatings, thinners, and cleaning materials in closed containers or pipes;

(e) Close mixing vessels that contain VOC coatings and other materials except when specifically in use; and

(f) Minimize usage of solvents during cleaning of storage, mixing, and conveying equipment.

(2) All persons shall perform solvent cleaning operations with cleaning material having VOC content (excluding water and solvents exempt from the definition of volatile organic compounds found in R307-101-2) of 0.21 pounds per gallon or less.

(3) All sources subject to R307-353 shall maintain records demonstrating compliance with R307-353-5, R307-353-6 and R307-353-7(2).

(a) Records shall include, but not be limited to, inventory and product data sheets of all coatings and solvents subject to R307-350.

(b) These records shall be made available to the director upon request.

R307-353-8. Add-On Controls Systems Operations.

(1) The owner or operator shall install and maintain an incinerator, carbon adsorption, or any other add-on emission control system, provided that the emission control system is operated and maintained in accordance with the manufacturer recommendations in order to maintain at least 90% capture and control efficiency. Determination of overall capture and control efficiency shall be determined using EPA approved methods, as follows.

(a) The capture efficiency of a VOC emission control system's VOC collection device shall be determined according to EPA's "Guidelines for Determining Capture Efficiency," January 9, 1995 and 40 CFR Part 51, Appendix M, Methods 204-204F, as applicable.

(b) The control efficiency of a VOC emission control system's VOC control device shall be determined using test methods in Appendices A-1, A-6, and A-7 to 40 CFR Part 60, for measuring flow rates, total gaseous organic concentrations, or emissions of exempt compounds, as applicable.

(c) An alternative test method may be substituted for the preceding test methods after review and approval by the EPA Administrator.

(2) The owner or operator of a control system shall provide documentation that the emission control system will attain the requirements of R307-353-8(1).

(3) The owner or operator shall maintain records of key system parameters necessary to ensure compliance with R307-353-8. Key system parameters may include, but are not limited to, temperature, pressure and flow rates. Operator inspection schedule, monitoring, recordkeeping, and key parameters shall be in accordance with the manufacturer's recommendations, and as required to demonstrate operations are providing continuous emission reduction from the source during all periods that the operations cause emissions from the source.

(4) The owner or operator shall maintain for a minimum of two years records of operating and maintenance sufficient to demonstrate that the equipment is being operated and maintained in accordance with the manufacturer recommendations.

KEY: air pollution, emission controls, coatings, plastic parts
Date of Enactment or Last Substantive Amendment: December 1, 2014
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)

R307. Environmental Quality, Air Quality.
R307-354. Automotive Refinishing Coatings.
R307-354-1. Purpose.

The purpose of R307-354 is to limit volatile organic compound emissions (VOC) from automotive refinishing sources.

R307-354-2. Applicability.

(1) R307-354 applies to sources located in Box Elder, Cache,

Davis, Salt Lake, Tooele, Utah and Weber counties that have the potential to emit 2.7 tons per year or more of VOC, including related cleaning activities.

(2) The requirements of R307-354 shall not apply to any canned aerosol coating products.

R307-354-3. Definitions.

The following additional definitions apply to R307-354:

"Adhesion promoter" means a coating which is labeled and formulated to be applied to uncoated plastic surfaces to facilitate bonding of subsequent coatings, and on which, a subsequent coating is applied.

"Automotive" means passenger cars, vans, motorcycles, trucks, buses, golf carts and all other mobile equipment.

"Automotive refinishing" means the process of coating automobiles, after-market automobiles, motorcycles, light and medium-duty trucks and vans that are performed in auto body shops, auto repair shops, production paint shops, new car dealer repair and paint shops, fleet operation repair and paint shops, and any other facility which coats vehicles under the Standard Industrial Classification Code 7532 (Top, Body and Upholstery Repair Shops and Paint Shops). This includes dealer repair of vehicles damaged in transit. It does not include refinishing operations for other types of mobile equipment, such as farm machinery and construction equipment or their parts, including partial body collision repairs, that is subsequent to the original coating applied at an automobile original equipment manufacturing plant.

"Clear coating" means any coating that contains no pigments and is labeled and formulated for application over a color coating or clear coating.

"Coating" means a protective, decorative, or functional material applied in a thin layer to a surface. Such materials may include paints, topcoats, varnishes, sealers, stains, washcoats, basecoats, inks, and temporary protective coatings.

"Color coating" means any pigmented coating, excluding adhesion promoters, primers, and multi-color coatings, that requires a subsequent clear coating and which is applied over a primer, adhesion promoter, or color coating. Color coatings include metallic and iridescent color coatings.

"Enclosed paint gun cleaner" means a cleaner consisting of a closed container with a door or top that can be opened and closed and fitted with cleaning connections. The spray gun is attached to a connection, and solvent is pumped through the gun and onto the exterior of the gun. Cleaning solvent falls back into the cleaner's solvent reservoir for recirculation.

"Metallic/Iridescent color coating" means a coating which contains iridescent particles, composed of either metal as metallic particles or silicon as mica particles, in excess of 0.042 pounds per gallon as applied, where such particles are visible in the dried film.

"Multi-color coating" means a coating which exhibits more than one color when applied, and which is packaged in a single

container and applied in a single coat.

"Non-enclosed paint gun cleaner" means cleaner consisting of a basin similar to a sink in which the operator washes the outside of the gun under a solvent stream. The gun cup is filled with recirculated solvent, the gun tip is placed into a canister attached to the basin, and suction draws the solvent from the cup through the gun. The solvent gravitates to the bottom of the basin and drains through a small hole to a reservoir that supplies solvent to the recirculation pump.

"Pretreatment coating" means a coating which contains no more that 16% solids, by weight, and at least 0.5% acid, by weight, is used to provide surface etching, and is applied directly to bare metal surfaces to provide corrosion resistance and promote adhesion for subsequent coatings.

"Primer" means any coating which is labeled and formulated for application to a substrate to provide a bond between the substrate and subsequent coats; corrosion resistance; a smooth substrate surface; or resistance to penetration of subsequent coats, and on which a subsequent coating is applied. Primers may be pigmented.

"Single-stage coating" means any pigmented coating, excluding primers and multi-color coatings, labeled and formulated for application without a subsequent clear coat. Single-stage coatings include single-stage metallic/iridescent coatings.

"Solids" means the part of the coating that remains after the coating is dried or cured; solids content is determined using data from EPA Method 24.

"Temporary protective coating" means any coating which is labeled and formulated for the purpose of temporarily protecting areas form overspray or mechanical damage.

"Topcoat" means any coating or series of coatings applied over a primer or an existing finish for the purpose of protection or beautification.

"Truck bed liner coating" means any coating, excluding clear, color, multi-color, and single-stage coatings, labeled and formulated for application to a truck bed to protect it from surface abrasion.

"Underbody coating" means any coating labeled and formulated for application to wheel wells, the inside of door panels or fenders, the underside of a trunk or hood, or the underside of the motor vehicle.

"Uniform finish coating" means any coating labeled and formulated for application to the area around a spot repair for the purpose of blending a repaired area's color or clear coat to match the appearance of an adjacent area's existing coating. Prior to May 1, 2013, this coating category may be referred to as uniform finish blenders.

"Uniform finish blender" means a coating designed to blend a repaired topcoat into an existing topcoat.

R307-354-4. VOC Content Limits.

Each owner or operator shall not apply coatings with a VOC

content in excess of the amounts specified in Table 1 or shall use an add-on control device as specified in R307-354-6.

TABLE 1

AUTOMOTIVE REFINISHING VOC LIMITS
(values in pounds of VOC per gallon of coating, minus water and exempt solvent (compounds not defined as VOC in R307-101-2), as applied)

COATING CATEGORY	VOC CONTENT LIMITS
Adhesion Promoter	4.5
Clear Coating	2.1
Color Coating	3.5
Multi-color Coating	5.7
Pretreatment Coating	5.5
Primer	2.1
Primer Sealer	2.1
Single-stage Coating	2.8
Temporary Protective Coating	0.5
Truck Bed Liner Coating	2.6
Underbody Coating	3.6
Uniform Finish Coating	4.5
Any Other Coating Type	2.1

R307-354-5. Work Practice and Recordkeeping.

(1) Control techniques and work practices are to be implemented at all times to reduce VOC emissions. Control techniques and work practices include:

(a) Tight fitting covers for open tanks;

(b) Covered containers for solvent wiping cloths;

(c) Collection hoods for areas where solvent is used for cleanup;

(d) Minimizing spill of VOC-containing cleaning materials;

(e) Conveying VOC-containing materials from one location to another in closed containers or pipes; and

(f) Cleaning spray guns in enclosed systems or in a non-enclosed paint gun cleaning process may be used if the vapor pressure of the cleaning solvent (excluding water and solvents

exempt from the definition of volatile organic compounds found in R307-101-2) is less than 100 mm Hg at 68 degrees Fahrenheit and the solvent is directed towards a drain that leads directly to an enclosed remote reservoir. Automotive spray gun solvent cleaners that are defined as a "consumer product" under R307-357 are exempt from the vapor pressure requirement and are regulated under the requirements in R307-357.

(2) Application equipment requirements:

(a) A person shall not apply any coating to an automotive part or component unless the coating application method achieves a demonstrated 65% transfer efficiency.

(b) The following coating application methods have been demonstrated to achieve a minimum of 65% transfer efficiency:

(i) Brush, dip or roll coating operated in accordance with the manufacturers specifications;

(ii) Electrostatic application equipment operated in accordance with the manufacturers specifications; and

(iii) High Volume, Low Pressure spray equipment operated in accordance with the manufacturers specifications.

(c) Other coating application methods may be used that have been demonstrated to be capable of achieving at least 65% transfer efficiency, as certified by the manufacturer.

(3) All sources subject to R307-354 shall maintain records demonstrating compliance with R307-354-4 and R307-354-5.

(a) Records shall include, but not be limited to, inventory and product data sheets of all coatings and solvents subject to R307-354.

(b) These records shall be available to the director upon request.

R307-354-6. Add-On Controls Systems Operations.

(1) The owner or operator shall install and maintain an incinerator, carbon adsorption, or any other add-on emission control system, provided that the emission control system is operated and maintained in accordance with the manufacturer recommendations in order to maintain at least 90% capture and control efficiency. Determination of overall capture and control efficiency shall be determined using EPA approved methods, as follows.

(a) The capture efficiency of a VOC emission control system's VOC collection device shall be determined according to EPA's "Guidelines for Determining Capture Efficiency," January 9, 1995 and 40 CFR Part 51, Appendix M, Methods 204-204F, as applicable.

(b) The control efficiency of a VOC emission control system's VOC control device shall be determined using test methods in Appendices A-1, A-6, and A-7 to 40 CFR Part 60, for measuring flow rates, total gaseous organic concentrations, or emissions of exempt compounds, as applicable.

(c) An alternative test method may be substituted for the preceding test methods after review and approval by the EPA Administrator.

(2) The owner or operator of a control system shall provide documentation that the emission control system will attain the requirements of R307-354-6(1).

(3) The owner or operator shall maintain records of key system parameters necessary to ensure compliance with R307-354-6. Key system parameters may include, but are not limited to, temperature, pressure and flow rates. Operator inspection schedule, monitoring, recordkeeping, and key parameters shall be in accordance with the manufacturer's recommendations, and as required to demonstrate operations are providing continuous emission reduction from the source during all periods that the operations cause emissions from the source.

(4) The owner or operator shall maintain for a minimum of two years records of operating and maintenance sufficient to demonstrate that the equipment is being operated and maintained in accordance with the manufacturer recommendations.

KEY: air pollution, automotive refinishing, VOC, coatings
Date of Enactment or Last Substantive Amendment: December 1, 2014
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)

R307. Environmental Quality, Air Quality.
R307-355. Control of Emissions from Aerospace Manufacture and Rework Facilities.
R307-355-1. Purpose.

The purpose of R307-355 is to limit the emissions of volatile organic compounds (VOCs) from aerospace coatings and adhesives, from organic solvent cleaning, and from the storage and disposal of solvents and waste solvent materials associated with the use of aerospace coatings and adhesives.

R307-355-2. Applicability.

R307-355 applies to all aerospace manufacture and rework facilities that have the potential to emit 10 tons or more per year of VOCs and that are located in Box Elder, Cache, Davis, Salt Lake, Utah, Tooele and Weber counties.

R307-355-3. Exemptions.

(1) R307-355 does not apply:

(a) Where cleaning and coating takes place in research and development, quality control, laboratory testing and electronic parts and assemblies, except for cleaning and coating of completed assemblies;

(b) To manufacturing or rework operations involving space vehicles; and

(c) To rework operations performed on antique aerospace vehicles or components.

R307-355-4. Definitions.

The following additional definitions apply to R307-355:

"Aerospace manufacture" and "rework facility" means any

installation that produces, reworks, or repairs in any amount any commercial, civil, or military aerospace vehicle or component.

"Antique aerospace vehicle or component" means an aircraft or component thereof that was built at least 30 years ago and would not routinely be in commercial or military service in the capacity for which it was designed.

"Chemical milling maskants" means a coating that is applied directly to aluminum components to protect surface areas when chemical milling the component with a Type I or Type II etchant. Type I chemical milling maskants are used with a Type I etchant and Type II chemical milling maskants are used with a Type II etchant.

"Exempt solvents" means organic chemicals that are not defined as VOC.

"General aviation rework facility" means any aerospace installation with the majority of its revenues resulting from the reconstruction, repair, maintenance, repainting, conversion, or alteration of general aviation aerospace vehicles or components.

"Low vapor pressure hydrocarbon-based cleaning solvent" means a cleaning solvent that is composed of a mixture of photochemically reactive hydrocarbons and oxygenated hydrocarbons and has a maximum vapor pressure of 7 mm Hg at 68 degrees Fahrenheit. These cleaners must not contain hazardous air pollutants.

"Space vehicle" means a man-made device, either manned or unmanned, designed for operation beyond earth's atmosphere. This definition includes integral equipment such as models, mock-ups, prototypes, mold, jigs, tooling, hardware jackets and test coupons. Also included, auxiliary equipment associated with test, transport and storage that through contamination can compromise the space vehicle performance.

"Specialty coating" means a coating that, even though it meets the definition of a primer, topcoat, or self-priming topcoat, has additional performance criteria beyond those of primers, topcoats, and self-priming topcoats for specific applications.

(1) These performance criteria may include, but are not limited to, temperature or fire resistance, substrate compatibility, antireflection, temporary protection or marking, sealing, adhesively joining substrates, or enhanced corrosion protection.

(2) Individual specialty coatings are defined in Appendix A of 40 CFR 63 subpart GG, which is incorporated by reference.

"Topcoat" means a coating that is applied over a primer or component for appearance, identification, camouflage, or protection. Topcoats that are defined as specialty coatings are not included under this definition.

R307-355-5. VOC Content Limits.

(1) The owner or operator shall not apply coatings to aerospace vehicles or components with a VOC content in excess as follows:

(a) 2.9 pounds per gallon of coating, excluding water and exempt solvents, delivered to a coating applicator that applies primers. For general aviation rework facilities, the VOC limitation shall be 4.5 pounds per gallon of coating, excluding water and exempt solvents, delivered to a coating applicator that applies primers;

(b) 3.5 pounds per gallon of coating, excluding water and exempt solvents, delivered to a coating applicator that applies topcoats (including self-priming topcoats). For general aviation rework facilities, the VOC limit shall be 4.5 pounds per gallon of coating, excluding water and exempt solvents, delivered to a coating applicator that applies topcoats (including self-priming topcoats);

(c) 5.2 pounds per gallon of coating, excluding water and exempt solvents, delivered to a coating applicator that applies Type I chemical milling maskant;

(d) 1.3 pounds per gallon of coating, excluding water and exempt solvents, delivered to a coating applicator that applies Type II chemical milling maskants; and

(e) Emissions of VOCs from specialty coatings in excess of the amounts specified in EPA-453/R-97-004, December 1997, page B-2, hereby incorporated by reference.

(2) The owner or operator may alternatively comply with R307-355-5(1)(a) through (d) by using an add-on control device as specified in R307-355-9.

(3) The following coating applications are exempt from the VOC content limits in R307-355-5(1);

(a) Touchup and repair operations.

(b) Use of hand-held spray can application method.

(c) Department of Defense classified coatings.

(d) Coatings of space vehicles.

(e) Facilities that use separate formulations in volumes of less than 50 gallons per year subject to a maximum exemption of 200 gallons total for such formulations applied annually.

R307-355-6. Application Method.

(1) No owner or operator shall apply any primer or topcoat unless the primer and topcoat is applied with equipment operated according to the equipment manufacturer specifications or by the use of one of the following methods:

(a) Electrostatic application;

(b) Flow/curtain coat;

(c) Dip/electrodeposition coat;

(d) Roll coat;

(e) Brush coating;

(f) cotton-tipped swab application;

(g) High-Volume, Low-Pressure (HVLP) Spray;

(h) Hand Application Methods; or

(i) Other coating application methods that achieve emission reductions equivalent to HVLP or electrostatic spray application methods, as determined according to the requirements in 40 CFR 63.750(i).

(2) The following conditions are exempt from R307-355-6(1):

(a) Any situation that normally requires the use of an airbrush or an extension on the spray gun to properly reach limited access spaces.

(b) The application of coatings that contain fillers that adversely affect atomization with HVLP spray guns and that cannot be applied by any of the application methods specified in R307-355-6.

(c) The application of coatings that normally have dried film thickness of less than 0.0013 centimeters (0.0005 inches) and that cannot be applied by any of the application methods specified in R307-355-6.

(d) The use of airbrush application methods for stenciling, lettering, and other identification markings.

(e) The use of hand-held spray can application methods.

(f) Touch-up and repair operations.

(g) Application of specialty coatings.

R307-355-7. Work Practices and Recordkeeping.

(1) Control techniques and work practices shall be implemented at all times to reduce VOC emissions. Control techniques and work practices shall include, but are not limited to:

(a) Storing all VOC-containing coatings, adhesives, thinners, and coating-related waste materials in closed containers;

(b) Ensuring that mixing and storage containers used for VOC-containing coatings, adhesives, thinners, and coating-related waste material are kept closed at all times except when depositing or removing these materials;

(c) Minimizing spills of VOC-containing coatings, adhesives, thinners, and coating-related waste materials; and

(d) Conveying VOC-containing coatings, adhesives, thinners, and coating-related waste materials from one location to another in closed container or pipes.

(2) All sources subject to R307-355 shall maintain records demonstrating compliance with R307-355-5, R307-355-6 and R307-355-8.

(a) Records shall include, but not be limited to, inventory and product data sheets of all coatings and solvents subject to R307-355.

(b) These records shall be available to the Director upon request.

R307-355-8. Solvent Cleaning.

(1) Hand-wipe cleaning. Cleaning solvents (excluding water and solvents exempt from the definition of volatile organic compounds found in R307-101-2) used in hand-wipe cleaning operations shall meet one of the following requirements:

(a) Have a VOC composite vapor pressure less than or equal to 45 mm Hg at 68 degrees Fahrenheit;

(b) Have an aqueous cleaning solvent in which water is at

least 80% of the solvent as applied; or

(c) Have a low vapor pressure hydrocarbon-based cleaning solvent.

(2) The following exemptions apply:

(a) Cleaning during the manufacture, assembly, installation, maintenance, or testing of components of breathing oxygen systems that are exposed to the breathing oxygen.

(b) Cleaning during the manufacture, assembly, installation, maintenance, or testing of parts, subassemblies, or assemblies that are exposed to strong oxidizers or reducers (e.g., nitrogen tetroxide, liquid oxygen, hydrazine).

(c) Cleaning and surface activation prior to adhesive bonding.

(d) Cleaning of electronics parts and assemblies containing electronics parts.

(e) Cleaning of aircraft and ground support equipment fluid systems that are exposed to the fluid, including air-to-air heat exchangers and hydraulic fluid systems.

(f) Cleaning of fuel cells, fuel tanks, and confined spaces.

(g) Surface cleaning of solar cells, coated optics, and thermal control surfaces.

(h) Cleaning during fabrication, assembly, installation, and maintenance of upholstery, curtains, carpet, and other textile materials used on the interior of the aircraft.

(i) Cleaning of metallic and nonmetallic materials used in honeycomb cores during the manufacture or maintenance of these cores, and cleaning of the completed cores used in the manufacture of aerospace vehicles or components.

(j) Cleaning of aircraft transparencies, polycarbonate, or glass substrates.

(k) Cleaning and solvent usage associated with research and development, quality control, or laboratory testing.

(l) Cleaning operations, using nonflammable liquids, conducted within five feet of energized electrical systems.

(3) Flush cleaning. Cleaning solvents used in flush cleaning of parts, assemblies and coating unit components must be emptied into an enclosed container or collection system that is kept closed when not in use.

(4) Spray gun cleaning. All spray guns shall be cleaned by one or more of the following methods:

(a) Enclosed system that is closed at all times except when inserting or removing the spray gun. If leaks in the system are found, repairs shall be made as soon as practicable, but no later than 15 days after the leak was found. If the leak is not repaired by the 15th day, the cleaning solvent shall be removed and the enclosed cleaner shall be shut down until the leak is repaired or its use is permanently discontinued.

(b) Nonatomized cleaning.

(i) Spray guns shall be cleaned by placing cleaning solvent in the pressure pot and forcing it through the gun with the atomizing cap in place.

(ii) No atomizing air is to be used.

(iii) The cleaning solvent from the spray gun shall be directed into a vat, drum, or other waste container that is closed when not in use.

(c) Disassembled spray gun cleaning.

(i) Spray guns shall be cleaned by disassembling and cleaning the components by hand in a vat, which shall remain closed at all times except when in use.

(ii) Spray gun components shall be soaked in a vat, which shall remain closed during the soaking period and when not inserting or removing components.

(d) Atomizing spray into a waste container that is fitted with a device designed to capture atomized solvent emissions.

(e) Cleaning of the nozzle tips of automated spray equipment systems, except for robotic systems that can be programmed to spray into a closed container, shall be exempt from these requirements.

R307-355-9. Add-On Controls Systems Operations.

(1) The owner or operator shall install and maintain an incinerator, carbon adsorption, or any other add-on emission control system, provided that the emission control system is operated and maintained in accordance with the manufacturer recommendations in order to maintain at least 81% capture and control efficiency. Determination of overall capture and control efficiency shall be determined using EPA approved methods, as follows.

(a) The capture efficiency of a VOC emission control system's VOC collection device shall be determined according to EPA's "Guidelines for Determining Capture Efficiency," January 9, 1995 and 40 CFR Part 51, Appendix M, Methods 204-204F, as applicable.

(b) The control efficiency of a VOC emission control system's VOC control device shall be determined using test methods in Appendices A-1, A-6, and A-7 to 40 CFR Part 60, for measuring flow rates, total gaseous organic concentrations, or emissions of exempt compounds, as applicable.

(c) An alternative test method may be substituted for the preceding test methods after review and approval by the EPA Administrator.

(2) The owner or operator of a control system shall provide documentation that the emission control system will attain the requirements of R307-355-9(1).

(3) The owner or operator shall maintain records of key system parameters necessary to ensure compliance with R307-355-9. Key system parameters may include, but are not limited to, temperature, pressure and flow rates. Operator inspection schedule, monitoring, recordkeeping, and key parameters shall be in accordance with the manufacturer's recommendations, and as required to demonstrate operations are providing continuous emission reduction from the source during all periods that the operations cause emissions from the source.

(4) The owner or operator shall maintain for a minimum of

two years records of operating and maintenance sufficient to demonstrate that the equipment is being operated and maintained in accordance with the manufacturer recommendations.

KEY: air pollution, coating, aerospace
Date of Enactment or Last Substantive Amendment: December 1, 2014
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)

R307. Environmental Quality, Air Quality.
R307-356. Appliance Pilot Light.
R307-356-1. Purpose.

The purpose of R307-356 is to reduce volatile organic compound (VOC) emissions from natural gas-fired fan-type central furnaces, gas fireplaces, and gas stoves.

R307-356-2. Applicability.

R307-356 applies to manufacturers, distributors, retailers, and installers of residential, institutional, and commercial natural gas-fired fan-type central furnaces, fireplaces, stoves, and cooktops, and applies in Box Elder, Cache, Davis, Salt Lake, Tooele, Utah, and Weber counties.

R307-356-3. Exemptions.

The requirements of R307-356 shall not apply to:

(1) Units using a fuel other than natural gas;

(2) Units using an intermittent pilot ignition;

(3) Units used in recreational vehicles; or

(4) Units manufactured and sold in Box Elder, Davis, Cache, Weber, Salt Lake, and Utah counties that are for shipment and use outside of those counties.

R307-356-4. Definitions.

The following additional definitions apply to R307-356:

"Fan type central furnace" means a self-contained space heater providing for circulation of heated air at pressures other than atmospheric through ducts more than ten inches in length that have rated heat input capacity of less than 175,000 BTU per hour and that require single phase electric supply.

"Fireplace" means a vented or non-vented gas appliance, including freestanding, recessed, zero clearance, or a fireplace insert, that simulates a solid fuel fireplace.

"Rated heat input capacity" means the gross heat input capacity specified on the nameplate of either the unit or the burner.

"Recreational vehicle" means a motor home, travel trailer, truck camper, or camping trailer, with or without motive power, designed for human habitation for recreational, emergency, or other occupancy.

R307-356-5. General Provisions.

After January 1, 2014, no person shall manufacture for sale,

distribute, sell, offer for sale, or install any natural gas-fired fan-type central furnaces, gas fireplaces, or gas stoves that require the use of a continuous pilot light for ignition.

KEY: pilot lights, furnaces, fireplaces, stoves
Date of Enactment or Last Substantive Amendment: January 1, 2013
Authorizing, and Implemented or Interpreted Law: 19-2-101; 19-2-104

R307. Environmental Quality, Air Quality.
R307-357. Consumer Products.
R307-357-1. Purpose.

The purpose of this rule is to reduce volatile organic compound (VOC) emissions from consumer products.

R307-357-2. Applicability.

R307-357 applies to any person who sells, supplies, offers for sale, distributes for sale, or manufactures for sale consumer products on or after the effective date in Table 1 for use in Box Elder, Cache, Davis, Salt Lake, Tooele, Utah, and Weber counties.

R307-357-3. Definitions.

The following additional definitions apply to R307-357:

"Adhesive" means any product that is used to bond one surface to another by attachment.

(1) Adhesive does not include products used on humans and animals, adhesive tape, contact paper, wallpaper, shelf liners, or any other product with an adhesive incorporated onto or in an inert substrate.

(2) For contact adhesive, construction, panel, and floor covering adhesive and general purpose adhesive only, adhesive also does not include units of product, less packaging, which consist of more than one gallon. This limitation does not apply to aerosol adhesives.

"Adhesive remover" means a product designed exclusively for the removal of adhesives, caulk and other bonding materials from either a specific substrate or a variety of substrates.

"Aerosol adhesive" means an aerosol product in which the spray mechanism is permanently housed in a nonrefillable can designed for hand-held application without the need for ancillary hoses or spray equipment.

"Aerosol cooking spray" means any aerosol product designed to reduce sticking on cooking and baking surfaces and is applied on cooking surfaces, baking surfaces, or food.

"Aerosol Product" means a pressurized spray system that dispenses product ingredients by means of a propellant or mechanically induced force but does not include pump sprays.

"Agricultural use" means the use of any pesticide or method or device for the control of pests in connection with the commercial production, storage or processing of any animal or plant crop.

(1) Agricultural use does not include the sale or use of pesticides in properly labeled packages or containers which are intended for:

(a) Home use;

(b) Use in structural pest control;

(c) Industrial; or

(d) Institutional use.

(2) For the purposes of this definition only:

(a) "Home use" means use in a household or its immediate environment.

(b) "Structural pest control" means a use requiring a license under state or federal pesticide licensing requirements.

(c) "Industrial use" means use for or in a manufacturing, mining, or chemical process or use in the operation of factories, processing plants, and similar sites.

(d) "Institutional use" means use within the lines of, or on property necessary for the operation of buildings such as hospitals, schools, libraries, auditoriums, and office complexes.

"Air freshener" means any product, including, but not limited to, sprays, wicks, wipes, diffusers, powders, and crystals, designed for the purpose of masking odors, or freshening, cleaning, scenting, or deodorizing the air.

(1) Air freshener does not include products that are used on the human body, products that function primarily as cleaning products as indicated on the product label, or odor remover/eliminator products.

"All other carbon containing compounds" means all other compounds which contain at least one carbon atom and are not a VOC defined compound or a LVP-VOC.

"All other forms" means all consumer product forms for which no form specific VOC standard is specified, and unless specified otherwise by the applicable VOC standard, all other forms include, but are not limited to, solids, liquids, wicks, powders, crystals, and cloth or paper wipes (towelettes).

"Antimicrobial hand or body cleaner or soap" means a cleaner or soap which is designed to reduce the level of microorganisms on the skin through germicidal activity.

(1) Antimicrobial hand or body cleaner or soap includes, but is not limited to:

(a) Antimicrobial hand or body washes and cleaners;

(b) Foodhandler hand washes;

(c) Healthcare personnel hand washes;

(d) Pre-operative skin preparations; and

(e) Surgical scrubs.

(2) Antimicrobial hand or body cleaner or soap does not include prescription drug products, antiperspirants, astringent/toner, deodorant, facial cleaner or soap, general-use hand or body cleaner or soap, hand dishwashing detergent (including antimicrobial), heavy-duty hand cleaner or soap, medicated astringent/medicated toner, or rubbing alcohol.

"Antiperspirant" means any product including, but not limited to, aerosols, roll-ons, sticks, pumps, pads, creams, and squeeze

bottles, that is intended by the manufacturer to be used to reduce perspiration in the human axilla by at least 20 percent in at least 50 percent of a target population.

"Anti-static product" means a product that is labeled to eliminate, prevent, or inhibit the accumulation of static electricity.

"Architectural coating" means a coating applied to stationary structures and their appurtenances, to mobile homes, to pavements, or to curbs.

"ASTM" means the American Society for Testing and Materials.

"Astringent/toner" means any product not regulated as a drug by the United States Food and Drug Administration (FDA) which is applied to the skin for the purpose of cleaning or tightening pores.

(1) This category also includes clarifiers and substrate-impregnated products.

(2) This category does not include any hand, face, or body cleaner or soap product, medicated astringent/medicated toner, cold cream, lotion, or antiperspirant.

"Automotive hard paste wax" means an automotive wax or polish that is:

(1) Designed to protect and improve the appearance of automotive paint surfaces;

(2) A solid at room temperature; and

(3) Contains 0% water by formulation.

"Automotive instant detailer" means a product designed for use in a pump spray that is applied to the painted surface of automobiles and wiped off prior to the product being allowed to dry.

"Automotive rubbing or polishing compound" means a product designed primarily to remove oxidation, old paint, scratches or "swirl marks," and other defects from the painted surfaces of motor vehicles without leaving a protective barrier.

"Automotive wax, polish, sealant or glaze" means a product designed to seal out moisture, increase gloss, or otherwise enhance a motor vehicle's painted surfaces.

(1) Automotive wax, polish, sealant or glaze includes, but is not limited to, products designed for use in autobody repair shops, drive-through car washes and products designed for the general public.

(2) Automotive wax, polish, sealant or glaze does not include automotive rubbing or polishing compounds, automotive wash and wax products, surfactant-containing car wash products, and products designed for use on unpainted surfaces such as bare metal, chrome, glass, or plastic.

"Automotive windshield washer fluid" means any liquid designed for use in a motor vehicle windshield washer system either as an antifreeze or for the purpose of cleaning, washing, or wetting the windshield but does not include fluids placed by the manufacturer in a new vehicle.

"Bait station insecticide" means containers enclosing an insecticidal bait that is not more than 0.5 ounce by weight, where

the bait is designed to be ingested by insects and is composed of solid material feeding stimulants with less than 5% active ingredients.

"Bathroom and tile cleaner" means a product designed to clean tile or surfaces in bathrooms but does not include products specifically designed to clean toilet bowls or toilet tanks.

"Brake cleaner" means a cleaning product designed to remove oil, grease, brake fluid, brake pad material or dirt from motor vehicle brake mechanisms.

"Bug and tar remover" means a product designed to remove either or both of the following from painted motor vehicle surfaces without causing damage to the finish:

(1) Biological-type residues such as insect carcasses and tree sap; and

(2) Road grime, such as road tar, roadway paint markings, and asphalt.

"CARB" means the California Air Resources Board.

"Carburetor or fuel-injection air intake cleaners" means a product designed to remove fuel deposits, dirt, or other contaminants from a carburetor, choke, throttle body of a fuel-injection system, or associated linkages but does not include products designed exclusively to be introduced directly into the fuel lines or fuel storage tank prior to introduction into the carburetor or fuel injectors.

"Carpet and upholstery cleaner" means a cleaning product designed for the purpose of eliminating dirt and stains on rugs, carpeting, the interior of motor vehicles, household furniture, or objects upholstered or covered with fabrics such as wool, cotton, nylon or other synthetic fabrics.

(1) Carpet and upholstery cleaner includes, but is not limited to, products that make fabric protectant claims.

(2) Carpet and upholstery cleaner does not include general purpose cleaners, spot removers, vinyl or leather cleaners, dry cleaning fluids, or products designed exclusively for use at industrial facilities engaged in furniture or carpet manufacturing.

"Charcoal lighter material" means any combustible material designed to be applied on, incorporated in, added to, or used with charcoal to enhance ignition.

"Colorant" means any pigment or coloring material used in a consumer product for an aesthetic effect, or to dramatize an ingredient.

"Construction, panel, and floor covering adhesive" means any one component adhesive that is designed exclusively for the installation, remodeling, maintenance, or repair of:

(1) Structural and building components that include, but are not limited to, beams, trusses, studs, paneling (drywall or drywall laminates, fiberglass reinforced plastic (FRP), plywood, particle board, insulation board, pre-decorated hardboard or tileboard, etc.), ceiling and acoustical tile, molding, fixtures, countertops or countertop laminates, cove or wall bases, and flooring or subflooring; or

(2) Floor or wall coverings that include, but are not limited to, wood or simulated wood covering, carpet, carpet pad or cushion, vinyl backed carpet, flexible flooring material, nonresilient flooring material, mirror tiles and other types of tiles, and artificial grass.

(3) Construction, panel, and floor covering adhesive does not include floor seam sealer.

"Consumer" means any person who purchases, or acquires any consumer product for personal, family, household, or institutional use, and persons acquiring a consumer product for resale are not consumers for that product.

"Consumer product" means a chemically formulated product used by household and institutional consumers including, but not limited to, detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn, and garden products; disinfectants; sanitizers; aerosol paints; and automotive specialty products but does not include other paint products, furniture coatings, or architectural coatings.

"Contact adhesive" means a non-aerosol adhesive that:

(1) Is designed for application to both surfaces to be bonded together;

(2) Is allowed to dry before the two surfaces are placed in contact with each other;

(3) Forms an immediate bond that is impossible, or difficult, to reposition after both adhesive-coated surfaces are placed in contact with each other; and

(4) Does not need sustained pressure or clamping of surfaces after the adhesive-coated surfaces have been brought together using sufficient momentary pressure to establish full contact between both surfaces.

(5) Contact adhesive does not include rubber cements that are primarily intended for use on paper substrates.

(6) Contact adhesive does not include vulcanizing fluids that are designed and labeled for tire repair only.

"Container/packaging" means the part or parts of the consumer or institutional product which serve only to contain, enclose, incorporate, deliver, dispense, wrap or store the chemically formulated substance or mixture of substances which is solely responsible for accomplishing the purposes for which the product was designed or intended and includes any article onto or into which the principal display panel and other accompanying literature or graphics are incorporated, etched, printed or attached.

"Crawling bug insecticide" means any insecticide product that is designed for use against ants, cockroaches, or other household crawling arthropods, including, but not limited to, mites, silverfish or spiders but does not include products designed to be used exclusively on humans or animals, or any house dust mite product.

(1) For the purposes of this definition only:

(a) "House dust mite product" means a product whose label, packaging, or accompanying literature states that the product is

suitable for use against house dust mites, but does not indicate that the product is suitable for use against ants, cockroaches, or other household crawling arthropods.

(b) "House dust mite" means mites which feed primarily on skin cells shed in the home by humans and pets and which belong to the phylum Arthropoda, the subphylum Chelicerata, the class Arachnida, the subclass Acari, the order Astigmata, and the family Pyroglyphidae.

"Date-Code" means the day, month and year on which the consumer product was manufactured, filled, or packaged, or a code indicating such a date.

"Deodorant" means any product including, but not limited to, aerosols, roll-ons, sticks, pumps, pads, creams, and squeeze bottles, that is intended by the manufacturer to be used to minimize odor in the human axilla by retarding the growth of bacteria which cause the decomposition of perspiration.

"Device" means any instrument or contrivance (other than a firearm) which is designed for trapping, destroying, repelling, or mitigating any pest or any other form of plant or animal life (other than man and other than bacteria, virus, or other microorganism on or in living man or other living animals) but does not include equipment used for the application of pesticides when sold separately therefrom.

"Disinfectant" means any product that is labeled as a disinfectant or is labeled as a product that destroys or irreversibly inactivates infectious or other undesirable bacteria, pathogenic fungi, or viruses on surfaces or inanimate objects and whose label is registered as a disinfectant under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA, 7 U.S.C. 136, et seq.).

(1) Products that are labeled as both a "sanitizer" and a "disinfectant" are considered disinfectants.

(2) Disinfectant does not include any of the following:

(a) Products labeled as solely for use on human or animals;

(b) Products labeled as solely for agricultural use;

(c) Products labeled as solely for use in swimming pools, therapeutic tubs, or hot tubs;

(d) Products that are labeled to be used on heat sensitive critical or semi-critical medical devices or medical equipment surfaces;

(e) Products that are pre-moistened wipes or towelettes sold exclusively to medical, convalescent, or veterinary establishments;

(f) Products that are labeled to be applied to food-contact surfaces and are not required to be rinsed prior to contact with food; or

(g) Products labeled as bathroom and tile cleaners, glass cleaners, general purpose cleaners, metal polishes, carpet cleaners or fabric refreshers that may also make disinfecting or antimicrobial claims on the label.

"Distributor" means any person to whom a consumer product is sold or supplied for the purposes of resale or distribution in

commerce, except that manufacturers, retailers, and consumers are not distributors.

"Double phase aerosol air freshener" means an aerosol air freshener with the liquid contents in two or more distinct phases that requires the product container be shaken before use to mix the phases, producing an emulsion.

"Dry cleaning fluid" means any non-aqueous liquid product designed and labeled exclusively for use on fabrics which are labeled for dry clean only, such as clothing or drapery or s-coded fabrics.

(1) Dry cleaning fluid includes, but is not limited to, those products used by commercial dry cleaners and commercial businesses that clean fabrics such as draperies at the customer's residence or work place.

(2) Dry cleaning fluid does not include spot remover or carpet and upholstery cleaner.

"Dual purpose air freshener/disinfectant" means an aerosol product that is represented on the product container for use as both a disinfectant and an air freshener or is so represented on any sticker, label, packaging, or literature attached to the product container.

"Dusting aid" means a product designed to assist in removing dust and other soils from floors and other surfaces without leaving a wax or silicone based coating but does not include products which consist entirely of compressed gases for use in electronic or other specialty areas.

"Electrical cleaner" means a product labeled as a product that removes heavy soils such as grease, grime, or oil from electrical equipment, including, but not limited to, electric motors, armatures, relays, electric panels, or generators.

(1) Electrical cleaner does not include general purpose cleaner, general purpose degreaser, dusting aid, electronic cleaner, energized electrical cleaner, pressurized gas duster, engine degreaser, anti-static product, or products designed to clean the casings or housings of electrical equipment.

"Electronic cleaner" means a product labeled as a product that removes dirt, moisture, dust, flux or oxide from the internal components of electronic or labeled as precision equipment such as circuit boards and the internal components of electronic devices, including, but not limited to, radios, compact disc players, digital video disc players, and computers.

"Engine degreaser" means a cleaning product designed to remove grease, grime, oil and other contaminants from the external surfaces of engines and other mechanical parts.

"Fabric protectant" means a product labeled as a product to be applied to fabric substrates to protect the surface from soiling from dirt and other impurities or to reduce absorption of liquid into the fabric's fibers but does not include waterproofers or products labeled for use solely on leather.

(1) Fabric protectant does not include pigmented products that are designed to be used primarily for coloring, products used for construction, reconstruction, modification, structural

maintenance or repair of fabric substrates, or products that renew or restore fabric and qualifying as either clear coating or vinyl, fabric, leather, or polycarbonate coatings.

"Fabric refresher" means a product labeled to neutralize or eliminate odors on non-laundered fabric, including, but not limited to, soft household surfaces, rugs, carpeting, draperies, bedding, automotive interiors, footwear, athletic equipment, clothing or on household furniture or objects upholstered or covered with fabrics such as wool, cotton, or nylon. Fabric refresher does not include anti-static products, carpet and upholstery cleaners, footwear or leather care products, spot removers, disinfectants, or products labeled for application to both fabric and human skin.

"Facial cleaner or soap" means a cleaner or soap designed primarily to clean the face.

(1) Facial cleaner or soap includes, but is not limited to, facial cleansing creams, gels, liquids, lotions, and substrate-impregnated forms.

(2) Facial cleaner or soap does not include prescription drug products, antimicrobial hand or body cleaner or soap, astringent/toner, general-use hand or body cleaner or soap, medicated astringent/medicated toner, or rubbing alcohol.

"Flea and tick insecticide" means any insecticide product that is designed for use against fleas, ticks, their larvae, or their eggs but does not include products that are designed to be used exclusively on humans or animals and their bedding.

"Flexible flooring material" means asphalt, cork, linoleum, no wax, rubber, seamless vinyl and vinyl composite flooring.

"Floor polish or wax" means a product designed or labeled as a product to polish, wax, condition, protect, temporarily seal or otherwise enhance floor surfaces by leaving a protective finish that is designed or labeled to be periodically replenished.

(1) Floor polish or wax does not include spray buff products, floor wax strippers, products designed or labeled for unfinished wood floors, or coatings subject to architectural coatings regulations.

(2) Floor polish or wax is divided into three categories: products for resilient flooring materials, products for nonresilient flooring materials, and wood floor wax. For the purposes of this section:

(a) "Resilient flooring material" means flexible flooring material, including but not limited to, asphalt, cork, linoleum, no-wax, rubber, seamless vinyl, and vinyl composite flooring.

(b) "Nonresilient flooring material" means flooring of a mineral content that is not flexible, including, but not limited to, terrazzo, marble, slate, granite, brick, stone, ceramic tile, and concrete.

(c) "Wood floor wax" means wax-based products for use solely on wood floors.

"Floor seam sealer" means any product designed and labeled exclusively for bonding, fusing, or sealing (coating) seams between adjoining rolls of installed flexible sheet flooring.

"Floor wax stripper" means a product designed to remove natural or synthetic floor polishes or waxes through breakdown of the polish or wax polymers, or by dissolving or emulsifying the polish or wax but does not include aerosol floor wax strippers or products designed to remove floor wax solely through abrasion.

"Flying bug insecticide" means any insecticide product that is designed for use against flying insects or other flying arthropods, including but not limited to flies, mosquitoes, moths, or gnats.

(1) Flying bug insecticide does not include wasp and hornet insecticide, products that are designed to be used exclusively on humans or animals, or any moth-proofing product.

(2) For the purposes of this definition only, "moth-proofing product" means a product whose label, packaging, or accompanying literature indicates that the product is designed to protect fabrics from damage by moths, but does not indicate that the product is suitable for use against flying insects or other flying arthropods.

"Fragrance" means a substance or complex mixture of aroma chemicals, natural essential oils, and other functional components with a combined vapor pressure not in excess of two millimeters of mercury (mm Hg) at 20 degrees Celcius, the sole purpose of which is to impart an odor or scent or to counteract a malodor.

"Furniture maintenance product" means a wax, polish, conditioner, or any other product designed for the purpose of polishing, protecting or enhancing finished wood surfaces other than floors but does not include dusting aids, products designed solely for the purpose of cleaning, and products designed to leave a permanent finish such as stains, sanding sealers and lacquers.

"Furniture coating" means any paint designed for application to room furnishings including, but not limited to, cabinets (kitchen, bath and vanity), tables, chairs, beds, and sofas.

"Gel" means a colloid in which the disperse phase has combined with the continuous phase to produce a semisolid material, such as jelly.

"General purpose adhesive" means any non-aerosol adhesive designed for use on a variety of substrates.

(1) General purpose adhesive does not include;

(a) Contact adhesives;

(b) Construction, panel, and floor covering adhesives;

(c) Adhesives designed exclusively for application on one specific category of substrates (i.e., substrates that are composed of similar materials, such as different types of metals, paper products, ceramics, plastics, rubbers, or vinyls); or

(d) Adhesives designed exclusively for use on one specific category of articles (i.e., articles that may be composed of different materials but perform a specific function, such as gaskets, automotive trim, weather-stripping, or carpets).

"General Purpose Cleaner" means a product designed for general all-purpose cleaning, in contrast to cleaning products designed to clean specific substrates in certain situations and includes products designed for general floor cleaning, kitchen or

countertop cleaning, and cleaners designed to be used on a variety of hard surfaces and does not include general purpose degreasers and electronic cleaners.

"General purpose degreaser" means any product labeled as a product that removes or dissolves grease, grime, oil and other oil-based contaminants from a variety of substrates, including automotive or miscellaneous metallic parts.

(1) General purpose degreaser does not include engine degreaser, general purpose cleaner, adhesive remover, electronic cleaner, electrical cleaner, metal polish/cleanser, oven or grill cleaner, products used exclusively in solvent cleaning tanks or related equipment, or products that are:

(a) Exclusively sold directly or through distributors to establishments that manufacture or construct goods or commodities; and

(b) Labeled for use in the manufacturing process only.

(2) Solvent cleaning tanks or related equipment includes, but is not limited to, cold cleaners, vapor degreasers, conveyorized degreasers, film cleaning machines, or products designed to clean miscellaneous metallic parts by immersion in a container.

"General-use hand or body cleaner or soap" means a cleaner or soap designed to be used routinely on the skin to clean or remove typical or common dirt and soils.

(1) General-use hand or body cleaner or soap includes, but is not limited to, hand or body washes, dual-purpose shampoo-body cleaners, shower or bath gels, and moisturizing cleaners or soaps.

(2) General-use hand or body cleaner or soap does not include prescription drug products, antimicrobial hand or body cleaner or soap, astringent/toner, facial cleaner or soap, hand dishwashing detergent (including antimicrobial), heavy-duty hand cleaner or soap, medicated astringent/medicated toner, or rubbing alcohol.

"Glass cleaner" means a cleaning product designed primarily for cleaning surfaces made of glass but does not include products designed solely for the purpose of cleaning optical materials used in eyeglasses, photographic equipment, scientific equipment and photocopying machines.

"Graffiti remover" means a product labeled to remove spray paint, ink, marker, crayon, lipstick, nail polish, or shoe polish from a variety of non-cloth or non-fabric substrates.

(1) Graffiti remover does not include paint remover or stripper, nail polish remover, or spot remover.

(2) Products labeled for dual use as both a paint stripper and graffiti remover are considered graffiti removers.

"Hair mousse" means a hairstyling foam designed to facilitate styling of a coiffure and provide limited holding power.

"Hair shine" means any product designed for the primary purpose of creating a shine when applied to the hair.

(1) Hair shine includes, but is not limited to, dual-use products designed primarily to impart a sheen to the hair.

(2) Hair shine does not include hair spray, hair mousse,

hair styling gel or spray gel, or products whose primary purpose is to condition or hold the hair.

"Hair styling gel" means a high viscosity, often gelatinous, product that contains a resin and is designed for the application to hair to aid in styling and sculpting of the hair coiffure.

"Hair spray" means a consumer product designed primarily for the purpose of dispensing droplets of a resin on and into a hair coiffure which will impart sufficient rigidity to the coiffure to establish or retain the style for a period of time.

"Hair Styling Product" means a consumer product manufactured on or after January 1, 2009, that is designed or labeled as a product for the application to wet, damp or dry hair to aid in defining, shaping, lifting, styling or sculpting of the hair.

(1) Hair styling product includes, but is not limited to, hair balm, clay, cream, curl straightener, gel, liquid, lotion, paste, pomade, putty, root lifter, serum, spray gel, stick, temporary hair straightener, wax, spray products that aid in styling but do not provide finishing of a hairstyle, and leave-in volumizers, detanglers or conditioners that make styling claims.

(2) Hair styling product does not include hair mousse, hair shine, hair spray, or shampoos or conditioners that are rinsed from the hair prior to styling.

"Heavy-duty hand cleaner or soap" means a product designed to clean or remove difficult dirt and soils such as oil, grease, grime, tar, shellac, putty, printer's ink, paint, graphite, cement, carbon, asphalt, or adhesives from the hand with or without the use of water but does not include prescription drug products, antimicrobial hand or body cleaner or soap, astringent/toner, facial cleaner or soap, general-use hand or body cleaner or soap, medicated astringent/medicated toner, or rubbing alcohol.

"Herbicide" means a pesticide product designed to kill or retard a plant's growth, but excludes products that are:

(1) For agricultural use; or

(2) Restricted materials that require a permit for use and possession.

"High volatility organic compound (HVOC)" means any volatile organic compound that exerts a vapor pressure greater than 80 millimeters of Mercury (mm Hg) when measured at 20 degrees Celsius.

"Household product" means any consumer product that is primarily designed to be used inside or outside of living quarters or residences that are occupied or intended for occupation by individuals, including the immediate surroundings.

"Insecticide" means a pesticide product that is designed for use against insects or other arthropods, but excluding products that are:

(1) For agricultural use;

(2) For a use which requires a structural pest control license under applicable state or federal laws or regulations; or

(3) Restricted materials that require a permit for use and possession.

"Insecticide fogger" means any insecticide product designed to release all or most of its content, as a fog or mist, into indoor areas during a single application.

"Institutional product" or "Industrial and institutional (I nd I) product" means a consumer product that is designed for use in the maintenance or operation of an establishment that manufactures, transports, or sells goods or commodities, or provides services for profit or is engaged in the nonprofit promotion of a particular public, educational, or charitable cause.

(1) Establishments include, but are not limited to, government agencies, factories, schools, hospitals, sanitariums, prisons, restaurants, hotels, stores, automobile service and parts centers, health clubs, theaters, or transportation companies.

(2) Institutional product does not include household products and products that are incorporated into or used exclusively in the manufacture or construction of the goods or commodities at the site of the establishment.

"Label" means any written, printed, or graphic matter affixed to, applied to, attached to, blown into, formed, molded into, embossed on, or appearing upon any consumer product or consumer product package, for purposes of branding, identifying, or giving information with respect to the product or to the contents of the package.

"Laundry prewash" means a product that is designed for application to a fabric prior to laundering and that supplements and contributes to the effectiveness of laundry detergents or provides specialized performance.

"Laundry starch product" means a product that is designed for application to a fabric, either during or after laundering, to impart and prolong a crisp, fresh look and may also act to help ease ironing of the fabric and includes, but is not limited to, fabric finish, sizing, and starch.

"Lawn and garden insecticide" means an insecticide product designed primarily to be used in household lawn and garden areas to protect plants from insects or other arthropods.

"Liquid" means a substance or mixture of substances which is capable of a visually detectable flow as determined under ASTM D 4359- 90 but does not include powders or other materials that are composed entirely of solid particles.

"Lubricant" means a product designed to reduce friction, heat, noise, or wear between moving parts or to loosen rusted or immovable parts or mechanisms.

(1) Lubricant does not include automotive power steering fluids; products for use inside power generating motors, engines, and turbines, and their associated power-transfer gearboxes; two cycle oils or other products designed to be added to fuels; products for use on the human body or animals; or products that are:

(a) Exclusively sold directly or through distributors to establishments that manufacture or construct goods or commodities; and

(b) Labeled for use in the manufacturing process only.

"LVP content" means the total weight, in pounds, of LVP compounds in a product multiplied by 100 and divided by the product's total net weight (in pounds, excluding container and packaging), expressed to the nearest 0.1.

"LVP-VOC" means a chemical compound or mixture that contains at least one carbon atom and meets one of the following:

(1) Has a vapor pressure less than 0.1 mm Hg at 20 degrees Celsius, as determined by CARB Method 310;

(2) Is a chemical compound with more than 12 carbon atoms, or a chemical mixture comprised solely of compounds with more than 12 carbon atoms, and the vapor pressure is unknown;

(3) Is a chemical compound with a boiling point greater than 216 degrees Celsius, as determined by CARB Method 310; or

(4) Is the weight percent of a chemical mixture that boils above 216 degrees Celsius, as determined by CARB Method 310.

(5) For the purposes of the definition of LVP-VOC:

(a) "Chemical compound" means a molecule of definite chemical formula and isomeric structure; and

(b) "Chemical mixture" means a substrate comprised of two or more chemical compounds.

"Manufacturer" means any person who imports, manufactures, assembles, produces, packages, repackages, or re-labels a consumer product.

"Medicated astringent/medicated toner" means any product regulated as a drug by the FDA which is applied to the skin for the purpose of cleaning or tightening pores.

(1) Medicated astringent/medicated toner includes, but is not limited to, clarifiers and substrate-impregnated products.

(2) Medicated astringent/medicated toner does not include hand, face, or body cleaner or soap products, astringent/toner, cold cream, lotion, antiperspirants, or products that must be purchased with a doctor's prescription.

"Medium volatility organic compound (MVOC)" means any volatile organic compound that exerts a vapor pressure greater than two mm Hg and less than or equal to 80 mm Hg when measured at 20 degrees Celsius.

"Metal polish/cleanser" means any product designed primarily to improve the appearance of finished metal, metallic, or metallized surfaces by physical or chemical action.

(1) To improve the appearance means to remove or reduce stains, impurities, or oxidation from surfaces or to make surfaces smooth and shiny.

(2) Metal polish/cleanser includes, but is not limited to, metal polishes used on brass, silver, chrome, copper, stainless steel and other ornamental metals.

(3) Metal polish/cleanser does not include automotive wax, polish, sealant or glaze, wheel cleaner, paint remover or stripper, products designed and labeled exclusively for automotive and marine detailing, or products designed for use in degreasing tanks.

"Mist spray adhesive" means any aerosol which is not a

special purpose spray adhesive and which delivers a particle or mist spray, resulting in the formation of fine, discrete particles that yield a generally uniform and smooth application of adhesive to the substrate.

"Multi-purpose dry lubricant" means any lubricant that is:

(1) Designed and labeled to provide lubricity by depositing a thin film of graphite, molybdenum disulfide ("moly"), or polytetrafluoroethylene or closely related fluoropolymer ("teflon") on surfaces; and

(2) Designed for general purpose lubrication, or for use in a wide variety of applications.

"Multi-purpose lubricant" means any lubricant designed for general purpose lubrication or for use in a wide variety of applications but does not include multi-purpose dry lubricants, penetrants, or silicone-based multi-purpose lubricants.

"Multi-purpose solvent" means any liquid product designed or labeled to be used for dispersing, dissolving, or removing contaminants or other organic materials.

(1) Multi-purpose solvent includes:

(a) Products that do not display specific use instructions on the product container or packaging;

(b) Products that do not specify an end-use function or application on the product container or packaging;

(c) Solvents used in institutional facilities, except for laboratory reagents used in analytical, educational, research, scientific or other laboratories;

(d) Paint clean-up products; and

(e) Products labeled to prepare surfaces for painting.

(2) Multi-purpose solvent does not include any product making any representation that the product may be used as, or is suitable for use as, a consumer product that meets another definition in R307-357-3; such products are subject to the most restrictive limit provisions in R307-357-10(4) and R307-357-10(5).

"Nail polish" means any clear or colored coating designed for application to the fingernails or toenails and including but not limited to, lacquers, enamels, acrylics, base coats and top coats.

"Nail polish remover" means a product designed to remove nail polish and coatings from fingernails or toenails.

"Non aerosol product" means any consumer product that is not dispensed by a pressurized spray system.

"Non carbon containing compound" means any compound which does not contain any carbon atoms.

"Non-selective terrestrial herbicide" means a terrestrial herbicide product that is toxic to plants without regard to species.

"Oven or grill cleaner" means a product labeled exclusively as a product to remove baked on grease or deposits from food preparation or cooking surfaces.

"Paint" means any pigmented liquid, liquefiable, or mastic composition designed for application to a substrate in a thin layer which is converted to an opaque solid film after application and is used for protection, decoration or identification, or to

serve some functional purpose such as the filling or concealing of surface irregularities or the modification of light and heat radiation characteristics.

"Paint remover or stripper" means any product designed to strip or remove paints or other related coatings, by chemical action, from a substrate without markedly affecting the substrate but does not include "Multi-purpose Solvents", paint brush cleaners, products designed and labeled exclusively to remove graffiti, and hand cleaner products that claim to remove paints and other related coatings from skin.

"Paint thinner" means any liquid product used for reducing the viscosity of coating compositions or components or that prominently displays the term paint thinner, lacquer thinner, thinner, or reducer on the front panel of its packaging.

(1) Paint thinner does not include any of the following products:

(a) Artist's solvent/thinner;

(b) Products that are sold in containers with a capacity of five gallons or more and labeled exclusively for the thinning of industrial maintenance coatings, zinc-rich primers, or high temperature coatings;

(c) Products labeled and used exclusively as an ingredient in a specific coating or coating brand line whereby the coating would not be complete or useable without the specific ingredient;

(d) Products that meet both of the following criteria:

(i) The principle display panel of the product displays states that the product is used exclusively for the thinning of industrial maintenance coatings, zinc-rich primers, or high temperature coatings; and

(ii) No representation is made anywhere on the product container or packaging or any label or sticker attached thereto that the product is suitable for use or may be used for any other purpose except the thinning of industrial maintenance coatings, zinc-rich primers, or high temperature coatings.

"Penetrant" means a lubricant designed and labeled primarily to loosen metal parts that have bonded together due to rusting, oxidation, or other causes but does not include "Multi-purpose Lubricants" that claim to have penetrating qualities, but are not labeled primarily to loosen bonded parts.

"Pesticide" means and includes any substance or mixture of substances labeled, designed, or intended for use in preventing, destroying, repelling or mitigating any pest, or any substance or mixture of substances labeled, designed, or intended for use as a defoliant, desiccant, or plant regulator, provided that the term "pesticide" will not include any substance, mixture of substances, or device which the United States Environmental Protection Agency does not consider to be a pesticide.

"Principal display panel or panels" means that part, or those parts of a label that are so designed as to most likely be displayed, presented, shown or examined under normal and customary conditions of display or purchase. Whenever a principal display panel appears more than once, all requirements pertaining to the

"principal display panel" shall pertain to all such "principal display panels."

"Product category" means the applicable category which best describes the product as listed in Table 1. "Propellant" means a liquefied or compressed gas that is used in whole or in part, such as a cosolvent, to expel a liquid or any other material from the same self-pressurized container or from a separate container.

"Pump spray" means a packaging system in which the product ingredients within the container are not under pressure and in which the product is expelled only while a pumping action is applied to a button, trigger or other actuator.

"Restricted materials" means pesticides established as restricted materials under applicable state or federal laws or regulations.

"Roll on product" means any antiperspirant or deodorant that dispenses active ingredients by rolling a wetted ball or wetted cylinder on the affected area.

"Rubber/vinyl protectant" means any product labeled as a product that protects, preserves or renews vinyl or rubber on vehicles, tires, luggage, furniture, or household products such as vinyl covers, clothing, or accessories. Rubber/vinyl protectant does not include products labeled to clean the wheel rim, such as aluminum or magnesium wheel cleaners, and tire cleaners that do not leave an appearance-enhancing or protective substance on the tire.

"Sanitizer" means a product that is labeled as a sanitizer or labeled as a product to reduce, but not necessary eliminate, microorganisms in the air, on surfaces, or on inanimate objects and whose label is registered as a sanitizer under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA; 7 U.S.C. section 136 et seq.)

(1) Products that are labeled as both a sanitizer and a disinfectant are considered disinfectants.

(2) Sanitizers do not include:

(a) Disinfectants;

(b) Products labeled solely for use on humans or animals;

(c) Products labeled solely for agricultural use;

(d) Products labeled solely for use in swimming pools, therapeutic tubs, or hot tubs;

(e) products that are labeled to be used on heat sensitive critical or semi-critical medical devices or medical equipment surfaces;

(f) Pre-moistened wipes or towelettes sold exclusively to medical, convalescent or veterinary establishments;

(g) Products that are labeled to be applied to food-contact surfaces and are not required to be rinsed prior to contact with food; or

(h) Bathroom and tile cleaners, glass cleaners, general purpose cleaners, metal polishers or fabric refreshers that may also make sanitizing or anti-microbial claims on the label.

"Rubbing alcohol" means any product containing isopropyl alcohol (also called isopropanol) or denatured ethanol and labeled

for topical use, usually to decrease germs in minor cuts and scrapes, to relieve minor muscle aches, as a rubefacient, and for massage.

"Sealant and caulking compound" means any product with adhesive properties that is designed to fill, seal, waterproof, or weatherproof gaps or joints between two surfaces.

(1) Sealant and caulking compound does not include roof cements and roof sealants; insulating foams; removable caulking compounds; clear/paintable/water resistant caulking compounds; floor seam sealers; products designed exclusively for automotive uses; or sealers that are applied as continuous coatings.

(2) Sealant and caulking compound also does not include units of product, less packaging, which weigh more than one pound and consist of more than 16 fluid ounces.

(3) For the purposes of this definition only:

(a) "Removable caulking compounds" means a compound which temporarily seals windows or doors for three to six month time intervals; and

(b) "Clear/paintable/water resistant caulking compounds" means a compound which contains no appreciable level of opaque fillers or pigments; transmits most or all visible light through the caulk when cured; is paintable; and is immediately resistant to precipitation upon application.

"Semisolid" means a product that, at room temperature, will not pour, but will spread or deform easily, including gels, pastes, and greases.

"Shaving cream" means an aerosol product which dispenses a foam lather intended to be used with a blade, cartridge razor, or other wet shaving system in the removal of facial or other bodily hair.

"Shaving Gel" means an aerosol product that dispenses a post-foaming semisolid designed to be used with a blade, cartridge razor, or other shaving system in the removal of facial or other bodily hair.

"Silicone-based multi-purpose lubricant" means any lubricant which is:

(1) Designed and labeled to provide lubricity primarily through the use of silicone compounds including, but not limited to, polydimethylsiloxane; and

(2) Designed and labeled for general purpose lubrication, or for use in a wide variety of applications.

(3) Silicone-based multi-purpose lubricant does not include products designed and labeled exclusively to release manufactured products from molds.

"Single phase aerosol air freshener" means an aerosol air freshener with the liquid contents in a single homogeneous phase and which does not require that the product container be shaken before use.

"Solid" means a substance or mixture of substances which, either whole or subdivided (such as the particles comprising a powder), is not capable of visually detectable flow as determined under ASTM D-4359-90.

"Special purpose spray adhesive" means an aerosol adhesive that meets any of the following definitions:

(1) "Mounting adhesive" means an aerosol adhesive designed to permanently mount photographs, artwork, and any other drawn or printed media to a backing (paper, board, cloth, etc.) without causing discoloration to the artwork.

(2) "Flexible vinyl adhesive" means an aerosol adhesive designed to bond flexible vinyl to substrates.

(a) "Flexible vinyl" means a nonrigid polyvinyl chloride plastic with at least five percent, by weight, of plasticizer content.

(b) "Plasticizer" means a material such as a high boiling point organic solvent that is incorporated into a plastic to increase its flexibility, workability, or distensibility, and may be determined using ASTM Method E260-91 or from product formulation data.

(3) "Polystyrene foam adhesive" means an aerosol adhesive designed to bond polystyrene foam to substrates.

(4) "Automobile headliner adhesive" means an aerosol adhesive designed to bond together layers in motor vehicle headliners.

(5) "Polyolefin adhesive" means an aerosol adhesive designed to bond polyolefins to substrates.

(6) "Laminate repair/edgebanding adhesive" means an aerosol adhesive designed for:

(a) The touch-up or repair of items laminated with high pressure laminates (e.g., lifted edges, delaminates, etc.); or

(b) The touch-up, repair, or attachment of edgebonding materials, including but not limited to, other laminates, synthetic marble, veneers, wood molding, and decorative metals.

(c) For the purposes of this definition, "high pressure laminate" means sheet materials that consist of paper, fabric, or other core material that have been laminated at temperatures exceeding 265 degrees Fahrenheit, and at pressures between 1,000 and 1,400 psi.

(7) "Automotive engine compartment adhesive" means an aerosol adhesive designed for use in motor vehicle under-the-hood applications which require oil and plasticizer resistance, as well as high shear strength, at temperatures of 200 to 275 degrees Fahrenheit.

"Spot remover" means any product designed to clean localized areas, or remove localized spots or stains on cloth or fabric such as drapes, carpets, upholstery, and clothing, that does not require subsequent laundering to achieve stain removal but does not include dry cleaning fluid, laundry prewash, carpet and upholstery cleaner, or multi-purpose solvent.

"Spray buff product" means a product designed to restore a worn floor finish in conjunction with a floor buffing machine and special pad.

"Stick product" means any antiperspirant or deodorant that contains active ingredients in a solid matrix form, and that dispenses the active ingredients by frictional action on the

affected area.

"Structural waterproof adhesive" means an adhesive whose bond lines are resistant to conditions of continuous immersion in fresh or salt water, and that conforms with Federal Specification MMM-A-181 (Type 1, Grade A), and MIL-A-4605 (Type A, Grade A and Grade C). This definition is as per the Federal Consumer Products Regulation 40 CFR 59 Subpart C.

"Terrestrial" means to live on or grow from land.

"Temporary hair color" means any product that applies color, glitter, or UV-active pigments to hair, wigs, or fur and is removable when washed.

"Tire sealant and inflation" means any pressurized product that is designed to temporarily inflate and seal a leaking tire.

"Type A propellant" means a compressed gas such as CO_2, N_2, N_2O, or compressed air which is used as a propellant, and is either incorporated with the product or contained in a separate chamber within the product's packaging.

"Type B propellant" means any halocarbon which is used as a propellant including chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs), and hydrofluorocarbons (HFCs).

"Type C propellant" means any propellant which is not a Type A or Type B propellant, including propane, isobutane, n butane, and dimethyl ether (also known as dimethyl oxide).

"Undercoating" means any aerosol product designed to impart a protective, non-paint layer to the undercarriage, trunk interior, or firewall of motor vehicles to prevent the formation of rust or to deaden sound and includes, but is not limited to, rubberized, mastic, or asphaltic products.

"VOC content" means the total weight of VOC in a product expressed as a percentage of the product weight (exclusive of the container or packaging).

"Wasp and hornet insecticide" means any insecticide product that is designed for use against wasps, hornets, yellow jackets or bees by allowing the user to spray from a distance a directed stream or burst at the intended insects, or their hiding place.

"Waterproofer" means a product designed and labeled exclusively to repel water from fabric or leather substrates. "Waterproofer" does not include "Fabric Protectants".

"Wax" means a material or synthetic thermoplastic substance generally of high molecular weight hydrocarbons or high molecular weight esters of fatty acids or alcohols, except glycerol and high polymers (plastics) and includes, but is not limited to, substances derived from the secretions of plants and animals such as carnuba wax and beeswax, substances of a mineral origin such as ozocerite and paraffin, and synthetic polymers such as polyethylene.

"Web spray adhesive" means any aerosol adhesive which is not a mist spray or special purpose spray adhesive.

"Wood cleaner" means a product labeled to clean wooden materials, including but not limited to, decking, fences, flooring, logs, cabinetry, and furniture.

"Wood floor wax" means wax based products for use solely on

wood floors.

R307-357-4. Standards.

(1) Except as provided in R307-357-6, 7, 8 and 9, no person shall sell, supply, offer for sale, or manufacture for sale any consumer product manufactured on or after the effective date in Table 1 that contains VOCs in excess of the limits specified in Table 1.

TABLE 1
Table of Standards
(percent volatile organic compounds by weight)

CATEGORY	EFFECTIVE BEGINNING 9/1/2014
Adhesive Removers:	
Floor and wall covering	5
Gasket or thread locking	50
General purpose	20
Specialty	70
Adhesives:	
Aerosol mist spray	65
Aerosol web spray	55
Special Purpose Spray Adhesives:	
Mounting, automotive Engine compartment, and flexible vinyl	70
Polystyrene foam and automotive headliner	65
Polylolefin and laminate repair/ edgebanding	60
Construction, panel, and floor	7

Covering:	
Contact general purpose	55
Contact special purpose	80
General purpose	10
Structural waterproof	15
Air Fresheners:	
Single-phase aerosols	30
Double-phase aerosols	25
Dual-purpose air freshener/disinfectant aerosol	60
Liquids/pump sprays	18
Solids/semisolids	3
Antiperspirants:	
Aerosol	40 HVOC 10 MVOC
Non-aerosol	0 HVOC 0 MVOC
Anti-static product:	
Non-aerosol	11
Aerosol	80
Automotive rubbing or polishing compound	17
Automotive wax, polish, sealant or Glaze:	
Hard paste waxes	45
Instant detailers	3
All other forms	15
Automotive windshield	

washer fluids	35
Bathroom and Tile Cleaners:	
Aerosols	7
Non-aerosols	1
Brake cleaner	10
Bug and tar remover	40
Carburetor or fuel-injection air intake cleaners	10
Carpet and Upholstery Cleaners:	
Aerosols	7
Non-aerosols (dilutables)	0.1
Non-aerosols (ready-to-use)	3.0
Cooking spray aerosols	18
Disinfectant:	
Aerosol	70
non-aerosol	1
Deodorants:	
Aerosol	0 HVOC 10 MVOC
Non-aerosol	0 HVOC 0 MVOC
Dusting Aids:	
Aerosols	25
All other forms	7
Electrical cleaner	45
Electronic cleaner	75

Engine Degreasers:	
Aerosol	10
Non-aerosol	5
Fabric protectants	60
Fabric refresher:	
Aerosol	15
Non-aerosol	6
Floor Polishes or Waxes:	
Resilient flooring materials	1
Nonresilient flooring materials	1
Wood floor wax	90
Footwear or leather care products:	
Aerosol	75
Solid	55
Other forms	15
Furniture Maintenance Products:	
Aerosols	17
Non-aerosol (except solid or paste)	3
General Purpose Cleaners:	
Aerosols	8
Non-aerosols	4
General Purpose Degreasers:	
Aerosols	10
Non-aerosols	4

Glass Cleaners:	
Aerosols	12
Non-aerosols	4
Graffiti Remover:	
Aerosols	50
Non-aerosols	30
Hair mousses	6
Hair shines	55
Hairsprays	55
Hair styling gels	6
Hair Styling Products:	
Aerosol and pump sprays	6
All other forms	2
Heavy-duty hand cleaners or soaps	8
Insecticides:	
Crawling bug (aerosol)	15
Crawling bug (all other forms)	20
Flea and tick	25
Flying bug (aerosol)	25
Flying bug (all other forms)	35
Foggers	45
Lawn and garden (all other forms)	20
Lawn and garden	3

(non-aerosol)	
Wasp and hornet	40
Laundry Prewashes:	
Aerosols/solids	22
All other forms	5
Laundry starch products	4.5
Metal polishes/ cleansers	30
Multi-Purpose lubricants (excluding solid or semi-solid products)	50
Nail Polish Removers	1
Non-selective terrestrial herbicides, non-aerosols	3
Oven or Grill Cleaners:	
Aerosols/pump sprays	8
Non-aerosols	4
Paint remover or strippers	50
Paint Thinner	30
Penetrants	50
Rubber or Vinyl Protectants:	
Non-aerosols	3
Sanitizer:	
Aerosol	70
Non-aerosols	1
Sealants and caulking compounds	4

Shaving creams	5
Shaving gel	4
Silicone-based multi-purpose lubricants (excluding solid or semi-solid products)	60
Spot Removers:	
Aerosols	25
Non-aerosols	8
Temporary hair color aerosol	55
Tire sealants and inflators	20
Toilet/urinal care:	
Aerosols	10
Non-aerosol	3
Undercoatings, aerosols	40
Wood Cleaner:	
Aerosol	17
Non-Aerosol	4
	EFFECTIVE BEGINNING 1/1/15
Multi-purpose Solvent	3
	EFFECTIVE BEGINNING 1/1/16
Paint Thinner:	3
Rubber or Vinyl Protectant Aerosols:	10

(2) For consumer products for which the label, packaging, or accompanying literature specifically states that the product should be diluted with water or non-VOC solvent prior to use, the limits specified in Table 1 shall apply to the product only after the minimum recommended dilution has taken place. For purposes of this subsection, "minimum recommended dilution" shall not include recommendations for incidental use of a concentrated product to

deal with limited special applications such as hard to remove soils or stains.

(3) For consumer products for which the label, packaging, or accompanying literature states that the product should be diluted with any VOC solvent prior to use, the limits specified in Table 1 shall apply to the product only after the maximum recommended dilution has taken place.

(4) Effective September 1, 2016, no person shall sell, supply, offer for sale, or manufacture for use any aerosol adhesive, adhesive removers, and graffiti removers that contain methylene chloride, perchloroethylene, or trichloroethylene.

Sell-through products of aerosol adhesive, adhesive removers, and graffiti removers that contain methylene chloride, perchloroethylene, or trichloroethylene and were manufactured before September 1, 2016, may be sold, supplied, or offered for sale so long as the product container or package displays the date on which the product was manufactured.

(5) No person shall sell, supply, offer for sale, or manufacture any floor wax stripper unless the following requirements are met:

(a) The label of each non-aerosol floor wax stripper shall specify a dilution ratio for light or medium build-up of polish that results in an as-used VOC concentration of 3% by weight or less.

(b) If a non-aerosol floor wax stripper is also intended to be used for removal of heavy build-up of polish, the label of that floor wax stripper shall specify a dilution ratio for heavy build-up of polish that results in an as-used VOC concentration of 12% by weight or less.

(6) Products containing ozone-depleting compounds. For any consumer product for which standards are specified under R307-357-4, no person shall sell, supply, offer for sale, or manufacture for sale any consumer product that contains any of the following ozone-depleting compounds:

(a) CFC 11 (trichlorofluoromethane);
(b) CFC 12 (dichlorodifluoromethane);
(c) CFC 113 (1,1,1 trichloro 2,2,2 trifluoroethane);
(d) CFC 114 (1 chloro 1,1 difluoro 2 chloro 2,2 difluoroethane);
(e) CFC 115 (chloropentafluoroethane);
(f) Halon 1211 (bromochlorodifluoromethane);
(g) Halon 1301 (bromotrifluoromethane);
(h) Halon 2402 (dibromotetrafluoroethane);
(i) HCFC 22 (chlorodifluoromethane);
(j) HCFC 123 (2,2 dichloro 1,1,1 trifluoroethane);
(k) HCFC 124 (2 chloro 1,1,1,2 tetrafluoroethane);
(l) HCFC 141b (1,1 dichloro 1 fluoroethane);
(m) HCFC 142b (1 chloro 1,1 difluoroethane);
(n) 1,1,1 trichloroethane; and
(o) Carbon tetrachloride.

(7) The requirements of R307-357-4(6) shall not apply to any existing product formulation that complies with Table 1 or any

existing product formulation that is reformulated to meet the standards set in Table 1, provided the ozone-depleting compound content of the reformulated product does not increase.

(8) The requirements of R307-357-4(6) shall not apply to any ozone-depleting compounds that may be present as impurities in a consumer product in an amount equal to or less than 0.01% by weight of the product.

R307-357-5. Charcoal Lighter Material Products.

No person shall sell, supply, or offer for sale any charcoal lighter material products unless the product has been issued and conforms to the conditions in a currently effective certification issued by the CARB pursuant to the provisions of 17 CCR 94509(h) as of the effective date of R307-357. A copy of the CARB certification decision shall be submitted to the director upon request.

R307-357-6. Exemptions.

(1) R307-357 shall not apply to any consumer product manufactured for shipment and use outside of the counties specified in R307-357-2 as long as the manufacturer or distributor can demonstrate both that the consumer product is intended for shipment and use outside of the applicable counties and that the manufacturer or distributor has taken reasonable prudent precautions to assure that the consumer product is not distributed to the applicable counties.

(2) The medium volatility organic compound (MVOC) content standards specified in Table 1 for antiperspirants or deodorants shall not apply to ethanol.

(3) The VOC limits specified in Table 1 shall not apply to fragrances up to a combined level of 2% by weight contained in any consumer product and shall not apply to colorants up to a combined level of 2% by weight contained in any antiperspirant or deodorant.

(4) The requirements in Table 1 for antiperspirants or deodorants shall not apply to those VOCs that contain more than ten carbon atoms per molecule and for which the vapor pressure is unknown, or that have a vapor pressure of two mm Hg or less at 20 degrees Celsius.

(5) The VOC limits specified in Table 1 shall not apply to any LVP-VOC.

(6) The requirements of R307-357-10 shall not apply to consumer products registered under the Federal Insecticide, Fungicide, and Rodenticide Act, (FIFRA; 7 U.S.C. Section 136/136y).

(7) The VOC limits specified in Table 1 shall not apply to air fresheners that are comprised entirely of fragrance, less compounds, not defined as VOCs or exempted under R307-357-6.

(8) The VOC limits specified in Table 1 shall not apply to air fresheners and insecticides containing at least 98% paradichlorobenzene.

(9) The VOC limits specified in Table 1 shall not apply to

adhesives in containers of one fluid ounce or less.

(10) The VOC limits specified in Table 1 shall not apply to bait station insecticides.

R307-357-7. Innovative Products.

(1) Consumer products that have been granted an innovative products exemption by the CARB under provisions of 17 CCR 94511 as of the effective date of R307-357, shall be exempt from the VOC content limits in listed in Table 1 for the period of time that the innovative product exemption remains in effect.

(2) Any manufacturer claiming such an exemption shall submit to the director upon request, a copy of the CARB exemption decision, including all conditions established by CARB applicable to the exemption before the date that the product is first marketed in the applicable counties.

R307-357-8. Alternate Control Plan (ACP).

(1) Any manufacturer of consumer products who has been granted an ACP agreement by the CARB under provisions of 17 CCR 94540-94555 as of the effective date of R307-357 shall be exempt from complying with the VOC content limits established in Table 1 for the period of time that the ACP agreement remains in effect.

(2) Any manufacturer claiming an ACP agreement shall submit upon request to the director a copy of the ACP decision, including all conditions applicable to the exemption before the date that the product is first marketed in the applicable counties.

R307-357-9. Variances.

(1) Consumer products that have been granted a variance by the CARB under the provisions of 17 CCR 94514 as of the effective date of this rule shall be exempt from complying with the VOC content limits established in Table 1 for the period of time that the variance remains in effect.

(2) Any person claiming a variance shall submit a copy of the variance decision to the director upon request, including all conditions applicable to the variance before the date that the product is first marketed in the applicable counties.

R307-357-10. Administrative Requirements.

(1) Product Dating. Each manufacturer of a consumer product subject to the standards established in Table 1 shall clearly display on each consumer product container or package, the day, month, and year on which the product was manufactured, or a code indicating such date.

(a) A manufacturer who uses the following code to indicate the date of manufacture shall not be subject to the requirements of R307-357-10(3) if the code is represented separately from other codes on the product container so that it is easily recognizable:

YY DDD = year year day day day where:

"YY" = two digits representing the year in which the product was manufactured, and

"DDD" = three digits representing the day of the year on

which the product was manufactured, with "001" representing the first day of the year, "002" representing the second day of the year, and so forth (i.e. the "Julian date").

(b) The date information shall be located on the container or inside the cover or cap so that it is readily observable or obtainable by simply removing the cap or cover without disassembling any part of the container or packaging.

(c) The date information shall be displayed on each consumer product container or package no later than twelve months prior to the effective date of the applicable standard specified in Table 1.

(d) No person shall erase, alter, deface or otherwise remove or make illegible any date from any regulated product container without the express authorization of the manufacturer.

(2) The requirements of this provision shall not apply to products containing no VOCs or to products containing VOCs at 0.10% by weight or less.

(3) If a manufacturer uses a code indicating the date of manufacture, for any consumer product subject to R307-357-4, an explanation of the date portion of the code shall be supplied to the director within 30 day of written request.

(4) Notwithstanding the definition of product category in R-307-357-3, if anywhere on the container or packaging of any consumer product manufactured on or after the effective date specified in Table 1, or one year thereafter for any FIFRA-registered insecticide, or on any sticker or label affixed thereto, any representation is made that the product may be used as, or is suitable for use as, a consumer product for which a lower VOC limit is specified in R307-357-4, then the lowest VOC limit shall apply. This requirement does not apply to general purpose cleaners, antiperspirant/deodorant products or insecticide foggers.

(5) Notwithstanding the provisions of R307-357-10(4), a product that makes ancillary disinfecting, sanitizing, or antimicrobial claims on the label is not subject to the VOC standards for disinfectant or sanitizer if the product is designed and labeled on the principal display panel as a bathroom and tile cleaner, carpet/upholstery cleaner, fabric refresher, general purpose cleaner, glass cleaner, metal polish or cleanser.

R307-357-11. Reporting Requirements.

(1) Upon 90 days written notice, the director may require any responsible party to report information for any consumer product or products the director may specify including, but not limited to, all or part of the following information:

(a) The name of the responsible party and the party's address, telephone number, and designated contact person;

(b) The product brand name for each consumer product subject to registration and the product label;

(c) The product category to which the consumer product belongs;

(d) The applicable product forms listed separately;

(e) An identification of each product brand name and form as a "household product," "I and I Product," or both;

(f) Separate sales applicable counties in pounds per year, to the nearest pound, and the method used to calculate the sales for each product form;

(g) For registrations submitted by two companies, an identification of the company that is submitting relevant data separate from that submitted by the responsible party;

(h) For each product brand name and form, the net percent by weight of the total product, less container and packaging, comprised of the following, rounded to the nearest one tenth of a percent:

(i) Total non-VOC compounds.

(ii) Total LVP-VOCs that are not fragrances.

(iii) Total all other carbon containing compounds that are not fragrances.

(iv) Total all non-carbon containing compounds.

(v) Total fragrance.

(vi) For products containing greater than two% by weight fragrance:

(A) The percent of fragrance that are LVP-VOCs; and

(B) The percent of fragrance that are all other carbon containing compounds.

(vii) Total paradichlorobenzene.

(i) For each product brand name and form, the identity, including the specific chemical name and associated chemical abstract services (CAVES) number, of the following:

(i) Each non-VOC Compound; and

(ii) Each LVP-VOC that is not a fragrance.

(j) If applicable, the weight percent comprised of propellant for each product;

(k) If applicable, an identification of the type of propellant (Type A, Type B, Type C, or a blend of the different types).

(2) In addition to the requirements of section R307-357-11(1), the responsible party shall report or shall arrange to have reported to the director the net percent by weight of each ozone-depleting compound which is:

(a) Listed in R307-357-4(6); and

(b) Contained in a product subject to registration under R307-357-11(1) in any amount greater than 0.1 percent by weight.

(3) For the purpose of R307-357-11 "product form" means the applicable form which most accurately describes the product's dispensing form as follows:

A = Aerosol Product
S = Solid
P = Pump Spray
L = Liquid
SS = Semisolid
O = Other

R307-357-12. Special Reporting Requirements for Consumer Products

that Contain Perchloroethylene or Methylene Chloride.

(1) The requirements of R307-357-12 shall apply to all responsible parties for consumer products that are subject to the standards established in Table 1 and contain perchloroethylene or methylene chloride.

(a) For the purposes of this subsection, a product contains perchloroethylene or methylene chloride if the product contains 1.0% or more by weight (exclusive of the container or packaging) of either perchloroethylene or methylene chloride.

(2) For each consumer product that contains perchloroethylene or methylene chloride, upon request from the director, the responsible party shall report the following information for products sold in the applicable counties within 90 days written notice:

(a) The product brand name and a copy of the product label with legible usage instructions;

(b) The product category to which the consumer product belongs;

(c) The applicable product forms (listed separately);

(d) For each product form listed in R307-357-12(2)(c), the total sales in the applicable counties during the calendar year, to the nearest pound (exclusive of the container or packaging), and the method used for calculating the sales; and

(e) The weight percent, to the nearest 0.10 percent, of perchloroethylene and methylene chloride in the consumer product.

R307-357-13. Test Methods.

Testing to determine compliance with the requirements of this regulation shall be performed using the CARB Method 310, Determination of Volatile Organic Compounds in Consumer Products, which is herein incorporated by reference.

R307-357-14. VOC Content Determinations Using Product Formulation and Records.

(1) Testing to determine compliance with the requirements of R307-357 may also be demonstrated through calculation of the VOC content from records of the amounts of constituents used to make the product pursuant to the following criteria:

(a) Compliance determinations based on these records may not be used unless the manufacturer of a consumer product keeps accurate records for each day of production of the amount and chemical composition of the individual product constituents, and these records must be kept for at least three years.

(b) For the purposes of R307-357-13, the VOC content shall be calculated according to the following equation:

VOC Content = ((B-C)/A) x 100

where, A = total net weight of unit (excluding container and packaging)

B = total weight of all VOCs, as defined in Table 1, per unit

C = total weight of VOCs exempted under R307-357-6, per unit

(c) If product records appear to demonstrate compliance with the VOC limits, but these records are contradicted by product

testing performed using CARB Method 310, the results of CARB Method 310 shall take precedence over the product records and may be used to establish a violation of the requirements of this regulation.

R307-357-15. Determination of Liquid or Solid.

Testing to determine whether a product is a liquid or solid shall be performed using ASTM D4359- 90 (2012).

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R307. Environmental Quality, Air Quality.
R307-361. Architectural Coatings.
R307-361-1. Purpose.

(1) The purpose of R307-361 is to limit volatile organic compounds (VOC) emissions from architectural coatings.

(2) This rule specifies architectural coatings storage, cleanup, and labeling requirements.

R307-361-2. Applicability.

R307-361 applies to any person who supplies, sells, offers for sale, applies, or solicits the application of any architectural coating, or who manufactures, blends or repackages any architectural coating for use within Box Elder, Cache, Davis, Salt Lake, Tooele, Utah, and Weber counties.

R307-361-3. Definitions.

The following additional definitions apply only to R307-361.

"Adhesive" means any chemical substance that is applied for the purpose of bonding two surfaces together other than by mechanical means.

"Aerosol coating product" means a pressurized coating product containing pigments or resins that dispenses product ingredients by means of a propellant, and is packaged in a disposable can for hand-held application or for use in specialized equipment for ground traffic/marking applications.

"Aluminum roof coating" means a coating labeled and formulated exclusively for application to roofs and containing at least 84 grams of elemental aluminum pigment per liter of coating (at least 0.7 pounds per gallon).

"Appurtenance" means any accessory to a stationary structure coated at the site of installation, whether installed or detached, including, but not limited to, bathroom and kitchen fixtures; cabinets; concrete forms; doors; elevators; fences; hand railings; heating equipment, air conditioning equipment, and other fixed mechanical equipment or stationary tools; lampposts; partitions; pipes and piping systems; rain gutters and downspouts; stairways, fixed ladders, catwalks, and fire escapes; and window screens.

"Architectural coating" means a coating to be applied to stationary structures or their appurtenances at the site of installation, to portable buildings at the site of installation, to pavements, or to curbs.

(1) Coatings applied in shop applications or to non-stationary structures such as airplanes, ships, boats, railcars, and automobiles, and adhesives are not considered architectural coatings for the purposes of this rule.

"Basement specialty coating" means a clear or opaque coating that is labeled and formulated for application to concrete and masonary surfaces to provide a hydrostatic seal for basements and other below-grade surfaces, meeting the following criteria:

(1) Coating must be capable of withstanding at least 10 psi of hydrostatic pressure, as determined in accordance with ASTM D7088-04 and;

(2) Coating must be resistant to mold and mildew growth and must achieve a microbial growth rating of 8 or more, as determined in accordance with ASTM D3273-00 and ASTM D3274-95.

"Bitumens" means black or brown materials including, but not limited to, asphalt, tar, pitch, and asphaltite that are soluble in carbon disulfide, consist mainly of hydrocarbons, and are obtained from natural deposits or as residues from the distillation of crude petroleum or coal.

"Bituminous roof coating" means a coating that incorporates bitumens and that is labeled and formulated exclusively for roofing for the primary purpose of preventing water penetration.

"Bituminous roof primer" means a primer that incorporates bitumens and that is labeled and formulated exclusively for roofing and intended for the purpose of preparing a weathered or aged surface or improving adhesion of subsequent surface components.

"Bond breaker" means a coating labeled and formulated for application between layers of concrete to prevent a freshly poured top layer of concrete from bonding to the layer over which it is poured.

"Calcimine recoaters" means a flat solvent borne coating formulated and recommended specifically for coating calcimine-painted ceilings and other calcimine-painted substrates.

"Coating" means a material applied onto or impregnated into a substrate for protective, decorative, or functional purposes, and such materials include, but are not limited to, paints, varnishes, sealers, and stains.

"Colorant" means a concentrated pigment dispersion in water, solvent, or binder that is added to an architectural coating after packaging in sale units to produce the desired color.

"Concrete curing compound" means a coating labeled and formulated for application to freshly poured concrete to retard the evaporation of water and or harden or dustproof the surface of freshly poured concrete.

"Concrete/masonry sealer" means a clear or opaque coating that is labeled and formulated primarily for application to concrete and masonry surfaces to prevent penetration of water,

provide resistance against abrasion, alkalis, acids, mildew, staining, or ultraviolet light, or harden or dustproof the surface of aged or cured concrete.

"Concrete surface retarder" means a mixture of retarding ingredients such as extender pigments, primary pigments, resin, and solvent that interact chemically with the cement to prevent hardening on the surface where the retarder is applied allowing the retarded mix of cement and sand at the surface to be washed away to create an exposed aggregate finish.

"Conjugated oil varnish" means a clear or semi-transparent wood coating, labeled as such, excluding lacquers or shellacs, based on a natural occurring conjugated vegetable oil (tung oil) and modified with other natural or synthetic resins; a minimum of 50% of the resin solids consisting of conjugated oil.

"Conversion varnish" means a clear acid coating with an alkyd or other resin blended with amino resins and supplied as a single component or two-component product.

"Department of Defense military technical data" means a specification that specifies design requirements, such as materials to be used, how a requirement is to be achieved, or how an item is to be fabricated or constructed.

"Driveway sealer" means a coating labeled and formulated for application to worn asphalt driveway surfaces to fill cracks, seal the surface to provide protection, or to restore or preserve the appearance.

"Dry fog coating" means a coating labeled and formulated only for spray application such that overspray droplets dry before subsequent contact with incidental surfaces in the vicinity of the surface coating activity.

"Faux finishing coating" means a coating labeled and formulated to meet one or more of the following criteria:

(1) A glaze or textured coating used to create artistic effects, including, but not limited to, dirt, suede, old age, smoke damage, and simulated marble and wood grain;

(2) A decorative coating used to create a metallic, iridescent, or pearlescent appearance and that contains at least 48 grams of pearlescent mica pigment or other iridescent pigment per liter of coating as applied (at least 0.4 pounds per gallon); or

(3) A decorative coating used to create a metallic appearance and that contains less than 48 grams of elemental metallic pigment per liter of coating as applied (less than 0.4 pounds per gallon); or

(4) A decorative coating used to create a metallic appearance and that contains greater than 48 grams of elemental metallic pigment per liter of coating as applied (greater than 0.4 pounds per gallon) and which requires a clear topcoat to prevent the degradation of the finish under normal use conditions; or

(5) A clear topcoat to seal and protect a faux finishing coating that meets the requirements of (1) through (4) of this definition, and these clear topcoats shall be sold and used solely as part of a faux finishing coating system.

"Fire-resistive coating" means a coating labeled and formulated to protect structural integrity by increasing the fire endurance of interior or exterior steel and other structural materials. The Fire-Resistive coating category includes sprayed fire resistive materials and intumescent fire resistive coatings that are used to bring structural materials into compliance with federal, state, and local building code requirements. The fire-resistant coatings shall be tested in accordance with ASTM E119-08.

"Flat coating" means a coating that is not defined under any other definition in this rule and that registers gloss less than 15 on an 85 degree meter or less than 5 on a 60 degree meter according to ASTM D523-89 (1999).

"Floor coating" means an opaque coating that is labeled and formulated for application to flooring, including, but not limited to, decks, porches, steps, garage floors, and other horizontal surfaces that may be subject to foot traffic.

"Form-release compound" means a coating labeled and formulated for application to a concrete form to prevent the freshly poured concrete from bonding to the form which may consist of wood, metal, or some material other than concrete.

"Graphic arts coating or sign paint" means a coating labeled and formulated for hand-application by artists using brush, airbrush, or roller techniques to indoor and outdoor signs, excluding structural components, and murals including lettering enamels, poster colors, copy blockers, and bulletin enamels.

"High-temperature coating" means a high performance coating labeled and formulated for application to substrates exposed continuously or intermittently to temperatures above 204 degrees Celsius (400 degrees Fahrenheit).

"Impacted immersion coating" means a high performance maintenance coating formulated and recommended for application to steel structures subject to immersion in turbulent, debris-laden water. These coatings are specifically resistant to high-energy impact damage by floating ice or debris.

"Industrial maintenance coating" means a high performance architectural coating, including primers, sealers, undercoaters, intermediate coats, and topcoats, formulated for application to substrates, including floors exposed to one or more of the following extreme environmental conditions:

(1) Immersion in water, wastewater, or chemical solutions (aqueous and non-aqueous solutions), or chronic exposure of interior surfaces to moisture condensation;

(2) Acute or chronic exposure to corrosive, caustic or acidic agents, or to chemicals, chemical fumes, or chemical mixtures or solutions;

(3) Frequent exposure to temperatures above 121 degrees Celsius (250 degrees Fahrenheit);

(4) Frequent heavy abrasion, including mechanical wear and frequent scrubbing with industrial solvents, cleansers, or scouring agents; or

(5) Exterior exposure of metal structures and structural

components.

"Low solids coating" means a coating containing 0.12 kilogram or less of solids per liter (1 pound or less of solids per gallon) of coating material as recommended for application by the manufacturer.

"Magnesite cement coating" means a coating labeled and formulated for application to magnesite cement decking to protect the magnesite cement substrate from erosion by water.

"Manufacturer's maximum thinning recommendation" means the maximum recommendation for thinning that is indicated on the label or lid of the coating container.

"Mastic texture coating" means a coating labeled and formulated to cover holes and minor cracks and to conceal surface irregularities, and is applied in a single coat of at least 10 mils (at least 0.010 inch) dry film thickness.

"Medium density fiberboard (MDF)" means a composite wood product, panel, molding, or other building material composed of cellulosic fibers, usually wood, made by dry forming and pressing of a resinated fiber mat.

"Metallic pigmented coating" means a coating that is labeled and formulated to provide a metallic appearance and must contain at least 48 grams of elemental metallic pigment (excluding zinc) per liter of coating as applied (at least 0.4 pounds per gallon), when tested in accordance with SCAQMD Method 318-95, but does not include coatings applied to roofs, or zinc-rich primers.

"Multi-color coating" means a coating that is packaged in a single container and that is labeled and formulated to exhibits more than one color when applied in a single coat.

"Non-flat coating" means a coating that is not defined under any other definition in this rule and that registers a gloss of 15 or greater on an 85-degree meter and five or greater on a 60-degree meter according to ASTM D523-89 (1999).

"Non-flat/high-gloss coating" means a non-flat coating that registers a gloss of 70 or greater on a 60-degree meter according to ASTM D523-89 (1999).

"Nuclear coating" means a protective coating formulated and recommended to seal porous surfaces such as steel or concrete that otherwise would be subject to intrusion by radioactive materials. These coatings must be resistant to long-term cumulative radiation exposure according to ASTM Method 4082-02, relatively easy to decontaminate, and resistant to various chemicals to which the coatings are likely to be exposed according to ASTM Method D 3912-95 (2010).

"Particleboard" means a composite wood product panel, molding, or other building material composed of cellulosic material, usually wood, in the form of discrete particles, as distinguished from fibers, flakes, or strands, which are pressed together with resin.

"Pearlescent" means exhibiting various colors depending on the angles of illumination and viewing, as observed in mother-of-pearl.

"Plywood" means a panel product consisting of layers of wood

veneers or composite core pressed together with resin and includes panel products made by either hot or cold pressing (with resin) veneers to a platform.

"Post-consumer coating" means a finished coatings generated by a business or consumer that have served their intended end uses, and are recovered from or otherwise diverted from the waste stream for the purpose of recycling.

"Pre-treatment wash primer" means a primer that contains a minimum of 0.5% acid, by weight, when tested in accordance with ASTM D1613-06, that is labeled and formulated for application directly to bare metal surfaces to provide corrosion resistance and to promote adhesion of subsequent topcoats.

"Primer, sealer, and undercoater" means a coating labeled and formulated to provide a firm bond between the substrate and the subsequent coatings, prevent subsequent coatings from being absorbed by the substrate, prevent harm to subsequent coatings by materials in the substrate, provide a smooth surface for the subsequent application of coatings, provide a clear finish coat to seal the substrate, or to block materials from penetrating into or leaching out of a substrate.

"Reactive penetrating sealer" means a clear or pigmented coating that is formulated for application to above-grade concrete and masonry substrates to provide protection from water and waterborne contaminants, including, but not limited to, alkalis, acids, and salts.

(1) Reactive penetrating sealers penetrate into concrete and masonry substrates and chemically react to form covalent bonds with naturally occurring minerals in the substrate.

(2) Reactive penetrating sealers line the pores of concrete and masonry substrates with a hydrophobic coating but do not form a surface film.

(3) Reactive penetrating sealers shall meet all of the following criteria:

(a) The reactive penetrating sealer must improve water repellency at least 80% after application on a concrete or masonry substrate, and this performance shall be verified on standardized test specimens in accordance with one or more of the following standards: ASTM C67-07, ASTM C97-02, or ASTM C140-06.

(b) The reactive penetrating sealer shall not reduce the water vapor transmission rate by more than 2% after application on a concrete or masonry substrate, and this performance must be verified on standardized test specimens, in accordance with ASTM E96/E96M-05.

(c) Products labeled and formulated for vehicular traffic surface chloride screening applications shall meet the performance criteria listed in the National Cooperative Highway Research Report 244 (1981).

"Reactive penetrating carbonate stone sealer" means a clear or pigmented coating that is labeled and formulated for application to above-grade carbonate stone substrates to provide protection from water and waterborne contaminants, including but not limited to, alkalis acids, and salts and that penetrates into

carbonate stone substrates and chemically reacts to form covalent bonds with naturally occurring minerals in the substrate. They must meet all of the following criteria:

(1) Improve water repellency at least 80% after application on a carbonate stone substrate. This performance shall be verified on standardized test specimens, in accordance with one or more of the following standards: ASTM C67-07, ASTM C97-02, or ASTM C140-06; and

(2) Not reduce the water vapor transmission rate by more than 10% after application on a carbonate stone substrate. This performance shall be verified on standardized test specimens in accordance with one or more of the following standards: ASTM E96/E96M-05.

"Recycled coating" means an architectural coating formulated such that it contains a minimum of 50% by volume post-consumer coating, with a maximum of 50% by volume secondary industrial materials or virgin materials.

"Residential" means areas where people reside or lodge, including, but not limited to, single and multiple family dwellings, condominiums, mobile homes, apartment complexes, motels, and hotels.

"Roof coating" means a non-bituminous coating labeled and formulated for application to roofs for the primary purpose of preventing water penetration, reflecting ultraviolet light, or reflecting solar radiation.

"Rust preventative coating" means a coating that is for metal substrates only and is formulated to prevent the corrosion of metal surfaces for direct-to-metal coating or a coating intended for application over rusty, previously coated surfaces but does not include coatings that are required to be applied as a topcoat over a primer or coatings that are intended for use on wood or any other nonmetallic surface.

"Secondary industrial materials" means products or by-products of the paint manufacturing process that are of known composition and have economic value but can no longer be used for their intended purpose.

"Semitransparent coating" means a coating that contains binders and colored pigments and is formulated to change the color of the surface but not conceal the grain pattern or texture.

"Shellac" means a clear or opaque coating formulated solely with the resinous secretions of the lac beetle (Laciffer lacca) and formulated to dry by evaporation without a chemical reaction.

"Shop application" means an application of a coating to a product or a component of a product in or on the premises of a factory or a shop as part of a manufacturing, production, or repairing process (e.g., original equipment manufacturing coatings).

"Solicit" means to require for use or to specify by written or oral contract.

"Specialty primer, sealer, and undercoater" means a coating that is formulated for application to a substrate to block water-soluble stains resulting from fire damage, smoke damage, or water

damage.

"Stain" means a semi-transparent or opaque coating labeled and formulated to change the color of a surface but not conceal the grain pattern or texture.

"Stone consolidant" means a coating that is labeled and formulated for application to stone substrates to repair historical structures that have been damaged by weathering or other decay mechanisms.

(1) Stone consolidants must penetrate into stone substrates to create bonds between particles and consolidate deteriorated material.

(2) Stone consolidants must be specified and used in accordance with ASTM E2167-01.

"Swimming pool coating" means a coating labeled and formulated to coat the interior of swimming pools and to resist swimming pool chemicals.

"Thermoplastic rubber coating and mastic" means a coating or mastic formulated and recommended for application to roofing or other structural surfaces that incorporates no less than 40% by weight of thermoplastic rubbers in the total resin solids and may also contain other ingredients, including, but not limited to, fillers, pigments, and modifying resins.

"Tint base" means an architectural coating to which colorant is added after packaging in sale units to produce a desired color.

"Traffic marking coating" means a coating labeled and formulated for marking and striping streets, highways, or other traffic surfaces, including, but not limited to, curbs, berms, driveways, parking lots, sidewalks, and airport runways.

"Tub and tile refinish coating" means a clear or opaque coating that is labeled and formulated exclusively for refinishing the surface of a bathtub, shower, sink, or countertop and that meets the following criteria:

(1) Has a scratch hardness of 3H or harder and a gouge hardness of 4H or harder, determined on bonderite 1000, in accordance with ASTM D3363-05;

(2) Has a weight loss of 20 milligrams or less after 1,000 cycles, determined with CS-17 wheels on bonderite 1000, in accordance with ASTM D4060-07;

(3) Withstands 1,000 hours or more of exposure with few or no #8 blisters, determined on unscribed bonderite in accordance with ASTM D4585-99, and ASTM D714-02e1; and

(4) Has an adhesion rating of 4B or better after 24 hours of recovery, determined on unscribed bonderite in accordance with ASTM D4585-99 and ASTM D3359-02.

"Veneer" means thin sheets of wood peeled or sliced from logs for use in the manufacture of wood products such as plywood, laminated veneer lumber, or other products.

"Virgin Materials" means materials that contain no post-consumer coatings or secondary industrial materials.

"VOC actual" means the weight of VOC per volume of coating and applies to coatings in the low solids coatings category and it is calculated with the following equation:

VOC Actual = (Ws - Ww - Wec)/(Vm)

Where, VOC actual = the grams of VOC per liter of coating (also known as "Material VOC");

Ws = weight of volatiles, in grams;

Ww = weight of water, in grams;

Wec = weight of exempt compounds, in grams; and

Vm = volume of coating, in liters

"VOC content" means the weight of VOC per volume of coating and is VOC regulatory for all coatings except those in the low solids category.

(1) For coatings in the low solids category, the VOC Content is VOC actual.

(2) If the coating is a multi-component product, the VOC content is VOC regulatory as mixed or catalyzed.

(3) If the coating contains silanes, siloxanes, or other ingredients that generate ethanol or other VOCs during the curing process, the VOC content must include the VOCs emitted during curing.

(4) VOC content must include maximum amount of thinning solvent recommended by the manufacturer.

"VOC regulatory" means the weight of VOC per volume of coating, less the volume of water and exempt compounds. It is calculated with the following equation:

VOC Regulatory = (Ws - Ww - Wec)/(Vm - Vw - Vec)

Where, VOC regulatory = grams of VOC per liter of coating, less water and exempt compounds (also known as "Coating VOC");

Ws = weight of volatiles, in grams;

Ww = weight of water, in grams;

Wec = weight of exempt compounds, in grams;

Vm = volume of coating, in liters;

Vw = volume of water, in liters; and

Vec = volume of exempt compounds, in liters

VOC regulatory must include maximum amount of thinning solvent recommended by the manufacturer.

"Waterproofing membrane" means a clear or opaque coating that is labeled and formulated for application to concrete and masonry surfaces to provide a seamless waterproofing membrane that prevents any penetration of liquid water into the substrate.

(1) Waterproofing membranes are intended for the following waterproofing applications: below-grade surfaces, between concrete slabs, inside tunnels, inside concrete planters, and under flooring materials.

(2) The waterproofing membrane category does not include topcoats that are included in the concrete/masonry sealer category (e.g., parking deck topcoats, pedestrian deck topcoats, etc.).

(3) Waterproofing Membranes shall:

(a) Be applied in a single coat of at least 25 mils (at least 0.025 inch) dry film thickness; and

(b) Meet or exceed the requirements contained in ASTM C836-06.

"Wood coatings" means coatings labeled and formulated for application to wood substrates only and include clear and

semitransparent coatings: lacquers; varnishes; sanding sealers; penetrating oils; clear stains; wood conditioners used as undercoats; and wood sealers used as topcoats. The Wood Coatings category also includes the following opaque wood coatings: opaque lacquers, opaque sanding sealers, and opaque lacquer undercoaters but do not include clear sealers that are labeled and formulated for use on concrete/masonry surfaces or coatings intended for substrates other than wood.

"Wood preservative" means a coating labeled and formulated to protect exposed wood from decay or insect attack that is registered with the U.S. EPA under the Federal Insecticide, Fungicide, and Rodenticide Act (7 United States Code (U.S.C.) Section 136, et seq.).

"Wood substrate" means a substrate made of wood, particleboard, plywood, medium density fiberboard, rattan, wicker, bamboo, or composite products with exposed wood grain but does not include items comprised of simulated wood.

"Zinc-rich primer" means a coating that contains at least 65% metallic zinc powder or zinc dust by weight of total solids and is formulated for application to metal substrates to provide a firm bond between the substrate and subsequent applications of coatings and are intended for professional use only.

R307-361-4. Exemptions.

The coatings described in R307-361-4(1) through (3) are exempt from the requirements of R307-361.

(1) Any architectural coating that is supplied, sold, offered for sale, or manufactured for use outside of the counties in R307-361-2 or for shipment to other manufacturers for reformulation or repackaging.

(2) Any aerosol coating product.

(3) Any architectural coating that is sold in a container with a volume of one liter (1.057 quarts) or less, including kits containing containers of different colors, types or categories of coatings and two component products and including multiple containers of one liter or less that are packaged and shipped together with no intent or requirement to ultimately be sold as one unit.

(a) The exemption in R307-361-4(3) does not include bundling of containers one liter or less, which are sold together as a unit with the intent or requirement that they be combined into one container.

(b) The exemption in R307-361-4(3) does not include packaging from which the coating cannot be applied. This exemption does include multiple containers of one liter or less that are packaged and shipped together with no intent or requirement to ultimately sell as one unit.

(4) The requirements of R307-361-5 Table 1 do not apply to operations that are exclusively covered by Department of Defense military technical data and performed by a Department of Defense contractor and or on site at installations owned and or operated by the United States Armed Forces.

R307-361-5. Standards.

(1) Except as provided in R307-361-4, no person shall manufacture, blend, or repackage, supply, sell, or offer for sale within the counties in R307-361-2; or solicit for application or apply within those counties any architectural coating with a VOC content in excess of the corresponding limit specified in Table 1.

TABLE 1

VOC Content Limit for Architectural and Industrial Maintenance Coatings

(Limits are expressed as VOC content, thinned to the manufacturer's maximum thinning recommendation, excluding any colorant added to tint bases.)

COATING CATEGORY	VOC Content Limit (grams/liter)
Flat coatings	50
Non-flat coatings	100
Non-flat/high-gloss coatings	150
Specialty Coatings	
Aluminum roofing	450
Basement Specialty Coatings	400
Bituminous Specialty Coatings	400
Bituminous roof coatings	270
Bituminous roof primers	350
Bond beakers	350
Calcimine recoaters	475
Concrete curing compounds	350
Concrete/masonary sealer	100
Concrete surface retarders	780
Conjugated oil varnish	450
Conversion varnish	725
Driveway sealers	50
Dry fog coatings	150
Faux finishing coatings	350
Fire resistive coatings	350
Floor coatings	100
Form-release compounds	250
Graphic arts coatings (sign paints)	500
High temperature coatings	420
Impacted Immersion Coatings	780
Industrial maintenance coatings	250
Low solids coatings	120
Magnesite cement coatings	450
Mastic texture coatings	100
Metallic pigmented coatings	500
Multi-color coatings	250
Nuclear coatings	450

Pre-treatment wash primers	420
Primers, sealers, and undercoaters	100
Reactive penetrating sealer	350
Reactive penetrating carbonate stone sealer	500
Recycled coatings	250
Roof coatings	250
Rust preventative coatings	250
Shellacs:	
Clear	730
Opaque	550
Specialty primers, sealers, and undercoaters	100
Stains	250
Stone consolidant	450
Swimming pool coatings	340
Thermoplastic rubber coatings and mastic	550
Traffic marking coatings	100
Tub and tile refinish	420
Waterproofing membranes	250
Wood coating	275
Wood Preservatives	350
Zinc-Rich Primer	340

(2) If a coating is recommended for use in more than one of the specialty coating categories listed in Table 1, the most restrictive (lowest) VOC content limit shall apply.

(a) This requirement applies to usage recommendations that appear anywhere on the coating container, anywhere on any label or sticker affixed to the container, or in any sales, advertising, or technical literature supplied by a manufacturer or anyone acting on their behalf.

(b) R307-361-5(2) does not apply to the following coating categories:

(i) Aluminum roof coatings
(ii) Bituminous roof primers
(iv) High temperature coatings
(v) Industrial maintenance coatings
(vi) Low-solids coatings
(vii) Metallic pigmented coatings
(viii) Pretreatment wash primers
(ix) Shellacs
(x) Specialty primers, sealers and undercoaters
(xi) Wood Coatings
(xii) Wood preservatives
(xiii) Zinc-rich primers
(xiv) Calcimine recoaters
(xv) Impacted immersion coatings
(xvi) Nuclear coatings
(xvii) Thermoplastic rubber coatings and mastic

(xviii) Concrete surface retarders

(xix) Conversion varnish

(3) Sell-through of coatings. A coating manufactured prior to January 1, 2015, may be sold, supplied, or offered for sale for up to three years after January 1, 2015.

(a) A coating manufactured before January 1, 2015, may be applied at any time.

(b) R307-361-5(3) does not apply to any coating that does not display the date or date code required by R307-361-6(1)(a).

(4) Painting practices. All architectural coating containers used when applying the contents therein to a surface directly from the container by pouring, siphoning, brushing, rolling, padding, ragging or other means, shall be closed when not in use. These architectural coating containers include, but are not limited to, drums, buckets, cans, pails, trays or other application containers. Containers of any VOC-containing materials used for thinning and cleanup shall also be closed when not in use.

(5) Thinning. No person who applies or solicits the application of any architectural coating shall apply a coating that is thinned to exceed the applicable VOC limit specified in Table 1.

(6) Rust preventative coatings. No person shall apply or solicit the application of any rust preventative coating manufactured before January 1, 2015 for industrial use, unless such a rust preventative coating complies with the industrial maintenance coating VOC limit specified in Table 1.

(7) Coatings not listed in Table 1. For any coating that does not meet any of the definitions for the specialty coatings categories listed in Table 1, the VOC content limit shall be determined by classifying the coating as a flat, non-flat, or non-flat/high gloss coating, based on its gloss, as defined in R307-361-3 and the corresponding flat, non-flat, or non-flat/high gloss coating VOC limit in Table 1 shall apply.

R307-361-6. Container Labeling Requirements.

(1) Each manufacturer of any architectural coating subject to R307-361 shall display the information listed in R307-361-6(1)(a) through (c) on the coating container (or label) in which the coating is sold or distributed.

(a) Date Code.

(i) The date the coating was manufactured, or a date code representing the date, shall be indicated on the label, lid or bottom of the container.

(ii) If the manufacturer uses a date code for any coating, the manufacturer shall file an explanation of each code with the director upon request.

(b) Thinning Recommendations.

(i) A statement of the manufacturer's recommendation regarding thinning of the coating shall be indicated on the label or lid of the container.

(ii) This requirement does not apply to the thinning of

architectural coatings with water.

(iii) If thinning of the coating prior to use is not necessary, the recommendation shall specify that the coating is to be applied without thinning.

(c) VOC Content.

(i) Each container of any coating subject to this rule shall display one of the following values, in grams of VOC per liter of coating:

(A) Maximum VOC content as determined from all potential product formulations;

(B) VOC content as determined from actual formulation data; or

(C) VOC content as determined using the test methods in R307-361-8.

(ii) If the manufacturer does not recommend thinning, the container shall display the VOC Content, as supplied.

(iii) If the manufacturer recommends thinning, the container shall display the VOC Content, including the maximum amount of thinning solvent recommended by the manufacturer.

(iv) If the coating is a multicomponent product, the container shall display the VOC content as mixed or catalyzed.

(v) If the coating contains silanes, siloxanes, or other ingredients that generate ethanol or other VOCs during the curing process, the VOC content shall include the VOCs emitted during curing.

(2) Faux finishing coatings. The labels of all clear topcoat faux finishing coatings shall prominently display the statement, "This product can only be sold or used as part of a faux finishing coating system."

(3) Industrial maintenance coatings. The label of all industrial maintenance coatings shall prominently display at least one of the following statements:

(a) "for industrial use only;"

(b) "for professional use only;" or

(c) "not for residential use" or "not intended for residential use."

(4) Rust preventative coatings. The labels of all rust preventative coatings shall prominently display the statement, "For metal substrates only."

(5) Non-flat/high-gloss coatings. The labels of all non-flat/high-gloss coatings shall prominently display the words "high gloss."

(6) Specialty primers, sealers and undercoaters. The labels of all specialty primers, sealers and undercoaters shall prominently display one or more of the following descriptions:

(a) "For blocking stains;"

(b) "For smoke-damaged substrates;"

(c) "For fire-damaged substrates;"

(d) "For water-damaged substrates;" or

(e) "For excessively chalky substrates."

(7) Reactive penetrating sealers. The labels of all reactive penetrating sealers shall prominently display the

statement, "Reactive penetrating sealer."

(8) Reactive penetrating carbonate stone sealers. The labels of all reactive penetrating carbonate stone sealers shall prominently display the statement, "Reactive penetrating carbonate stone sealer."

(9) Stone consolidants. The labels of all stone consolidants shall prominently display the statement, "Stone consolidant -For professional use only."

(10) Wood coatings. The labels of all wood coatings shall prominently display the statement, "For wood substrates only."

(11) Zinc rich primers. The labels of all zinc rich primers shall prominently display one or more of the following descriptions:

(a) "For professional use only;"

(b) "For industrial use only;" or

(c) "Not for residential use" or "Not intended for residential use."

R307-361-7. Reporting Requirements.

(1) Within 180 days of written request from the director, the manufacturer shall provide the director with data concerning the distribution and sales of architectural coatings, including, but not limited to:

(a) The name and mailing address of the manufacturer;

(b) The name, address and telephone number of a contact person;

(c) The name of the coating product as it appears on the label and the applicable coating category;

(d) Whether the product is marketed for interior or exterior use or both;

(e) The number of gallons sold in counties listed in R307-361-2 in containers greater than one liter (1.057 quart) and equal to or less than one liter (1.057 quart);

(f) The VOC actual content and VOC regulatory content in grams per liter;

(i) If thinning is recommended, list the VOC actual content and VOC regulatory content after maximum recommended thinning.

(ii) If containers less than one liter have a different VOC content than containers greater than one liter, list separately.

(iii) If the coating is a multi-component product, provide the VOC content as mixed or catalyzed.

(g) The names and CAS numbers of the VOC constituents in the product;

(h) The names and CAS numbers of any compounds in the product specifically exempted from the VOC definition in R307-101;

(i) Whether the product is marketed as solvent-borne, waterborne, or 100% solids;

(j) Description of resin or binder in the product;

(k) whether the coating is a single-component or multi-component product;

(l) The density of the product in pounds per gallon;

(m) The percent by weight of: solids, all volatile

materials, water, and any compounds in the product specifically exempted from the VOC definition in R307-101; and

(n) The percent by volume of: solids, water, and any compounds in the product specifically exempted from the VOC definition in R307-101.

R307-361-8. Test Methods.

(1) Determination of VOC content.

(a) For the purpose of determining compliance with the VOC content limits in Table 1, the VOC content of a coating shall be calculated by following the appropriate formula found in the definitions of VOC actual, VOC content, and VOC regulatory found in R307-361-3.

(b) The VOC content of a tint base shall be determined without colorant that is added after the tint base is manufactured.

(c) If the manufacturer does not recommend thinning, the VOC content shall be calculated for the product as supplied.

(d) If the manufacturer recommends thinning, the VOC content shall be calculated including the maximum amount of thinning solvent recommended by the manufacturer.

(e) If the coating is a multi-component product, the VOC content shall be calculated as mixed or catalyzed.

(f) The coating contains silanes, siloxanes, or other ingredients that generate ethanol or other VOC during the curing process, the VOC content shall include the VOCs emitted during curing.

(2) VOC content of coatings.

(a) To determine the VOC content of a coating, the manufacturer may use EPA Method 24, SCAQMD Method 304-91 (revised February1996), or an alternative method, formulation data, or any other reasonable means for predicting that the coating has been formulated as intended (e.g., quality assurance checks, recordkeeping).

(b) If there are any inconsistencies between the results of EPA Method 24 test and any other means for determining VOC content, the EPA Method 24 test results will govern.

(c) The exempt compounds content shall be determined by ASTM D 3960-05, SCAQMD Method 303-91 (Revised 1993), BAAQMD Method 43 (Revised 1996), or BAAQMD Method 41 (Revised 1995), as applicable.

(3) Methacrylate traffic marking coatings. Analysis of methacrylate multicomponent coatings used as traffic marking coatings shall be conducted according to a modification of EPA Method 24 (40 CFR 59, subpart D, Appendix A), which has not been approved for methacrylate multicomponent coatings used for purposes other than as traffic marking coatings or for other classes of multicomponent coatings.

(4) Flame spread index. The flame spread index of a fire-retardant coating shall be determined by ASTM E84-10, "Standard Test Method for Surface Burning Characteristics of Building Materials."

(5) Fire resistance rating. The fire resistance rating of a

fire-resistive coating shall be determined by ASTM E119-08, "Standard Test Methods for Fire Tests of Building Construction and Materials."

(6) Gloss determination. The gloss of a coating shall be determined by ASTM D523-89 (1999), "Standard Test Method for Specular Gloss."

(7) Metal content of coatings. The metallic content of a coating shall be determined by SCAQMD Method 318-95, "Determination of Weight Percent Elemental Metal in Coatings by X-Ray Diffraction, SCAQMD Laboratory Methods of Analysis for Enforcement Samples."

(8) Acid content of coatings. The acid content of a coating shall be determined by ASTM D1613-06, "Standard Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer and Related Products."

(9) Drying times. The set-to-touch, dry-hard, dry-to-touch and dry-to-recoat times of a coating shall be determined by ASTM D1640-95 (1999), "Standard Methods for Drying, Curing, or Film Formation of Organic Coatings at Room Temperature," and the tack-free time of a quick-dry enamel coating shall be determined by the Mechanical Test Method of ASTM D1640-95.

(10) Surface chalkiness. The chalkiness of a surface shall be determined by using ASTM D4214-07, "Standard Test Methods for Evaluating the Degree of Chalking of Exterior Paint Films."

(11) Exempt compounds-siloxanes. Exempt compounds that are cyclic, branched, or linear, completely methylated siloxanes, shall be analyzed as exempt compounds by methods referenced in ASTM D 3960-05, "Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings" or by BAAQMD Method 43, "Determination of Volatile Methylsiloxanes in Solvent-Based Coatings, Inks, and Related Materials," BAAQMD Manual of Procedures, Volume III, adopted November 6, 1996.

(12) Exempt compounds-parachlorobenzotrifluoride (PCBTF). The exempt compound PCBTF, shall be analyzed as an exempt compound by methods referenced in ASTM D 3960-05 "Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings" or by BAAQMD Method 41, "Determination of Volatile Organic Compounds in Solvent Based Coatings and Related Materials Containing Parachlorobenzotriflouride," BAAQMD Manual of Procedures, Volume III, adopted December 20, 1955.

(13) Tub and tile refinish coating adhesion. The adhesion of tub and tile coating shall be determined by ASTM D4585-99, "Standard Practice for Testing Water Resistance of Coatings Using Controlled Condensation" and ASTM D3359-02, "Standard Test Methods for Measuring Adhesion by Tape Test."

(14) Tub and tile refinish coating hardness. The hardness of tub and tile refinish coating shall be determined by ASTM D3363-05, "Standard Test Method for Film Hardness by Pencil Test."

(15) Tub and tile refinish coating abrasion resistance. Abrasion resistance of tub and tile refinish coating shall be analyzed by ASTM D4060-07, "Standard Test Methods for Abrasion Resistance of Organic Coatings by the Taber Abraser."

(16) Tub and tile refinish coating water resistance. Water resistance of tub and tile refinish coatings shall be determined by ASTM D4585-99, "Standard Practice for Testing Water Resistance of Coatings Using Controlled Condensation" and ASTM D714-02e1, "Standard Test Method for Evaluating Degree of Blistering of Paints."

(17) Waterproofing membrane. Waterproofing membrane shall be tested by ASTM C836-06, "Standard Specification for High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course."

(18) Reactive penetrating sealer and reactive carbonate stone sealer water repellency. Reactive penetrating sealer and reactive carbonate stone sealer water repellency shall be analyzed by ASTM C67-07, "Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile;" ASTM C97-02, "Standard Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone;" or ASTM C140-06, "Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units."

(19) Reactive penetrating sealer and reactive penetrating carbonate stone sealer water vapor transmission. Reactive penetrating sealer and reactive penetrating carbonate stone sealer water vapor transmission shall be analyzed ASTM E96/E96M-05, "Standard Test Method for Water Vapor Transmission of Materials."

(20) Reactive penetrating sealer -chloride screening applications. Reactive penetrating sealers shall be analyzed by National Cooperative Highway Research Report 244 (1981), "Concrete Sealers for the Protection of Bridge Structures."

(21) Stone consolidants. Stone consolidants shall be tested by using ASTM E2167-01, "Standard Guide for Selection and Use of Stone Consolidants."

(22) Radiation resistance -nuclear coatings. The radiation resistance of a nuclear coating shall be determined by ASTM D 4082-02, "Standard Test Method for Use in Light Water Nuclear Power Plants."

(23) Chemical resistance-nuclear coatings. The chemical resistance of nuclear coatings shall be determined by ASTM D3912-95 (2001), "Standard Test Method for Chemical Resistance of Coatings Used in Light Water Nuclear Power Plants."

R307-361-9. Compliance Schedule.

Persons subject to this rule shall be in compliance by January 1, 2015.

KEY: air pollution, emission controls, architectural coatings
Date of Enactment or Last Substantive Amendment: October 31, 2013
Authorizing, and Implemented or Interpreted Law: 19-2-104(1); 19-2-101

R307. Environmental Quality, Air Quality.
R307-401. Permit: New and Modified Sources.
R307-401-1. Purpose.

This rule establishes the application and permitting requirements for new installations and modifications to existing installations throughout the State of Utah. Additional permitting requirements apply to larger installations or installations located in nonattainment or maintenance areas. These additional requirements can be found in R307-403, R307-405, R307-406, R307-420, and R307-421. Modeling requirements in R307-410 may also apply. Each of the permitting rules establishes independent requirements, and the owner or operator must comply with all of the requirements that apply to the installation. Exemptions under R307-401 do not affect applicability of the other permitting rules.

R307-401-2. Definitions.

(1) The following additional definitions apply to R307-401.

"Actual emissions" (a) means the actual rate of emissions of an air pollutant from an emissions unit, as determined in accordance with paragraphs (b) through (d) below.

(b) In general, actual emissions as of a particular date shall equal the average rate, in tons per year, at which the unit actually emitted the air pollutant during a consecutive 24-month period which precedes the particular date and which is representative of normal source operation. The director shall allow the use of a different time period upon a determination that it is more representative of normal source operation. Actual emissions shall be calculated using the unit's actual operating hours, production rates, and types of materials processed, stored, or combusted during the selected time period.

(c) The director may presume that source-specific allowable emissions for the unit are equivalent to the actual emissions of the unit.

(d) For any emissions unit that has not begun normal operations on the particular date, actual emissions shall equal the potential to emit of the unit on that date.

"Best available control technology" means an emissions limitation (including a visible emissions standard) based on the maximum degree of reduction for each air pollutant which would be emitted from any proposed stationary source or modification which the director, on a case-by-case basis, taking into account energy, environmental, and economic impacts and other costs, determines is achievable for such source or modification through application of production processes or available methods, systems, and techniques, including fuel cleaning or treatment or innovative fuel combustion techniques for control of such pollutant. In no event shall application of best available control technology result in emissions of any pollutant which would exceed the emissions allowed by any applicable standard under 40 CFR parts 60 and 61. If the director determines that technological or economic limitations on the application of measurement methodology to a particular emissions unit would make the imposition of an emissions standard infeasible, a design, equipment, work practice, operational standard or combination thereof, may be prescribed

instead to satisfy the requirement for the application of best available control technology. Such standard shall, to the degree possible, set forth the emissions reduction achievable by implementation of such design, equipment, work practice or operation, and shall provide for compliance by means which achieve equivalent results.

"Building, structure, facility, or installation" means all of the pollutant-emitting activities which belong to the same industrial grouping, are located on one or more contiguous or adjacent properties, and are under the control of the same person (or persons under common control) except the activities of any vessel. Pollutant-emitting activities shall be considered as part of the same industrial grouping if they belong to the same Major Group (i.e., which have the same two-digit code) as described in the Standard Industrial Classification Manual, 1972, as amended by the 1977 Supplement (U.S. Government Printing Office stock numbers 4101-0066 and 003-005-00176-0, respectively).

"Construction" means any physical change or change in the method of operation (including fabrication, erection, installation, demolition, or modification of an emissions unit) that would result in a change in emissions.

"Emissions unit" means any part of a stationary source that emits or would have the potential to emit any air pollutant.

"Fugitive emissions" means those emissions which could not reasonably pass through a stack, chimney, vent, or other functionally equivalent opening.

"Indirect source" means a building, structure, facility or installation which attracts or may attract mobile source activity that results in emission of a pollutant for which there is a national standard.

"Potential to emit" means the maximum capacity of a stationary source to emit an air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the source to emit a pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation or the effect it would have on emissions is enforceable. Secondary emissions do not count in determining the potential to emit of a stationary source.

"Secondary emissions" means emissions which occur as a result of the construction or operation of a major stationary source or major modification, but do not come from the major stationary source or major modification itself. Secondary emissions include emissions from any offsite support facility which would not be constructed or increase its emissions except as a result of the construction or operation of the major stationary source or major modification. Secondary emissions do not include any emissions which come directly from a mobile source, such as emissions from the tailpipe of a motor vehicle, from a train, or from a vessel.

"Stationary source" means any building, structure, facility, or installation which emits or may emit an air pollutant.

R307-401-3. Applicability.

(1) R307-401 applies to any person intending to:

(a) construct a new installation which will or might reasonably be expected to become a source or an indirect source of air pollution, or

(b) make modifications or relocate an existing installation which will or might reasonably be expected to increase the amount or change the effect of, or the character of, air pollutants discharged, so that such installation may be expected to become a source or indirect source of air pollution, or

(c) install a control apparatus or other equipment intended to control emissions of air pollutants.

(2) R307-403, R307-405 and R307-406 may establish additional permitting requirements for new or modified sources.

(a) Exemptions contained in R307-401 do not affect applicability or other requirements under R307-403, R307-405 or R307-406.

(b) Exemptions contained in R307-403, R307-405 or R307-406 do not affect applicability or other requirements under R307-401, unless specifically authorized in this rule.

R307-401-4. General Requirements.

The general requirements in (1) through (3) below apply to all new and modified installations, including installations that are exempt from the requirement to obtain an approval order.

(1) Any control apparatus installed on an installation shall be adequately and properly maintained.

(2) If the director determines that an exempted installation is not meeting an approval order or State Implementation Plan limitation, is creating an adverse impact to the environment, or would be injurious to human health or welfare, then the director may require the owner or operator to submit a notice of intent and obtain an approval order in accordance with R307-401-5 through R307-401-8. The director will complete an appropriate analysis and evaluation in consultation with the owner or operator before determining that an approval order is required.

(3) Low Oxides of Nitrogen Burner Technology.

(a) Except as provided in (b) below, whenever existing fuel combustion burners are replaced, the owner or operator shall install low oxides of nitrogen burners or equivalent oxides of nitrogen controls, as determined by the director, unless such equipment is not physically practical or cost effective. The owner or operator shall submit a demonstration that the equipment is not physically practical or cost effective to the director for review and approval prior to beginning construction.

(b) The provisions of (a) above do not apply to non-commercial, residential buildings.

R307-401-5. Notice of Intent.

(1) Except as provided in R307-401-9 through R307-401-17, any person subject to R307-401 shall submit a notice of intent to

the director and receive an approval order prior to initiation of construction, modification or relocation. The notice of intent shall be in a format specified by the director.

(2) The notice of intent shall include the following information:

(a) A description of the nature of the processes involved; the nature, procedures for handling and quantities of raw materials; the type and quantity of fuels employed; and the nature and quantity of finished product.

(b) Expected composition and physical characteristics of effluent stream both before and after treatment by any control apparatus, including emission rates, volume, temperature, air pollutant types, and concentration of air pollutants.

(c) Size, type and performance characteristics of any control apparatus.

(d) An analysis of best available control technology for the proposed source or modification. When determining best available control technology for a new or modified source in an ozone nonattainment or maintenance area that will emit volatile organic compounds or nitrogen oxides, the owner or operator of the source shall consider EPA Control Technique Guidance (CTG) documents and Alternative Control Technique documents that are applicable to the source. Best available control technology shall be at least as stringent as any published CTG that is applicable to the source.

(e) Location and elevation of the emission point and other factors relating to dispersion and diffusion of the air pollutant in relation to nearby structures and window openings, and other information necessary to appraise the possible effects of the effluent.

(f) The location of planned sampling points and the tests of the completed installation to be made by the owner or operator when necessary to ascertain compliance.

(g) The typical operating schedule.

(h) A schedule for construction.

(i) Any plans, specifications and related information that are in final form at the time of submission of notice of intent.

(j) Any additional information required by:

(i) R307-403, Permits: New and Modified Sources in Nonattainment Areas and Maintenance Areas;

(ii) R307-405, Permits: Major Sources in Attainment or Unclassified Areas (PSD);

(iii) R307-406, Visibility;

(iv) R307-410, Emissions Impact Analysis;

(v) R307-420, Permits: Ozone Offset Requirements in Davis and Salt Lake Counties; or

(vi) R307-421, Permits: PM10 Offset Requirements in Salt Lake County and Utah County.

(k) Any other information necessary to determine if the proposed source or modification will be in compliance with Title R307.

(3) Notwithstanding the exemption in R307-401-9 through 16, any person that is subject to R307-403, R307-405, or R307-406

shall submit a notice of intent to the director and receive an approval order prior to intiation of construction, modification, or relocation.

R307-401-6. Review Period.

(1) Completeness Determination. Within 30 days after receipt of a notice of intent, or any additional information necessary to the review, the director will advise the applicant of any deficiency in the notice of intent or the information submitted.

(2) Within 90 days of receipt of a complete application including all the information described in R307- 401-5, the director will

(a) issue an approval order for the proposed construction, installation, modification, relocation, or establishment pursuant to the requirements of R307-401-8, or

(b) issue an order prohibiting the proposed construction, installation, modification, relocation or establishment if it is deemed that any part of the proposal is inadequate to meet the applicable requirements of R307.

(3) The review period under (2) above may be extended by up to three 30-day extensions if more time is needed to review the proposal.

R307-401-7. Public Notice.

(1) Issuing the Notice. Prior to issuing an approval or disapproval order, the director will advertise intent to approve or disapprove in a newspaper of general circulation in the locality of the proposed construction, installation, modification, relocation or establishment.

(2) Opportunity for Review and Comment.

(a) At least one location will be provided where the information submitted by the owner or operator, the director's analysis of the notice of intent proposal, and the proposed approval order conditions will be available for public inspection.

(b) Public Comment.

(i) A 30-day public comment period will be established.

(ii) A request to extend the length of the comment period, up to 30 days, may be submitted to the director within 15 days of the date the notice in R307-401-7(1) is published.

(iii) Public Hearing. A request for a hearing on the proposed approval or disapproval order may be submitted to the director within 15 days of the date the notice in R307-401-7(1) is published.

(iv) The hearing will be held in the area of the proposed construction, installation, modification, relocation or establishment.

(v) The public comment and hearing procedure shall not be required when an order is issued for the purpose of extending the time required by the director to review plans and specifications.

(3) The director will consider all comments received during the public comment period and at the public hearing and, if

appropriate, will make changes to the proposal in response to comments before issuing an approval order or disapproval order.

R307-401-8. Approval Order.

(1) The director will issue an approval order if the following conditions have been met:

(a) The degree of pollution control for emissions, to include fugitive emissions and fugitive dust, is at least best available control technology. When determining best available control technology for a new or modified source in an ozone nonattainment or maintenance area that will emit volatile organic compounds or nitrogen oxides, best available control technology shall be at least as stringent as any Control Technique Guidance document that has been published by EPA that is applicable to the source.

(b) The proposed installation will meet the applicable requirements of:

(i) R307-403, Permits: New and Modified Sources in Nonattainment Areas and Maintenance Areas;

(ii) R307-405, Permits: Major Sources in Attainment or Unclassified Areas (PSD);

(iii) R307-406, Visibility;

(iv) R307-410, Emissions Impact Analysis;

(v) R307-420, Permits: Ozone Offset Requirements in Davis and Salt Lake Counties;

(vi) R307-210, National Standards of Performance for New Stationary Sources;

(vii) National Primary and Secondary Ambient Air Quality Standards;

(viii) R307-214, National Emission Standards for Hazardous Air Pollutants;

(ix) R307-110, Utah State Implementation Plan; and

(x) all other provisions of R307.

(2) The approval order will require that all pollution control equipment be adequately and properly maintained.

(3) Receipt of an approval order does not relieve any owner or operator of the responsibility to comply with the provisions of R307 or the State Implementation Plan.

(4) To accommodate staged construction of a large source, the director may issue an order authorizing construction of an initial stage prior to receipt of detailed plans for the entire proposal provided that, through a review of general plans, engineering reports and other information the proposal is determined feasible by the director under the intent of R307. Subsequent detailed plans will then be processed as prescribed in this paragraph. For staged construction projects the previous determination under R307-401-8(1) and (2) will be reviewed and modified as appropriate at the earliest reasonable time prior to commencement of construction of each independent phase of the proposed source or modification.

(5) If the director determines that a proposed stationary source, modification or relocation does not meet the conditions

established in (1) above, the director will not issue an approval order.

R307-401-9. Small Source Exemption.

(1) A small stationary source is exempted from the requirement to obtain an approval order in R307-401-5 through 8 if the following conditions are met.

(a) its actual emissions are less than 5 tons per year per air pollutant of any of the following air pollutants: sulfur dioxide, carbon monoxide, nitrogen oxides, PM_{10}, ozone, or volatile organic compounds;

(b) its actual emissions are less than 500 pounds per year of any hazardous air pollutant and less than 2000 pounds per year of any combination of hazardous air pollutants;

(c) its actual emissions are less than 500 pounds per year of any air pollutant not listed in (a)(or (b) above and less than 2000 pounds per year of any combination of air pollutants not listed in (a) or (b) above.

(d) Air pollutants that are drawn from the environment through equipment in intake air and then are released back to the environment without chemical change, as well as carbon dioxide, nitrogen, oxygen, argon, neon, helium, krypton, xenon should not be included in emission calculations when determining applicability under (a) through (c) above.

(2) The owner or operator of a source that is exempted from the requirement to obtain an approval order under (1) above shall no longer be exempt if actual emissions in any subsequent year exceed the emission thresholds in (1) above. The owner or operator shall submit a notice of intent under R307-401-5 no later than 180 days after the end of the calendar year in which the source exceeded the emission threshold.

(3) Small Source Exemption - Registration. The director will maintain a registry of sources that are claiming an exemption under R307-401-9. The owner or operator of a stationary source that is claiming an exemption under R307-401-9 may submit a written registration notice to the director. The notice shall include the following minimum information:

(a) identifying information, including company name and address, location of source, telephone number, and name of plant site manager or point of contact;

(b) a description of the nature of the processes involved, equipment, anticipated quantities of materials used, the type and quantity of fuel employed and nature and quantity of the finished product;

(c) identification of expected emissions;

(d) estimated annual emission rates;

(e) any control apparatus used; and

(f) typical operating schedule.

(4) An exemption under R307-401-9 does not affect the requirements of R307-401-17, Temporary Relocation.

(5) A stationary source that is not required to obtain a permit under R307-405 for greenhouse gases, as defined in R307-

405-3(9)(a), is not required to obtain an approval order for greenhouse gases under R307-401. This exemption does not affect the requirement to obtain an approval order for any other air pollutant emitted by the stationary source.

R307-401-10. Source Category Exemptions.

The following source categories described in (1) through (4) below are exempted from the requirement to obtain an approval order. The general provisions in R307-401-4 shall apply to these sources.

(1) Fuel-burning equipment in which combustion takes place at no greater pressure than one inch of mercury above ambient pressure with a rated capacity of less than five million BTU per hour using no other fuel than natural gas or LPG or other mixed gas that meets the standards of gas distributed by a utility in accordance with the rules of the Public Service Commission of the State of Utah, unless there are emissions other than combustion products.

(2) Comfort heating equipment such as boilers, water heaters, air heaters and steam generators with a rated capacity of less than one million BTU per hour if fueled only by fuel oil numbers 1 - 6,

(3) Emergency heating equipment, using coal or wood for fuel, with a rated capacity less than 50,000 BTU per hour.

(4) Exhaust systems for controlling steam and heat that do not contain combustion products.

R307-401-11. Replacement-in-Kind Equipment.

(1) Applicability. Existing process equipment or pollution control equipment that is covered by an existing approval order or State Implementation Plan requirement may be replaced using the procedures in (2) below if:

(a) the potential to emit of the process equipment is the same or lower;

(b) the number of emission points or emitting units is the same or lower;

(c) no additional types of air pollutants are emitted as a result of the replacement;

(d) the process equipment or pollution control equipment is identical to or functionally equivalent to the replaced equipment;

(e) the replacement does not change the basic design parameters of the process unit or pollution control equipment;

(f) the replaced process equipment or pollution control equipment is permanently removed from the stationary source, otherwise permanently disabled, or permanently barred from operation;

(g) the replacement process equipment or pollution control equipment does not trigger New Source Performance Standards or National Emissions Standards for Hazardous Air Pollutants under 42 U.S.C. 7411 or 7412; and

(h) the replacement of the control apparatus or process equipment does not violate any other provision of Title R307.

(2) Replacement-in-Kind Procedures.

(a) In lieu of filing a notice of intent under R307-401-5, the owner or operator of a stationary source shall submit a written notification to the director before replacing the equipment. The notification shall contain a description of the replacement-in-kind equipment, including the control capability of any control apparatus and a demonstration that the conditions of (1) above are met.

(b) If the replacement-in-kind meets the conditions of (1) above, the director will update the source's approval order and notify the owner or operator. Public review under R307-401-7 is not required for the update to the approval order.

(3) If the replaced process equipment or pollution control equipment is brought back into operation, it shall constitute a new emissions unit.

R307-401-12. Reduction in Air Pollutants.

(1) Applicability. The owner or operator of a stationary source of air pollutants that reduces or eliminates air pollutants is exempt from the requirement to submit a notice of intent and obtain an approval order prior to construction if:

(a) the project does not increase the potential to emit of any air pollutant or cause emissions of any new air pollutant, and

(b) the director is notified of the change and the reduction of air pollutants is made enforceable through an approval order in accordance with (2) below.

(2) Notification. The owner or operator shall submit a written description of the project to the director no later than 60 days after the changes are made. The director will update the source's approval order or issue a new approval order to include the project and to make the emission reductions enforceable. Public review under R307-401-7 is not required for the update to the approval order.

R307-401-13. Plantwide Applicability Limits.

A plantwide applicability limit under R307-405-21 does not exempt a stationary source from the requirements of R307-401.

R307-401-14. Used Oil Fuel Burned for Energy Recovery.

(1) Definitions.

"Boiler" means boiler as defined in R315-1-1(b).

"Used Oil" is defined as any oil that has been refined from crude oil, used, and, as a result of such use contaminated by physical or chemical impurities.

(2) Boilers burning used oil for energy recovery are exempted from the requirement to obtain an approval order in R307-401-5 through 8 if the following requirements are met:

(a) the heat input design is less than one million BTU/hr;

(b) contamination levels of all used oil to be burned do not exceed any of the following values:

(i) arsenic - 5 ppm by weight,

(ii) cadmium - 2 ppm by weight,

(iii) chromium - 10 ppm by weight,
(iv) lead - 100 ppm by weight,
(v) total halogens - 1,000 ppm by weight,
(vi) Sulfur - 0.50% by weight; and
(c) the flash point of all used oil to be burned is at least 100 degrees Fahrenheit.
(3) Testing. The owner or operator shall test each load of used oil received or generated as directed by the director to ensure it meets these requirements. Testing may be performed by the owner/operator or documented by test reports from the used fuel oil vendor. The flash point shall be measured using the appropriate ASTM method as required by the director. Records for used oil consumption and test reports are to be kept for all periods when fuel-burning equipment is in operation. The records shall be kept on site and made available to the director or the director's representative upon request. Records must be kept for a three-year period.

R307-401-15. Air Strippers and Soil Venting Projects.
(1) The owner or operator of an air stripper or soil venting system that is used to remediate contaminated groundwater or soil is exempt from the notice of intent and approval order requirements of R307-401-5 through 8 if the following conditions are met:
(a) the estimated total air emissions of volatile organic compounds from a given project are less than the de minimis emissions listed in R307-401-9(1)(a), and
(b) the level of any one hazardous air pollutant or any combination of hazardous air pollutants is below the levels listed in R307-410-5(1)(c)(i)(C).
(2) The owner or operator shall submit documentation that the project meets the exemption requirements in R307-401-15(1) to the director prior to beginning the remediation project.
(3) After beginning the soil remediation project, the owner or operator shall submit emissions information to the director to verify that the emission rates of the volatile organic compounds and hazardous air pollutants in R307-401-15(1) are not exceeded.
(a) Emissions estimates of volatile organic compounds shall be based on test data obtained in accordance with the test method in the EPA document SW-846, Test #8260c or 8261a, or the most recent EPA revision of either test method if approved by the director.
(b) Emissions estimates of hazardous air pollutants shall be based on test data obtained in accordance with the test method in EPA document SW-846, Test #8021B or the most recent EPA revision of the test method if approved by the director.
(c) Results of the test and calculated annual quantity of emissions of volatile organic compounds and hazardous air pollutants shall be submitted to the director within one month of sampling.
(d) The test samples shall be drawn on intervals of no less than twenty-eight days and no more than thirty-one days (i.e.,

monthly) for the first quarter, quarterly for the first year, and semi-annually thereafter or as determined necessary by the director.

(4) The following control devices do not require a notice of intent or approval order when used in relation to an air stripper or soil venting project exempted under R307-401-15:

(a) thermodestruction unit with a rated input capacity of less than five million BTU per hour using no other auxiliary fuel than natural gas or LPG, or

(b) carbon adsorption unit.

R307-401-16. De minimis Emissions From Soil Aeration Projects.

An owner or operator of a soil remediation project is not subject to the notice of intent and approval order requirements of R307-401-5 through 8 when soil aeration or land farming is used to conduct a soil remediation, if the owner or operator submits the following information to the director prior to beginning the remediation project:

(1) documentation that the estimated total air emissions of volatile organic compounds, using an appropriate sampling method, from the project are less than the de minimis emissions listed in R307-401-9(1)(a);

(2) documentation that the levels of any one hazardous air pollutant or any combination of hazardous air pollutants are less than the levels in R307-410-5(1)(d); and

(3) the location of the remediation and where the remediated material originated.

R307-401-17. Temporary Relocation.

The owner or operator of a stationary source previously approved under R307-401 may temporarily relocate and operate the stationary source at any site for up to 180 working days in any calendar year not to exceed 365 consecutive days, starting from the initial relocation date. The director will evaluate the expected emissions impact at the site and compliance with applicable Title R307 rules as the bases for determining if approval for temporary relocation may be granted. Records of the working days at each site, consecutive days at each site, and actual production rate shall be submitted to the director at the end of each 180 calendar days. These records shall also be kept on site by the owner or operator for the entire project, and be made available for review to the director as requested. R307-401-7, Public Notice, does not apply to temporary relocations under R307-401-17.

R307-401-18. Eighteen Month Review.

Approval orders issued by the director in accordance with the provisions of R307-401 will be reviewed eighteen months after the date of issuance to determine the status of construction, installation, modification, relocation or establishment. If a continuous program of construction, installation, modification, relocation or establishment is not proceeding, the director may

revoke the approval order.

R307-401-19. General Approval Order.

(1) The director may issue a general approval order that would establish conditions for similar new or modified sources of the same type or for specific types of equipment. The general approval order may apply throughout the state or in a specific area.

(a) A major source or major modification as defined in R307-403, R307-405, or R307-420 for each respective area is not eligible for coverage under a general approval order.

(b) A source that is subject to the requirements of R307-403-5 is not eligible for coverage under a general approval order.

(c) A source that is subject to the requirements of R307-410-4 is not eligible for coverage under a general approval order unless a demonstration that meets the requirements of R307-410-4 was conducted.

(d) A source that is subject to the requirements of R307-410-5(1)(c)(ii) is not eligible for coverage under a general approval order unless a demonstration that meets the requirements of R307-410-5(1)(c)(ii) was conducted.

(e) A source that is subject to the requirements of R307-410-5(1)(c)(iii) is not eligible for coverage under a general approval order.

(2) A general approval order shall meet all applicable requirements of R307-401-8.

(3) The public notice requirements in R307-401-7 shall apply to a general approval order except that the director will advertise the notice of intent in a newspaper of statewide circulation.

(4) Application.

(a) After a general approval order has been issued, the owner or operator of a proposed new or modified source may apply to be covered under the conditions of the general approval order.

(b) The owner or operator shall submit the application on forms provided by the director in lieu of the notice of intent requirements in R307-401-5 for all equipment covered by the general approval order.

(c) The owner or operator may request that an existing, individual approval order for the source be revoked, and that it be covered by the general approval order.

(d) The owner or operator that has applied to be covered by a general approval order shall not initiate construction, modification, or relocation until the application has been approved by the director.

(5) Approval.

(a) The director will review the application and approve or deny the request based on criteria specified in the general approval order for that type of source. If approved, the director will issue an authorization to the applicant to operate under the general approval order.

(b) The public notice requirements in R307-401-7 do not

apply to the approval of an application to be covered under the general approval order.

(c) The director will maintain a record of all stationary sources that are covered by a specific general approval order and this record will be available for public review.

(6) Exclusions and Revocation.

(a) The director may require any source that has applied for or is authorized by a general approval order to submit a notice of intent and obtain an individual approval order under R307-401-8. Cases where an individual approval order will be required include, but are not limited to, the following:

(i) the director determines that the source does not meet the criteria specified in the general approval order;

(ii) the director determines that the application for the general approval order did not contain all necessary information to evaluate applicability under the general approval order;

(iii) modifications were made to the source that were not authorized by the general approval order or an individual approval order;

(iv) the director determines the source may cause a violation of a national ambient air quality standard; or

(v) the director determines that one is required based on the compliance history and current compliance status of the source or applicant.

(b)(i) Any source authorized by a general approval order may request to be excluded from the coverage of the general approval order by submitting a notice of intent under R307-401-5 and receiving an individual approval order under R307-401-8.

(ii) When the director issues an individual approval order to a source subject to a general approval order, the applicability of the general approval order to the individual source is revoked on the effective date of the individual approval order.

(7) Modification of General Approval Order. The director may modify, replace, or discontinue the general approval order.

(a) Administrative corrections may be made to the existing version of the general approval order. These corrections are to correct typographical errors or similar minor administrative changes.

(b) All other modifications or the discontinuation of a general approval order shall not apply to any source authorized under previous versions of the general approval order unless the owner or operator submits an application to be covered under the new version of the general approval order. Modifications under R307-401-19(7)(b) shall meet the public notice requirements in R307-401-19(3).

(c) A general approval order shall be reviewed at least every three year. The review of the general approval order shall follow the public notice requirements of R307-401-19(3).

(8) Modifications at a source covered by a general approval order. A source may make modifications only as authorized by the approved general approval order. Modifications outside the scope authorized by the approved general approval order shall require a

new application for either an individual approval order under R307-401-8 or a general approval order under R307-401-19.

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R307. Environmental Quality, Air Quality.
R307-403. Permits: New and Modified Sources in Nonattainment Areas and Maintenance Areas.
R307-403-1. Purpose and Definitions.

(1) Purpose. This rule implements the federal nonattainment area permitting program for major sources as required by 40 CFR 51.165. In addition, the rule contains new source review provisions for some non-major sources in PM10 nonattainment areas. This rule supplements, but does not replace, the permitting requirements of R307-401.

(2) Unless otherwise specified, all references to 40 CFR in R307-403 shall mean the version that is in effect on July 1, 2012.

(3) Except as provided in R307-403-1(4), the definitions in 40 CFR 51.165(a)(1)are hereby incorporated by reference.

(4)(a) "Reviewing authority" means the director.

(b) In the definition of "significant" in 40 CFR 51.165(a)(1)(x) add the following text at the end of the pollutant emission rate for PM2.5: "; and in the Logan, Salt Lake City, and Provo PM2.5 nonattainment areas as defined in the July 1, 2010 version of 40 CFR 81.345, 40 tpy of volatile organic compounds."

(c) In the definition of "regulated NSR pollutant" in 40 CFR 51.165(a)(1)(xxxvii) the following subparagraph is added to 51.165(a)(1)(xxvii)(4): "(i) Volatile organic compounds are precursors to PM2.5 and ammonia is not a precursor to PM2.5 in the Logan, Salt Lake City, and Provo PM2.5 nonattainment areas as defined in the July 1, 2010 version of 40 CFR 81.345."

(d) The following definitions or portions of definitions that apply to the equipment repair and replacement provisions are not incorporated because these provisions were vacated by the DC Circuit Court of Appeals on March 17, 2006:

(i) in the definition of "major modification" in 40 CFR 51.165(a)(1)(v)(C), the second sentence in subparagraph (1);

(ii) the definition of "process unit" in 40 CFR 51.165(a)(1)(xliii);

(iii) the definition of "functionally equivalent component" in 40 CFR 51.165(a)(1)(xliv);

(iv) the definition of "fixed capital cost" in 40 CFR 51.165(a)(1)(xlv); and

(v) the definition of "total capital investment" in 40 CFR 51.165(a)(1)(xlvi).

R307-403-2. Applicability.

(1) R307-403 applies to any new major stationary source or major modification that is major for the pollutant for which the area is designated nonattainment under section 107(d)(1)(A)(i) of the Clean Air Act, if the stationary source or modification would locate anywhere in the designated nonattainment area.

(a) Except as otherwise provided in paragraph R307-403-2(2), and consistent with the definition of major modification contained in 40 CFR 51.165(a)(1)(v)(A), a project is a major modification for a regulated NSR pollutant if it causes two types of emissions increases-a significant emissions increase (as defined in 40 CFR 51.165(a)(1)(xxvii)), and a significant net emissions increase (as defined in 40 CFR 51.165(a)(1)(vi) and (x)). The project is not a major modification if it does not cause a significant emissions increase. If the project causes a significant emissions increase, then the project is a major modification only if it also results in a significant net emissions increase.

(b) The procedure for calculating (before beginning actual construction) whether a significant emissions increase (i.e., the first step of the process) will occur depends upon the type of emissions units being modified, according to paragraphs R307-403-2(c) through (e). The procedure for calculating (before beginning actual construction) whether a significant net emissions increase will occur at the major stationary source (i.e., the second step of the process) is contained in the definition in 40 CFR 51.165(a)(1)(vi). Regardless of any such preconstruction projections, a major modification results if the project causes a significant emissions increase and a significant net emissions increase.

(c) Actual-to-projected-actual applicability test for projects that only involve existing emissions units. A significant emissions increase of a regulated NSR pollutant is projected to occur if the sum of the difference between the projected actual emissions (as defined in 40 CFR 51.165(a)(1)(xxviii)) and the baseline actual emissions (as defined in 40 CFR 51.165(a)(1)(xxxv)(A) and (B), as applicable), for each existing emissions unit, equals or exceeds the significant amount for that pollutant (as defined in 40 CFR 51.165(a)(1)(x)).

(d) Actual-to-potential test for projects that only involve construction of a new emissions unit(s). A significant emissions increase of a regulated NSR pollutant is projected to occur if the sum of the difference between the potential to emit (as defined in 40 CFR 51.165(a)(1)(iii)) from each new emissions unit following completion of the project and the baseline actual emissions (as defined in 40 CFR 51.165(a)(1)(xxxv)(C)) of these units before the project equals or exceeds the significant amount for that pollutant (as defined in 40 CFR 51.165(a)(1)(x)).

(e) Reserved.

(f) Hybrid test for projects that involve multiple types of emissions units. A significant emissions increase of a regulated NSR pollutant is projected to occur if the sum of the emissions

increases for each emissions unit, using the method specified in R307-403-2(1)(c) through (d) as applicable with respect to each emissions unit, for each type of emissions unit equals or exceeds the significant amount for that pollutant (as defined in 40 CFR 51.165(a)(1)(x)).

(2) For any major stationary source for a PAL for a regulated NSR pollutant, the major stationary source shall comply with requirements under R307-403-11.

(3) Reserved.

(4) Reserved.

(5)(a) Approval to construct shall not relieve any owner or operator of the responsibility to comply fully with applicable provision of the state implementation plan and any other requirements under local, state or federal law.

(b) At such time that a particular source or modification becomes a major stationary source or major modification solely by virtue of a relaxation in any enforcement limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of R307-403 shall apply to the source or modification as though construction had not yet commenced on the source or modification;

(6) The provisions of R307-403-2(6)(a) through (f) apply to projects at existing emissions units at a major stationary source (other than projects at a source with a PAL) in circumstances where there is a reasonable possibility that a project that is not a part of a major modification may result in a significant emissions increase and the owner or operator elects to use the method specified in paragraphs 40 CFR 51.165(a)(1)(xxviii)(B)(1) through (3) for calculating projected actual emissions.

(a) Before beginning actual construction of the project, the owner or operator shall document and maintain a record of the following information:

(i) A description of the project;

(ii) Identification of the emissions unit(s) whose emissions of a regulated NSR pollutant could be affected by the project; and

(iii) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions, the projected actual emissions, the amount of emissions excluded under 40 CFR 51.165(a)(1)(xxviii)(B)(3) and an explanation for why such amount was excluded, and any netting calculations, if applicable.

(b) If the emissions unit is an existing electric utility steam generating unit, before beginning actual construction, the owner or operator shall provide a copy of the information set out in R307-403-2(6)(a) to the reviewing authority. Nothing in this paragraph shall be construed to require the owner or operator of such a unit to obtain any determination from the reviewing authority before beginning actual construction.

(c) The owner or operator shall monitor the emissions of any regulated NSR pollutant that could increase as a result of the

project and that is emitted by any emissions units identified in paragraph R307-403-2(6)(a)(ii); and calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of 5 years following resumption of regular operations after the change, or for a period of 10 years following resumption of regular operations after the change if the project increases the design capacity or potential to emit of that regulated NSR pollutant at such emissions unit.

(d) If the unit is an existing electric utility steam generating unit, the owner or operator shall submit a report to the reviewing authority within 60 days after the end of each year during which records must be generated under paragraph R307-403-2(6)(c) setting out the unit's annual emissions during the year that preceded submission of the report.

(e) If the unit is an existing unit other than an electric utility steam generating unit, the owner or operator shall submit a report to the reviewing authority if the annual emissions, in tons per year, from the project identified in paragraph R307-403-2(6)(a), exceed the baseline actual emissions (as documented and maintained pursuant to paragraph R307-403-2(6)(c), by a significant amount (as defined in 40 CFR 51.165(a)(1)(x)) for that regulated NSR pollutant, and if such emissions differ from the preconstruction projection as documented and maintained pursuant to paragraph R307-403-2(6) (c). Such report shall be submitted to the reviewing authority within 60 days after the end of such year. The report shall contain the following:

(i) The name, address and telephone number of the major stationary source;

(ii) The annual emissions as calculated pursuant to paragraph R307-403-2(6)(c); and

(iii) Any other information that the owner or operator wishes to include in the report (e.g., an explanation as to why the emissions differ from the preconstruction projection).

(f) A "reasonable possibility" under (R307-403-2(6) occurs when the owner or operator calculates the project to result in either:

(i) A projected actual emissions increase of at least 50 percent of the amount that is a "significant emissions increase," as defined in 40 CFR 51.165(a)(1)(xxvii)(without reference to the amount that is a significant net emissions increase), for the regulated NSR pollutant; or

(ii) A projected actual emissions increase that, added to the amount of emissions excluded under 40 CFR 51.165(a)(1)(xxviii)(B)(3), sums to at least 50 percent of the amount that is a "significant emissions increase," as defined under paragraph 40 CFR 51.165(a)(1)(xxvii) without reference to the amount that is a significant net emissions increase), for the regulated NSR pollutant. For a project for which a reasonable possibility occurs only within the meaning of this paragraph, and not also within the meaning of paragraph R307-403-2(6)(f)(i), then provisions R307-403-2(6)(b) through (e) do not apply to the project.

(7) The owner or operator of the source shall make the information required to be documented and maintained pursuant to paragraph R307-403-2(6) above available for review upon a request for inspection by the director or the general public pursuant to the requirements contained in 40 CFR 70.4(b)(3)(viii).

(8) The requirements of R307-403 applicable to major stationary sources and major modifications of volatile organic compounds shall apply to nitrogen oxides emissions from major stationary sources and major modifications of nitrogen oxides in an ozone transport region or in any ozone nonattainment area, except in ozone nonattainment areas or in portions of an ozone transport region where the EPA Administrator has granted a nitrogen oxides waiver applying the standards set forth under section 182(f) of the Clean Air Act and the waiver continues to apply.

(9) Reserved.

(10) The requirements of R307-403 applicable to major stationary sources and major modifications of PM_{10} shall also apply to major stationary sources and major modifications of PM_{10} precursors, except where the Administrator determines that such sources do not contribute significantly to PM_{10} levels that exceed the PM_{10} ambient standards in the area.

(11) Reserved.

(12) R307-403 applies to any major source or major modification that is located outside a nonattainment area and is major for the pollutant for which the area is designated nonattainment under section 107(d)(1)(A)(i) of the Clean Air Act and that causes the significant increments in R307-403-3(1) to be exceeded in the nonattainment area.

(13) R307-403-5 applies to any new or modified source in a PM_{10} nonattainment area.

R307-403-3. Review of Major Sources of Air Quality Impact.

Every major new source or major modification must be reviewed by the director to determine if a source will cause or contribute to a violation of the NAAQS. The determination of whether a source will cause or contribute to a violation of the NAAQS will be made by the director as of the new source's projected start-up date. He will make an analysis of the proposed new source's operation data using the best information and analytical techniques available.

(1) If the owner or operator of a source proposes to locate the source outside an area of nonattainment where the source will not cause an increase greater than the following increments in actual areas of nonattainment or in the Salt Lake City and Ogden maintenance areas for carbon monoxide and the source otherwise meets the requirements of these regulations, such source shall be approved.

TABLE

MAXIMUM ALLOWABLE MICROGRAM/CUBIC METER IMPACT

BY AVERAGING TIME

Pollutant	Annual	24-Hr	8-Hr	3-Hr	1-Hr
SULFUR DIOXIDE	1.0	5		25	
PM10	1.0	3			
CO			500		2000

(2) If the director finds that the emissions from a proposed source would cause a new violation of the NAAQS but would not contribute to an existing violation, the director shall approve the proposed source if and only if:

(a) the new source is required to meet a more stringent emission limitation, sufficient to avoid a new violation of the NAAQS and

(b) the new source has acquired sufficient offset to avoid a new violation of the NAAQS and

(c) the new emission limitations for the proposed source and for any affected existing sources are enforceable.

(3) If the director finds that the emissions from a proposed source in a nonattainment area would contribute to an existing violation of a national ambient air quality standard at the time of the source's proposed start-up date, approval shall be granted if and only if:

(a) the new source meets an emission limitation which is the Lowest Achievable Emission Rate (LAER) for such source and

(b) the applicant has certified that all existing major sources in the State, owned or controlled by the owner or operator (or by any entity controlling, controlled by or under common control with such owner or operator) of the proposed source, are in compliance with all applicable rules in R307, including the Utah Implementation Plan requirements or are in compliance with an approved schedule and timetable for compliance under the Utah Implementation Plan, R307, or an enforcement order, and that the source is complying with all requirements and limitations as expeditiously as practicable.

(c) emission offsets to the extent provided in R307-403-4, 5 and 6 are sufficient such that there will be reasonable further progress toward attainment of the applicable NAAQS.

(d) the emission offsets provide a positive net air quality benefit in the affected area of nonattainment.

(e) there is an approved implementation plan in effect for the pollutant to be emitted by the proposed source.

(4) A source which is locating outside a nonattainment area or the Salt Lake City and Ogden maintenance areas for carbon monoxide and which causes the significant increments in (1) above to be exceeded in the nonattainment or maintenance area is subject to the requirements of (3) above.

R307-403-4. Offsets: General Requirements.

(1) Emission offsets must be obtained from the same source or other sources in the same nonattainment area except that the owner or operator of a source may obtain emission offsets in

another nonattainment area if:

(a) the other area has an equal or higher nonattainment classification than the area in which the source is located; and

(b) emissions from such other area contribute to a violation of the national ambient air quality standard in the nonattainment area in which the source is located or which is impacted by the source.

(2) Any emission offsets shall be enforceable by the time a new or modified source commences construction, and, by the time a new or modified source commences operation, any emission offsets shall be in effect and enforceable and shall assure that the total tonnage of increased emissions of the air pollutant from the new or modified source shall be offset by an equal or greater reduction, as applicable, in the actual emissions of such air pollutant from the same or other sources in the area.

(3) Emission reductions otherwise required by the federal Clean Air Act or R307, including the State Implementation Plan shall not be creditable as emission reductions for purposes of any offset requirement. Incidental emission reductions which are not otherwise required by federal or state law shall be creditable as emission reductions if such emission reductions meet the requirements of (1) and (2) above.

(4) Sources shall be allowed to offset, by alternative or innovative means, emission increases from rocket engine and motor firing, and cleaning related to such firing, at an existing or modified major source that tests rocket engines or motors under the conditions outlined in 42 U.S.C. 7503(e) (Section 173(e)(1) through Section 173(e)(4) of the federal Clean Air Act as amended in 1990).

R307-403-5. Offsets: PM10 Nonattainment Areas.

(1) New sources which have a potential to emit, or modified sources which would produce an emission increase equal to or exceeding the tonnage total of combined PM10, sulfur dioxide, and oxides of nitrogen listed below which are located in or impact a PM10 Nonattainment Area as defined in (a) below, shall obtain an enforceable offset as defined in (b) and (c) below.

(a) For the purpose of determining whether the owner or operator which proposes to locate a source outside a nonattainment area is required to obtain offsets, the maximum allowable impact on any nonattainment area is 1.0 microgram/cubic meter for a one-year averaging period and 3.0 micrograms/cubic meter for a 24-hour averaging period for any combination of PM10, sulfur dioxide and nitrogen dioxide.

(b) For a total of 50 tons/year or greater, an offset of 1.2:1 of the emission increase is required.

(c) For a total of 25 tons/year but less than 50 tons/year, an offset of 1:1 of the emission increase is required.

(2) For the offset determinations, PM10, sulfur dioxide, and oxides of nitrogen shall be considered on an equal basis. In areas where offsets are required for both PM10 and ozone, the most stringent emission offset ratio for oxides of nitrogen required by

R307-403 or R307-420 shall apply.

R307-403-6. Offsets: Ozone Nonattainment Areas.

In any ozone nonattainment area, new sources and modifications to existing sources as defined and outlined in 42 U.S.C. 7511a (Section 182 of the Clean Air Act) shall meet the offset requirements and conditions listed in that section for the applicable classified area and for the identified pollutants.

R307-403-7. Offsets: Baseline.

The baseline to be used for determination of credit for emission and air quality offsets will be the emission limitations and/or other requirements in the State Implementation Plan (SIP), revised in accordance with the Clean Air Act or subsequent revisions thereto in effect at the time the application to construct or modify a source is filed.

R307-403-8. Offsets: Banking of Emission Offset Credit.

Banking of emission offset credit will be permitted to the fullest extent allowed by applicable Federal Law as identified in EPA's document "Emissions Trading Policy Statement" published in the Federal Register on December 4, 1986, and 40 CFR 51.165(a)(3)(ii)(c) as amended on June 28, 1989, and 40 CFR 51, Appendix S. To preserve banked emission reductions, the director must identify them in either the Utah SIP or an order issued pursuant to R307-401 and shall provide a registry to identify the person, private entity or governmental authority that has the right to use or allocate the banked emission reductions, and to record any transfers of, or liens on these rights.

R307-403-9. Construction in Stages.

When a source is constructed or modified in stages which individually do not have the potential to emit more than 100 tons per year, the allowable emission from all such stages shall be added together in determining the applicability of R307-403.

R307-403-10. Analysis of Alternatives.

The owner or operator of a major new source or major modification to be located in a nonattainment area or which would impact a nonattainment area must, in addition to the requirements in R307-403, submit with the notice of intent an adequate analysis of alternative sites, sizes, production processes, and environmental control techniques for such proposed source which demonstrates the benefits of the proposed source significantly outweigh the environmental and social costs imposed as a result of its location, construction, or modification. The director shall review the analysis. The analysis and the director's comments shall be subject to public comment as required by R307-401-7. The preceding shall also apply in Salt Lake and Davis Counties for new major sources or modifications which are considered major for precursors of ozone, including volatile organic compounds and nitrogen oxides.

R307-403-11. Actuals PALS.

The provisions of 40 CFR 51.165(f)(1) through (14) are hereby incorporated by reference.

KEY: air quality, nonattainment, offset
Date of Enactment or Last Substantive Amendment: December 5, 2013
Notice of Continuation: June 6, 2012
Authorizing, and Implemented or Interpreted Law: 19-2-104; 19-2-108

R307. Environmental Quality, Air Quality.
R307-405. Permits: Major Sources in Attainment or Unclassified Areas (PSD).
R307-405-1. Purpose.

This rule implements the federal Prevention of Significant Deterioration (PSD) permitting program for major sources and major modifications in attainment areas and maintenance areas as required by 40 CFR 51.166. This rule does not include the routine maintenance, repair and replacement provisions that were vacated by the DC Circuit Court of Appeals on March 17, 2006. This rule supplements, but does not replace, the permitting requirements of R307-401.

R307-405-2. Applicability.

(1) All references to 40 CFR in R307-405 shall mean the version that is in effect on July 1, 2011.

(2) The provisions of 40 CFR 52.21(a)(2) are hereby incorporated by reference.

(3) Notwithstanding the exemptions in R307-401, any source that is subject to R307-405 is subject to the requirement to obtain an approval order in R307-401-5 through 8.

R307-405-3. Definitions.

(1) Except as provided in (2) and (9) below, the definitions contained in 40 CFR 52.21(b) are hereby incorporated by reference.

(2)(a) In the definition of "baseline area" in 40 CFR 52.21(b)(15)(ii)(b) insert the words "or R307-405" after "Is subject to 40 CFR 52.21".

(b) "Reviewing Authority" means the director.

(c)(i) The term "Administrator" shall be changed to "director" throughout R307-405, except as provided in (ii).

(ii) The term "Administrator" shall be changed to "EPA Administrator" in the following incorporated sections:

(A) 40 CFR 52.21(b)(17),
(B) 40 CFR 52.21(b)(37)(i),
(C) 40 CFR 52.21(b)(43),
(D) 40 CFR 52.21(b)(48)(ii)(c),
(E) 40 CFR 52.21(b)(50)(i),
(F) 40 CFR 52.21(l)(2),
(G) 40 CFR 52.21(p)(2), and

(H) 40 CFR 51.166(q)(2)(iv).

(d) The following definitions or portions of definitions that apply to the equipment repair and replacement provisions are not incorporated because these provisions were vacated by the DC Circuit Court of Appeals on March 17, 2006:

(i) in the definition major modification in 40 CFR 52.21(b)(2), the second sentence in subparagraph (iii)(a),

(ii) the definition of "process unit" in 40 CFR 52.21(b)(55),

(iii) the definition of "functionally equivalent component" in 40 CFR 52.21(b)(56),

(iv) the definition of "fixed capital cost" in 40 CFR 52.21 (b)(57), and

(v) the definition of "total capital investment" in 40 CFR 52.21(b)(58).

(e) In the definition of "Regulated NSR pollutant" in 40 CFR 52.21(b)(50), subparagraph (iv) shall be changed to read, "Any pollutant that otherwise is subject to regulation under the Act." A new subparagraph (v) shall be added that reads, "The term regulated NSR pollutant shall not include any or all hazardous air pollutants either listed in section 112 of the federal Clean Air Act, or added to the list pursuant to section 112(b)(2) of the federal Clean Air Act, and which have not been delisted pursuant to section 112(b)(3) of the federal Clean Air Act, unless the listed hazardous air pollutant is also regulated as a constituent or precursor of a general pollutant listed under section 108 of the federal Clean Air Act."

(3) "Air Quality Related Values," as used in analyses under 40 CFR 52.21 (p) that is incorporated by reference in R307-405-17, means those special attributes of a Class I area, assigned by a federal land manager, that are adversely affected by air quality.

(4) "Heat input" means heat input as defined in 40 CFR 52.01(g), that is hereby incorporated by reference.

(5) "Title V permit" means any permit or group of permits covering a Part 70 source that is issued, renewed, amended, or revised pursuant to R307-415.

(6) "Title V Operating Permit Program" means R307-415.

(7) The definition of "Good Engineering Practice (GEP) Stack Height" as defined in R307-410 shall apply in this rule.

(8) The definition of "Dispersion Technique" as defined in R307-410 shall apply in this rule.

(9) "Subject to regulation" means, for any air pollutant, that the pollutant is subject to either a provision in the federal Clean Air Act, or a nationally-applicable regulation codified by the Administrator in subchapter C of 40 CFR Chapter I, that requires actual control of the quantity of emissions of that pollutant, and that such a control requirement has taken effect and is operative to control, limit or restrict the quantity of emissions of that pollutant released from the regulated activity. Except that:

(a) "Greenhouse gases (GHGs)," the air pollutant defined in 40 CFR 86.1818-12(a) (Federal Register, Vol. 75, Page 25686) as

the aggregate group of six greenhouse gases: carbon dioxide, nitrous oxide, methane, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride, shall not be subject to regulation except as provided in paragraph (d) of this section.

(b) For purposes of paragraphs (c) through (d) of this section, the term "tons per year (tpy) CO2 equivalent emissions (CO2e)" shall represent an amount of GHGs emitted, and shall be computed as follows:

(i) Multiplying the mass amount of emissions (tpy), for each of the six greenhouse gases in the pollutant GHGs, by the gas's associated global warming potential published at Table A-1 to subpart A of 40 CFR Part 98 - Global Warming Potentials, that is hereby incorporated by reference (Federal Register, Vol. 74, Pages 56395-96).

(ii) Sum the resultant value from paragraph (b)(i) of this section for each gas to compute a tpy CO2e.

(c) The term "emissions increase" as used in paragraph (d) of this section shall mean that both a significant emissions increase (as calculated using the procedures in 40 CFR 52.21 (a)(2)(iv) that is incorporated by reference in R307-405-2) and a significant net emissions increase (as defined in paragraphs 40 CFR 52.21(b)(3) and (b)(23) that is incorporated by reference in R307-405-3) occur. For the pollutant GHGs, an emissions increase shall be based on tpy CO2e, and shall be calculated assuming the pollutant GHGs is a regulated NSR pollutant, and ''significant'' is defined as 75,000 tpy CO2e instead of applying the value in paragraph 40 CFR 52.21(b)(23)(ii).

(d) Beginning January 2, 2011, the pollutant GHGs is subject to regulation if:

(i) The stationary source is a new major stationary source for a regulated NSR pollutant that is not GHGs, and also will emit or will have the potential to emit 75,000 tpy CO2e or more; or

(ii) The stationary source is an existing major stationary source for a regulated NSR pollutant that is not GHGs, and also will have an emissions increase of a regulated NSR pollutant, and an emissions increase of 75,000 tpy CO2e or more.

R307-405-4. Area Designations.

(1) Pursuant to section 162(a) of the federal Clean Air Act, the following areas are designated as mandatory Class I areas:

(a) Arches National Park,

(b) Bryce Canyon National Park,

(c) Canyonlands National Park,

(d) Capitol Reef National Park, and

(e) Zion National Park.

(2) Pursuant to section 162(b) of the federal Clean Air Act, all other areas in Utah are designated as Class II unless designated as nonattainment areas.

(3) No areas in Utah are designated as Class III.

R307-405-5. Area Redesignation.

Any person may petition the Board to change the

classification of an area designated under R307-405-4, except for mandatory Class I areas designated under R307-405-4(1).

(1) The petition shall contain a discussion of the reasons for the proposed redesignation, including a satisfactory description and analysis of the health, environmental, economic and social and energy effects of the proposed redesignation.

(2) The petition shall contain a demonstration that the proposed redesignation meets the criteria outlined in Section VIII of the State Implementation Plan and 40 CFR 51.166(e) and (g), that is hereby incorporated by reference.

R307-405-6. Ambient Air Increments.

The provisions of 40 CFR 52.21(c) are hereby incorporated by reference.

R307-405-7. Ambient Air Ceilings.

The provisions of 40 CFR 52.21(d) are hereby incorporated by reference.

R307-405-8. Exclusions from Increment Consumption.

(1) The following concentrations shall be excluded in determining compliance with a maximum allowable increase:

(a) concentrations attributable to the increase in emissions from stationary sources which have converted from the use of petroleum products, natural gas, or both by reason of an order in effect under section 2(a) and (b) of the Energy Supply and Environmental Coordination Act of 1974 (or any superseding legislation) over the emissions from such sources before the effective date of such an order;

(b) concentrations attributable to the increase in emissions from sources which have converted from using natural gas by reason of a natural gas curtailment plan in effect pursuant to the Federal Power Act over the emissions from such sources before the effective date of such plan;

(c) concentrations of particulate matter attributable to the increase in emissions from construction or other temporary emission-related activities of new or modified sources;

(d) the increase in concentrations attributable to new sources outside the United States over the concentrations attributable to existing sources which are included in the baseline concentration; and

(e) concentrations attributable to the temporary increase in emissions of sulfur dioxide, particulate matter, or nitrogen dioxides from stationary sources which are affected by plan revisions approved by the EPA Administrator as meeting the criteria specified in 40 CFR 51.166(f)(4). The temporary increase shall not exceed 2 years in duration unless a longer time is approved by the EPA Administrator. This exclusion is not renewable.

(2) No exclusion of concentration under (1)(a) or (b) above shall apply more than five years after the effective date of the order to which paragraph (1)(a) refers or the plan to which

paragraph (1)(b) refers, whichever is applicable. If both such order and plan are applicable, no such exclusion shall apply more than five years after the later of such effective dates.

(3) No exclusion under (1)(e) shall apply to an emission increase from a stationary source which would:

(a) impact a Class I area or an area where an applicable increment is known to be violated; or

(b) cause or contribute to a violation of the national ambient air quality standards.

R307-405-9. Stack Heights.

The provisions of 40 CFR 52.21(h) are hereby incorporated by reference.

R307-405-10. Exemptions.

(1) The provisions of 40 CFR 52.21(i)(1)(vi) through (viii) are hereby incorporated by reference.

(2) The provisions of 40 CFR 52.21(i)(2) through (5) are hereby incorporated by reference.

R307-405-11. Control Technology Review.

The provisions of 40 CFR 52.21(j) are hereby incorporated by reference.

R307-405-12. Source Impact Analysis.

The provisions of 40 CFR 52.21(k) are hereby incorporated by reference.

R307-405-13. Air Quality Models.

The provisions of 40 CFR 52.21(l) are hereby incorporated by reference.

R307-405-14. Air Quality Analysis.

(1) The provisions of 40 CFR 52.21(m)(1)(i) through (iv), (vi), and (viii) are hereby incorporated by reference.

(2) The provisions of 40 CFR 52.21(m)(2) and (3) are hereby incorporated by reference.

R307-405-15. Source Information.

The provisions of 40 CFR 52.21(n) are hereby incorporated by reference.

R307-405-16. Additional Impact Analysis.

The provisions of 40 CFR 52.21(o) are hereby incorporated by reference.

R307-405-17. Sources Impacting Federal Class I Areas: Additional Requirements.

(1) The provisions of 40 CFR 52.21(p) are hereby incorporated by reference.

(2) The director will transmit to the EPA Administrator a copy of each permit application relating to a major stationary

source or major modification and provide notice to the EPA Administrator of every action related to the consideration of such permit.

R307-405-18. Public Participation.

(1) Except as provided in (2), the provisions of 40 CFR 51.166(q)(1) and (2) are hereby incorporated by reference.

(2) The phrase "within a specified time period" in 40 CFR 51.166(q)(1) shall be replaced with the phrase "within 30 days of receipt of the PSD permit application".

R307-405-19. Source Obligation.

The provisions of 40 CFR 52.21(r) are hereby incorporated by reference.

R307-405-20. Innovative Control Technology.

(1) Except as provided in (2), the provisions of 40 CFR 52.21(v) are hereby incorporated by reference.

(2)(a) The reference to "40 CFR 124.10" in 40 CFR 52.21(v)(1) shall be changed to "R307-405-18".

(b) 40 CFR 52.21(v)(2) shall be changed to read "The director shall, with the consent of the governors of other affected states, determine that the source or modification may employ a system of innovative control technology, if:".

R307-405-21. Actuals PALs.

(1) Except as provided in (2), the provisions of 40 CFR 52.21(aa) are hereby incorporated by reference.

(2) (a) The reference to "51.165(a)(3)(ii) of this chapter" in 40 CFR 52.21(aa)(4)(ii) shall be changed to "R307-403".

(b) The reference to "51.165(a)(3)(ii) of this chapter" in 40 CFR 52.21(aa)(8)(ii)(2) shall be changed to "R307-403".

(c) The references to "70.6(a)(3)(iii)(B) of this chapter" in 40 CFR 52.21(aa)(14)(ii) shall be changed to "R307-415-6a(3)(c)(ii)".

(d) The date of "March 3, 2003" in 40 CFR 52.21(aa)(15)(i) and (ii) shall be changed to "June 16, 2006".

R307-405-22. Banking of Emission Offset Credit in PSD Areas.

Banking of emission offset credits in PSD areas will be permitted. To preserve banked emission reductions the director must identify them in either the Utah SIP or an order. The director will provide a registry to identify the person, private entity, or government authority that has the right to use or allocate the banked emission reduction and to record any transfer of or lien on these rights.

KEY: air pollution, PSD, Class I area, greenhouse gases
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Notice of Continuation: January 28, 2014
Authorizing, and Implemented or Interpreted Law: 19-2-104

R307. Environmental Quality, Air Quality.
R307-406. Visibility.
R307-406-1. Definitions.

The following additional definition applies throughout R307-406:

"Adverse Impact on Visibility" means for purposes of R307-406, visibility impairment which interferes with the management, protection, preservation, or enjoyment of the visitors visual experience of a mandatory Class I area. This determination must be made on a case-by-case basis taking into account the geographic extent, intensity, duration, frequency and time of visibility impairments, and how these factors correlate with times of visitor use of the mandatory Class I area, and the frequency and timing of natural conditions that reduce visibility.

R307-406-2. Source Review.

(1) The director shall review any new major source or major modification proposed in either an attainment area or area of nonattainment area for the impact of its emissions on visibility in any mandatory Class I area. As a condition of any approval order issued to a source under R307-401, the director shall require the use of air pollution control equipment, technologies, methods or work practices deemed necessary to mitigate visibility impacts in Class I areas that would occur as a result of emissions from such source. The director shall take into consideration as a part of the review and control requirements:

(a) the costs of compliance;
(b) the time necessary for compliance;
(c) the energy usage and conservation;
(d) the non air quality environmental impacts of compliance;
(e) the useful life of the source; and
(f) the degree of visibility improvement which will be provided as a result of control.

(2) In determining visibility impact by a major new source or major modification, the director shall use, the procedures identified in the EPA publication "Workbook For Estimating Visibility Impacts" (EPA 450-4-80-031) November 1980, or equivalent.

(3) The director shall insure that source emissions will be consistent with making reasonable progress toward the national visibility goal referred to in 40 CFR, 51.300(a).

R307-406-3. Notification of Federal Land Managers.

(1) The director shall notify the Federal Land Manager having jurisdiction over any mandatory Class I area of any proposed new major source or major modification that may reasonably be expected to affect visibility in that mandatory Class I area. Such notification shall be in writing and shall include a copy of all information relevant to the Notice of Intent and visibility impact analysis submitted by the source. The notification shall be made within thirty (30) days of receipt of

the completed Notice of Intent and at least sixty (60) days prior to any public hearing or the commencement of any public comment period, held in accordance with R307-401-4 of these regulations, on the proposal. The director shall consider, as a part of the new or modified source review required by R307-406, any analysis performed by the Federal Land Manager that such proposed new major source or major modification may have an adverse impact on visibility in any mandatory Class I area, provided such analysis is submitted to the director within sixty (60) days of the notification to the Federal Land Manager as required by this paragraph. If the director determines that the major source or major modification will have an adverse impact on visibility in any mandatory Class I area, the director shall not issue the approval order. Where the director determines that such analysis does not demonstrate that adverse impact on visibility will result in a mandatory Class I area, the director will, in the notice of any public hearing held on the new major source or major modification proposal, explain the decision or give notice where the explanation can be obtained.

(2) Where the director receives advance notification or early consultation with a major new source or major modification which may affect visibility prior to the submission of a Notice of Intent to Construct for the major new source or major modification, the director will notify the affected Federal Land Manager within thirty (30) days of such advance notification.

R307-406-4. Adverse Impact.

If the analysis required by R307-406-2 predicts that an adverse impact on visibility may reasonably be expected to occur in a mandatory Class I area, the director may require a proposed new major source or major modification to perform pre-construction and/or post-construction visibility monitoring in any mandatory Class I area as deemed necessary and appropriate to assess the impact of the proposed source or modification on visibility. Such monitoring shall be conducted in accordance with a monitoring plan prepared by the owner or operator of the source or his representative and approved by the director.

R307-406-5. Consideration in Review.

The director will consider in review and permitting of a new major source or major modification to an existing source, any visibility monitoring data provided by the Federal Land Manager which may reasonably be expected to be impacted by the proposed new major source or major modification.

R307-406-6. Audits for Permitting.

The director may perform oversight audits of any network collecting visibility data which may be used as a part of the permitting process as determined necessary.

KEY: air pollution, visibility*, permits
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1998
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R307. Environmental Quality, Air Quality.
R307-410. Permits: Emissions Impact Analysis.
R307-410-1. Purpose.

This rule establishes the procedures and requirements for evaluating the emissions impact of new or modified sources that require an approval order under R307-401 to ensure that the source will not interfere with the attainment or maintenance of any NAAQS. The rule also establishes the procedures and requirements for evaluating the emissions impact of hazardous air pollutants. The rule also establishes the procedures for establishing an emission rate based on the good engineering practice stack height as required by 40 CFR 51.118.

R307-410-2. Definitions.

(1) The following additional definitions apply to R307-410.

"Vertically Restricted Emissions Release" means the release of an air pollutant through a stack or opening whose flow is directed in a downward or horizontal direction due to the alignment of the opening or a physical obstruction placed beyond the opening, or at a height which is less than 1.3 times the height of an adjacent building or structure, as measured from ground level.

"Vertically Unrestricted Emissions Release" means the release of an air pollutant through a stack or opening whose flow is directed upward without any physical obstruction placed beyond the opening, and at a height which is at least 1.3 times the height of an adjacent building or structure, as measured from ground level.

(2) Except as provided in (3) below, the definitions of "stack", "stack in existence", "dispersion technique", "good engineering practice (GEP) stack height", "nearby", "excessive concentration", and "intermittent control system (ICS)" in 40 CFR 51.100(ff) through (kk) and (nn) are hereby incorporated by reference.

(3)(a) The terms "reviewing authority" and "authority administering the State implementation plan" shall mean the director.

(b) The reference to "40 CFR parts 51 and 52" in 40 CFR 51.100(ii)(2)(i) shall be changed to "R307-401, R307-403 and R307-405".

(c) The phrase "For sources subject to the prevention of significant deterioration program (40 CFR 51.166 and 52.21)" in 40 CFR 51.100(kk)(1) shall be replaced with the phrase "For sources subject to R307-401, R307-403, or R307-405".

R307-410-3. Use of Dispersion Models.

All estimates of ambient concentrations derived in meeting the requirements of R307 shall be based on appropriate air quality

models, data bases, and other requirements specified in 40 CFR Part 51, Appendix W, (Guideline on Air Quality Models), effective July 1, 2005, which is hereby incorporated by reference. Where an air quality model specified in the Guideline on Air Quality Models or other EPA approved guidance documents is inappropriate, the director may authorize the modification of the model or substitution of another model. In meeting the requirements of federal law, any modification or substitution will be made only with the written approval of the Administrator, EPA.

R307-410-4. Modeling of Criteria Pollutant Impacts in Attainment Areas.

Prior to receiving an approval order under R307-401, a new source in an attainment area with a total controlled emission rate per pollutant greater than or equal to amounts specified in Table 1, or a modification to an existing source located in an attainment area which increases the total controlled emission rate per pollutant of the source in an amount greater than or equal to those specified in Table 1, shall conduct air quality modeling, as identified in R307-410-3, to estimate the impact of the new or modified source on air quality unless previously performed air quality modeling for the source indicates that the addition of the proposed emissions increase would not violate a National Ambient Air Quality Standard, as determined by the director.

TABLE 1

POLLUTANT	EMISSIONS
sulfur dioxide	40 tons per year
oxides of nitrogen	40 tons per year
PM10 - fugitive emissions and fugitive dust	5 tons per year
PM10 - non-fugitive emissions or non-fugitive dust	15 tons per year
carbon monoxide	100 tons per year
lead	0.6 tons per year

R307-410-5. Documentation of Ambient Air Impacts for Hazardous Air Pollutants.

(1) Prior to receiving an approval order under R307-401, a source shall provide documentation of increases in emissions of hazardous air pollutants as required under (c) below for all installations not exempt under (a) below.

(a) Exempted Installations.

(i) The requirements of R307-410-5 do not apply to installations which are subject to or are scheduled to be subject to an emission standard promulgated under 42 U.S.C. 7412 at the time a notice of intent is submitted, except as defined in (ii) below. This exemption does not affect requirements otherwise applicable to the source, including requirements under R307-401.

(ii) The director may, upon making a written determination that the delay in the implementation of an emission standard under

R307-214-2, that incorporates 40 CFR Part 63, might reasonably be expected to pose an unacceptable risk to public health, require, on a case-by-case basis, notice of intent documentation of emissions consistent with (c) below.

(A) The director will notify the source in writing of the preliminary decision to require some or all of the documentation as listed in (c) below.

(B) The source may respond in writing within thirty days of receipt of the notice, or such longer period as the director approves.

(C) In making a final determination, the director will document objective bases for the determination, which may include public information and studies, documented public comment, the applicant's written response, the physical and chemical properties of emissions, and ambient monitoring data.

(b) Lead Compounds Exemption. The requirements of R307-410-5 do not apply to emissions of lead compounds. Lead compounds shall be evaluated pursuant to requirements of R307-410-4.

(c) Submittal Requirements.

(i) Each applicant's notice of intent shall include:

(A) the estimated maximum pounds per hour emission rate increase from each affected installation,

(B) the type of release, whether the release flow is vertically restricted or unrestricted, the maximum release duration in minutes per hour, the release height measured from the ground, the height of any adjacent building or structure, the shortest distance between the release point and any area defined as "ambient air" under 40 CFR 50.1(e), effective July 1, 2005, which is hereby incorporated by reference for each installation for which the source proposes an emissions increase,

(C) the emission threshold value, calculated to be the applicable threshold limit value - time weighted average (TLV-TWA) or the threshold limit value - ceiling (TLV-C) multiplied by the appropriate emission threshold factor listed in Table 2, except in the case of arsenic, benzene, beryllium, and ethylene oxide which shall be calculated using chronic emission threshold factors, and formaldehyde, which shall be calculated using an acute emission threshold factor. For acute hazardous air pollutant releases having a duration period less than one hour, this maximum pounds per hour emission rate shall be consistent with an identical operating process having a continuous release for a one-hour period.

TABLE 2
EMISSION THRESHOLD FACTORS FOR HAZARDOUS AIR POLLUTANTS
(cubic meter pounds per milligram hour)

VERTICALLY-RESTRICTED AND FUGITIVE EMISSION RELEASE POINTS

DISTANCE TO PROPERTY BOUNDARY	ACUTE	CHRONIC	CARCINOGENIC
20 Meters or less	0.038	0.051	0.017

21 - 50 Meters	0.051	0.066	0.022
51 - 100 Meters	0.092	0.123	0.041
Beyond 100 Meters	0.180	0.269	0.090

VERTICALLY-UNRESTRICTED EMISSION RELEASE POINTS

DISTANCE TO PROPERTY BOUNDARY	ACUTE	CHRONIC	CARCINOGENIC
50 Meters or less	0.154	0.198	0.066
51 - 100 Meters	0.224	0.244	0.081
Beyond 100 Meters	0.310	0.368	0.123

(ii) A source with a proposed maximum pounds per hour emissions increase equal to or greater than the emissions threshold value shall include documentation of a comparison of the estimated ambient concentration of the proposed emissions with the applicable toxic screening level specified in (d) below.

(iii) A source with an estimated ambient concentration equal to or greater than the toxic screening level shall provide additional documentation regarding the impact of the proposed emissions. The director may require such documentation to include, but not be limited to:

(A) a description of symptoms and adverse health effects that can be caused by the hazardous air pollutant,

(B) the exposure conditions or dose that is sufficient to cause the adverse health effects,

(C) a description of the human population or other biological species which could be exposed to the estimated concentration,

(D) an evaluation of land use for the impacted areas,

(E) the environmental fate and persistency.

(d) Toxic Screening Levels and Averaging Periods.

(i) The toxic screening level for an acute hazardous air pollutant is 1/10th the value of the TLV-C, and the applicable averaging period shall be:

(A) one hour for emissions releases having a duration period of one hour or greater,

(B) one hour for emission releases having a duration period less than one hour if the emission rate used in the model is consistent with an identical operating process having a continuous release for a one-hour period or more, or

(C) the dispersion model's shortest averaging period when using an applicable model capable of estimating ambient concentrations for periods of less than one hour.

(ii) The toxic screening level for a chronic hazardous air pollutant is 1/30th the value of the TLV- TWA, and the applicable averaging period shall be 24 hours.

(iii) The toxic screening level for all carcinogenic hazardous air pollutants is 1/90 the value of the TLV-TWA, and the applicable averaging period shall be 24 hours, except in the case of formaldehyde which shall be evaluated consistent with (d)(i) above and arsenic, benzene, beryllium, and ethylene oxide which

shall be evaluated consistent with (d)(ii) above.

R307-410-6. Stack Heights and Dispersion Techniques.

(1) The degree of emission limitation required of any source for control of any air pollutant to include determinations made under R307-401, R307-403 and R307-405, must not be affected by so much of any source's stack height that exceeds good engineering practice or by any other dispersion technique except as provided in (2) below. This does not restrict, in any manner, the actual stack height of any source.

(2) The provisions in R307-410-6 shall not apply to:

(a) stack heights in existence, or dispersion techniques implemented on or before December 31, 1970, except where pollutants are being emitted from such stacks or using such dispersion techniques by sources which were constructed or reconstructed, or for which major modifications were carried out after December 31, 1970; or

(b) coal-fired steam electric generating units subject to the provisions of Section 118 of the Clean Air Act, which commenced operation before July 1, 1957, and whose stacks were constructed under a construction contract awarded before February 8, 1974.

(3) The director may require the source owner or operator to provide a demonstration that the source stack height meets good engineering practice as required by R307-410-6. The director shall notify the public of the availability of the demonstration as part of the public notice process required by R307-401-7, Pubic Notice.

KEY: air pollution, modeling, hazardous air pollutant, stack height
Date of Enactment or Last Substantive Amendment: December 15, 2015
Notice of Continuation: June 6, 2012
Authorizing, and Implemented or Interpreted Law: 19-2-104

R307. Environmental Quality, Air Quality.
R307-414. Permits: Fees for Approval Orders.
R307-414-1. Applicability and Definitions.

The owner and operator of each new major source or major modification is required to pay a fee to the Department sufficient to cover the reasonable costs of reviewing and acting upon the notice of intent required pursuant to R307-401 for each new major source or major modification and implementing and enforcing requirements placed on such source by any approval order issued pursuant to such notice (not including any court costs associated with any enforcement action).

R307-414-2. Bills for Service.

(1) The director will provide the owner or operator of each new major source or major modification with an itemized bill for

services upon issuance of an approval order. Such a bill for services shall represent the actual costs to the Department for reviewing and acting upon the notice of intent and shall be due and payable upon receipt.

(2) The director shall provide the owner or operator of each new major source or major modification with an itemized bill for services upon completion of an initial compliance inspection and/or source testing and/or any enforcement action brought about by the issuance of an approval order. Such bill shall represent the actual costs to the Department for the inspection, testing and/or enforcement action and shall be due and payable upon receipt.

KEY: air pollution, fee
Date of Enactment or Last Substantive Amendment: December 7, 2000
Notice of Continuation: June 6, 2012
Authorizing, and Implemented or Interpreted Law: 19-2-104(3)(o)

R307. Environmental Quality, Air Quality.
R307-415. Permits: Operating Permit Requirements.
R307-415-1. Purpose.

Title V of the Clean Air Act (the Act) requires states to develop and implement a comprehensive air quality permitting program. Title V of the Act does not impose new substantive requirements. Title V does require that sources subject to R307-415 pay a fee and obtain a renewable operating permit that clarifies, in a single document, which requirements apply to a source and assures the source's compliance with those requirements. The purpose of R307-415 is to establish the procedures and elements of such a program.

R307-415-2. Authority.

(1) R307-415 is required by Title V of the Act and 40 Code of Federal Regulations (CFR) Part 70, and is adopted under the authority of Section 19-2-104.

(2) All references to 40 CFR in R307-415, except when otherwise specified, are effective as of the date referenced in R307-101-3.

R307-415-3. Definitions.

(1) The definitions contained in R307-101-2 apply throughout R307-415, except as specifically provided in (2).

(2) The following additional definitions apply to R307-415.

"Act" means the Clean Air Act, as amended, 42 U.S.C. 7401, et seq.

"Administrator" means the Administrator of EPA or his or her designee.

"Affected States" are all states:

(a) Whose air quality may be affected and that are contiguous to Utah; or

(b) That are within 50 miles of the permitted source.

"Applicable requirement" means all of the following as they apply to emissions units in a Part 70 source, including requirements that have been promulgated or approved by the Board or by the EPA through rulemaking at the time of permit issuance but have future-effective compliance dates:

(a) Any standard or other requirement provided for in the State Implementation Plan;

(b) Any term or condition of any approval order issued under R307-401;

(c) Any standard or other requirement under Section 111 of the Act, Standards of Performance for New Stationary Sources, including Section 111(d);

(d) Any standard or other requirement under Section 112 of the Act, Hazardous Air Pollutants, including any requirement concerning accident prevention under Section 112(r)(7) of the Act;

(e) Any standard or other requirement of the Acid Rain Program under Title IV of the Act or the regulations promulgated thereunder;

(f) Any requirements established pursuant to Section 504(b) of the Act, Monitoring and Analysis, or Section 114(a)(3) of the Act, Enhanced Monitoring and Compliance Certification;

(g) Any standard or other requirement governing solid waste incineration, under Section 129 of the Act;

(h) Any standard or other requirement for consumer and commercial products, under Section 183(e) of the Act;

(i) Any standard or other requirement of the regulations promulgated to protect stratospheric ozone under Title VI of the Act, unless the Administrator has determined that such requirements need not be contained in an operating permit;

(j) Any national ambient air quality standard or increment or visibility requirement under part C of Title I of the Act, but only as it would apply to temporary sources permitted pursuant to Section 504(e) of the Act;

(k) Any standard or other requirement under rules adopted by the Board.

"Area source" means any stationary source that is not a major source.

"Designated representative" shall have the meaning given to it in Section 402 of the Act and in 40 CFR Section 72.2, and applies only to Title IV affected sources.

"Draft permit" means the version of a permit for which the director offers public participation under R307-415-7i or affected State review under R307-415-8(2).

"Emissions allowable under the permit" means a federally-enforceable permit term or condition determined at issuance to be required by an applicable requirement that establishes an emissions limit, including a work practice standard, or a federally-enforceable emissions cap that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject.

"Emissions unit" means any part or activity of a stationary source that emits or has the potential to emit any regulated air

pollutant or any hazardous air pollutant. This term is not meant to alter or affect the definition of the term "unit" for purposes of Title IV of the Act, Acid Deposition Control.

"Final permit" means the version of an operating permit issued by the director that has completed all review procedures required by R307-415-7a through 7i and R307-415-8.

"General permit" means an operating permit that meets the requirements of R307-415-6d.

"Hazardous Air Pollutant" means any pollutant listed by the Administrator as a hazardous air pollutant under Section 112(b) of the Act.

"Major source" means any stationary source (or any group of stationary sources that are located on one or more contiguous or adjacent properties, and are under common control of the same person (or persons under common control)) belonging to a single major industrial grouping and that are described in paragraphs (a), (b), or (c) of this definition. For the purposes of defining "major source," a stationary source or group of stationary sources shall be considered part of a single industrial grouping if all of the pollutant emitting activities at such source or group of sources on contiguous or adjacent properties belong to the same Major Group (all have the same two-digit code) as described in the Standard Industrial Classification Manual, 1987. Emissions resulting directly from an internal combustion engine for transportation purposes or from a non-road vehicle shall not be considered in determining whether a stationary source is a major source under this definition.

(a) A major source under Section 112 of the Act, Hazardous Air Pollutants, which is defined as: for pollutants other than radionuclides, any stationary source or group of stationary sources located within a contiguous area and under common control that emits or has the potential to emit, in the aggregate, ten tons per year or more of any hazardous air pollutant or 25 tons per year or more of any combination of such hazardous air pollutants. Notwithstanding the preceding sentence, emissions from any oil or gas exploration or production well, with its associated equipment, and emissions from any pipeline compressor or pump station shall not be aggregated with emissions from other similar units, whether or not such units are in a contiguous area or under common control, to determine whether such units or stations are major sources.

(b) A major stationary source of air pollutants, as defined in Section 302 of the Act, that directly emits or has the potential to emit, 100 tons per year or more of any air pollutant including any major source of fugitive emissions or fugitive dust of any such pollutant as determined by rule by the Administrator. The fugitive emissions or fugitive dust of a stationary source shall not be considered in determining whether it is a major stationary source for the purposes of Section 302(j) of the Act, unless the source belongs to any one of the following categories of stationary source:

(i) Coal cleaning plants with thermal dryers;

(ii) Kraft pulp mills;
(iii) Portland cement plants;
(iv) Primary zinc smelters;
(v) Iron and steel mills;
(vi) Primary aluminum ore reduction plants;
(vii) Primary copper smelters;
(viii) Municipal incinerators capable of charging more than 250 tons of refuse per day;
(ix) Hydrofluoric, sulfuric, or nitric acid plants;
(x) Petroleum refineries;
(xi) Lime plants;
(xii) Phosphate rock processing plants;
(xiii) Coke oven batteries;
(xiv) Sulfur recovery plants;
(xv) Carbon black plants, furnace process;
(xvi) Primary lead smelters;
(xvii) Fuel conversion plants;
(xviii) Sintering plants;
(xix) Secondary metal production plants;
(xx) Chemical process plants;
(xxi) Fossil-fuel boilers, or combination thereof, totaling more than 250 million British thermal units per hour heat input;
(xxii) Petroleum storage and transfer units with a total storage capacity exceeding 300,000 barrels;
(xxiii) Taconite ore processing plants;
(xxiv) Glass fiber processing plants;
(xxv) Charcoal production plants;
(xxvi) Fossil-fuel-fired steam electric plants of more than 250 million British thermal units per hour heat input;
(xxvii) Any other stationary source category, which as of August 7, 1980 is being regulated under Section 111 or Section 112 of the Act.

(c) A major stationary source as defined in part D of Title I of the Act, Plan Requirements for Nonattainment Areas, including:

(i) For ozone nonattainment areas, sources with the potential to emit 100 tons per year or more of volatile organic compounds or oxides of nitrogen in areas classified as "marginal" or "moderate," 50 tons per year or more in areas classified as "serious," 25 tons per year or more in areas classified as "severe," and 10 tons per year or more in areas classified as "extreme"; except that the references in this paragraph to 100, 50, 25, and 10 tons per year of nitrogen oxides shall not apply with respect to any source for which the Administrator has made a finding, under Section 182(f)(1) or (2) of the Act, that requirements under Section 182(f) of the Act do not apply;

(ii) For ozone transport regions established pursuant to Section 184 of the Act, sources with the potential to emit 50 tons per year or more of volatile organic compounds;

(iii) For carbon monoxide nonattainment areas that are classified as "serious" and in which stationary sources contribute significantly to carbon monoxide levels as determined under rules

issued by the Administrator, sources with the potential to emit 50 tons per year or more of carbon monoxide;

(iv) For PM-10 particulate matter nonattainment areas classified as "serious," sources with the potential to emit 70 tons per year or more of PM-10 particulate matter.

"Non-Road Vehicle" means a vehicle that is powered by an internal combustion engine (including the fuel system), that is not a self-propelled vehicle designed for transporting persons or property on a street or highway or a vehicle used solely for competition, and is not subject to standards promulgated under Section 111 of the Act (New Source Performance Standards) or Section 202 of the Act (Motor Vehicle Emission Standards).

"Operating permit" or "permit," unless the context suggests otherwise, means any permit or group of permits covering a Part 70 source that is issued, renewed, amended, or revised pursuant to these rules.

"Part 70 Source" means any source subject to the permitting requirements of R307-415, as provided in R307-415-4.

"Permit modification" means a revision to an operating permit that meets the requirements of R307-415-7f.

"Permit revision" means any permit modification or administrative permit amendment.

"Permit shield" means the permit shield as described in R307-415-6f.

"Proposed permit" means the version of a permit that the director proposes to issue and forwards to EPA for review in compliance with R307-415-8.

"Renewal" means the process by which a permit is reissued at the end of its term.

"Responsible official" means one of the following:

(a) For a corporation: a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either:

(i) the operating facilities employ more than 250 persons or have gross annual sales or expenditures exceeding $25 million in second quarter 1980 dollars; or

(ii) the delegation of authority to such representative is approved in advance by the director;

(b) For a partnership or sole proprietorship: a general partner or the proprietor, respectively;

(c) For a municipality, State, Federal, or other public agency: either a principal executive officer or ranking elected official. For the purposes of R307-415, a principal executive officer of a Federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency;

(d) For Title IV affected sources:

(i) The designated representative in so far as actions, standards, requirements, or prohibitions under Title IV of the Act, Acid Deposition Control, or the regulations promulgated thereunder are concerned;

(ii) The responsible official as defined above for any other purposes under R307-415.

"Stationary source" means any building, structure, facility, or installation that emits or may emit any regulated air pollutant or any hazardous air pollutant.

"Title IV Affected source" means a source that contains one or more affected units as defined in Section 402 of the Act and in 40 CFR, Part 72.

R307-415-4. Applicability.

(1) Part 70 sources. All of the following sources are subject to the permitting requirements of R307-415, and unless exempted under (2) below are required to submit an application for an operating permit:

(a) Any major source;

(b) Any source, including an area source, subject to a standard, limitation, or other requirement under Section 111 of the Act, Standards of Performance for New Stationary Sources;

(c) Any source, including an area source, subject to a standard or other requirement under Section 112 of the Act, Hazardous Air Pollutants, except that a source is not required to obtain a permit solely because it is subject to regulations or requirements under Section 112(r) of the Act, Prevention of Accidental Releases;

(d) Any Title IV affected source.

(2) Exemptions.

(a) All source categories that would be required to obtain an operating permit solely because they are subject to 40 CFR Part 60, Subpart AAA - Standards of Performance for New Residential Wood Heaters, are exempted from the requirement to obtain a permit.

(b) All source categories that would be required to obtain an operating permit solely because they are subject to 40 CFR Part 61, Subpart M - National Emission Standard for Hazardous Air Pollutants for Asbestos, Section 61.145, Standard for Demolition and Renovation, are exempted from the requirement to obtain a permit. For Part 70 sources, demolition and renovation activities within the source under 40 CFR 61.145 shall be treated as a separate source for the purpose of R307-415.

(c) An area source subject to a regulation under Section 111 or 112 of the Act (42 U.S.C. 7411 or 7412) promulgated after July 21, 1992 is exempt from the obligation to obtain a Part 70 permit if:

(i) the regulation specifically exempts the area source category from the obligation to obtain a Part 70 permit, and

(ii) the source is not required to obtain a permit under R307-415-4(1) for a reason other than its status as an area source under the Section 111 or 112 regulation containing the exemption.

(3) Emissions units and Part 70 sources.

(a) For major sources, the director shall include in the permit all applicable requirements for all relevant emissions units in the major source.

(b) For any area source subject to the operating permit program under R307-415-4(1), the director shall include in the permit all applicable requirements applicable to emissions units that cause the source to be subject to the operating permit program.

(4) Fugitive emissions. Fugitive emissions and fugitive dust from a Part 70 source shall be included in the permit application and the operating permit in the same manner as stack emissions, regardless of whether the source category in question is included in the list of source categories contained in the definition of major source.

(5) Control requirements. R307-415 does not establish any new control requirements beyond those established by applicable requirements, but may establish new monitoring, recordkeeping, and reporting requirements.

(6) Synthetic minors. An existing source that wishes to avoid designation as a major Part 70 source under R307-415, must obtain federally-enforceable conditions which reduce the potential to emit, as defined in R307-101-2, to less than the level established for a major Part 70 source. Such federally-enforceable conditions may be obtained by applying for and receiving an approval order under R307-401. The approval order shall contain periodic monitoring, recordkeeping, and reporting requirements sufficient to verify continuing compliance with the conditions which would reduce the source's potential to emit.

R307-415-5a. Permit Applications: Duty to Apply.

For each Part 70 source, the owner or operator shall submit a timely and complete permit application. A pre-application conference may be held at the request of a Part 70 source or the director to assist a source in submitting a complete application.

(1) Timely application.

(a) Except as provided in the transition plan under (3) below, a timely application for a source applying for an operating permit for the first time is one that is submitted within 12 months after the source becomes subject to the permit program.

(b) Except as provided in the transition plan under (3) below, any Part 70 source required to meet the requirements under Section 112(g) of the Act, Hazardous Air Pollutant Modifications, or required to receive an approval order to construct a new source or modify an existing source under R307-401, shall file a complete application to obtain an operating permit or permit revision within 12 months after commencing operation of the newly constructed or modified source. Where an existing operating permit would prohibit such construction or change in operation, the source must obtain a permit revision before commencing operation.

(c) For purposes of permit renewal, a timely application is

one that is submitted by the renewal date established in the permit. The director shall establish a renewal date for each permit that is at least six months and not greater than 18 months prior to the date of permit expiration. A source may submit a permit application early for any reason, including timing of other application requirements.

(2) Complete application.

(a) To be deemed complete, an application must provide all information sufficient to evaluate the subject source and its application and to determine all applicable requirements pursuant to R307-415-5c. Applications for permit revision need supply such information only if it is related to the proposed change. A responsible official shall certify the submitted information consistent with R307-415-5d.

(b) Unless the director notifies the source in writing within 60 days of receipt of the application that an application is not complete, such application shall be deemed to be complete. A completeness determination shall not be required for minor permit modifications. If, while processing an application that has been determined or deemed to be complete, the director determines that additional information is necessary to evaluate or take final action on that application, the director may request such information in writing and set a reasonable deadline for a response. The source's ability to operate without a permit, as set forth in R307-415-7b(2), shall be in effect from the date the application is determined or deemed to be complete until the final permit is issued, provided that the applicant submits any requested additional information by the deadline specified in writing by the director.

(3) Transition Plan. A timely application under the transition plan is an application that is submitted according to the following schedule:

(a) All Title IV affected sources shall submit an operating permit application as well as an acid rain permit application in accordance with the date required by 40 CFR Part 72 effective April 11, 1995, Subpart C-Acid Rain Permit Applications;

(b) All major Part 70 sources operating as of July 10, 1995, except those described in (a) above, and all solid waste incineration units operating as of July 10, 1995, that are required to obtain an operating permit pursuant to 42 U.S.C. Sec. 7429(e) shall submit a permit application by October 10, 1995.

(c) Area sources.

(i) Except as provided in (c)(ii) and (c)(iii) below, each Part 70 source that is not a major source, a Title IV affected source, or a solid waste incineration unit required to obtain a permit pursuant to section 129(e) (42 U.S.C. 7429), is deferred from the obligation to submit an application until 12 months after the Administrator completes a rulemaking to determine how the program should be structured for area sources and the appropriateness of any permanent exemptions in addition to those provided in R307-415-4(2).

(ii) General Permits.

(A) The director shall develop general permits and application forms for area source categories.

(B) After a general permit has been issued for a source category, the director shall establish a due date for permit applications from all area sources in that source category.

(C) The director shall provide at least six months notice that the application is due for a source category.

(iii) Regulation-specific Requirements.

(A) If a regulation promulgated under Section 111 or 112 (42 U.S.C. 7411 or 7412) requires an area source category to submit an application for a Part 70 permit, each area source covered by the requirement must submit an application in accordance with the regulation.

(d) Extensions. The owner or operator of any Part 70 source may petition the director for an extension of the application due date for good cause. The due date for major Part 70 sources shall not be extended beyond July 10, 1996. The due date for an area source shall not be extended beyond twelve months after the due date in (c)(i) above.

(e) Application shield. If a source submits a timely and complete application under this transition plan, the application shield under R307-415-7b(2) shall apply to the source. If a source submits a timely application and is making sufficient progress toward correcting an application determined to be incomplete, the director may extend the application shield under R307-415-7b(2) to the source when the application is determined complete. The application shield shall not be extended to any major source that has not submitted a complete application by July 10, 1996, or to any area source that has not submitted a complete application within twelve months after the due date in (c)(i) above.

(4) Confidential information. Claims of confidentiality on information submitted to EPA may be made pursuant to applicable federal requirements. Claims of confidentiality on information submitted to the Department shall be made and governed according to Section 19-1-306. In the case where a source has submitted information to the Department under a claim of confidentiality that also must be submitted to the EPA, the director shall either submit the information to the EPA under Section 19-1-306, or require the source to submit a copy of such information directly to EPA.

(5) Late applications. An application submitted after the deadlines established in R307-415-5a shall be accepted for processing, but shall not be considered a timely application. Submitting an application shall not relieve a source of any enforcement actions resulting from submitting a late application.

R307-415-5b. Permit Applications: Duty to Supplement or Correct Application.

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal,

promptly submit such supplementary facts or corrected information. In addition, an applicant shall provide additional information as necessary to address any requirements that become applicable to the source after the date it filed a complete application but prior to release of a draft permit.

R307-415-5c. Permit Applications: Standard Requirements.

Information as described below for each emissions unit at a Part 70 source shall be included in the application except for insignificant activities and emissions levels under R307-415-5e. The operating permit application shall include the elements specified below:

(1) Identifying information, including company name, company address, plant name and address if different from the company name and address, owner's name and agent, and telephone number and names of plant site manager or contact.

(2) A description of the source's processes and products by Standard Industrial Classification Code, including any associated with each alternate scenario identified by the source.

(3) The following emissions-related information:

(a) A permit application shall describe the potential to emit of all air pollutants for which the source is major, and the potential to emit of all regulated air pollutants and hazardous air pollutants from any emissions unit, except for insignificant activities and emissions under R307-415-5e. For emissions of hazardous air pollutants under 1,000 pounds per year, the following ranges may be used in the application: 1-10 pounds per year, 11-499 pounds per year, 500-999 pounds per year. The mid-point of the range shall be used to calculate the emission fee under R307-415-9 for hazardous air pollutants reported as a range.

(b) Identification and description of all points of emissions described in (a) above in sufficient detail to establish the basis for fees and applicability of applicable requirements.

(c) Emissions rates in tons per year and in such terms as are necessary to establish compliance with applicable requirements consistent with the applicable standard reference test method.

(d) The following information to the extent it is needed to determine or regulate emissions: fuels, fuel use, raw materials, production rates, and operating schedules.

(e) Identification and description of air pollution control equipment and compliance monitoring devices or activities.

(f) Limitations on source operation affecting emissions or any work practice standards, where applicable, for all regulated air pollutants and hazardous air pollutants at the Part 70 source.

(g) Other information required by any applicable requirement, including information related to stack height limitations developed pursuant to Section 123 of the Act.

(h) Calculations on which the information in items (a) through (g) above is based.

(4) The following air pollution control requirements:

(a) Citation and description of all applicable requirements, and

(b) Description of or reference to any applicable test method for determining compliance with each applicable requirement.

(5) Other specific information that may be necessary to implement and enforce applicable requirements or to determine the applicability of such requirements.

(6) An explanation of any proposed exemptions from otherwise applicable requirements.

(7) Additional information as determined to be necessary by the director to define alternative operating scenarios identified by the source pursuant to R307-415-6a(9) or to define permit terms and conditions implementing emission trading under R307-415-7d(1)(c) or R307-415-6a(10).

(8) A compliance plan for all Part 70 sources that contains all of the following:

(a) A description of the compliance status of the source with respect to all applicable requirements.

(b) A description as follows:

(i) For applicable requirements with which the source is in compliance, a statement that the source will continue to comply with such requirements.

(ii) For applicable requirements that will become effective during the permit term, a statement that the source will meet such requirements on a timely basis.

(iii) For requirements for which the source is not in compliance at the time of permit issuance, a narrative description of how the source will achieve compliance with such requirements.

(c) A compliance schedule as follows:

(i) For applicable requirements with which the source is in compliance, a statement that the source will continue to comply with such requirements.

(ii) For applicable requirements that will become effective during the permit term, a statement that the source will meet such requirements on a timely basis. A statement that the source will meet in a timely manner applicable requirements that become effective during the permit term shall satisfy this provision, unless a more detailed schedule is expressly required by the applicable requirement.

(iii) A schedule of compliance for sources that are not in compliance with all applicable requirements at the time of permit issuance. Such a schedule shall include a schedule of remedial measures, including an enforceable sequence of actions with milestones, leading to compliance with any applicable requirements for which the source will be in noncompliance at the time of permit issuance. This compliance schedule shall resemble and be at least as stringent as that contained in any judicial consent decree or administrative order to which the source is subject. Any such schedule of compliance shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based.

(d) A schedule for submission of certified progress reports every six months, or more frequently if specified by the

underlying applicable requirement or by the director, for sources required to have a schedule of compliance to remedy a violation.

(e) The compliance plan content requirements specified in this paragraph shall apply and be included in the acid rain portion of a compliance plan for a Title IV affected source, except as specifically superseded by regulations promulgated under Title IV of the Act, Acid Deposition Control, with regard to the schedule and methods the source will use to achieve compliance with the acid rain emissions limitations.

(9) Requirements for compliance certification, including all of the following:

(a) A certification of compliance with all applicable requirements by a responsible official consistent with R307-415-5d and Section 114(a)(3) of the Act, Enhanced Monitoring and Compliance Certification.

(b) A statement of methods used for determining compliance, including a description of monitoring, recordkeeping, and reporting requirements and test method.

(c) A schedule for submission of compliance certifications during the permit term, to be submitted annually, or more frequently if specified by the underlying applicable requirement or by the director.

(d) A statement indicating the source's compliance status with any applicable enhanced monitoring and compliance certification requirements of the Act.

(10) Nationally-standardized forms for acid rain portions of permit applications and compliance plans, as required by regulations promulgated under Title IV of the Act, Acid Deposition Control.

R307-415-5d. Permit Applications: Certification.

Any application form, report, or compliance certification submitted pursuant to R307-415 shall contain certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required under R307-415 shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

R307-415-5e. Permit Applications: Insignificant Activities and Emissions.

An application may not omit information needed to determine the applicability of, or to impose, any applicable requirement, or to evaluate the fee amount required under R307-415-9. The following lists apply only to operating permit applications and do not affect the applicability of R307-415 to a source, do not affect the requirement that a source receive an approval order under R307-401, and do not relieve a source of the responsibility to comply with any applicable requirement.

(1) The following insignificant activities and emission levels are not required to be included in the permit application.

(a) Exhaust systems for controlling steam and heat that do

not contain combustion products, except for systems that are subject to an emission standard under any applicable requirement.

(b) Air pollutants that are present in process water or non-contact cooling water as drawn from the environment or from municipal sources, or air pollutants that are present in compressed air or in ambient air, which may contain air pollution, used for combustion.

(c) Air conditioning or ventilating systems not designed to remove air pollutants generated by or released from other processes or equipment.

(d) Disturbance of surface areas for purposes of land development, not including mining operations or the disturbance of contaminated soil.

(e) Brazing, soldering, or welding operations.

(f) Aerosol can usage.

(g) Road and parking lot paving operations, not including asphalt, sand and gravel, and cement batch plants.

(h) Fire training activities that are not conducted at permanent fire training facilities.

(i) Landscaping, janitorial, and site housekeeping activities, including fugitive emissions from landscaping activities.

(j) Architectural painting.

(k) Office emissions, including cleaning, copying, and restrooms.

(l) Wet wash aggregate operations that are solely dedicated to this process.

(m) Air pollutants that are emitted from personal use by employees or other persons at the source, such as foods, drugs, or cosmetics.

(n) Air pollutants that are emitted by a laboratory at a facility under the supervision of a technically qualified individual as defined in 40 CFR 720.3(ee); however, this exclusion does not apply to specialty chemical production, pilot plant scale operations, or activities conducted outside the laboratory.

(o) Maintenance on petroleum liquid handling equipment such as pumps, valves, flanges, and similar pipeline devices and appurtenances when purged and isolated from normal operations.

(p) Portable steam cleaning equipment.

(q) Vents on sanitary sewer lines.

(r) Vents on tanks containing no volatile air pollutants, e.g., any petroleum liquid, not containing Hazardous Air Pollutants, with a Reid Vapor Pressure less than 0.05 psia.

(2) The following insignificant activities are exempted because of size or production rate and a list of such insignificant activities must be included in the application. The director may require information to verify that the activity is insignificant.

(a) Emergency heating equipment, using coal, wood, kerosene, fuel oil, natural gas, or LPG for fuel, with a rated capacity less than 50,000 BTU per hour.

(b) Individual emissions units having the potential to emit

less than one ton per year per pollutant of PM10 particulate matter, nitrogen oxides, sulfur dioxide, volatile organic compounds, or carbon monoxide, unless combined emissions from similar small emission units located within the same Part 70 source are greater than five tons per year of any one pollutant. This does not include emissions units that emit air pollutants other than PM10 particulate matter, nitrogen oxides, sulfur dioxide, volatile organic compounds, or carbon monoxide.

(c) Petroleum industry flares, not associated with refineries, combusting natural gas containing no hydrogen sulfide except in amounts less than 500 parts per million by weight, and having the potential to emit less than five tons per year per air pollutant.

(d) Road sweeping.

(e) Road salting and sanding.

(f) Unpaved public and private roads, except unpaved haul roads located within the boundaries of a stationary source. A haul road means any road normally used to transport people, livestock, product or material by any type of vehicle.

(g) Non-commercial automotive (car and truck) service stations dispensing less than 6,750 gal. of gasoline/month

(h) Hazardous Air Pollutants present at less than 1% concentration, or 0.1% for a carcinogen, in a mixture used at a rate of less than 50 tons per year, provided that a National Emission Standards for Hazardous Air Pollutants standard does not specify otherwise.

(i) Fuel-burning equipment, in which combustion takes place at no greater pressure than one inch of mercury above ambient pressure, with a rated capacity of less than five million BTU per hour using no other fuel than natural gas, or LPG or other mixed gas distributed by a public utility.

(j) Comfort heating equipment (i.e., boilers, water heaters, air heaters and steam generators) with a rated capacity of less than one million BTU per hour if fueled only by fuel oil numbers 1 - 6.

(3) Any person may petition the Board to add an activity or emission to the list of Insignificant Activities and Emissions which may be excluded from an operating permit application under (1) or (2) above upon a change in the rule and approval of the rule change by EPA. The petition shall include the following information:

(a) A complete description of the activity or emission to be added to the list.

(b) A complete description of all air pollutants that may be emitted by the activity or emission, including emission rate, air pollution control equipment, and calculations used to determine emissions.

(c) An explanation of why the activity or emission should be exempted from the application requirements for an operating permit.

(4) The director may determine on a case-by-case basis, insignificant activities and emissions for an individual Part 70

source that may be excluded from an application or that must be listed in the application, but do not require a detailed description. No activity with the potential to emit greater than two tons per year of any criteria pollutant, five tons of a combination of criteria pollutants, 500 pounds of any hazardous air pollutant or one ton of a combination of hazardous air pollutants shall be eligible to be determined an insignificant activity or emission under this subsection (4).

R307-415-6a. Permit Content: Standard Requirements.

Each permit issued under R307-415 shall include the following elements:

(1) Emission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of permit issuance;

(a) The permit shall specify and reference the origin of and authority for each term or condition, and identify any difference in form as compared to the applicable requirement upon which the term or condition is based.

(b) The permit shall state that, where an applicable requirement is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, Acid Deposition Control, both provisions shall be incorporated into the permit.

(c) If the State Implementation Plan allows a determination of an alternative emission limit at a Part 70 source, equivalent to that contained in the State Implementation Plan, to be made in the permit issuance, renewal, or significant modification process, and the director elects to use such process, any permit containing such equivalency determination shall contain provisions to ensure that any resulting emissions limit has been demonstrated to be quantifiable, accountable, enforceable, and based on replicable procedures.

(2) Permit duration. Except as provided by Section 19-2-109.1(3), the director shall issue permits for a fixed term of five years.

(3) Monitoring and related recordkeeping and reporting requirements.

(a) Each permit shall contain the following requirements with respect to monitoring:

(i) All monitoring and analysis procedures or test methods required under applicable monitoring and testing requirements, including 40 CFR Part 64 and any other procedures and methods that may be promulgated pursuant to sections 114(a)(3) or 504(b) of the Act. If more than one monitoring or testing requirement applies, the permit may specify a streamlined set of monitoring or testing provisions provided the specified monitoring or testing is adequate to assure compliance at least to the same extent as the monitoring or testing applicable requirements that are not included in the permit as a result of such streamlining;

(ii) Where the applicable requirement does not require periodic testing or instrumental or noninstrumental monitoring, which may consist of recordkeeping designed to serve as

monitoring, periodic monitoring sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the permit, as reported pursuant to (3)(c) below. Such monitoring requirements shall assure use of terms, test methods, units, averaging periods, and other statistical conventions consistent with the applicable requirement. Recordkeeping provisions may be sufficient to meet the requirements of this paragraph;

(iii) As necessary, requirements concerning the use, maintenance, and, where appropriate, installation of monitoring equipment or methods.

(b) With respect to recordkeeping, the permit shall incorporate all applicable recordkeeping requirements and require, where applicable, the following:

(i) Records of required monitoring information that include the following:

(A) The date, place as defined in the permit, and time of sampling or measurements;

(B) The dates analyses were performed;

(C) The company or entity that performed the analyses;

(D) The analytical techniques or methods used;

(E) The results of such analyses;

(F) The operating conditions as existing at the time of sampling or measurement;

(ii) Retention of records of all required monitoring data and support information for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

(c) With respect to reporting, the permit shall incorporate all applicable reporting requirements and require all of the following:

(i) Submittal of reports of any required monitoring every six months, or more frequently if specified by the underlying applicable requirement or by the director. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with R307-415-5d.

(ii) Prompt reporting of deviations from permit requirements including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken. The director shall define "prompt" in relation to the degree and type of deviation likely to occur and the applicable requirements. Deviations from permit requirements due to unavoidable breakdowns shall be reported according to the unavoidable breakdown provisions of R307-107. The director may establish more stringent reporting deadlines if required by the applicable requirement.

(d) Claims of confidentiality shall be governed by Section 19-1-306.

(4) Acid Rain Allowances. For Title IV affected sources, a permit condition prohibiting emissions exceeding any allowances that the source lawfully holds under Title IV of the Act or the regulations promulgated thereunder.

(a) No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the Acid Rain Program, provided that such increases do not require a permit revision under any other applicable requirement.

(b) No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement.

(c) Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Act.

(5) A severability clause to ensure the continued validity of the various permit requirements in the event of a challenge to any portions of the permit.

(6) Standard provisions stating the following:

(a) The permittee must comply with all conditions of the operating permit. Any permit noncompliance constitutes a violation of the Air Conservation Act and is grounds for any of the following: enforcement action; permit termination; revocation and reissuance; modification; denial of a permit renewal application.

(b) Need to halt or reduce activity not a defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(c) The permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition, except as provided under R307-415-7f(1) for minor permit modifications.

(d) The permit does not convey any property rights of any sort, or any exclusive privilege.

(e) The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the director copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality.

(7) Emission fee. A provision to ensure that a Part 70 source pays fees to the director consistent with R307-415-9.

(8) Emissions trading. A provision stating that no permit revision shall be required, under any approved economic

incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in the permit.

(9) Alternate operating scenarios. Terms and conditions for reasonably anticipated operating scenarios identified by the source in its application as approved by the director. Such terms and conditions:

(a) Shall require the source, contemporaneously with making a change from one operating scenario to another, to record in a log at the permitted facility a record of the scenario under which it is operating;

(b) Shall extend the permit shield to all terms and conditions under each such operating scenario; and

(c) Must ensure that the terms and conditions of each such alternative scenario meet all applicable requirements and the requirements of R307-415.

(10) Emissions trading. Terms and conditions, if the permit applicant requests them, for the trading of emissions increases and decreases in the permitted facility, to the extent that the applicable requirements provide for trading such increases and decreases without a case-by-case approval of each emissions trade. Such terms and conditions:

(a) Shall include all terms required under R307-415-6a and 6c to determine compliance;

(b) Shall extend the permit shield to all terms and conditions that allow such increases and decreases in emissions; and

(c) Must meet all applicable requirements and requirements of R307-415.

R307-415-6b. Permit Content: Federally-Enforceable Requirements.

(1) All terms and conditions in an operating permit, including any provisions designed to limit a source's potential to emit, are enforceable by EPA and citizens under the Act.

(2) Notwithstanding (1) above, applicable requirements that are not required by the Act or implementing federal regulations shall be included in the permit but shall be specifically designated as being not federally enforceable under the Act and shall be designated as "state requirements." Terms and conditions so designated are not subject to the requirements of R307-415-7a through 7i and R307-415-8 that apply to permit review by EPA and affected states. The director shall determine which conditions are "state requirements" in each operating permit.

R307-415-6c. Permit Content: Compliance Requirements.

All operating permits shall contain all of the following elements with respect to compliance:

(1) Consistent with R307-415-6a(3), compliance certification, testing, monitoring, reporting, and recordkeeping requirements sufficient to assure compliance with the terms and conditions of the permit. Any document, including any report, required by an operating permit shall contain a certification by a

responsible official that meets the requirements of R307-415-5d;

(2) Inspection and entry requirements that require that, upon presentation of credentials and other documents as may be required by law, the permittee shall allow the director or an authorized representative to perform any of the following:

(a) Enter upon the permittee's premises where a Part 70 source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;

(c) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;

(d) Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements;

(e) Claims of confidentiality on the information obtained during an inspection shall be made pursuant to Section 19-1-306;

(3) A schedule of compliance consistent with R307-415-5c(8);

(4) Progress reports consistent with an applicable schedule of compliance and R307-415-5c(8) to be submitted semiannually, or at a more frequent period if specified in the applicable requirement or by the director. Such progress reports shall contain all of the following:

(a) Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved;

(b) An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted;

(5) Requirements for compliance certification with terms and conditions contained in the permit, including emission limitations, standards, or work practices. Permits shall include all of the following:

(a) Annual submission of compliance certification, or more frequently if specified in the applicable requirement or by the director;

(b) In accordance with R307-415-6a(3), a means for monitoring the compliance of the source with its emissions limitations, standards, and work practices;

(c) A requirement that the compliance certification include all of the following (provided that the identification of applicable information may reference the permit or previous reports, as applicable):

(i) The identification of each term or condition of the permit that is the basis of the certification;

(ii) The identification of the methods or other means used by the owner or operator for determining the compliance status with each term and condition during the certification period. Such methods and other means shall include, at a minimum, the methods and means required under R307-415-6a(3). If necessary, the owner or operator also shall identify any other material

information that must be included in the certification to comply with section 113(c)(2) of the Act, which prohibits knowingly making a false certification or omitting material information;

(iii) The status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the method or means designated in (ii) above. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 occurred; and

(iv) Such other facts as the director may require to determine the compliance status of the source;

(d) A requirement that all compliance certifications be submitted to the EPA as well as to the director;

(e) Such additional requirements as may be specified pursuant to Section 114(a)(3) of the Act, Enhanced Monitoring and Compliance Certification, and Section 504(b) of the Act, Monitoring and Analysis;

(6) Such other provisions as the director may require.

R307-415-6d. Permit Content: General Permits.

(1) The director may, after notice and opportunity for public participation provided under R307-415-7i, issue a general permit covering numerous similar sources. Any general permit shall comply with all requirements applicable to other operating permits and shall identify criteria by which sources may qualify for the general permit. To sources that qualify, the director shall grant the conditions and terms of the general permit. Notwithstanding the permit shield, the source shall be subject to enforcement action for operation without an operating permit if the source is later determined not to qualify for the conditions and terms of the general permit. General permits shall not be issued for Title IV affected sources under the Acid Rain Program unless otherwise provided in regulations promulgated under Title IV of the Act.

(2) Part 70 sources that would qualify for a general permit must apply to the director for coverage under the terms of the general permit or must apply for an operating permit consistent with R307-415-5a through 5e. The director may, in the general permit, provide for applications which deviate from the requirements of R307-415-5a through 5e, provided that such applications meet the requirements of Title V of the Act, and include all information necessary to determine qualification for, and to assure compliance with, the general permit. Without repeating the public participation procedures required under R307-415-7i, the director may grant a source's request for authorization to operate under a general permit, but such a grant to a qualified source shall not be a final permit action until the requirements of R307-415-5a through 5e have been met.

R307-415-6e. Permit Content: Temporary Sources.

The owner or operator of a permitted source may temporarily relocate the source for a period not to exceed that allowed by R307-401-7. A permit modification is required to relocate the source for a period longer than that allowed by R307-401-7. No Title IV affected source may be permitted as a temporary source. Permits for temporary sources shall include all of the following:

(1) Conditions that will assure compliance with all applicable requirements at all authorized locations;

(2) Requirements that the owner or operator receive approval to relocate under R307-401-7 before operating at the new location;

(3) Conditions that assure compliance with all other provisions of R307-415.

R307-415-6f. Permit Content: Permit Shield.

(1) Except as provided in R307-415, the director shall include in each operating permit a permit shield provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:

(a) Such applicable requirements are included and are specifically identified in the permit; or

(b) The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.

(2) An operating permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.

(3) Nothing in this paragraph or in any operating permit shall alter or affect any of the following:

(a) The emergency provisions of Section 19-1-202 and Section 19-2-112, and the provisions of Section 303 of the Act, Emergency Orders, including the authority of the Administrator under that Section;

(b) The liability of an owner or operator of a source for any violation of applicable requirements under Section 19-2-107(2)(g) and Section 19-2-110 prior to or at the time of permit issuance;

(c) The applicable requirements of the Acid Rain Program, consistent with Section 408(a) of the Act;

(d) The ability of the director to obtain information from a source under Section 19-2-120, and the ability of EPA to obtain information from a source under Section 114 of the Act, Inspection, Monitoring, and Entry.

R307-415-6g. Permit Content: Emergency Provision.

(1) Emergency. An "emergency" is any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that

causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

(2) Effect of an emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of (3) below are met.

(3) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

(a) An emergency occurred and that the permittee can identify the causes of the emergency;

(b) The permitted facility was at the time being properly operated;

(c) During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

(d) The permittee submitted notice of the emergency to the director within two working days of the time when emission limitations were exceeded due to the emergency. This notice fulfills the requirement of R307-415-6a(3)(c)(ii). This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(4) In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.

(5) This provision is in addition to any emergency or upset provision contained in any applicable requirement.

R307-415-7a. Permit Issuance: Action on Application.

(1) A permit, permit modification, or renewal may be issued only if all of the following conditions have been met:

(a) The director has received a complete application for a permit, permit modification, or permit renewal, except that a complete application need not be received before issuance of a general permit;

(b) Except for modifications qualifying for minor permit modification procedures under R307-415-7f(1)and (2), the director has complied with the requirements for public participation under R307-415-7i;

(c) The director has complied with the requirements for notifying and responding to affected States under R307-415-8(2);

(d) The conditions of the permit provide for compliance with all applicable requirements and the requirements of R307-415;

(e) EPA has received a copy of the proposed permit and any notices required under R307-415-8(1) and (2), and has not objected to issuance of the permit under R307-415-8(3) within the time period specified therein.

(2) Except as provided under the initial transition plan provided for under R307-415-5a(3) or under regulations promulgated

under Title IV of the Act for the permitting of Title IV affected sources under the Acid Rain Program, the director shall take final action on each permit application, including a request for permit modification or renewal, within 18 months after receiving a complete application.

(3) The director shall promptly provide notice to the applicant of whether the application is complete. Unless the director requests additional information or otherwise notifies the applicant of incompleteness within 60 days of receipt of an application, the application shall be deemed complete. A completeness determination shall not be required for minor permit modifications.

(4) The director shall provide a statement that sets forth the legal and factual basis for the draft permit conditions, including references to the applicable statutory or regulatory provisions. The director shall send this statement to EPA and to any other person who requests it.

(5) The submittal of a complete application shall not affect the requirement that any source have an approval order under R307-401.

R307-415-7b. Permit Issuance: Requirement for a Permit.

(1) Except as provided in R307-415-7d and R307-415-7f(1)(f)and 7f(2)(e), no Part 70 source may operate after the time that it is required to submit a timely and complete application, except in compliance with a permit issued under these rules.

(2) Application shield. If a Part 70 source submits a timely and complete application for permit issuance, including for renewal, the source's failure to have an operating permit is not a violation of R307-415 until the director takes final action on the permit application. This protection shall cease to apply if, subsequent to the completeness determination made pursuant to R307-415-7a(3), and as required by R307-415-5a(2), the applicant fails to submit by the deadline specified in writing by the director any additional information identified as being needed to process the application.

R307-415-7c. Permit Renewal and Expiration.

(1) Permits being renewed are subject to the same procedural requirements, including those for public participation, affected State and EPA review, that apply to initial permit issuance.

(2) Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with R307-415-7b and R307-415-5a(1)(c).

(3) If a timely and complete renewal application is submitted consistent with R307-415-7b and R307-415-5a(1)(c)and the director fails to issue or deny the renewal permit before the end of the term of the previous permit, then all of the terms and conditions of the permit, including the permit shield, shall remain in effect until renewal or denial.

R307-415-7d. Permit Revision: Changes That Do Not Require a

Revision.

(1) Operational Flexibility.

(a) A Part 70 source may make changes that contravene an express permit term if all of the following conditions have been met:

(i) The source has obtained an approval order, or has met the exemption requirements under R307-401;

(ii) The change would not violate any applicable requirements or contravene any federally enforceable permit terms and conditions for monitoring, including test methods, recordkeeping, reporting, or compliance certification requirements;

(iii) The changes are not modifications under any provision of Title I of the Act; and the changes do not exceed the emissions allowable under the permit, whether expressed therein as a rate of emissions or in terms of total emissions.

(iv) For each such change, the source shall provide written notice to the director and send a copy of the notice to EPA at least seven days before implementing the proposed change. The seven-day requirement may be waived by the director in the case of an emergency. The written notification shall include a brief description of the change within the permitted facility, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change. The permit shield shall not apply to these changes. The source, the EPA, and the director shall attach each such notice to their copy of the relevant permit.

(b) Emission trading under the State Implementation Plan. Permitted sources may trade increases and decreases in emissions in the permitted facility, where the State Implementation Plan provides for such emissions trades, without requiring a permit revision provided the change is not a modification under any provision of Title I of the Act, the change does not exceed the emissions allowable under the permit, and the source notifies the director and the EPA at least seven days in advance of the trade. This provision is available in those cases where the permit does not already provide for such emissions trading.

(i) The written notification required above shall include such information as may be required by the provision in the State Implementation Plan authorizing the emissions trade, including at a minimum, when the proposed change will occur, a description of each such change, any change in emissions, the permit requirements with which the source will comply using the emissions trading provisions of the State Implementation Plan, and the pollutants emitted subject to the emissions trade. The notice shall also refer to the provisions with which the source will comply in the State Implementation Plan and that provide for the emissions trade.

(ii) The permit shield shall not extend to any change made under this paragraph. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the State Implementation

Plan authorizing the emissions trade.

(c) If a permit applicant requests it, the director shall issue permits that contain terms and conditions, including all terms required under R307-415-6a and 6c to determine compliance, allowing for the trading of emissions increases and decreases in the permitted facility solely for the purpose of complying with a federally-enforceable emissions cap that is established in the permit independent of otherwise applicable requirements. Such changes in emissions shall not be allowed if the change is a modification under any provision of Title I of the Act or the change would exceed the emissions allowable under the permit. The permit applicant shall include in its application proposed replicable procedures and permit terms that ensure the emissions trades are quantifiable and enforceable. The director shall not include in the emissions trading provisions any emissions units for which emissions are not quantifiable or for which there are no replicable procedures to enforce the emissions trades. The permit shall also require compliance with all applicable requirements, and shall require the source to notify the director and the EPA in writing at least seven days before making the emission trade.

(i) The written notification shall state when the change will occur and shall describe the changes in emissions that will result and how these increases and decreases in emissions will comply with the terms and conditions of the permit.

(ii) The permit shield shall extend to terms and conditions that allow such increases and decreases in emissions.

(2) Off-permit changes. A Part 70 source may make changes that are not addressed or prohibited by the permit without a permit revision, unless such changes are subject to any requirements under Title IV of the Act or are modifications under any provision of Title I of the Act.

(a) Each such change shall meet all applicable requirements and shall not violate any existing permit term or condition.

(b) Sources must provide contemporaneous written notice to the director and EPA of each such change, except for changes that qualify as insignificant under R307-415-5e. Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirements that would apply as a result of the change.

(c) The change shall not qualify for the permit shield.

(d) The permittee shall keep a record describing changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.

(e) The off-permit provisions do not affect the requirement for a source to obtain an approval order under R307-401.

R307-415-7e. Permit Revision: Administrative Amendments.

(1) An "administrative permit amendment" is a permit revision that:

(a) Corrects typographical errors;

(b) Identifies a change in the name, address, or phone number of any person identified in the permit, or provides a similar minor administrative change at the source;

(c) Requires more frequent monitoring or reporting by the permittee;

(d) Allows for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee has been submitted to the director;

(e) Incorporates into the operating permit the requirements from an approval order issued under R307-401, provided that the procedures for issuing the approval order were substantially equivalent to the permit issuance or modification procedures of R307-415-7a through 7i and R307-415-8, and compliance requirements are substantially equivalent to those contained in R307-415-6a through 6g;

(2) Administrative permit amendments for purposes of the acid rain portion of the permit shall be governed by regulations promulgated under Title IV of the Act.

(3) Administrative permit amendment procedures. An administrative permit amendment may be made by the director consistent with the following:

(a) The director shall take no more than 60 days from receipt of a request for an administrative permit amendment to take final action on such request, and may incorporate such changes without providing notice to the public or affected States provided that the director designates any such permit revisions as having been made pursuant to this paragraph. The director shall take final action on a request for a change in ownership or operational control of a source under (1)(d) above within 30 days of receipt of a request.

(b) The director shall submit a copy of the revised permit to EPA.

(c) The source may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request.

(4) The director shall, upon taking final action granting a request for an administrative permit amendment, allow coverage by the permit shield for administrative permit amendments made pursuant to (1)(e) above which meet the relevant requirements of R307-415-6a through 6g, 7 and 8 for significant permit modifications.

R307-415-7f. Permit Revision: Modification.

The permit modification procedures described in R307-415-7f shall not affect the requirement that a source obtain an approval order under R307-401 before constructing or modifying a source of air pollution. A modification not subject to the requirements of R307-401 shall not require an approval order in addition to the permit modification as described in this section. A permit

modification is any revision to an operating permit that cannot be accomplished under the program's provisions for administrative permit amendments under R307-415-7e. Any permit modification for purposes of the acid rain portion of the permit shall be governed by regulations promulgated under Title IV of the Act.

(1) Minor permit modification procedures.

(a) Criteria. Minor permit modification procedures may be used only for those permit modifications that:

(i) Do not violate any applicable requirement or require an approval order under R307-401;

(ii) Do not involve significant changes to existing monitoring, reporting, or recordkeeping requirements in the permit;

(iii) Do not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis;

(iv) Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject. Such term or condition would include a federally enforceable emissions cap assumed to avoid classification as a modification under any provision of Title I or an alternative emissions limit approved pursuant to regulations promulgated under Section 112(i)(5) of the Act, Early Reduction; and

(v) Are not modifications under any provision of Title I of the Act.

(b) Notwithstanding (1)(a)above and (2)(a) below, minor permit modification procedures may be used for permit modifications involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches, to the extent that such minor permit modification procedures are explicitly provided for in the State Implementation Plan or an applicable requirement.

(c) Application. An application requesting the use of minor permit modification procedures shall meet the requirements of R307-415-5c and shall include all of the following:

(i) A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;

(ii) The source's suggested draft permit;

(iii) Certification by a responsible official, consistent with R307-415-5d, that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used;

(iv) Completed forms for the director to use to notify EPA and affected States as required under R307-415-8.

(d) EPA and affected State notification. Within five working days of receipt of a complete permit modification application, the director shall notify EPA and affected States of the requested permit modification. The director promptly shall

send any notice required under R307-415-8(2)(b) to EPA.

(e) Timetable for issuance. The director may not issue a final permit modification until after EPA's 45-day review period or until EPA has notified the director that EPA will not object to issuance of the permit modification, whichever is first. Within 90 days of the director's receipt of an application under minor permit modification procedures or 15 days after the end of EPA's 45-day review period under R307-415-8(3), whichever is later, the director shall:

(i) Issue the permit modification as proposed;

(ii) Deny the permit modification application;

(iii) Determine that the requested modification does not meet the minor permit modification criteria and should be reviewed under the significant modification procedures; or

(iv) Revise the draft permit modification and transmit to EPA the new proposed permit modification as required by R307-415-8(1).

(f) Source's ability to make change. A Part 70 source may make the change proposed in its minor permit modification application immediately after it files such application if the source has received an approval order under R307-401 or has met the approval order exemption requirements under R307-413-1 through 6. After the source makes the change allowed by the preceding sentence, and until the director takes any of the actions specified in (1)(e)(i) through (iii) above, the source must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time period, the source need not comply with the existing permit terms and conditions it seeks to modify. However, if the source fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against it.

(g) Permit shield. The permit shield under R307-415-6f shall not extend to minor permit modifications.

(2) Group processing of minor permit modifications. Consistent with this paragraph, the director may modify the procedure outlined in (1) above to process groups of a source's applications for certain modifications eligible for minor permit modification processing.

(a) Criteria. Group processing of modifications may be used only for those permit modifications:

(i) That meet the criteria for minor permit modification procedures under (1)(a) above; and

(ii) That collectively are below the following threshold level: 10 percent of the emissions allowed by the permit for the emissions unit for which the change is requested, 20 percent of the applicable definition of major source in R307-415-3, or five tons per year, whichever is least.

(b) Application. An application requesting the use of group processing procedures shall meet the requirements of R307-415-5c and shall include the following:

(i) A description of the change, the emissions resulting

from the change, and any new applicable requirements that will apply if the change occurs.

(ii) The source's suggested draft permit.

(iii) Certification by a responsible official, consistent with R307-415-5d, that the proposed modification meets the criteria for use of group processing procedures and a request that such procedures be used.

(iv) A list of the source's other pending applications awaiting group processing, and a determination of whether the requested modification, aggregated with these other applications, equals or exceeds the threshold set under R307-415-7e(2)(a)(ii).

(v) Certification, consistent with R307-415-5d, that the source has notified EPA of the proposed modification. Such notification need only contain a brief description of the requested modification.

(vi) Completed forms for the director to use to notify EPA and affected States as required under R307-415-8.

(c) EPA and affected State notification. On a quarterly basis or within five business days of receipt of an application demonstrating that the aggregate of a source's pending applications equals or exceeds the threshold level set under (2)(a)(ii) above, whichever is earlier, the director shall notify EPA and affected States of the requested permit modifications. The director shall send any notice required under R307-415-8(2)(b)to EPA.

(d) Timetable for issuance. The provisions of (1)(e) above shall apply to modifications eligible for group processing, except that the director shall take one of the actions specified in (1)(e)(i) through (iv) above within 180 days of receipt of the application or 15 days after the end of EPA's 45-day review period under R307-415-8(3), whichever is later.

(e) Source's ability to make change. The provisions of (1)(f) above shall apply to modifications eligible for group processing.

(f) Permit shield. The provisions of (1)(g) above shall also apply to modifications eligible for group processing.

(3) Significant modification procedures.

(a) Criteria. Significant modification procedures shall be used for applications requesting permit modifications that do not qualify as minor permit modifications or as administrative amendments. Every significant change in existing monitoring permit terms or conditions and every relaxation of reporting or recordkeeping permit terms or conditions shall be considered significant. Nothing herein shall be construed to preclude the permittee from making changes consistent with R307-415 that would render existing permit compliance terms and conditions irrelevant.

(b) Significant permit modifications shall meet all requirements of R307-415, including those for applications, public participation, review by affected States, and review by EPA, as they apply to permit issuance and permit renewal. The director shall complete review on the majority of significant permit modifications within nine months after receipt of a complete

application.

R307-415-7g. Permit Revision: Reopening for Cause.

(1) Each issued permit shall include provisions specifying the conditions under which the permit will be reopened prior to the expiration of the permit. A permit shall be reopened and revised under any of the following circumstances:

(a) New applicable requirements become applicable to a major Part 70 source with a remaining permit term of three or more years. Such a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the terms and conditions of the permit have been extended pursuant to R307-415-7c(3).

(b) Additional requirements, including excess emissions requirements, become applicable to an Title IV affected source under the Acid Rain Program. Upon approval by EPA, excess emissions offset plans shall be deemed to be incorporated into the permit.

(c) The director or EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

(d) EPA or the director determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

(e) Additional applicable requirements are to become effective before the renewal date of the permit and are in conflict with existing permit conditions.

(2) Proceedings to reopen and issue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable.

(3) Reopenings under (1) above shall not be initiated before a notice of such intent is provided to the Part 70 source by the director at least 30 days in advance of the date that the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency.

R307-415-7h. Permit Revision: Reopenings for Cause by EPA.

The director shall, within 90 days after receipt of notification that EPA finds that cause exists to terminate, modify or revoke and reissue a permit, forward to EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate. The director may request a 90-day extension if a new or revised permit application is necessary or if the director determines that the permittee must submit additional information.

R307-415-7i. Public Participation.

The director shall provide for public notice, comment and an opportunity for a hearing on initial permit issuance, significant modifications, reopenings for cause, and renewals, including the following procedures:

(1) Notice shall be given: by publication in a newspaper of general circulation in the area where the source is located; to persons on a mailing list developed by the director, including those who request in writing to be on the list; and by other means if necessary to assure adequate notice to the affected public.

(2) The notice shall identify the Part 70 source; the name and address of the permittee; the name and address of the director; the activity or activities involved in the permit action; the emissions change involved in any permit modification; the name, address, and telephone number of a person from whom interested persons may obtain additional information, including copies of the permit draft, the application, all relevant supporting materials, including any compliance plan or compliance and monitoring certification, and all other materials available to the director that are relevant to the permit decision; a brief description of the comment procedures; and the time and place of any hearing that may be held, including a statement of procedures to request a hearing, unless a hearing has already been scheduled.

(3) The director shall provide such notice and opportunity for participation by affected States as is provided for by R307-415-8.

(4) Timing. The director shall provide at least 30 days for public comment and shall give notice of any public hearing at least 30 days in advance of the hearing.

(5) The director shall keep a record of the commenters and also of the issues raised during the public participation process, and such records shall be available to the public and to EPA.

R307-415-8. Permit Review by EPA and Affected States.

(1) Transmission of information to EPA.

(a) The director shall provide to EPA a copy of each permit application, including any application for permit modification, each proposed permit, and each final operating permit, unless the Administrator has waived this requirement for a category of sources, including any class, type, or size within such category. The applicant may be required by the director to provide a copy of the permit application, including the compliance plan, directly to EPA. Upon agreement with EPA, the director may submit to EPA a permit application summary form and any relevant portion of the permit application and compliance plan, in place of the complete permit application and compliance plan. To the extent practicable, the preceding information shall be provided in computer-readable format compatible with EPA's national database management system.

(b) The director shall keep for five years such records and submit to EPA such information as EPA may reasonably require to ascertain whether the Operating Permit Program complies with the requirements of the Act or of 40 CFR Part 70.

(2) Review by affected States.

(a) The director shall give notice of each draft permit to any affected State on or before the time that the director provides this notice to the public under R307-415-7i, except to the extent R307-415-7f(1) or (2) requires the timing to be different, unless the Administrator has waived this requirement for a category of sources, including any class, type, or size within such category.

(b) The director, as part of the submittal of the proposed permit to EPA, or as soon as possible after the submittal for minor permit modification procedures allowed under R307-415-7f(1) or (2), shall notify EPA and any affected State in writing of any refusal by the director to accept all recommendations for the proposed permit that the affected State submitted during the public or affected State review period. The notice shall include the director's reasons for not accepting any such recommendation. The director is not required to accept recommendations that are not based on applicable requirements or the requirements of R307-415.

(3) EPA objection. If EPA objects to the issuance of a permit in writing within 45 days of receipt of the proposed permit and all necessary supporting information, then the director shall not issue the permit. If the director fails, within 90 days after the date of an objection by EPA, to revise and submit a proposed permit in response to the objection, EPA may issue or deny the permit in accordance with the requirements of the Federal program promulgated under Title V of the Act.

(4) Public petitions to EPA. If EPA does not object in writing under R307-415-8(3), any person may petition EPA under the provisions of 40 CFR 70.8(d) within 60 days after the expiration of EPA's 45-day review period to make such objection. If EPA objects to the permit as a result of a petition, the director shall not issue the permit until EPA's objection has been resolved, except that a petition for review does not stay the effectiveness of a permit or its requirements if the permit was issued after the end of the 45-day review period and prior to an EPA objection. If the director has issued a permit prior to receipt of an EPA objection under this paragraph, EPA may modify, terminate, or revoke such permit, consistent with the procedures in 40 CFR 70.7(g) except in unusual circumstances, and the director may thereafter issue only a revised permit that satisfies EPA's objection. In any case, the source will not be in violation of the requirement to have submitted a timely and complete application.

(5) Prohibition on default issuance. The director shall not issue an operating permit, including a permit renewal or modification, until affected States and EPA have had an opportunity to review the proposed permit as required under this Section.

R307-415-9. Fees for Operating Permits.

(1) Definitions. The following definition applies only to

R307-415-9: "Allowable emissions" are emissions based on the potential to emit stated by the director in an approval order, the State Implementation Plan or an operating permit.

(2) Applicability. As authorized by Section 19-2-109.1, all Part 70 sources must pay an annual fee, based on annual emissions of all chargeable pollutants.

(a) Any Title IV affected source that has been designated as a "Phase I Unit" in a substitution plan approved by the Administrator under 40 CFR Section 72.41 shall be exempted from the requirement to pay an emission fee from January 1, 1995 to December 31, 1999.

(3) Calculation of Annual Emission Fee for a Part 70 Source.

(a) The emission fee shall be calculated for all chargeable pollutants emitted from a Part 70 source, even if only one unit or one chargeable pollutant triggers the applicability of R307-415 to the source.

(i) Fugitive emissions and fugitive dust shall be counted when determining the emission fee for a Part 70 source.

(ii) An emission fee shall not be charged for emissions of any amount of a chargeable pollutant if the emissions are already accounted for within the emissions of another chargeable pollutant.

(iii) An emission fee shall not be charged for emissions of any one chargeable pollutant from any one Part 70 source in excess of 4,000 tons per year.

(iv) Emissions resulting directly from an internal combustion engine for transportation purposes or from a non-road vehicle shall not be counted when calculating chargeable emissions for a Part 70 source.

(b) The emission fee for an existing source prior to the issuance of an operating permit, shall be based on the most recent emission inventory available unless a Part 70 source elected, prior to July 1, 1992, to base the fee for one or more pollutants on allowable emissions established in an approval order or the State Implementation Plan.

(c) The emission fee after the issuance or renewal of an operating permit shall be based on the most recent emission inventory available unless a Part 70 source elects, prior to the issuance or renewal of the permit, to base the fee for one or more chargeable pollutants on allowable emissions for the entire term of the permit.

(d) When a new Part 70 source begins operating, it shall pay an emission fee for that fiscal year, prorated from the date the source begins operating. The emission fee for a new Part 70 source shall be based on allowable emissions until that source has been in operation for a full calendar year, and has submitted an inventory of actual emissions. If a new Part 70 source is not billed in the first billing cycle of its operation, the emission fee shall be calculated using the emissions that would have been used had the source been billed at that time. This fee shall be in addition to any subsequent emission fees.

(e) When a Part 70 source is no longer subject to Part 70,

the emission fee shall be prorated to the date that the source ceased to be subject to Part 70. If the Part 70 source has already paid an emission fee that is greater than the prorated fee, the balance will be refunded.

(i) If that Part 70 source again becomes subject to the emission fee requirements, it shall pay an emission fee for that fiscal year prorated from the date the source again became subject to the emission fee requirements. The fee shall be based on the emission inventory during the last full year of operation. The emission fee shall continue to be based on actual emissions reported for the last full calendar year of operation until that source has been in operation for a full calendar year and has submitted an updated inventory of actual emissions.

(ii) If a Part 70 source has chosen to base the emission fee on allowable emissions, then the prorated fee shall be calculated using allowable emissions.

(f) Modifications. The method for calculating the emission fee for a source shall not be affected by modifications at that source, unless the source demonstrates to the director that another method for calculating chargeable emissions is more representative of operations after the modification has been made.

(g) The director may presume that potential emissions of any chargeable pollutant for the source are equivalent to the actual emissions for the source if recent inventory data are not available.

(4) Collection of Fees.

(a) The emission fee is due on October 1 of each calendar year or 45 days after the source has received notice of the amount of the fee, whichever is later.

(b) The director may require any person who fails to pay the annual emission fee by the due date to pay interest on the fee and a penalty under 19-2-109.1(7)(a).

(c) A person may contest an emission fee assessment, or associated penalty, under 19-2-109.1(8).

KEY: air pollution, greenhouse gases, operating permit, emission fees
Date of Enactment or Last Substantive Amendment: February 4, 2016
Notice of Continuation: June 6, 2012
Authorizing, and Implemented or Interpreted Law: 19-2-109.1; 19-2-104

R307. Environmental Quality, Air Quality.
R307-417. Permits: Acid Rain Sources.
R307-417-1. Part 72 Requirements.

The provisions of 40 CFR Part 72, effective as of the date referenced in R307-101-3, for purposes of implementing an acid rain program that meets the requirements of Title IV of the Clean Air Act, are incorporated into these rules by reference. The term "permitting authority" shall mean the director, and the term "Administrator" shall mean the Administrator of the Environmental

Protection Agency. If the provisions or requirements of 40 CFR Part 72 conflict with or are not included in R307-415, Permits: Operating Permit Requirements, provisions and requirements of 40 CFR Part 72 shall apply and take precedence.

R307-417-2. Part 75 Requirements.

The provisions of 40 CFR Part 75, effective as of the date referenced in R307-101-3, for purposes of implementing an acid rain program that meets the requirements of Title IV of the Clean Air Act, are incorporated into these rules by reference. The term "permitting authority" shall mean the director, and the term "Administrator" shall mean the Administrator of the Environmental Protection Agency. If the provisions or requirements of 40 CFR Part 75 conflict with or are not included in R307-415, Operating Permit Requirements, provisions and requirements of 40 CFR Part 75 shall apply and take precedence.

R307-417-3. Part 76 Requirements.

The provisions of 40 CFR Part 76, effective as of the date referenced in R307-101-3, for purposes of implementing an acid rain program that meets the requirements of Title IV of the Clean Air Act, are incorporated into these rules by reference. The term "permitting authority" shall mean the director, and the term "Administrator" shall mean the Administrator of the Environmental Protection Agency. If the provisions or requirements of 40 CFR Part 76 conflict with or are not included in R307-415, Operating Permit Requirements, provisions and requirements of 40 CFR Part 76 shall apply and take precedence.

KEY: acid rain, air quality, permitting authority, operating permit
Date of Enactment or Last Substantive Amendment: February 8, 2008
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Authorizing, and Implemented or Interpreted Law: 19-2-101; 19-2-104(3)(q)

R307. Environmental Quality, Air Quality.
R307-420. Permits: Ozone Offset Requirements in Davis and Salt Lake Counties.
R307-420-1. Purpose.

The purpose of R307-420 is to maintain the offset provisions of the nonattainment area new source review permitting program in Salt Lake and Davis Counties after the area is redesignated to attainment for ozone. R307-420 also establishes more stringent offset requirements for nitrogen oxides that may be triggered as a contingency measure under the ozone maintenance plan.

R307-420-2. Definitions.

Except as provided in R307-420-2, the definitions in R307-403-1 apply to R307-420.

"Major Source" means:

(1)(a) any stationary source of air pollutants which emits, or has the potential to emit, fifty tons per year or more of volatile organic compounds; or

(b) any stationary source of air pollutants which emits, or has the potential to emit, one hundred tons per year or more of nitrogen oxides; or

(c) any physical change that would occur at a source not qualifying under (1)(a) or (b) as a major source, if the change would constitute a major source by itself.

(2) The fugitive emissions of a stationary source shall not be included in determining whether it is a major stationary source, unless the source belongs to one of the following categories of stationary sources:

(a) Coal cleaning plants (with thermal dryers);

(b) Kraft pulp mills;

(c) Portland cement plants;

(d) Primary zinc smelters;

(e) Iron and steel mills;

(f) Primary aluminum ore reduction plants;

(g) Primary copper smelters;

(h) Municipal incinerators capable of charging more than 250 tons of refuse per day;

(i) Hydrofluoric, sulfuric, or nitric acid plants;

(j) Petroleum refineries;

(k) Lime plants;

(l) Phosphate rock processing plants;

(m) Coke oven batteries;

(n) Sulfur recovery plants;

(o) Carbon black plants (furnace process);

(p) Primary lead smelters;

(q) Fuel conversion plants;

(r) Sintering plants;

(s) Secondary metal production plants;

(t) Chemical process plants;

(u) Fossil-fuel boilers (or combination thereof) totaling more than 250 million British Thermal Units per hour heat input;

(v) Petroleum storage and transfer units with a total storage capacity exceeding 300,000 barrels;

(w) Taconite ore processing plants;

(x) Glass fiber processing plants;

(y) Charcoal production plants;

(z) Fossil fuel-fired steam electric plants of more than 250 million British Thermal Units per hour heat input;

(aa) Any other stationary source category which, as of August 7, 1980, is being regulated under 42 U.S.C. 7411 or 7412 (section 111 or 112 of the federal Clean Air Act).

"Significant" means, for the purposes of determining what is a significant emission increase or a significant net emission increase and therefore a major modification, a rate of emissions that would equal or exceed any of the following rates:

(1) for volatile organic compounds, 25 tons per year,

(2) for nitrogen oxides, 40 tons per year.

R307-420-3. Applicability.

(1) Nitrogen Oxides. Effective August 18, 1997, any new major source or major modification of nitrogen oxides in Davis County or Salt Lake County shall offset the proposed increase in nitrogen oxide emissions by a ratio of 1.15:1 before the director may issue an approval order to construct, modify, or relocate under R307-401.

(2) Volatile Organic Compounds. Effective December 2, 1998 any new major source or major modification of volatile organic compounds in Davis County or Salt Lake County shall offset the proposed increase in volatile organic compound emissions by a ratio of 1.2:1 before the director may issue an approval order to construct, modify, or relocate under R307-401.

(3) The applicability provisions in R307-403-2(1)(a) through (f) and R307-403-2(2) through (7) apply in R307-420 for the limited purpose of determining whether a modification is a major modification for volatile organic compounds or nitrogen oxides. Emissions of other regulated air pollutants shall not be considered in this determination.

R307-420-4. General Requirements.

(1) All emission offsets shall meet the general requirements for calculating and banking emission offsets that are established in R307-403-4, R307-403-7 and R307-403-8.

(2) Emission offset credits generated in Davis County or Salt Lake County may be used in either county.

(3) Offsets may not be traded between volatile organic compounds and nitrogen oxides.

R307-420-5. Contingency Measure: Offsets for Oxides of Nitrogen.

If the nitrogen oxide offset contingency measure described in Section IX, Part D.2.h(3) of the state implementation plan is triggered, the following conditions shall apply in Davis County and Salt Lake County.

(1) Paragraph (1)(b) in the term "major source," which is defined in R307-420-2, shall be changed to read: any stationary source of air pollutants which emits, or has the potential to emit, fifty tons per year or more of nitrogen oxides.

(2) The nitrogen dioxide level that is included in the term "significant," which is defined in R307-420-2, shall be changed from 40 tons per year to 25 tons per year.

(3) The emission offset ratio shall be 1.2:1 for nitrogen oxides.

KEY: air pollution, ozone, offset
Date of Enactment or Last Substantive Amendment: July 1, 2013
Notice of Continuation: June 6, 2012
Authorizing, and Implemented or Interpreted Law: 19-2-104; 19-2-108

R307. Environmental Quality, Air Quality.
R307-421. Permits: PM10 Offset Requirements in Salt Lake County and Utah County.
R307-421-1. Purpose.

The purpose of R307-421 is to require emission reductions from existing sources to offset emission increases from new or modified sources of PM10 precursors in Salt Lake and Utah Counties. The emission offset will minimize growth of PM10 precursors to ensure that these areas will continue to maintain the PM10 and PM2.5 national ambient air quality standards.

R307-421-2. Applicability.

(1) This rule applies to new or modified sources of sulfur dioxide or oxides of nitrogen that are located in or impact Salt Lake County or Utah County.

(2) A new or modified source shall be considered to impact an area if the modeled impact is greater than 1.0 microgram/cubic meter for a one-year averaging period or 3.0 micrograms/cubic meter for a 24-hour averaging period for sulfur dioxide or nitrogen dioxide.

R307-421-3. Offset Requirements.

(1) The owner or operator of any new source that has the potential to emit, or any modified source that would increase sulfur dioxide or oxides of nitrogen in an amount equal to or greater than the levels in (a) and (b) below shall obtain an enforceable emission offset as defined in (a) and (b) below.

(a) For a total of 50 tons/year or greater, an emission offset of 1.2:1 of the emission increase is required.

(b) For a total of 25 tons/year or greater but less than 50 tons/year, an emission offset of 1:1 of the emission increase is required.

R307-421-4. General Requirements.

(1) All emission offsets shall meet the general requirements for calculating and banking emission offsets that are established in R307-403-4, R307-403-7 and R307-403-8.

(2) Emission offsets shall be used only in the county where the credits are generated. In the case of sources located outside of Salt Lake or Utah Counties, the offsets shall be generated in the county where the modeled impact in R307-421-2(2) occurs.

(3) Emission offsets shall not be traded between pollutants.

R307-421-5. Transition Provision.

This rule will become effective in each county on the day that the EPA redesignates the county to attainment for PM10. The PM10 nonattainment area offset provisions in R307-403 will continue to apply until the EPA redesignates each county to attainment for PM10.

KEY: air pollution, offset, PM10, PM2.5
Date of Enactment or Last Substantive Amendment: July 7, 2005

Notice of Continuation: June 6, 2012
Authorizing, and Implemented or Interpreted Law: 19-2-101(1)(a); 19-2-104; 19-2-108

R307. Environmental Quality, Air Quality.
R307-424. Permits: Mercury Requirements for Electric Generating Units.
R307-424-1. Purpose and Applicability.

The purpose of R307-424 is to regulate mercury emissions from any coal-fired electric generating unit (EGU). R307-424 applies to any coal-fired electric generating unit as defined in 40 CFR 60.24.

R307-424-2. Part 70 Permit.

Sources meeting the applicability requirements of R307-424-1 above, and also meeting the applicability requirements of R307-415-4, are required to obtain a mercury (Hg) budget permit in accordance with R307-224-2(1)(a).

R307-424-3. Offset Requirement: Mercury.

Sources meeting the applicability requirements of R307-424-1 above and making application for an approval order under R307-401 shall, in addition to any other requirement for obtaining such approval order, obtain an enforceable offset for any potential increase in mercury emissions in accordance with the following:

(1) The permitted increase in mercury emissions, considering the application of any control method or device, shall be offset by mercury emission credits at a ratio of 1 to 1.1 respectively.

(2) The averaging period for such determinations shall be a 12-month period.

(3) Mercury emission credits must be obtained from an EGU located within the State of Utah, excluding any EGU located on Indian lands within the State.

(4) To preserve reductions in mercury emissions as credits for use in offsetting potential increases, the director must identify such credits in an order issued pursuant to R307- 401 and shall provide a registry to identify the person, private entity or governmental authority that has the right to use or allocate the banked emission reduction credits, and to record any transfers of, or liens on, these rights.

(5) Any emission offsets shall be enforceable by the time a new or modified source commences construction, and, by the time a new or modified source commences operation, any emission offsets shall be in effect and enforceable.

(6) The quantity of mercury emission reductions to be used for credit will be determined in accordance with 40 CFR part 75, or will be based on the best available data reported to the director. To the extent that the EGU has been subject to the requirements of part 75, mercury emissions data shall be the average of the 3 highest annual amounts over the most recent 5-year period. Mercury emission reductions made prior to December

31, 1999 shall not be creditable for such purpose.

(7) R307-424-3 shall not apply to any EGU for which a valid approval order was issued prior to November 17, 2006.

R307-424-4. Emission Rates.

(1) By no later than December 31, 2012, the owner or operator of any EGU with an input heat capacity in excess of 1,500 MMbtu per hour and having commenced operations prior to November 17, 2006, shall demonstrate compliance with at least one of the following:

(a) A maximum emission rate of 6.50×10^{-7} pounds mercury per million btu heat input; or

(b) A minimum of 90% control of total mercury emissions.

(2) Compliance with (1) above shall be based on an annual averaging period beginning January 1 and ending December 31.

(a) Beginning January 1, 2013, compliance shall be determined using the monitoring and recordkeeping requirements incorporated under R307-224-2. Upon completion of each year's fourth quarterly report, an assessment shall be made for the entire calendar year and reported to the director within 30 days.

(b) Where it is necessary to determine the mercury content of the coal or coals burned, the owner or operator shall use the appropriate ASTM method, and shall measure at least one representative sample each month. Records of such testing shall be kept for a period of at least five years, and shall be made available to the director upon request.

(3) Should an EGU be unable to achieve the maximum emission rate or the minimum control efficiency described in (1) above, despite proper operation of the unit in conjunction with a baghouse as well as wet or dry flue gas de-sulfurization, the owner or operator may petition the director for a modification to the compliance limitation for the unit in accordance with R307-401.

(a) Such petition shall be received no later than the date upon which the compliance assessment required under (2)(a) above is due.

(b) Any such determination by the director will be made on a case-by-case basis, taking into consideration energy, environmental and economic impacts and other costs. It will be based on the best information and analytical techniques available.

KEY: air pollution, electric generating unit, mercury
Date of Enactment or Last Substantive Amendment: May 9, 2007
Notice of Continuation: April 5, 2012
Authorizing, and Implemented or Interpreted Law: 19-2-101; 19-2-104(1)(a); 19-2-104(3)(e); 40 CFR 60.24

R307. Environmental Quality, Air Quality.
R307-501. Oil and Gas Industry: General Provisions.
R307-501-1. Purpose.

R307-501 establishes general requirements for prevention of

emissions and use of good air pollution control practices for all oil and natural gas exploration and production operations, well production facilities, natural gas compressor stations, and natural gas processing plants.

R307-501-2. Definitions.

(1) The definitions in 40 CFR 60, Subpart OOOO Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution, which is incorporated by reference in R307-210 apply to R307-501.

(2) "Well production facility" means all equipment at a single stationary source directly associated with one or more oil wells or gas wells. This equipment includes, but is not limited to, equipment used for production, extraction, recovery, lifting, stabilization, storage, separation, treating, dehydration, combustion, compression, pumping, metering, monitoring, and flowline.

(3) "Oil well" means an onshore well drilled principally for the production of crude oil.

(4) "Oil transmission" means the pipelines used for the long distance transport of crude oil, condensate, or intermediate hydrocarbon liquids (excluding processing). Specific equipment used in transmission includes, but is not limited to, the land, mains, valves, meters, boosters, regulators, storage vessels, dehydrators, pumps and compressors, and their driving units and appurtenances. The transportation of oil or natural gas to end users is not included in the definition of "transmission".

R307-501-3. Applicability.

(1) R307-501 applies to all oil and natural gas exploration, production, and transmission operations; well production facilities; natural gas compressor stations; and natural gas processing plants in Utah.

(2) R307-501 does not apply to oil refineries.

R307-501-4. General Provisions.

(1) General requirements for prevention of emissions and use of good air pollution control practices.

(a) All crude oil, condensate, and intermediate hydrocarbon liquids collection, storage, processing and handling operations, regardless of size, shall be designed, operated and maintained so as to minimize emission of volatile organic compounds to the atmosphere to the extent reasonably practicable.

(b) At all times, including periods of start-up, shutdown, and malfunction, the installation and air pollution control equipment shall be maintained and operated in a manner consistent with good air pollution control practices for minimizing emissions.

(c) Determination of whether or not acceptable operating and maintenance procedures are being used will be based on information available to the director, which may include, but is not limited to, monitoring results, infrared camera images, opacity

observations, review of operating and maintenance procedures, and inspection of the source.

(2) General requirements for air pollution control equipment.

(a) All air pollution control equipment shall be operated and maintained pursuant to the manufacturing specifications or equivalent to the extent practicable and consistent with technological limitations and good engineering and maintenance practices.

(b) The owner or operator shall keep manufacturer specifications or equivalent on file.

(c) In addition, all such air pollution control equipment shall be adequately designed and sized to achieve the control efficiency rates established in rules or in approval orders issued under R307-401 and to handle reasonably foreseeable fluctuations in emissions of VOCs during normal operations. Fluctuations in emissions that occur when the separator dumps into the tank are reasonably foreseeable.

KEY: air pollution, oil, gas
Date of Enactment or Last Substantive Amendment: December 1, 2014
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)

R307. Environmental Quality, Air Quality.
R307-502. Oil and Gas Industry: Pneumatic Controllers.
R307-502-1. Purpose.

(1) The purpose of R307-502 is to reduce emissions of volatile organic compounds from pneumatic controllers that are associated with oil and gas operations.

(2) The rule requires existing pneumatic controllers to meet the standards established for new controllers in 40 CFR Part 60, Subpart OOOO.

R307-502-2. Definitions.

(1) The definitions in 40 CFR 60, Subpart OOOO Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution, which is incorporated by reference in R307-210 apply to R307-502.

(2) "Existing pneumatic controller" means a pneumatic controller affected facility as described in 40 CFR 60.5365(d)(1) through (3) that was constructed, modified, or reconstructed prior to October 15, 2013.

R307-502-3. Applicability.

R307-502 applies to the owner or operator of any existing pneumatic controller in Utah.

R307-502-4. Retrofit Requirements.

(1) Effective December 1, 2015, all existing pneumatic controllers in Duchesne County or Uintah County shall meet the standards established for pneumatic controller affected facilities

that are constructed, modified or reconstructed on or after October 15, 2013, as specified in 40 CFR 60, Subpart OOOO Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution.

(2) Effective April 1, 2017 all existing pneumatic controllers in Utah shall meet the standards established for pneumatic controller affected facilities that are constructed, modified or reconstructed on or after October 15, 2013 as specified in 40 CFR 60, Subpart OOOO Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution.

R307-502-5. Documentation Required.

(1) The tagging requirements in 40 CFR 60.5390(b)(2) and 40 CFR 60.5390(c)(2), incorporated by reference in R307-210, are modified to not require the month and year of installation, reconstruction or modification for existing pneumatic controllers.

(2) The recordkeeping requirements in 40 CFR 60.5420(c)(4)(i), incorporated by reference in R307-210, are modified to not require records of the date of installation or manufacturer specifications for existing pneumatic controllers.

KEY: air pollution, oil, gas, pneumatic controllers
Date of Enactment or Last Substantive Amendment: December 1, 2014
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)

R307. Environmental Quality, Air Quality.
R307-503. Oil and Gas Industry: Flares.
R307-503-1. Purpose.

R307-503 establishes conditions to ensure that flares used in the oil and gas industry are operated effectively.

R307-503-2. Definitions.

(1) "Auto igniter" means a device which will automatically attempt to relight the pilot flame of a flare in order to combust volatile organic compound emissions.

(2) "Enclosed flare" means a flare that has an enclosed flame.

(3) "Flare" means a thermal oxidation system designed to combust hydrocarbons in the presence of a flame.

(4) "Open flare" means a flare that has an open (without enclosure) flame.

R307-503-3. Applicability.

(1) R307-503 applies to all oil and gas exploration and production operations, well sites, natural gas compressor stations, and natural gas processing plants in Utah.

(2) R307-503 does not apply to oil refineries.

R307-503-4. Auto-Igniters.

(1) Flares used to control emissions of volatile organic

compounds shall be equipped with and operate an auto-igniter as follows:

(a) All open flares and all enclosed flares installed on or after January 1, 2015, shall be equipped with an operational auto-igniter upon installation of the flare.

(b) All enclosed flares installed before January 1, 2015 in Duchesne County or Uintah County shall be equipped with an operational auto-igniter by December 1, 2015, or after the next flare planned shutdown, whichever comes first.

(c) All enclosed flares installed before January 1, 2015 in all other areas of Utah shall be equipped with an operational auto-igniter by April 1, 2017, or after the next flare planned shutdown, whichever comes first.

R307-503-5. Recordkeeping.

The owner or operator shall maintain records demonstrating the date of installation and manufacturer specifications for each auto-igniter required under R307-503-4.

KEY: air pollution, oil, gas, flares
Date of Enactment or Last Substantive Amendment: December 1, 2014
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)

R307. Environmental Quality, Air Quality.
R307-504. Oil and Gas Industry: Tank Truck Loading.
R307-504-1. Purpose.

R307-504 establishes control requirements for the loading of liquids containing volatile organic compounds at oil or gas well sites.

R307-504-2. Definitions.

(1) The definitions in 40 CFR 60, Subpart OOOO Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution that is incorporated by reference in R307-210 apply to R307-504.

(2) "Bottom Filling" means the filling of a tank through an inlet at or near the bottom of the tank designed to have the opening covered by the liquid after the pipe normally used to withdraw liquid can no longer withdraw any liquid.

(3) "Submerged Fill Pipe" means any fill pipe with a discharge opening which is entirely submerged when the liquid level is six inches above the bottom of the tank and the pipe normally used to withdraw liquid from the tank can no longer withdraw any liquid.

(4) "Well production facility" means all equipment at a single stationary source directly associated with one or more oil wells or gas wells.

R307-504-3. Applicability.

R307-504 applies to any person who loads or permits the loading of any intermediate hydrocarbon liquid or produced water

at a well production facility after January 1, 2015.

R307-504-4. Tank Truck Loading Requirements.

Tank trucks used for intermediate hydrocarbon liquid or produced water shall be loaded using bottom filling or a submerged fill pipe.

KEY: air pollution, oil, gas
Date of Enactment or Last Substantive Amendment: October 7, 2014
Authorizing, and Implemented or Interpreted Law: 19-2-104(1)(a)

R307. Environmental Quality, Air Quality.
R307-801. Utah Asbestos Rule.
R307-801-1. Purpose and Authority.

This rule establishes procedures and requirements for asbestos abatement or renovation projects and training programs, procedures and requirements for the certification of persons and companies engaged in asbestos abatement or renovation projects, and work practice standards for performing such projects. This rule is promulgated under the authority of Utah Code Annotated 19-2-104(1)(d), (3)(a)(iii), (3)(b)(iv)(A), (B), and (C), (3)(b)(v), (6)(a), and (6)(b). Penalties are authorized by Utah Code Annotated 19-2-115. Fees are authorized by Utah Code Annotated 19-1-201(2)(i).

R307-801-2. Applicability and General Provisions.

(1) Applicability.

(a) The following persons are operators and are subject to the requirements of R307-801:

(i) Persons who contract for hire to conduct asbestos abatement, renovation, or demolition projects in regulated facilities;

(ii) Persons who conduct asbestos abatement, renovation, or demolition projects in areas where the general public has unrestrained access;

(iii) Persons who conduct asbestos abatement, renovation, or demolition projects in school buildings subject to AHERA or who conduct asbestos inspections in facilities subject to TSCA Title II; or

(iv) Persons who perform regulated work activities or renovation projects in single or multifamily residential structures where they do not live or intend to live immediately after the regulated work activity or renovation project is complete.

(b) The following persons are subject to certification requirements:

(i) Persons required by TSCA Title II or R307-801 to be accredited as inspectors, management planners, project designers, renovators, asbestos abatement supervisors, or asbestos abatement workers;

(ii) Persons who work on asbestos abatement projects as

asbestos abatement workers, asbestos abatement supervisors, inspectors, project designers, or management planners;

(iii) Persons who perform regulated work activities or renovation projects in single or multifamily residential structures where they do not live or intend to live immediately after the regulated work activity or project is complete; or

(iv) Companies that conduct asbestos abatement projects, renovation projects, inspections, create project designs, or prepare management plans in regulated facilities.

(c) Homeowners or condominium owners performing renovation or demolition activities in or on their own residential facilities where they live, that are otherwise not subject to the Asbestos NESHAP, are not subject to the requirements of this rule, however, a condominium complex of more than four units is subject to this rule and may also be subject to the Asbestos NESHAP regulation.

(d) Contractors for hire performing renovation or demolition activities are required to follow the inspection provisions of R307-801-9 and R307-801-10 and the notification provisions of R307-801-11 and R307-801-12.

(2) General Provisions.

(a) All persons who are required by R307-801 to obtain an approval, certification, determination, or notification from the director shall obtain it in writing.

(b) Persons wishing to deviate from the certification, notification, work practices, or other requirements of R307-801 may do so only after requesting and obtaining the written approval of the director.

R307-801-3. Definitions.

The following definitions apply to R307-801:

"Adequately Wet" means to sufficiently mix or penetrate with liquid to prevent the release of particulates. If visible emissions are observed coming from asbestos-containing material, then that material is not adequately wet. However, the absence of visible emissions is not sufficient evidence of being adequately wet.

"Amended Water" means a mixture of water and a chemical wetting agent that provides control of asbestos fiber release.

"AHERA" means the federal Asbestos Hazard Emergency Response Act of 1986 and the Environmental Protection Agency implementing regulations, 40 CFR Part 763, Subpart E - Asbestos-Containing Materials in Schools.

"AHERA Facility" means any structure subject to the federal AHERA requirements.

"Asbestos" means the asbestiform varieties of serpentine (chrysotile), riebeckite (crocidolite), cummingtonite-grunerite (amosite), anthophyllite, actinolite-tremolite, and Libby amphibole.

"Asbestos Abatement Project" means any activity involving the removal, repair, demolition, salvage, disposal, cleanup, or other disturbance of regulated asbestos-containing material greater than the small scale short duration (SSSD) amount of asbestos-

containing material.

"Asbestos Abatement Supervisor" means a person who is certified according to R307-801-6 and is responsible for ensuring work is conducted in accordance with the regulations and best work practices for asbestos abatement or renovation projects.

"Asbestos Abatement Worker" means a person who is certified according to R307-801-6 and performs asbestos abatement or renovation projects.

"Asbestos-Containing Material (ACM)" means any material containing more than 1% asbestos by the method specified in 40 CFR Part 763, Subpart E, Appendix E, Section 1, Polarized Light Microscopy (PLM), or, if the asbestos content is greater than a trace amount of asbestos, but less than 10% asbestos, the asbestos concentration shall be determined by point counting using PLM or any other method acceptable to the director.

"Asbestos-Containing Waste Material (ACWM)" means any waste generated from regulated asbestos-containing material (RACM) that contains any amount of asbestos and is generated by a source subject to the provisions of R307-801. This term includes filters from control devices, friable asbestos-containing waste material, and bags or other similar packaging contaminated with asbestos. As applied to demolition and renovation projects, this term also includes regulated asbestos-containing material waste and materials contaminated with asbestos including disposable equipment and clothing.

"Asbestos Inspection" means any activity undertaken to identify the presence and location, or to assess the condition, of asbestos-containing material or suspected asbestos-containing material, by visual or physical examination, or by collecting samples of the material. This term includes re-inspections of the type described in AHERA, 40 CFR 763.85(b), of known or assumed asbestos-containing material which has been previously identified. The term does not include the following:

(a) Periodic surveillance of the type described in AHERA, 40 CFR 763.92(b), solely for the purpose of recording or reporting a change in the condition of known or assumed asbestos-containing material;

(b) Inspections performed by employees or agents of federal, state, or local government solely for the purpose of regulatory oversight and/or determining compliance with applicable statutes or regulations; or

(c) Visual inspections of the type described in AHERA, 40 CFR 763.90(i), solely for the purpose of determining completion of response actions.

"Asbestos Inspection Report" means a written report as specified in R307-801-10(6) describing an asbestos inspection performed by a certified asbestos inspector.

"Asbestos NESHAP" means the National Emission Standards for Hazardous Air Pollutants, 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos.

"Asbestos Removal" means the stripping of friable ACM from regulated facility components or the removal of structural

components that contain or are covered with friable ACM from a regulated facility.

"Category I Non-Friable Asbestos-Containing Material" means asbestos-containing packings, gaskets, resilient floor coverings, or asphalt roofing products containing more than 1% asbestos as determined by using the method specified in 40 CFR Part 763, Subpart E, Appendix E, Section 1, Polarized Light Microscopy (PLM).

"Category II Non-Friable Asbestos-Containing Material" means any material, excluding Category I non-friable ACM, containing more than 1% asbestos as determined by using the methods specified in 40 CFR Part 763, Subpart E, Appendix E, Section 1, Polarized Light Microscopy (PLM) that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

"Condominium" means a building or complex of buildings in which units of property are owned by individuals and common parts of the property, such as the grounds, common areas, and building structure, are owned jointly by the condominium unit owners.

"Containerized" means sealed in a leak-tight and durable container.

"Debris" means friable or regulated asbestos-containing material that has been dislodged and has fallen from its original substrate and position or which has fallen while remaining attached to substrate sections or fragments.

"Demolition Project" means the wrecking, salvage, or removal of any load-supporting structural member of a regulated facility together with any related handling operations, or the intentional burning of any regulated facility. This includes the moving of an entire building, but excludes the moving of structures, vehicles, or equipment with permanently attached axles, such as trailers, motor homes, and mobile homes that are specifically designed to be moved.

"Director" means the Director of the Utah Division of Air Quality.

"Disturb" means to disrupt the matrix, crumble, pulverize, or generate visible debris from ACM or RACM.

"Emergency Abatement or Renovation Project" means any asbestos abatement or renovation project which was not planned and results from a sudden, unexpected event that, if not immediately attended to, presents a safety or public health hazard, is necessary to protect equipment from damage, or is necessary to avoid imposing an unreasonable financial burden as determined by the director. This term includes operations necessitated by non-routine failure of equipment, natural disasters, fire, or flooding, but does not include situations caused by the lack of planning.

"Encapsulant" means a permanent coating applied to the surface of friable ACM for the purpose of preventing the release of asbestos fibers. The encapsulant creates a membrane over the surface (bridging encapsulant) or penetrates the material and binds its components together (penetrating encapsulant).

"Friable Asbestos-Containing Material" means any asbestos-

containing material that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.

"Glove bag" means an impervious plastic bag-like enclosure, not to exceed 60 x 60 inches, affixed around an asbestos-containing material, with glove-like appendages through which material and tools may be handled.

"General Building Remodeling Activities" means the alteration in any way of one or more regulated structure components, excluding asbestos abatement, renovation, and demolition projects.

"Government Official" means an engineer, building official, or health officer employed by a governmental jurisdiction that has a responsibility for public safety or health in the jurisdiction where the structure is located.

"High-Efficiency Particulate Air (HEPA)" means a filtration system capable of trapping and retaining at least 99.97% of all mono-dispersed particles 0.3 micron in diameter.

"Inaccessible" means in a physically restricted or obstructed area, or covered in such a way that detection or removal is prevented or severely hampered.

"Inspector" means a person who is certified according to R307-801-6, conducts asbestos inspections, or oversees the preparation of asbestos inspection reports.

"Libby Amphibole" means loose-fill vermiculite type insulation material originating in Libby, Montana, or elsewhere, used in regulated facilities subject to this rule and has greater than 1% asbestiform varieties of serpentine (chrysotile), riebeckite (crocidolite), cummingtonite-grunerite (amosite), anthophyllite, and actinolite-tremolite, as defined earlier in this section, and winchite, richterite, tremolite, magnesio-riebikite, magnesio-arfvedsonite, and edenite using United States Environmental Protection Agency Method EPA/600/R93/116 or other method as approved by the director.

"Management Plan" means a document that meets the requirements of AHERA for management plans for asbestos in schools.

"Management Planner" means a person who is certified according to R307-801-6 and oversees the preparation of management plans for school buildings subject to AHERA.

"Model Accreditation Plan (MAP)" means 40 CFR Part 763, Subpart E, Appendix C, Asbestos Model Accreditation Plan.

"NESHAP Amount" means combined amounts in a project that total:

(a) 260 linear feet (80 linear meters) of pipe covered with RACM;

(b) 160 square feet (15 square meters) of RACM used to cover or coat any duct, boiler, tank, reactor, turbine, equipment, structural member, or regulated facility component; or

(c) 35 cubic feet (one cubic meter) of RACM removed from regulated facility structural members or components where the length and area could not be measured previously.

"NESHAP Facility" means any institutional, commercial, public, industrial, or residential structure, installation, or

building, (including any structure, installation, or building containing condominiums or individual dwelling units operated as a residential co-operative, but excluding residential buildings having four or fewer dwelling units); any ship; and any active or inactive waste disposal site. For purposes of this definition, any building, structure, or installation that contains a loft used as a dwelling is not considered a residential structure, installation, or building. Any structure, installation, or building that was previously subject to the Asbestos NESHAP is not excluded, regardless of its current use or function.

"NESHAP-Sized Project" means any project that involves at least the NESHAP amount of ACM.

"Non-Friable Asbestos-Containing Material" means any material containing more than 1% asbestos, as determined using the methods specified in 40 CFR Part 763, Subpart E, Appendix E, Section 1, Polarized Light Microscopy (PLM), that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

"Open Top Catch Bag" means either an asbestos waste bag or six mil polyethylene sheeting which is sealed at both ends and used by certified asbestos abatement workers, in a manner not to disturb the matrix of the asbestos-containing material, to collect preformed RACM pipe insulation in either a crawl space or pipe chase less than six feet high or less than three feet wide.

"Phased Project" means either an asbestos abatement, renovation, or demolition project that contains multiple start and stop dates corresponding to separate operations or areas where the entire asbestos abatement, renovation, or demolition project cannot or will not be performed continuously.

"Preformed RACM Pipe Insulation" means prefabricated asbestos-containing thermal system insulation on pipes formed in sections that can be removed without disturbing the matrix of the asbestos-containing material.

"Project Designer" means a person who is certified according to R307-801-6 and prepares a design for an asbestos abatement project in school buildings subject to AHERA or prepares an asbestos clean-up plan in a regulated facility where an asbestos disturbance greater than the SSSD amount has occurred.

"Regulated Asbestos-Containing Material (RACM)" means friable ACM, Category I non-friable ACM that has become friable, Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation project operations.

"Regulated Facilities" means residential facilities, AHERA facilities, or NESHAP facilities where:

(a) A sample has been identified and analyzed to contain, or is assumed under R307-801-10(5) to contain, greater than 1% asbestos; and

(b) The material from where the sample was collected will be disturbed and rendered friable during the abatement, demolition,

or renovation activities.

"Regulated Facility Component" means any part of a regulated facility including equipment.

"Renovation Project" means any activity involving the removal, repair, salvage, disposal, cleanup, or other disturbance of greater than the SSSD amount of RACM, but less than the NESHAP amount of RACM, and the intent of the project is not asbestos abatement or demolition. Renovation Projects can be performed in NESHAP or residential facilities, but cannot be performed in AHERA facilities.

"Renovator" means a person who is certified according to R307-801-6 and is responsible for ensuring work that is conducted on a renovation project is performed in accordance with the regulatory requirements and best work practices for a greater than the SSSD amount of RACM, but less than the NESHAP amount of RACM, where the intent of the project is to perform a renovation project and not to perform an asbestos abatement or demolition project. Renovation projects can be performed in NESHAP or residential facilities but cannot be performed in AHERA facilities.

"Residential Facility" means a building used primarily for residential purposes, has four or fewer units, is otherwise not subject to the Asbestos NESHAP, and is not a residential outbuilding structure of less than 100 square feet.

"Small-Scale, Short-Duration (SSSD)" means a project that removes or disturbs less than three square feet or three linear feet of RACM in a regulated facility.

"Sprayed-on or Painted-on Ceiling Treatment" means a surfacing material or treatment that has been applied to the ceiling regardless of application method. The application of paint that has no added materials is not considered a ceiling treatment.

"Strip" means to take off ACM from any part of a regulated facility or a regulated facility component.

"Structural Member" means any load-supporting member of a regulated facility, such as beams and load-supporting walls or any non-load supporting member, such as ceilings and non-load supporting walls.

"Suspect or Suspected Asbestos-Containing Material" means all building materials that have the potential to contain asbestos, except building materials made entirely of glass, fiberglass, wood, metal, or rubber.

"Training Hour" means at least 50 minutes of actual learning, including, but not limited to, time devoted to lecture, learning activities, small group activities, demonstrations, evaluations, and hands-on experience.

"TSCA" means the Toxic Substances Control Act.

"TSCA Accreditation" means successful completion of training as an inspector, management planner, project designer, contractor-supervisor, or worker, as specified in the TSCA Title II.

"TSCA Title II" means 15 U.S.C. 2601 et seq., Toxic Substances Control Act, Subchapter II - Asbestos Hazard Emergency Response.

"Unrestrained Access" means without fences, closed doors, personnel, or any other method intended to restrict public entry.

"Waste Generator" means any owner or operator of an asbestos abatement or renovation project covered by R307-801 whose act or process produces ACWM.

"Working Day" means weekdays, Monday through Friday, including holidays.

R307-801-4. Adoption and Incorporation of 40 CFR 763 Subpart E.

(1) The provisions of 40 CFR 763 Subpart E, including appendices, effective as of the date referenced in R307-101-3, are hereby adopted and incorporated by reference.

(2) Implementation of the provisions of 40 CFR Part 763, Subpart E, except for the Model Accreditation Plan, shall be limited to those provisions for which the EPA has waived its requirements in accordance with 40 CFR 763.98, Waiver; delegation to State, as published at 52 FR 41826, (October 30, 1987).

R307-801-5. Company Certification.

(1) All persons shall operate under:

(a) An asbestos company certification before contracting for hire, at a regulated facility, to conduct asbestos inspections, create management plans, create project designs, or conduct asbestos abatement projects, or

(b) Either an asbestos renovation company certification or asbestos company certification before contracting for hire to conduct asbestos abatement or renovation projects at a regulated facility.

(2) To obtain an asbestos company certification or an asbestos renovation company certification, all persons shall submit a properly completed application for certification on a form provided by the director and pay the appropriate fee.

(3) Unless revoked or suspended, an asbestos company certification or an asbestos renovation company certification shall remain in effect until the expiration date provided by the director.

R307-801-6. Individual Certification.

(1) All persons shall have an individual certification to conduct asbestos inspections, create management plans, create project designs, conduct asbestos renovation projects, or conduct asbestos abatement projects at a regulated facility.

(2) To obtain certification as an asbestos abatement worker, asbestos abatement supervisor, inspector, project designer, renovator, or management planner, each person shall:

(a) Provide personal identifying information;

(b) Pay the appropriate fee;

(c) Complete the appropriate form or forms provided by the director;

(d) Provide certificates of initial and current refresher training, if applicable, that demonstrates accreditation in the appropriate discipline. Certificates from courses approved by the

director, courses approved in a state that has an accreditation program that meets the TSCA Title II Appendix C Model Accreditation Plan (MAP), or courses that are approved by EPA under TSCA Title II are acceptable unless the director has determined that the course does not meet the requirements of TSCA accreditation training required by R307-801; and

(e) Complete a new initial training course as required by the AHERA MAP, or for the renovator certification, R307-801, if there is a period of more than one year from the previous initial or refresher training certificate expiration date.

(3) Duration and Renewal of Certification.

(a) Unless revoked or suspended, a certification shall remain in effect until the expiration date of the current certificate of TSCA accreditation for the specific discipline.

(b) To renew certification, the individual shall:

(i) Submit a properly completed application for renewal on a form provided by the director;

(ii) Submit a current certificate of TSCA accreditation, or for the renovator certification, a training certificate from a renovator course accredited by the director, for initial or refresher training in the appropriate discipline; and

(iii) Pay the appropriate fee.

R307-801-7. Denial and Cause for Suspension and Revocation of Company and Individual Certifications.

(1) An application for certification may be denied if the individual, applicant company, or any principal officer of the applicant company has a documented history of non-compliance with the requirements, procedures, or standards established by R307-801, R307-214-1, which incorporates the Asbestos NESHAP, AHERA, or with the requirements of any other entity regulating asbestos activities and training programs.

(2) The director may revoke or suspend any certification based upon documented violations of any requirement of R307-801, AHERA, or the Asbestos NESHAP, including but not limited to:

(a) Falsifying or knowingly omitting information in any written submittal required by those regulations;

(b) Permitting the duplication or use of a certificate of TSCA accreditation for the purpose of preparing a falsified written submittal; or

(c) Repeated work practice violations.

R307-801-8. Approval of Training Courses.

(1) To obtain approval of a training course, the course provider shall provide a written application to the director that includes:

(a) The name, address, telephone number, and institutional affiliation of the person sponsoring the course;

(b) The course curriculum;

(c) A letter that clearly indicates how the course meets the Model Accreditation Plan (MAP) and R307-801 requirements for length of training in hours, amount and type of hands-on training,

examinations (including length, format, example of examination or questions, and passing scores), and topics covered in the course;

(d) A copy of all course materials, including student manuals, instructor notebooks, handouts, etc.;

(e) The names and qualifications of all course instructors, including all academic credentials and field experience in asbestos abatement projects, inspections, project designs, management planning, or renovation projects;

(f) An example of numbered certificates issued to students who attend the course and pass the examination. The certificate shall include a unique certificate number; the name of the student; the name of the course completed; the dates of the course and the examination; an expiration date one year from the date the student completed the course and examination, or for the purposes of the renovator course, a progressive lengthening of the refresher training schedule of one year after the initial training, three years after the first refresher training, and five years after the second refresher training and all subsequent refresher training courses; the name, address, and telephone number of the training provider that issued the certificate; and a statement that the person receiving the certificate has completed the requisite training for TSCA or director accreditation;

(g) A written commitment from the training provider to teach the submitted training course(s) in Utah on a regular basis; and

(h) Payment of the appropriate fee.

(2) To maintain approval of a training course, the course provider shall:

(a) Provide training that meets the requirements of R307-801 and the MAP;

(b) Provide the director with the names, government-issued picture identification card number, and certificate numbers of all persons successfully completing the course within 30 working days of successful completion;

(c) Keep the records specified for training providers in the MAP for three years;

(d) Permit the director or authorized representative to attend, evaluate, and monitor any training course without receiving advance notice from the director and without charge to the director; and

(e) Notify the director of any new course instructor ten working days prior to the day the new instructor presents or teaches any course for Renovator or TSCA Accreditation purposes. The training notification form shall include:

(i) The name and qualifications of each course instructor, including appropriate academic credentials and field experience in asbestos abatement projects, inspections, management plans, project designs, or renovations; and

(ii) A list of the course(s) or specific topics that will be taught by the instructor.

(f) Submit the initial or refresher course materials required by R307-801-8(1) to the director for course re-accreditation in a time period not to exceed four years.

(3) All course providers that provide an AHERA or Renovator training course or refresher course in the state of Utah shall:

(a) Notify the director of the location, date, and time of the course at least ten working days before the first day of the course;

(b) Update the training notification form as soon as possible before, but no later than one day before the original course date if the course is rescheduled or canceled before the course is held; and

(c) Allow the director or authorized representative to conduct an audit of any course provided to determine whether the course provider meets the requirements of the MAP and of R307-801.

(4) Renovator Certification Course. The renovator certification course shall be a minimum of eight training hours, with a minimum of two hours devoted to hands-on training activities, and shall include an examination of at least 25 questions that the student shall pass with a 70% or greater proficiency rate. Instruction in the topics described in R307-801-8(4)(c), (d), and (e) shall be included in the hands-on portion of the course. The minimum curriculum requirements for the renovator certification course shall adequately address the following topics:

(a) The physical characteristics of asbestos and asbestos-containing materials, including identification of asbestos, aerodynamic characteristics, typical uses, physical appearance, a review of hazard assessment considerations, and a summary of renovation project control options;

(b) Potential health effects related to asbestos exposure, including the nature of asbestos-related diseases, routes of exposure, dose-response relationships and the lack of a safe exposure level, synergism between cigarette smoking and asbestos exposure, and latency period for diseases;

(c) Personal protective equipment, including selection of respirator and personal protective clothing, and handling of non-disposable clothing;

(d) State-of-the-art work practices, including proper work practices for renovation projects, including descriptions of proper construction and maintenance of barriers and decontamination enclosure systems, positioning of warning signs, lock-out of electrical and ventilation systems, proper working techniques for minimizing fiber release, use of wet methods, use of negative pressure exhaust ventilation equipment, use of HEPA vacuums, and proper clean-up and disposal procedures and state-of-the-art work practices for removal, encapsulation, enclosure, and repair of ACM, emergency procedures for unplanned releases, potential exposure situations, transport and disposal procedures, and recommended and prohibited work practices. New renovation project techniques and methodologies may be discussed;

(e) Personal hygiene, including entry and exit procedures for the work area, methods of decontamination, avoidance of eating, drinking, smoking, and chewing (gum or tobacco) in the work area, and methods to limit exposures to family members;

(f) Medical monitoring, including OSHA requirements for physical examinations, including a pulmonary function test, chest x-rays, and a medical history for each employee;

(g) Relevant federal and state regulatory requirements, procedures, and standards, including:

(i) OSHA standards for permissible exposure to airborne concentrations of asbestos fibers and respiratory protection (29 CFR 1910.134);

(ii) OSHA Asbestos Construction Standard (29 CFR 1926.1101); and

(iii) UAC R307-801 Utah Asbestos Rule.

(h) Recordkeeping and notification requirements for renovation projects including records and project notification forms required by state regulations and records recommended for legal and insurance purposes;

(i) Supervisory techniques for renovation projects, including supervisory practices to enforce and reinforce the required work practices and discourage unsafe work practices; and

(j) Course review, including a review of key aspects of the training course.

(5) Renovator Recertification Course. The renovator recertification course shall be a minimum of four hours, shall adequately address changes in the federal regulations, state administrative rules, state-of-the-art developments, appropriate work practices, employee personal protective equipment, recordkeeping, and notification requirements for renovation projects, and shall include a course review.

R307-801-9. Asbestos Abatement, Renovation, and Demolition Projects: Requirement to Inspect.

(1) Applicability. Contractors are required to have an asbestos inspection performed by a Utah certified asbestos inspector working for a Utah certified asbestos company. The asbestos inspection report shall be on-site and available when regulated work activities are being performed. Owners of residential structures including condominium owners of four units or less, not otherwise subject to the Asbestos NESHAP, are not required to perform asbestos inspections. Owners of a condominium complex of more than four units are subject to R307-801, may also be subject to the Asbestos NESHAP, but are required to perform asbestos inspections.

(2) Except as described in R307-801-9(1) and 9(3), the owner and operator shall ensure that the regulated facility to be demolished, abated, or renovated is thoroughly inspected for asbestos-containing material by an inspector certified under the provisions of R307-801-6. An asbestos inspection report shall be generated according to the provisions of R307-801-10 and completed prior to the start of the asbestos abatement, renovation, or demolition project if materials required to be identified in R307-801-10(3) will be disturbed during that project. The operator shall make the asbestos inspection report available on-site to all persons who have access to the site for the duration of the

renovation, abatement, or demolition project, and to the director or authorized representative upon request.

(3) If the regulated facility has been ordered to be demolished because it is found by a government official to be structurally unsound and in danger of imminent collapse or a public health hazard, the operator may demolish the regulated facility without having the regulated facility inspected for asbestos. If no asbestos inspection is conducted, the operator shall:

(a) Ensure that all resulting demolition project debris is disposed of as asbestos-containing waste material (ACWM) according to R307-801-14; or

(b) reduce the amount of ACWM by segregating the ACWM from non-ACWM debris under the direction of an asbestos inspector certified according to R307-801-6 working for a company certified according to R307-801-5 and clean and encapsulate non-porous debris as non-ACWM by asbestos abatement supervisors or asbestos abatement workers who are certified according to R307-801-6 and working for a company certified according to R307-801-5.

(4) If an asbestos inspection report older than three years will be used for a regulated asbestos renovation, abatement, or demolition activity, the asbestos inspection report shall be reviewed and updated, as necessary, by an inspector who is certified according to R307-801-6 and working for a company certified according to R307-801-5. The report does not need to be reviewed until a time that it will be used for regulatory purposes such as an abatement, renovation, or demolition activity. If the inspection report is still accurate, then the inspector shall provide written documentation stating that the inspection report is still accurate. If the inspection report is not accurate, then the inspector shall provide written documentation, including new sample results, if necessary, such that the inspection report meets all requirements of R307-801.

R307-801-10. Asbestos Abatement, Renovation, and Demolition Projects: Asbestos Inspection Procedures.

Asbestos inspectors shall use the following procedures when conducting an asbestos inspection of facilities to be abated, demolished, or renovated:

(1) Determine the scope of the abatement, demolition, or renovation project by identifying which parts and how the facility will be abated, demolished, or renovated (e.g. conventional demolition methods, fire training, etc.).

(2) Inspect the affected facility or part of the facility where the abatement, demolition, or renovation project will occur.

(3) Identify all accessible suspect asbestos-containing material (ACM) in the affected facility or part of the facility where the abatement, demolition, or renovation project will occur. Residential facilities built on or after January 1, 1981, are only required to identify all accessible sprayed-on or painted-on ceiling treatment that contained or may contain asbestos fiber, asbestos cement siding or roofing materials, resilient flooring

products including vinyl asbestos tile, sheet vinyl products, resilient flooring backing material, whether attached or unattached, and mastic, thermal-system insulation or tape on a duct or furnace, or vermiculite type insulation materials in the affected facility or part of the facility where the abatement, demolition, or renovation project will occur.

(4) Follow the sampling protocol in 40 CFR 763.86 (Asbestos-Containing Materials in Schools) or a sampling method approved by the director to demonstrate that suspect ACM required to be identified by R307-801-10(3) does not contain asbestos.

(5) Asbestos samples are not required to be collected and analyzed if the certified inspector assumes that all unsampled suspect ACM required to be identified by R307-801-10(3) contains asbestos and is ACM; and

(6) Complete an asbestos inspection report containing all of the following information in a format approved by the director:

(a) A description of the affected area and a description of the scope of activities as described in R307-801-10(1);

(b) A list of all suspect ACM required to be identified by R307-801-10(3) in the affected area. Include a description of the suspect ACM sufficient to be able to identify the material. For each suspect material required to be identified by R307-801-10(3), provide the following information:

(i) The amount of suspect ACM required to be identified by R307-801-10(3) in linear feet, square feet, or cubic feet;

(ii) A clear description of the distribution of the suspect ACM required to be identified by R307-801-10(3) in the affected area;

(iii) A statement of whether the material was assumed to contain asbestos, sampled and demonstrated to contain asbestos, or sampled and demonstrated to not contain asbestos; and

(iv) A written determination or table of whether the material is regulated asbestos-containing material (RACM), Category I non-friable ACM, Category II non-friable ACM that may or will become friable when subjected to the proposed abatement, renovation, or demolition project activities, or other suspect ACM that has either not been tested and assumed to contain asbestos, or has been tested by an accredited asbestos laboratory and found not to contain asbestos greater than 1%.

(c) A list of all asbestos bulk samples required to be identified from suspect ACM by R307-801-10(3) in the affected area, including the following information for each sample:

(i) Which suspect ACM required to be identified by R307-801-10(3) the sample represents;

(ii) A clear description of each sample location;

(iii) The types of analyses performed on the sample;

(iv) The amounts of each type of asbestos in the sample as indicated by the analytical results.

(d) A list of potential locations of suspect ACM required to be identified by R307-801-10(3) that were not accessible to inspect and that may be part of the affected area; and

(e) A list of all the asbestos inspector names, company

names, and certification numbers.

(7) Floor plans or architectural drawings and similar representations may be used to identify the location of suspect ACM or samples required to be identified by R307-801-10(3).

(8) Analysis of samples shall be performed by:

(a) Persons or laboratories accredited by a nationally recognized testing program such as the National Voluntary Laboratory Accreditation Program (NVLAP), or

(b) Persons or laboratories that have been rated overall proficient by demonstrating passing scores for at least two of the last three consecutive rounds out of the four annual rounds of the Bulk Asbestos Proficiency Analytical Testing program administered by the American Industrial Hygiene Association (AIHA) or an equivalent nationally-recognized interlaboratory comparison program.

R307-801-11. Asbestos Abatement, Renovation, and Demolition Projects: Notification and Asbestos Removal Requirements.

(1) Demolition Projects.

(a) The operator shall submit a properly completed demolition notification form at least ten working days before the start of a demolition project along with payment of the appropriate fee. The operator cannot start the demolition project until all regulated asbestos-containing material (RACM) has been properly removed.

(b) If any regulated facility is to be demolished by intentional burning, the operator, in addition to the demolition notification form specified in R307-801-11(1)(a), shall ensure that all ACM, including Category I non-friable asbestos-containing material (ACM), Category II non-friable ACM, and RACM is removed from the regulated facility before burning.

(c) If the regulated facility has been ordered to be demolished by a government official because it is found to be structurally unsound and in danger of imminent collapse or a public health hazard, the operator shall submit a demolition project notification form, with a copy of the order signed by the appropriate government official, as soon as possible before, but no later than, the next working day after the demolition project begins.

(2) Asbestos Abatement and Renovation Projects.

(a) If the amount of RACM that would be disturbed or rendered inaccessible by the asbestos abatement or renovation project is the SSSD amount, then no additional requirements are necessary prior to general building remodeling activities.

(b) If the amount of RACM that would be disturbed or rendered inaccessible by the asbestos abatement or renovation project is greater than the SSSD amount, but less than the NESHAP amount, then the operator shall:

(i) Submit an asbestos abatement project notification form at least one working day before asbestos removal begins as described in R307-801-12, unless the removal was properly included in an annual asbestos notification form submitted pursuant to

R307-801-11(2)(e);

(ii) Remove RACM according to asbestos work practices of R307-801-13, the certification requirements of R307-801-5 and 6, and the disposal requirements of R307-801-14 before performing general building remodeling activities.

(c) If the amount of RACM that would be disturbed or rendered inaccessible by the asbestos abatement project is greater than or equal to the NESHAP amount, then the operator shall:

(i) Submit an asbestos abatement project notification form along with payment of the appropriate fee at least ten working days before asbestos removal begins as described in R307-801-12;

(ii) Remove RACM according to the asbestos work practices of R307-801-13, the certification requirements of R307-801-5 and 6, and the disposal requirements of R307-801-14 before performing general building remodeling activities.

(d) If the asbestos abatement or renovation project is an emergency asbestos abatement or renovation project, then the notification form shall be submitted as soon as possible before, but no later than, the next working day after the emergency asbestos abatement or renovation project begins.

(e) The operator shall submit an annual asbestos notification form along with payment of the appropriate fee according to the requirements of 40 CFR 61.145(a)(4)(iii) no later than ten working days before the first day of January of the year during which the work is to be performed in the following circumstances:

(i) The asbestos abatement projects are unplanned operation and maintenance activities;

(ii) The asbestos abatement projects are less than NESHAP-sized; and

(iii) The total amount of asbestos to be disturbed in a single NESHAP facility during these asbestos abatement projects is expected to exceed the NESHAP amount in a calendar year.

(3) Owners and operators of general building remodeling activities are not required to submit an asbestos abatement project or renovation notification form to the director that do not disturb suspect asbestos containing materials, do not disturb building materials found to contain RACM by an inspector who is certified according to R307-801-6, or do not disturb materials that will become RACM as part of the general building remodeling activities.

(4) For notification purposes, asbestos abatement, renovation, or demolition projects shall be no longer than one year in duration.

(5) Revise the notification form, as necessary, when any information on the original notification or any subsequent notification forms changes.

R307-801-12. Asbestos Abatement, Renovation, and Demolition Projects: Notification Procedures and Contents.

(1) All notification forms required by R307-801-11 shall be submitted in writing on the appropriate form provided by the

director and shall be postmarked or received by the director in accordance with R307-801-11, or shall be submitted using the Division of Air Quality electronic notification system and received by the director in accordance with R307-801-11. The type of notification and whether the notification is original or revised shall be indicated.

(2) If the notification is an original demolition project notification form, an original asbestos abatement project notification form for a NESHAP-sized asbestos abatement project, or an original asbestos annual notification form, the written notice shall be sent with an original signature by U.S. Postal Service, commercial delivery service, or hand delivery, or with an electronic signature if submitted using the Division of Air Quality electronic notification system. If the U.S. Postal Service is used, the submission date is the postmark date. If other service or hand delivery is used, the submission date is the date that the document is received by the director. If the Division of Air Quality electronic notification system is used, the submission date is the date that the notification is received by the director.

(3) An original asbestos notification form for a less than NESHAP-sized asbestos abatement or renovation project or any revised notification may be submitted by any of the methods in R307-801-12(2), or by facsimile, by the date specified in R307-801-11. The sender shall ensure that the fax is legible.

(4) All original notification forms shall contain the following information:

(a) The name, address, and telephone number of the owner of the regulated facility, the general contractor, the demolition contractor, and the asbestos renovation or abatement contractor, if applicable;

(b) Whether the operation is an asbestos abatement, demolition, or a renovation project;

(c) A description of the regulated facility that includes the total size of the structure or structures in square feet, including the square footage of all floors in a multilevel or multi-floor structure, the age, the future, present, and prior uses of the facility, including any additional regulated structures affected by the project;

(d) The names and certification numbers of the inspectors and companies;

(e) The procedures, including analytical methods, used to inspect for the presence of asbestos-containing material (ACM);

(f) The location and address, including building number or name and floor or room number, street address, city, county, state, and zip code of each regulated facility being demolished or renovated;

(g) A description of procedures for handling the discovery of unexpected ACM, Category I non-friable ACM, or Category II non-friable ACM that has or will become friable or regulated;

(h) A description of planned asbestos abatement, demolition, or renovation project work, including the asbestos abatement,

demolition, and renovation project techniques to be used and a description of the affected regulated facility components or structural members; and

(i) If the project has phases, then provide the date and times of each phase and the location and address of all regulated facilities to be abated, demolished, or renovated.

(5) In addition to the information in R307-801-12(4), an original demolition project notification form shall contain the following information:

(a) An estimate of the amount of Category I non-friable ACM and non-regulated ACM that will remain in the building during the demolition project;

(b) The start and stop dates of the demolition project;

(c) The days that the demolition project will be conducted; and

(d) If the regulated facility will be demolished under an order of a government official, the name, title, government agency, and authority of the government official ordering the demolition project, the date the order was issued, and the date the demolition project was ordered to commence. A copy of the order shall be attached to the demolition project notification form.

(6) In addition to the information required in R307-801-12(4) and (5), an original demolition project notification form for phased demolition projects shall include:

(a) The start and stop dates for the entire phased project; and

(b) The start and stop dates for each phase of the project.

(7) In addition to the information required in R307-801-12(4), (5), and (6), an original asbestos abatement project notification form shall include:

(a) An estimate of the amount of ACM to be stripped, including which units of measure were used;

(b) The start and stop dates for asbestos abatement project preparation;

(c) The times of day for every day that asbestos abatement project will be conducted;

(d) A description of work practices and engineering controls to be used to prevent emissions of asbestos at the demolition or asbestos abatement project work site;

(e) The name and location of the waste disposal site where the ACWM will be disposed, including the name and telephone number of the waste disposal site contact;

(f) The name, address, contact person, and telephone number of the waste transporters; and

(g) The name, contact person, and telephone number of the waste generator.

(8) If an emergency asbestos abatement or renovation project will be performed, then the notification form shall include the date and hour the emergency occurred, a description of the event and an explanation of how the event has caused unsafe conditions or would cause equipment damage or unreasonable financial burden.

(9) In addition to the information in R307-801-12(4) and (5), an original asbestos abatement project annual notification form shall contain the following information:

(a) An estimate of the approximate amount of ACM to be stripped, including which units of measure were used, if known;

(b) The start and stop dates of asbestos abatement project work covered by the annual notification, if known;

(c) A description of work practices and engineering controls to be used to prevent emissions of asbestos at the asbestos abatement project work site;

(d) The name and location of the waste disposal site where the asbestos-containing waste material (ACWM) will be disposed, including the name and telephone number of the waste disposal site contact;

(e) The name, address, contact person, and telephone number of the waste transporters; and

(f) The name, contact person, and telephone number of the waste generator.

(10) A revised notification form shall contain the following information:

(a) The name, address, and telephone number of the owner of the regulated facility, and any demolition, renovation, or asbestos abatement project contractor or contractors working on the project;

(b) Whether the operation is an asbestos abatement, a demolition, or a renovation project;

(c) The date that the original notification form was submitted;

(d) The applicable original start and stop dates for the asbestos abatement, renovation, or demolition project;

(e) The revised start and stop dates and working hours, if applicable, for asbestos abatement, renovation, or demolition projects, for the entire project or for any phase of the project;

(f) The changes in the amount of asbestos to be removed during the project if the asbestos removal amount increases or decreases by more than 20%;

(g) If the previously reported area of the building or buildings to be demolished was inaccurate and needs to be changed, then the demolition notification form shall be revised to include the building area change and any additional fee shall be paid to the Utah Division of Air Quality; and

(h) Any changes to the original or subsequently revised notification form or forms. Describe all changes made to the revised notification form in the comments section of that form.

(11) If the asbestos removal amount is increased in the revised notification form, then the appropriate fee shall be paid to the Utah Division of Air Quality.

(12) If any project phase or an entire NESHAP-sized asbestos abatement, renovation, or demolition project that requires a notification form under R307-801-12(4) will commence on a date or work times other than the date and work times submitted in the original or the most recently revised notification form, the

director shall be notified of the new start date and work times by the following deadlines:

(a) If the new start date and work times are later than the original start date and work times, then notice by telephone, fax, or electronic means shall be given as soon as possible before the start date and a revised notification form shall be submitted in accordance with R307-801-12(10) as soon as possible before, but no later than, the original start date. If the written notification form is received by the director no later than the day before the original start date and work times, no notice by telephone is required.

(b) If the new start date is earlier than the original start date, submit a written notice in accordance with R307-801-12(10) at least ten working days before beginning the project.

(c) In no event shall an asbestos abatement, renovation, or demolition project covered by R307-801-12 begin on a date other than the new start date submitted in the revised written notice.

R307-801-13. Asbestos Abatement and Renovation Project: Work Practices.

(1) An asbestos abatement supervisor who has been certified under R307-801-6 shall be on-site during asbestos abatement project setup, asbestos removal, stripping, cleaning and dismantling of the project, and other handling of uncontainerized regulated asbestos-containing material (RACM).

(2) All persons handling any amount of uncontainerized RACM during a regulated project shall be certified as an asbestos abatement worker or an asbestos abatement supervisor certified under R307-801-6.

(3) Persons performing an asbestos abatement or renovation project at a regulated facility shall follow the work practices in R307-801-13. Where the work practices in R307-801-13(3) and (4) are required, wrap and cut, open top catch bags, glove bags, and mini-enclosures may be used in combination with those work practices.

(a) Adequately wet regulated asbestos-containing material (RACM) with amended water before exposing or disturbing it, except when temperatures are continuously below freezing (32 degrees F.), and when all requirements in 40 CFR 61.145(c)(7) are met.

(b) Install barriers and post warning signs to prevent access to the work area. Warning signs shall conform to the specifications of 29 CFR 1926.1101(k)(7).

(c) Keep RACM adequately wet until it is containerized and disposed of in accordance with R307-801-14.

(d) Ensure that RACM that is stripped or removed is promptly containerized.

(e) Prevent visible particulate matter and uncontainerized asbestos-containing debris and waste originating in the work area from being released outside of the negative pressure enclosure or designated work area.

(f) Filter all waste water to five microns before discharging it to a sanitary sewer.

(g) Decontaminate the outside of all persons, equipment, and waste bags so that no visible residue is observed before leaving the work area.

(h) Apply encapsulant to RACM that is exposed but not removed during stripping.

(i) Clean the work area, drop cloths, and other interior surfaces of the enclosure using a high-efficiency particulate air (HEPA) vacuum and wet cleaning techniques until there is no visible residue before dismantling barriers.

(j) After cleaning and before dismantling enclosure barriers, mist all surfaces inside of the enclosure with a penetrating encapsulant designed for that purpose.

(k) Handle and dispose of friable asbestos-containing material (ACM) and RACM according to the disposal provisions of R307-801-14.

(4) All operators of NESHAP-sized asbestos abatement projects shall install a negative pressure enclosure using the following work practices.

(a) All openings to the work area shall be covered with at least one layer of six mil or thicker polyethylene sheeting sealed with duct tape or an equivalent barrier to air flow.

(b) If RACM debris is present in the proposed work area prior to the start of a NESHAP-sized asbestos abatement project, the site shall be prepared by removing the debris using the work practice requirements of R307-801-13 and disposal requirements of R307-801-14. If the total amount of loose visible RACM debris throughout the entire work area is the SSSD amount, then site preparation may begin after the notification form has been submitted and before the end of the ten working day waiting period.

(c) A decontamination unit constructed to the specifications of R307-801-13(4)(h) shall be attached to the containment prior to disturbing RACM or commencing a NESHAP-sized asbestos abatement project, and all persons shall enter and leave the negative pressure enclosure or work area only through the decontamination unit except in a life threatening emergency situation.

(d) All persons subject to R307-801 shall shower before entering the clean-room of the decontamination unit when exiting the enclosure and shall follow all procedures required by 29 CFR 1926.1101(j)(1)(ii).

(e) No materials may be removed from the enclosure or brought into the enclosure through any opening other than a waste load-out or a decontamination unit.

(f) The negative pressure enclosure of the work area shall be constructed with the following specifications:

(i) Apply at least two layers of six mil or thicker polyethylene sheeting or its equivalent to the floor extending at least one foot up every wall and seal in place with duct tape or its equivalent;

(ii) Apply at least two layers of four mil or thicker polyethylene sheeting or its equivalent to the walls without locating seams in wall or floor corners;

(iii) Seal all seams with duct tape or its equivalent;

(iv) Maintain the integrity of all enclosure barriers; and

(v) Where a wall or floor will be removed as part of the NESHAP-sized asbestos abatement project, polyethylene sheeting need not be applied to that regulated facility component or structural member.

(g) View ports shall be installed in the enclosure or barriers where feasible, and view ports shall be:

(i) At least one foot square;

(ii) Made of clear material that is impermeable to the passage of air, such as an acrylic sheet;

(iii) Positioned so as to maximize the view of the inside of the enclosure from a position outside the enclosure; and

(iv) Accessible to a person outside of the enclosure.

(h) A decontamination unit shall be constructed according to the following specifications:

(i) The unit shall be attached to the enclosure or work area;

(ii) The decontamination unit shall consist of at least three chambers and meet all regulatory requirements of 29 CFR 1926.1101(j)(1)(i);

(iii) The clean room, which is the chamber that opens to the outside, shall be no less than three feet wide by three feet long by six feet high, when feasible;

(iv) The shower room, which is the chamber between the clean and dirty rooms, shall have hot and cold or warm running water and be no less than three feet wide by three feet long by six feet high, when feasible;

(v) The dirty room, which is the chamber that opens to the negative pressure enclosure or the designated work area, shall be no less than three feet wide by three feet long by six feet high, when feasible;

(vi) The dirty room shall be provided with an accessible waste bag at any time that asbestos abatement project is being performed.

(i) A separate waste load-out following the specifications below may be attached to the enclosure for removal of decontaminated waste containers and decontaminated or wrapped tools from the enclosure.

(i) The waste load-out shall consist of at least one chamber constructed of six mil or thicker polyethylene walls and six mil or thicker polyethylene flaps or the equivalent on the outside and inside entrances;

(ii) The waste load-out chamber shall be at least three feet long, three feet high, and three feet wide; and

(iii) The waste load-out supplies shall be sufficient to decontaminate bags, and shall include a water supply with a filtered drain, clean rags, disposable rags or wipes, and clean bags.

(j) Negative air pressure and flow shall be established and maintained within the enclosure by:

(i) Maintaining at least four air changes per hour in the

enclosure;

(ii) Routing the exhaust from HEPA filtered ventilation units to the outside of the regulated facility whenever possible;

(iii) Maintaining a minimum of 0.02 column inches of water pressure differential relative to outside pressure; and

(iv) Maintaining a monitoring device to measure the negative pressure in the enclosure.

(5) In lieu of two layers of polyethylene on the walls and the floors as required by R307-801-13(4)(f)(i) and (ii), the following work practices and controls may be used only under the circumstances described below:

(a) When a pipe insulation removal asbestos abatement project is conducted the following may be used:

(i) Drop cloths extending a distance at least equivalent to the height of the RACM around all RACM to be removed, or extended to a wall and attached with duct tape or equivalent;

(ii) Either the glove bag or wrap and cut methods may be used; and

(iii) RACM shall be adequately wet before wrapping.

(b) When the RACM is scattered ACM and is found in small patches, such as isolated pipe fittings, the following procedures may be used:

(i) Glove bags, mini-enclosures as described in R307-801-13(7)(c), or wrap and cut methods with drop cloths large enough to capture all RACM fragments that fall from the work area may be used.

(ii) If all asbestos disturbance is limited to the inside of negative pressure glove bags or a mini-enclosure, then non-glove bag or non-mini-enclosure building openings need not be sealed and negative pressure need not be maintained in the space outside of the glove bags or mini-enclosure during the asbestos removal operation.

(iii) A remote decontamination unit may be used as described in R307-801-13(7)(d) only if an attached decontamination unit is not feasible.

(c) When a preformed RACM pipe insulation asbestos abatement project in a crawl space or pipe chase less than six feet high or less than three feet wide is conducted, the following may be used:

(i) Drop cloths extending a distance at least six feet around all preformed RACM pipe insulation to be removed or extended to a wall and attached with duct tape or equivalent; or

(ii) The open top catch bag method.

(6) During outdoor asbestos abatement projects, the work practices of R307-801-13 shall be followed with the following modifications:

(a) Negative pressure need not be maintained if there is not an enclosure;

(b) Six mil polyethylene drop cloth, or equivalent, large enough to capture all RACM fragments that fall from the work area shall be used; and

(c) A remote decontamination unit as described in R307-801-13(7)(d) may be used.

(7) Special work practices.

(a) If the wrap and cut method is used:

(i) The regulated facility component shall be cut at least six inches from any RACM on that component;

(ii) If asbestos will be removed from the regulated facility component to accommodate cutting, the asbestos removal shall be performed using a single glove bag for each cut, and no RACM shall be disturbed outside of a glove bag;

(iii) The wrapping shall be leak-tight and shall consist of two layers of six mil polyethylene sheeting, each individually sealed with duct tape, and all RACM between the cuts shall be sealed inside wrap; and

(iv) The wrapping shall remain intact and leak-tight throughout the removal and disposal process.

(b) If the open top catch bag method is used:

(i) The material to be removed can only be preformed RACM pipe insulation, and it shall be located in a crawl space or a pipe chase less than six feet high or less than three feet wide;

(ii) Asbestos waste bags that are leak-tight and strong enough to hold contents securely shall be used;

(iii) The bag shall be placed underneath the stripping operation to minimize ACM falling onto the drop cloth;

(iv) All material stripped from the regulated facility component shall be placed in the bag;

(v) One asbestos abatement worker shall hold the bag and another asbestos abatement worker shall strip the ACM into the bag; and

(vi) A drop cloth extending a distance at least six feet around all preformed RACM pipe insulation to be removed, or extended to a wall and attached with duct tape or equivalent shall be used.

(c) If glove bags are used, they shall be under negative pressure, and the procedures required by 29 CFR 1926.1101(g)(5)(iii) shall be followed.

(d) A remote decontamination unit may be used under the conditions set forth in R307-801-13(5)(b) and (6), when there is an area insufficient to construct a connected decontamination unit, or when approved by the director. The remote decontamination unit shall meet all construction standards in R307-801-13(4)(h) and shall include:

(i) Outerwear shall be HEPA vacuumed or removed, and additional clean protective outerwear shall be put on;

(ii) Either polyethylene sheeting shall be placed on the path to the decontamination unit and the path shall be blocked or taped off to prevent public access, or asbestos abatement workers shall be conveyed to the remote decontamination unit in a vehicle that has been lined with two layers of six mil or thicker polyethylene sheeting or its equivalent; and

(iii) The polyethylene path or vehicle liner shall be removed at the end of the project, and disposed of as ACWM.

(e) Mini-enclosures, when used under approved conditions, shall conform to the requirements of 29 CFR 1926.1101(g)(5)(vi).

(8) For asbestos-containing mastic removal projects using mechanical means, such as a power buffer, to loosen or remove mastic from the floor, in lieu of two layers of polyethylene sheeting on the walls, splash guards of six mil or thicker polyethylene sheeting shall be placed from the floor level a minimum of three feet up the walls.

(9) Persons who improperly disturb more than the SSSD amount of asbestos-containing material and contaminate an area with friable asbestos shall:

(a) Have the emergency clean-up portion of the project, including any portions not contained within a regulated facility or in common use areas that cannot be isolated, performed as soon as possible by a company or companies certified according to R307-801-5, and, asbestos abatement supervisor(s), and asbestos abatement worker(s) certified according to R307-801-6.

(b) Have an asbestos clean-up plan designed by a Utah certified asbestos project designer for the non-emergency portion of the project and have the asbestos clean-up plan submitted to the director for approval. An asbestos clean-up plan is not required when the disturbance results from a natural disaster, fire, or flooding.

(c) Submit the project notification form required by R307-801-11 and 12 to the director for acceptance no later than the next working day after the disturbance occurs or is discovered. For fee calculation purposes, the size of the emergency clean-up project is the area that has been contaminated or potentially contaminated by the disturbance and not the amount of asbestos-containing material disturbed.

(d) Notify the director of project completion by telephone, fax, or electronic means by the day of completion and before leaving the site.

(10) For asbestos abatement, renovation, or demolition projects that remove or otherwise disturb loose-fill vermiculite type insulation materials assumed to be regulated asbestos-containing material or found to contain greater than 1% regulated asbestiform fibers, then the material being removed is considered regulated asbestos-containing material and shall meet all the appropriate regulatory requirements of R307-801.

(a) Regulated vermiculite shall be removed to the maximum extent possible, or by following a work practice that has been established by the director, or by an alternative work practice as approved by the director.

R307-801-14. Disposal and Handling of Asbestos Waste.

(1) Owners and operators of regulated facilities shall containerize asbestos-containing waste material (ACWM) while adequately wet.

(2) ACWM containers shall be leak-tight and strong enough to hold contents securely and be labeled with an OSHA warning label found in 29 CFR 1926.1101(k)(8).

(3) Containers shall be labeled with the waste generator's and contractor's names, addresses, and telephone numbers before

they are removed from the asbestos renovation or abatement work area.

(4) Containerized regulated asbestos-containing material (RACM) shall be disposed of at a landfill which complies with 40 CFR 61.150.

(5) The waste shipment record shall include a list of items and the amount of ACWM being shipped. The waste generator originates and signs this document.

(6) Owners and operators of regulated facilities where an asbestos abatement or renovation project has been performed shall report in writing to the director if a copy of the waste shipment record, signed by the owner or operator of the designated waste disposal site, is not received by the waste generator within 45 working days from the date the waste was accepted by the initial transporter. Include in the report the following information:

(a) A copy of the waste shipment record for which a confirmation of delivery was not received; and

(b) A cover letter signed by the waste generator explaining the efforts taken to locate the asbestos waste shipment and the results of those efforts.

R307-801-15. Records.

(1) Certified asbestos abatement or renovation companies shall maintain records of all asbestos abatement or renovation projects that they perform at regulated facilities and shall make these records available to the director or authorized representative upon request. The records shall be retained for at least five years. Maintained records shall include the following:

(a) Names and certification numbers of the asbestos abatement workers, asbestos abatement supervisors, or renovators who performed the asbestos abatement or renovation project;

(b) Location and description of the asbestos abatement or renovation project and amount of friable asbestos-containing material (ACM) removed;

(c) Start and stop dates of the asbestos abatement or renovation project;

(d) Summary of the procedures used to comply with applicable requirements including copies of all notification forms;

(e) Waste shipment records maintained in accordance with 40 CFR Part 61, Subpart M; and

(f) Asbestos inspection reports associated with the asbestos abatement or renovation project.

(2) All persons subject to the inspection requirements of R307-801-9 shall maintain copies of asbestos inspection reports for at least one year after asbestos abatement, renovation, or demolition projects have ceased, and shall make these reports available to the director or authorized representative upon request.

R307-801-16. Certified Renovator Work Practices.

(1) Certified renovators are responsible for ensuring compliance with R307-801 at all renovation projects at regulated

facilities to which they are assigned.

(2) Certified renovators working at regulated facilities shall:

(a) Perform all of the tasks described in R307-801-13(3) and shall either perform or direct workers who perform all tasks described in R307-801-13(3);

(b) Provide training to workers on the work practices required by R307-801-13(3) that will be used when performing renovation projects;

(c) Be physically present at the work site when all work activities required by R307-801-13(3)(b) are posted, while the work area containment required by R307-801-13(3)(b) is being established, and while the work area cleaning required by R307-801-13(3)(i) is performed;

(d) Be on-site and direct work being performed by other individuals to ensure that the work practices required by R307-801-13(3) are being followed, including maintaining the integrity of the containment barriers and ensuring that dust or debris does not spread beyond the work area;

(e) Have with them at the work site their current Utah Renovator certification card; and

(f) Prepare the records required by R307-801-15.

R307-801-17. Asbestos Information Distribution Requirements.

(1) Utah Abatement/Renovation pamphlet. Utah asbestos abatement and renovation companies shall provide owners and occupants of single and multi-family residential structures with the Utah Abatement/Renovation Pamphlet "Asbestos Hazards During Abatement and Renovation Activities" when those structures will be re-occupied after the regulated activities are completed.

(2) No more than 60 days before beginning an abatement or renovation project in a regulated facility, the company performing the abatement or renovation project shall:

(a) Provide the owner of the regulated facility with the pamphlet, and comply with one of the following:

(i) Obtain, from the owner, a written acknowledgment that the owner has received the pamphlet; or

(ii) Obtain a certificate of mailing at least seven working days prior to the abatement or renovation project; and

(b) If the owner does not occupy the regulated facility, provide an adult occupant of the regulated facility with the pamphlet, and comply with one of the following:

(i) Obtain, from the adult occupant, a written acknowledgment that the occupant has received the pamphlet, or certify in writing that a pamphlet has been delivered to the regulated facility and that the company performing the abatement or renovation project has been unsuccessful in obtaining a written acknowledgment from an adult occupant. Such certification shall include the address of the unit undergoing abatement or renovation activities, the date and method of delivery of the pamphlet, names of the persons delivering the pamphlet, reason for lack of acknowledgment (e.g., occupant refuses to sign, no adult occupant

available), the signature of a representative of the company performing the abatement or renovation project, and the date of signature; or

(ii) Obtain a certificate of mailing at least seven working days prior to the abatement or renovation project.

(3) Abatement or renovation projects in common areas. No more than 60 working days before beginning abatement or renovation projects in common areas of a regulated facility, the company performing the abatement or renovation project shall:

(a) Provide the owner with the pamphlet and comply with one of the following:

(i) Obtain, from the owner, a written acknowledgment that the owner has received the pamphlet; or

(ii) Obtain a certificate of mailing at least seven working days prior to the abatement or renovation project;

(b) Comply with one of the following:

(i) Notify in writing, or ensure written notification of, each regulated facility and make the pamphlet available upon request prior to the start of abatement or renovation project. Such notification shall be accomplished by distributing written notice to each affected unit in the regulated facility. The notice shall describe the general nature and locations of the planned abatement or renovation project, the expected starting and ending dates, how the occupant can obtain the pamphlet and a copy of the required records at no cost to the occupants; or

(ii) Post informational signs describing the general nature and locations of the abatement or renovation project and the anticipated completion date while the abatement or renovation project is ongoing. These signs shall be posted in areas where they are likely to be seen by the occupants of all of the affected units in the regulated facility. The signs shall be accompanied by a posted copy of the pamphlet or information about how interested occupants can review a copy of the pamphlet or obtain a copy from the abatement or renovation company at no cost to occupants. The signs shall also include information about how interested occupants can review a copy of the required records from the abatement or renovation company at no cost to the occupants;

(c) Prepare, sign, and date a statement describing the steps performed to notify all occupants of the regulated facility of the intended abatement or renovation project and to provide the pamphlet; and

(d) If the scope, locations, or expected starting and ending dates of the planned abatement or renovation project change after the initial notification, and the company provided written initial notification to each affected unit, the company performing the abatement or renovation project shall provide further written notification to the owners and occupants of the regulated facility of the revised information for the ongoing or planned activities. This subsequent notification shall be provided before the company performing the abatement or renovation project initiates work beyond that which was described in the original notice.

(4) Written acknowledgment. The written acknowledgments required by paragraphs R307-801-17(2)(a)(i), (2)(b)(i), and (3)(a)(i) shall:

(a) Include a statement recording the owner or occupant's name and acknowledging receipt of the pamphlet prior to the start of abatement or renovation project, or no later than the day after the start of an emergency abatement or renovation project, the address of the regulated facility undergoing an abatement or renovation project, the signature of the owner or occupant as applicable, and the date of signature;

(b) Be either a separate sheet or part of any written contract or service agreement for the abatement or renovation project; and

(c) Be written in the same language as the text of the contract or agreement for the abatement or renovation project or, in the case of a non-owner occupied regulated facility, in the same language as the lease or rental agreement or the pamphlet.

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R307. Environmental Quality, Air Quality.
R307-840. Lead-Based Paint Program Purpose, Applicability, and Definitions.
R307-840-1. Purpose and Applicability.

(1) Rule R307-840, R307-841, and R307-842 establish procedures and requirements for the accreditation of training programs for lead-based paint activities and renovations, procedures and requirements for the certification of individuals and firms engaged in lead-based paint activities and renovations, and work practice standards for performing such activities. These rules also require that, except as outlined in R307-840-1(2), all lead-based paint activities and renovations, as defined in these rules, must be performed by certified individuals and firms.

(2) R307-840, R307-841, and R307-842 apply to all individuals and firms who are engaged in lead-based paint activities and renovations as defined in R307-840-2, except persons who perform these activities within residential dwellings that they own, unless the residential dwelling is occupied by a person or persons other than the owner or the owner's immediate family while these activities are being performed, or a child residing in the building has been identified as having an elevated blood lead level.

(3) R307-840, R307-841, and R307-842 identify lead-based paint hazards. The standards for lead-based paint hazards apply to target housing and child-occupied facilities.

(4) R307-840, R307-841, and R307-842 do not require the owner of the property or properties subject to these rules to evaluate the property or properties for the presence of lead-based paint hazards or take any action to control these conditions if one or more of them is identified.

(5) While R307-840, R307-841, and R307-842 establish specific requirements for performing lead-based paint activities and renovations should they be undertaken, these rules do not require that the owner or occupant undertake any particular lead-based paint activity or renovation.

(6) Individuals or firms wishing to deviate from the certification, notification, work practice, or other requirements of R307-840, R307-841, and/or R307-842 may do so only after requesting and obtaining written approval from the director.

R307-840-2. Definitions.

The following definitions apply to R307-840, R307-841, and R307-842, in addition to the definitions found in R307-101-2.

"Abatement" means any measure or set of measures designed to permanently eliminate lead-based paint hazards. Abatement includes, but is not limited to:

(1) The removal of paint and dust, the permanent enclosure or encapsulation of lead-based paint, the replacement of painted surfaces or fixtures, or the removal or permanent covering of soil, when lead-based paint hazards are present in such paint, dust, or soil; and

(2) All preparation, cleanup, disposal, and post-abatement clearance testing activities associated with such measures.

(3) Specifically, abatement includes, but is not limited to:

(a) Projects for which there is a written contract or other documentation, which provides that an individual or firm will be conducting activities in or to a residential dwelling or child-occupied facility that:

(i) Shall result in the permanent elimination of lead-based paint hazards; or

(ii) Are designed to permanently eliminate lead-based paint hazards and are described in paragraphs (1) and (2) of this definition.

(b) Projects resulting in the permanent elimination of lead-based paint hazards, conducted by firms or individuals certified in accordance with R307-842-2, unless such projects are covered by paragraph (4) of this definition;

(c) Projects resulting in the permanent elimination of lead-based paint hazards, conducted by firms or individuals who, through their company name or promotional literature, represent, advertise, or hold themselves out to be in the business of performing lead-based paint activities as identified and defined by this section, unless such projects are covered by paragraph (4) of this definition; or

(d) Projects resulting in the permanent elimination of lead-based paint hazards that are conducted in response to State of Utah or local abatement orders.

(4) Abatement does not include renovation, remodeling, landscaping or other activities, when such activities are not designed to permanently eliminate lead-based paint hazards, but, instead, are designed to repair, restore, or remodel a given structure or dwelling, even though these activities may incidentally result in a reduction or elimination of lead-based paint hazards. Furthermore, abatement does not include interim controls, operations and maintenance activities, or other measures and activities designed to temporarily, but not permanently, reduce lead-based paint hazards.

"Accredited Training Program" means a training program that has been accredited by the director pursuant to R307-842-1 to provide training for individuals engaged in lead-based paint activities.

"Adequate Quality Control" means a plan or design which ensures the authenticity, integrity, and accuracy of samples, including dust, soil, and paint chip or paint film samples. Adequate quality control also includes provisions for representative sampling.

"Arithmetic Mean" means the algebraic sum of data values divided by the number of data values (e.g., the sum of the concentration of lead in several soil samples divided by the number of samples).

"Business Day" means Monday through Friday with the exception of federal and State of Utah holidays.

"Certificate of Mailing" means Certificate of Mailing as defined by the United States Postal Service.

"Certified Abatement Worker" means an individual who has been trained by an accredited training program and certified by the director pursuant to R307-842-2 to perform abatements.

"Certified Dust Sampling Technician" means an individual who has been trained by an accredited training program and certified by the director pursuant to R307-841-8(1) and R307-842-2 to collect dust samples.

"Certified Firm" means a company, partnership, corporation, sole proprietorship or individual doing business, association, or other business entity; a federal, state, tribal, or local government agency; or a nonprofit organization that performs lead-based paint activities, renovations, or dust sampling to which the director has issued a certificate of approval pursuant to R307-842-2(5).

"Certified Inspector" means an individual who has been trained by an accredited training program and certified by the director pursuant to R307-842-2 to conduct inspections. A certified inspector also samples for the presence of lead in dust and soil for the purposes of abatement clearance testing.

"Certified Project Designer" means an individual who has been trained by an accredited training program and certified by the director pursuant to R307-842-2 to prepare abatement project designs, occupant protection plans, and abatement reports.

"Certified Renovator" means an individual who has been trained by an accredited training program and certified by the

director pursuant to R307-841-8(1) and R307-842-2 to conduct renovations.

"Certified Risk Assessor" means an individual who has been trained by an accredited training program and certified by the director pursuant to R307-842-2 to conduct risk assessments. A risk assessor also samples for the presence of lead in dust and soil for the purposes of abatement clearance testing.

"Certified Supervisor" means an individual who has been trained by an accredited training program and certified by the director pursuant to R307-842-2 to supervise and conduct abatements, and to prepare occupant protection plans and abatement reports.

"Chewable Surface" means an interior or exterior surface painted with lead-based paint that a young child can mouth or chew. A chewable surface is the same as an "accessible surface" as defined in 42 U.S.C. 4851b(2). Hard metal substrates and other materials that can not be dented by the bite of a young child are not considered chewable.

"Child-Occupied Facility" means a building, or portion of a building, constructed prior to 1978, visited regularly by the same child, under 6 years of age, on at least two different days within any week (Sunday through Saturday period), provided that each day's visit lasts at least 3 hours and the combined weekly visits last at least 6 hours, and the combined annual visits last at least 60 hours. Child-occupied facilities may include, but are not limited to, day care centers, preschools and kindergarten classrooms. Child-occupied facilities may be located in target housing or in public or commercial buildings. With respect to common areas in public or commercial buildings that contain child-occupied facilities, the child-occupied facility encompasses only those common areas that are routinely used by children under age 6, such as restrooms and cafeterias. Common areas that children under age 6 only pass through, such as hallways, stairways, and garages are not included. In addition, with respect to exteriors of public or commercial buildings that contain child-occupied facilities, the child-occupied facility encompasses only the exterior sides of the building that are immediately adjacent to the child-occupied facility or the common areas routinely used by children under age 6.

"Cleaning Verification Card" means a card developed and distributed, or otherwise approved, by EPA for the purpose of determining, through comparison of wet and dry disposable cleaning cloths with the card, whether post-renovation cleaning has been properly completed.

"Clearance Levels" are values that indicate the maximum amount of lead permitted in dust on a surface following completion of an abatement activity.

"Common Area" means a portion of a building that is generally accessible to all occupants. Such an area may include, but is not limited to, hallways, stairways, laundry and recreational rooms, playgrounds, community centers, garages, and boundary fences.

"Common Area Group" means a group of common areas that are

similar in design, construction, and function. Common area groups include, but are not limited to hallways, stairways, and laundry rooms.

"Component or Building Component" means specific design or structural elements or fixtures of a building or residential dwelling that are distinguished from each other by form, function, and location. These include, but are not limited to, interior components such as ceilings, crown molding, walls, chair rails, doors, door trim, floors, fireplaces, radiators and other heating units, shelves, shelf supports, stair treads, stair risers, stair stringers, newel posts, railing caps, balustrades, windows and trim (including sashes, window heads, jambs, sills or stools and troughs), built in cabinets, columns, beams, bathroom vanities, counter tops, and air conditioners, and exterior components such as painted roofing, chimneys, flashing, gutters and downspouts, ceilings, soffits, fascias, rake boards, cornerboards, bulkheads, doors and door trim, fences, floors, joists, lattice work, railings and railing caps, siding, handrails, stair risers and treads, stair stringers, columns, balustrades, window sills or stools and troughs, casings, sashes and wells, and air conditioners.

"Concentration" means the relative content of a specific substance contained within a larger mass, such as the amount of lead (in micrograms per gram or parts per million by weight) in a sample of dust or soil.

"Containment" means a process to protect workers and the environment by controlling exposures to the lead-contaminated dust and debris created during an abatement.

"Course Agenda" means an outline of the key topics to be covered during a training course, including the time allotted to teach each topic.

"Course Test" means an evaluation of the overall effectiveness of the training which shall test the trainees' knowledge and retention of the topics covered during the course.

"Course Test Blue Print" means written documentation identifying the proportion of course test questions devoted to each major topic in the course curriculum.

"Deteriorated Paint" means any interior or exterior paint or other coating that is flaking, peeling, chipping, chalking, or cracking, or any other paint or coating located on an interior or exterior surface or fixture that is otherwise damaged or separated from the substrate.

"Discipline" means one of the specific types or categories of lead-based paint activities identified in this rule for which individuals may receive training from accredited programs and become certified by the director. Disciplines include Abatement Worker, Dust Sampling Technician, Inspector, Project Designer, Renovator, Risk Assessor, and Supervisor.

"Distinct Painting History" means the application history, as indicated by its visual appearance or a record of application, over time, of paint or other surface coatings to a component or room.

"Documented Methodologies" are methods or protocols used to sample for the presence of lead in paint, dust, and soil.

"Dripline" means the area within 3 feet surrounding the perimeter of the building.

"Dry Disposable Cleaning Cloth" means a commercially available dry, electrostatically charged, white disposable cloth designed to be used for cleaning hard surfaces such as uncarpeted floors or counter tops.

"Dust-lead hazard" means surface dust in a residential dwelling or child-occupied facility that contains a mass-per-area concentration of lead equal to or exceeding 40 ug/ft^2 on floors or 250 ug/ft^2 on interior window sills based on wipe samples.

"Elevated Blood Lead Level (EBL)" means an excessive absorption of lead that is a confirmed concentration of lead in whole blood of 20 micrograms of lead per deciliter of whole blood (ug/dl) for a single venous test or of 15-19 ug/dl in two consecutive tests taken 3 to 4 months apart.

"Emergency Renovation Operations" means renovation activities, such as operations necessitated by non-routine failures of equipment, that were not planned but result from a sudden, unexpected event that, if not immediately attended to, presents a safety or public health hazard, or threatens equipment and/or property with significant damage.

"Encapsulant" means a substance that forms a barrier between lead-based paint and the environment using a liquid-applied coating (with or without reinforcement materials) or an adhesively bonded covering material.

"Encapsulation" means the application of an encapsulant.

"Enclosure" means the use of rigid, durable construction materials that are mechanically fastened to the substrate in order to act as a barrier between lead-based paint and the environment.

"EPA" means the United States Environmental Protection Agency.

"Friction Surface" means an interior or exterior surface that is subject to abrasion or friction, including, but not limited to, certain window, floor, and stair surfaces.

"Guest Instructor" means an individual designated by the training program manager or principal instructor to provide instruction specific to the lecture, hands-on activities, or work practice components of a course.

"Hands-On Skills Assessment" means an evaluation which tests the trainees' ability to satisfactorily perform the work practices and procedures identified in R307-842-1(4), as well as any other skill taught in a training course.

"Hazardous Waste" means any waste as defined in 40 CFR 261.3.

"HEPA Vacuum" means a vacuum cleaner which has been designed with a high-efficiency particulate air (HEPA) filter as the last filtration stage. A HEPA filter is a filter that is capable of capturing particulates of 0.3 microns with 99.97% efficiency. The vacuum cleaner must be designed so that all the air drawn into the machine is expelled through the HEPA filter with none of the air leaking past it. HEPA vacuums must be operated and maintained in

accordance with the manufacturer's instructions.

"Housing for the Elderly" means retirement communities or similar types of housing reserved for households composed of one or more persons 62 years of age or more at the time of initial occupancy.

"HUD" means the United States Department of Housing and Urban Development.

"Impact Surface" means an interior or exterior surface that is subject to damage by repeated sudden force such as certain parts of door frames.

"Inspection" means a surface-by-surface investigation to determine the presence of lead-based paint and the provision of a report explaining the results of the investigation.

"Interim Certification" means the status of an individual who has successfully completed the appropriate training course in a discipline from an accredited training program, as defined by this section, but has not yet received formal certification in that discipline from the director pursuant to R307-842-2. Interim certification expires 6 months after the completion of the training course, and is equivalent to a certificate for the 6-month period.

"Interim Controls" means a set of measures designed to temporarily reduce human exposure or likely exposure to lead-based paint hazards, including specialized cleaning, repairs, maintenance, painting, temporary containment, ongoing monitoring of lead-based paint hazards or potential hazards, and the establishment and operation of management and resident education programs.

"Interior Window Sill" means the portion of the horizontal window ledge that protrudes into the interior of the room.

"Lead-Based Paint" means paint or other surface coatings that contain lead equal to or in excess of 1.0 milligrams per square centimeter or more than 0.5% by weight.

"Lead-Based Paint Activities" means, in the case of target housing and child-occupied facilities, inspection, risk assessment, and abatement.

"Lead-Based Paint Activities Courses" means initial and refresher training courses (worker, supervisor, inspector, risk assessor, project designer) provided by accredited training programs.

"Lead-Based Paint Hazard" means, for the purposes of lead-based paint activities, any condition that causes exposure to lead from lead-contaminated dust, lead-contaminated soil, or lead-contaminated paint that is deteriorated or present in accessible surfaces, friction surfaces, or impact surfaces that would result in adverse human health effects as identified by the Administrator of the EPA pursuant to TSCA Section 403, and for the purposes of renovation, means hazardous lead-based paint, dust-lead hazard, or soil-lead hazard as identified in R307-840-2.

"Lead-Hazard Screen" means a limited risk assessment activity that involves limited paint and dust sampling as described in R307-842-3(3).

"Living Area" means any area of a residential dwelling used by one or more children age 6 and under, including, but not limited to, living rooms, kitchen areas, dens, play rooms, and children's bedrooms.

"Loading" means the quantity of a specific substance present per unit of surface area, such as the amount of lead in micrograms contained in the dust collected from a certain surface area divided by the surface area in square feet or square meters.

"Local Government" means a county, city, town, borough, parish, district, association, or other public body (including an agency comprised of two or more of the foregoing entities) created under state law.

"Mid-Yard" means an area of a residential yard approximately midway between the dripline of a residential building and the nearest property boundary or between the driplines of a residential building and another building on the same property.

"Minor Repair and Maintenance Activities" are activities, including minor heating, ventilation, or air conditioning work, electrical work, and plumbing, that disrupt 6 square feet or less of painted surface per room for interior activities or 20 square feet or less of painted surface for exterior activities where none of the work practices prohibited or restricted by R307-841-5(1)(c) are used and where the work does not involve window replacement or demolition of painted surface areas. When removing painted components, or portions of painted components, the entire surface area removed is the amount of painted surface disturbed. Jobs, other than emergency renovations, performed in the same room within the same 30 days must be considered the same job for the purpose of determining whether the job is a minor repair and maintenance activity.

"Multi-Family Dwelling" means a structure that contains more than one separate residential dwelling unit which is used or occupied, or intended to be used or occupied, in whole or in part, as the home or residence of one or more persons.

"Multi-Family Housing" means a housing property consisting of more than four dwelling units.

"Nonprofit" means an entity which has demonstrated to any branch of the federal government or to a state, municipal, tribal or territorial government, that no part of its net earnings inure to the benefit of any private shareholder or individual.

"Owner" means any entity that has legal title to target housing, including but not limited to individuals, partnerships, corporations, trusts, government agencies, housing agencies, Indian tribes, and nonprofit organizations, except where a mortgagee holds legal title to property serving as collateral for a mortgage loan, in which case the owner would be the mortgagor.

"Paint In Poor Condition" means more than 10 square feet of deteriorated paint on exterior components with large surface areas, or more than 2 square feet of deteriorated paint on interior components with large surface areas (e.g., walls, ceilings, floors, doors), or more than 10% of the total surface area of the component is deteriorated on interior or exterior

components with small surface areas (window sills, baseboards, soffits, trim).

"Paint-lead hazard" means any of the following:

(a) Any lead-based paint on a friction surface that is subject to abrasion and where the lead dust levels on the nearest horizontal surface underneath the friction surface (e.g., the window sill or floor) are equal to or greater than the dust-lead hazard levels identified in the definition of "Dust-lead hazard".

(b) Any damaged or otherwise deteriorated lead-based paint on an impact surface that is caused by impact from a related building component (such as a door knob that knocks into a wall or a door that knocks against its door frame).

(c) Any chewable lead-based painted surface on which there is evidence of teeth marks.

(d) Any other deteriorated lead-based paint in any residential building or child-occupied facility or on the exterior of any residential building or child-occupied facility.

"Painted surface" means a component surface covered in whole or in part with paint or other surface coatings.

"Pamphlet" means the EPA pamphlet titled "Renovate Right: Important Lead Hazard Information for Families, Child Care Providers and Schools" developed under Section 406(a) of TSCA for use in complying with section 406(b) of TSCA. This includes reproductions of the pamphlet when copied in full and without revision or deletion of material from the pamphlet (except for the addition or revision of state or local sources of information).

"Permanently Covered Soil" means soil which has been separated from human contact by the placement of a barrier consisting of solid, relatively impermeable materials, such as pavement or concrete. Grass, mulch, and other landscaping materials are not considered permanent covering.

"Person" means any natural or judicial person including any individual, corporation, partnership, or association, any Indian tribe, state, or political subdivision thereof, any interstate body, and any department, agency, or instrumentality of the federal government.

"Play Area" means an area of frequent soil contact by children of less than 6 years of age as indicated by, but not limited to, such factors including the presence of play equipment (e.g., sandboxes, swing sets, and sliding boards), toys, or other children's possessions, observations of play patterns, or information provided by parents, residents, care givers, or property owners.

"Principal Instructor" means the individual who has the primary responsibility for organizing and teaching a particular course.

"Recognized Laboratory" means an environmental laboratory recognized by EPA pursuant to TSCA Section 405(b) as being capable of performing an analysis for lead compounds in paint, soil, and dust.

"Recognized Test Kit" means a commercially available kit recognized by EPA under 40 CFR 745.88 as being capable of allowing

a user to determine the presence of lead at levels equal to or in excess of 1.0 milligrams per square centimeter, or more than 0.5% lead by weight, in a paint chip, paint powder, or painted surface.

"Reduction" means measures designed to reduce or eliminate human exposure to lead-based paint hazards through methods including interim controls and abatement.

"Renovation" means the modification of an existing structure, or portion thereof, that results in the disturbance of painted surfaces, unless that activity is performed as part of an abatement as defined by R307-840-2. The term renovation includes, but is not limited to, the removal, modification, or repair of painted surfaces or painted components (e.g., modification of painted doors, surface restoration, window repair, surface preparation activity (such as sanding, scraping, or other such activities that may generate paint dust)), the removal of building components (e.g., walls, ceilings, plumbing, windows), weatherization projects (e.g., cutting holes in painted surfaces to install blown-in insulation or to gain access to attics, planing thresholds to install weather-stripping), and interim controls that disturb painted surfaces. A renovation performed for the purpose of converting a building, or part of a building, into target housing or a child-occupied facility is a renovation under this rule. The term renovation does not include minor repair and maintenance activities.

"Renovator" means an individual who either performs or directs workers who perform renovations.

"Residential Building" means a building containing one or more residential dwellings.

"Residential Dwelling" means (1) a detached single family dwelling unit, including attached structures such as porches and stoops; or (2) a single family dwelling unit in a structure that contains more than one separate residential dwelling unit, which is used or occupied, or intended to be used or occupied, in whole or in part, as the home or residence of one or more persons.

"Risk Assessment" means (1) an on-site investigation to determine the existence, nature, severity, and location of lead-based paint hazards, and (2) the provision of a report by the individual or firm conducting the risk assessment, explaining the results of the investigation and options for reducing lead-based paint hazards.

"Room" means a separate part of the inside of a building, such as a bedroom, living room, dining room, kitchen, bathroom, laundry room, or utility room. To be considered a separate room, the room must be separated from adjoining rooms by built-in walls or archways that extend at least 6 inches from an intersecting wall. Half walls or bookcases count as room separators if built-in. Movable or collapsible partitions or partitions consisting solely of shelves or cabinets are not considered built-in walls. A screened in porch that is used as a living area is a room.

"Soil Sample" means a sample collected in a representative location using ASTM E1727, "Standard Practice for Field Collection of Soil Samples for Lead Determination by Atomic Spectrometry

Techniques," or equivalent method.

"Soil-lead hazard" means bare soil on residential real property or on the property of a child-occupied facility that contains total lead equal to or exceeding 400 parts per million (ug/g) in a play area or average 1,200 parts per million of bare soil in the rest of the yard based on soil samples.

"Start Date" means the first day of any lead-based paint activities training course or lead-based paint abatement activity.

"Start Date Provided to the director" means the start date included in the original notification or the most recent start date provided to the director in an updated notification.

"State" means any state of the United States, the District of Columbia, the Commonwealth of Puerto Rico, the United States Virgin Islands, Guam, the Canal Zone, American Samoa, the Northern Mariana Islands, or any other territory or possession of the United States.

"Target housing" means any housing constructed prior to 1978, except housing for the elderly or persons with disabilities (unless any one or more children age 6 years or under resides or is expected to reside in such housing for the elderly or persons with disabilities) or any 0-bedroom dwelling.

"Training curriculum" means an established set of course topics for instruction in an accredited training program for a particular discipline designed to provide specialized knowledge and skills.

"Training Hour" means at least 50 minutes of actual learning, including, but not limited to, time devoted to lecture, learning activities, small group activities, demonstrations, evaluations, and hands-on experience.

"TSCA" means the Toxic Substances Control Act, 15 U.S.C. 2601.

"Training Manager" means the individual responsible for administering a training program and monitoring the performance of principal instructors and guest instructors.

"Training Provider" means any organization or entity accredited under R307-842-1 to offer lead-based paint activities, renovator, or dust sampling technician courses.

"Vertical containment" means a vertical barrier consisting of plastic sheeting or other impermeable material over scaffolding or a rigid frame, or an equivalent system of containing the work area. Vertical containment is required for some exterior renovations but it may be used on any renovation.

"Visual Inspection for Clearance Testing" means the visual examination of a residential dwelling or a child-occupied facility following abatement to determine whether or not the abatement has been successfully completed.

"Visual Inspection for Risk Assessment" means the visual examination of a residential dwelling or a child-occupied facility to determine the existence of deteriorated lead-based paint or other potential sources of lead-based paint hazards.

"Weighted Arithmetic Mean" means the arithmetic mean of sample results weighted by the number of subsamples in each

sample. Its purpose is to give influence to a sample relative to the surface area it represents. A single surface sample is comprised of a single subsample. A composite sample may contain from two to four subsamples of the same area as each other and of each single surface sample in the composite. The weighted arithmetic mean is obtained by summing, for all samples, the product of the sample's result multiplied by the number of subsamples in the sample, and dividing the sum by the total number of subsamples contained in all samples. For example, the weighted arithmetic mean of a single surface sample containing 60 ug/ft^2, a composite sample (3 subsamples) containing 100 ug/ft^2, and a composite sample (4 subsamples) containing 110 ug/ft^2 is 100 ug/ft^2. This result is based on the equation (60+(3*100)+(4*110))/(1+3+4).

"Wet Disposable Cleaning Cloth" means a commercially available, pre-moistened white disposable cloth designed to be used for cleaning hard surfaces such as uncarpeted floors or counter tops.

"Wet Mopping System" means a device with the following characteristics: A long handle, a mop head designed to be used with disposable absorbent cleaning pads, a reservoir for cleaning solution, and a built-in mechanism for distributing or spraying the cleaning solution onto a floor, or a method of equivalent efficacy.

"Window Trough" means, for a typical double-hung window, the portion of the exterior window sill between the interior window sill (or stool) and the frame of the storm window. If there is no storm window, the window trough is the area that receives both the upper and lower window sashes when they are both lowered. The window trough is sometimes referred to as the window "well."

"Wipe Sample" means a sample collected by wiping a representative surface of known area, as determined by ASTM E1728, "Standard Practice for Field Collection of Settled Dust Samples Using Wipe Sampling Methods for Lead Determination by Atomic Spectrometry Techniques", or equivalent method, with an acceptable wipe material as defined in ASTM E1792, "Standard Specification for Wipe Sampling Materials for Lead in Surface Dust."

"Work Area" means the area that the certified renovator establishes to contain the dust and debris generated by a renovation.

"0-Bedroom Dwelling" means any residential dwelling in which the living area is not separated from the sleeping area. The term includes efficiencies, studio apartments, dormitory housing, military barracks, and rentals of individual rooms in residential dwellings.

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R307. Environmental Quality, Air Quality.
R307-841. Residential Property and Child-Occupied Facility Renovation.
R307-841-1. Purpose.

This rule contains regulations developed under Sections 402 and 406 of the Toxic Substances Control Act (15 U.S.C. 2682 and 2686) and applies to all renovations performed for compensation in target housing and child-occupied facilities. The purpose of this rule is to ensure the following:

(1) Owners and occupants of target housing and child-occupied facilities receive information on lead-based paint hazards before these renovations begin; and

(2) Individuals performing renovations regulated in accordance with R307-841-3 are properly trained; renovators and firms performing these renovations are certified; and the work practices in R307-841-5 are followed during these renovations.

R307-841-2. Effective Dates.

(1) Training, certification and accreditation requirements, and work practice standards. The training, certification and accreditation requirements and work practice standards in this rule are applicable as follows:

(a) Training programs. Effective April 8, 2010, no training program may provide, offer, or claim to provide training or refresher training for director certification as a renovator or a dust sampling technician without accreditation from the director under R307-842-1. Training programs may apply for accreditation under R307-842-1;

(b) Firms.

(i) Firms may apply for certification under R307-841-7 beginning April 8, 2010.

(ii) On or after April 8, 2010, no firm may perform, offer, or claim to perform renovations without certification from the director under R307-841-7 in target housing or child-occupied facilities, unless the renovation qualifies as one of the exceptions identified in R307-841-3(1).

(c) Individuals. On or after April 8, 2010, all renovations must be directed by renovators certified in accordance with R307-841-8(1) and performed by certified renovators or individuals trained in accordance with R307-841-8(2)(b) in target housing or child-occupied facilities, unless the renovation qualifies for one of the exceptions identified in R307-841-3(1).

(d) Work practices.

(i) On or after April 8, 2010 and before July 5, 2012, all renovations must be performed in accordance with the work practice standards in R307-841-5 and the associated recordkeeping requirements in R307-841-6(2)(a) and (2)(f) in target housing or child-occupied facilities, unless the renovation qualifies for the exceptions identified in R307-841-3(1). This does not apply to renovations in target housing for which the firm performing the renovation has obtained a statement signed by the owner that the renovation will occur in the owner's residence, no child under age

six resides there, the housing is not a child-occupied facility, and the owner acknowledges that the work practices to be used during the renovation will not necessarily include all of the lead-safe work practices contained in EPA's renovation, repair, and painting rule. For the purposes of this section, a child resides in the primary residence of his or her custodial parents, legal guardians, and foster parents. A child also resides in the primary residence of an informal caretaker if the child lives and sleeps most of the time at the caretaker's residence.

(ii) On or after July 5, 2012, all renovations must be performed in accordance with the work practice standards in R307-841-5 and the associated recordkeeping requirements in R307-841-6(2)(a) and (2)(f) in target housing or child-occupied facilities, unless the renovation qualifies for the exception identified in R307-841-3(1).

(2) Renovation-specific pamphlet. Renovators or firms performing renovations must provide owners and occupants with "Renovate Right: Important Lead Hazard Information for Families, Child Care Providers and Schools."

R307-841-3. Applicability.

(1) This rule applies to all renovations performed for compensation in target housing and child-occupied facilities, except for the following:

(a) Renovations in target housing or child-occupied facilities in which a written determination has been made by an inspector or risk assessor, certified pursuant to R307-842-2, that the components affected by the renovation are free of paint or other surface coatings that contain lead equal to or in excess of 1.0 milligrams/per square centimeter (mg/cm^2) or 0.5% by weight, where the firm performing the renovation has obtained a copy of the determination; or

(b) Renovations in target housing or child-occupied facilities in which a certified renovator, using an EPA-recognized test kit as defined in R307-840-2 and following the kit manufacturer's instructions, has tested each component affected by the renovation and determined that the components are free of paint or other surface coatings that contain lead equal to or in excess of 1.0 mg/cm^2 or 0.5% by weight. If the components make up an integrated whole, such as the individual stair treads and risers of a single staircase, the renovator is required to test only one of the individual components, unless the individual components appear to have been repainted or refinished separately.

(c) Renovations in target housing or child-occupied facilities in which a certified renovator has collected a paint chip sample from each painted component affected by the renovation and a laboratory recognized by EPA pursuant to section 405(b) of TSCA as being capable of performing analyses for lead compounds in paint chip samples has determined that the samples are free of paint or other surface coatings that contain lead equal to or in excess of 1.0 mg/cm^2 or 0.5% by weight. If the components make up an integrated whole, such as the individual stair treads and

risers of a single staircase, the renovator is required to test only one of the individual components, unless the individual components appear to have been repainted or refinished separately.

(2) The information distribution requirements in R307-841-4 do not apply to emergency renovations, which are renovation activities that were not planned but result from a sudden, unexpected event (such as non-routine failures of equipment) that, if not immediately attended to, presents a safety or public health hazard, or threatens equipment and/or property with significant damage. Interim controls performed in response to an elevated blood lead level in a resident child are also emergency renovations. Emergency renovations other than interim controls are also exempt from the warning sign, containment, waste handling, training, and certification requirements in R307-841-5, R307-841-7, and R307-841-8 to the extent necessary to respond to the emergency. Emergency renovations are not exempt from the cleaning requirements of R307-841-5(1)(e) which must be performed by certified renovators or individuals trained in accordance with R307-841-8(2)(b), the cleaning verification requirements of R307-841-5(2), which must be performed by certified renovators, and the recordkeeping requirements of R307-841-6(2)(e) and (f).

R307-841-4. Information Distribution Requirements.

(1) Renovations in dwelling units. No more than 60 days before beginning renovation activities in any residential dwelling unit of target housing, the firm performing the renovation must:

(a) Provide the owner of the unit with the pamphlet, and comply with one of the following:

(i) Obtain, from the owner, a written acknowledgment that the owner has received the pamphlet; or

(ii) Obtain a certificate of mailing at least 7 days prior to the renovation; and

(b) If the owner does not occupy the dwelling unit, provide an adult occupant of the unit with the pamphlet, and comply with one of the following:

(i) Obtain, from the adult occupant, a written acknowledgment that the occupant has received the pamphlet, or certify in writing that a pamphlet has been delivered to the dwelling and that the firm performing the renovation has been unsuccessful in obtaining a written acknowledgment from an adult occupant. Such certification must include the address of the unit undergoing renovation, the date and method of delivery of the pamphlet, names of the persons delivering the pamphlet, reason for lack of acknowledgment (e.g., occupant refuses to sign, no adult occupant available), the signature of a representative of the firm performing the renovation, and the date of signature; or

(ii) Obtain a certificate of mailing at least 7 days prior to the renovation.

(2) Renovations in common areas. No more than 60 days before beginning renovation activities in common areas of multi-unit target housing, the firm performing the renovation must:

(a) Provide the owner with the pamphlet, and comply with one

of the following:

(i) Obtain, from the owner, a written acknowledgment that the owner has received the pamphlet; or

(ii) Obtain a certificate of mailing at least 7 days prior to the renovation;

(b) Comply with one of the following:

(i) Notify in writing, or ensure written notification of, each affected unit and make the pamphlet available upon request prior to the start of renovation. Such notification shall be accomplished by distributing written notice to each affected unit. The notice shall describe the general nature and locations of the planned renovation activities, the expected starting and ending dates, and a statement of how the occupant can obtain the pamphlet and a copy of the records required by R307-841-6(3) and (4) at no cost to the occupants; or

(ii) While the renovation is ongoing, post informational signs describing the general nature and locations of the renovation and the anticipated completion date. These signs must be posted in areas where they are likely to be seen by the occupants of all of the affected units. The signs must be accompanied by a posted copy of the pamphlet or information on how interested occupants can review a copy of the pamphlet or obtain a copy from the renovation firm at no cost to occupants. The signs must also include information on how interested occupants can review a copy of the records required by R307-841-6(3) and (4) or obtain a copy from the renovation firm at no cost to the occupants;

(c) Prepare, sign, and date a statement describing the steps performed to notify all occupants of the intended renovation activities and to provide the pamphlet; and

(d) If the scope, locations, or expected starting and ending dates of the planned renovation activities change after the initial notification, and the firm provided written initial notification to each affected unit, the firm performing the renovation must provide further written notification to the owners and occupants providing revised information on the ongoing or planned activities. This subsequent notification must be provided before the firm performing the renovation initiates work beyond that which was described in the original notice.

(3) Renovations in child-occupied facilities. No more than 60 days before beginning renovation activities in any child-occupied facility, the firm performing the renovation must:

(a)(i) Provide the owner of the building with the pamphlet, and comply with one of the following:

(A) Obtain, from the owner, a written acknowledgment that the owner has received the pamphlet; or

(B) Obtain a certificate of mailing at least 7 days prior to the renovation;

(ii) If the adult representative of the child-occupied facility is not the owner of the building, provide an adult representative of the child-occupied facility with the pamphlet, and comply with one of the following:

(A) Obtain, from the adult representative, a written acknowledgment that the adult representative has received the pamphlet, or certify in writing that a pamphlet has been delivered to the facility and that the firm performing the renovation has been unsuccessful in obtaining a written acknowledgment from an adult representative. Such certification must include the address of the child-occupied facility undergoing renovation, the date and method of delivery of the pamphlet, names of the persons delivering the pamphlet, reason for lack of acknowledgment (e.g., representative refuses to sign), the signature of a representative of the firm performing the renovation, and the date of signature; or

(B) Obtain a certificate of mailing at least 7 days prior to the renovation;

(b) Provide the parents and guardians of children using the child-occupied facility with the pamphlet and information describing the general nature and locations of the renovation and the anticipated completion date and information on how interested parents or guardians of children frequenting the child-occupied facility can review a copy of the records required by R307-841-6(3) and (4) or obtain a copy from the renovation firm at no cost to the parents or guardians by complying with one of the following:

(i) Mail or hand-deliver the pamphlet and the renovation information to each parent or guardian of a child using the child-occupied facility; or

(ii) While the renovation is ongoing, post informational signs describing the general nature and locations of the renovation and the anticipated completion date. These signs must be posted in areas where they can be seen by the parents or guardians of the children frequenting the child-occupied facility. The signs must be accompanied by a posted copy of the pamphlet or information on how interested parents or guardians of children frequenting the child-occupied facility can review a copy of the pamphlet or obtain a copy from the renovation firm at no cost to the parents or guardians. The signs must also include information on how interested parents or guardians of children frequenting the child-occupied facility can review a copy of the records required by R307-841-6(3) and (4) or obtain a copy from the renovation firm at no cost to the parents or guardians.

(c) The renovation firm must prepare, sign, and date a statement describing the steps performed to notify all parents and guardians of the intended renovation activities and to provide the pamphlet.

(4) Written acknowledgment. The written acknowledgments required by paragraphs (1)(a)(i), (1)(b)(i), (2)(a)(i), (3)(a)(i)(A), and (3)(a)(ii)(A) of this section must:

(a) Include a statement recording the owner or occupant's name and acknowledging receipt of the pamphlet prior to the start of renovation, the address of the unit undergoing renovation, the signature of the owner or occupant as applicable, and the date of signature;

(b) Be either a separate sheet or part of any written contract or service agreement for the renovation; and

(c) Be written in the same language as the text of the contract or agreement for the renovation or, in the case of non-owner occupied target housing, in the same language as the lease or rental agreement or the pamphlet.

R307-841-5. Work Practice Standards.

(1) Standards for renovation activities. Renovations must be performed by firms certified under R307-841-7 using renovators certified under R307-841-8. The responsibilities of certified firms are set forth in R307-841-7(4) and the responsibilities of certified renovators are set forth in R307-841-8(2).

(a) Occupant protection. Firms must post signs clearly defining the work area and warning occupants and other persons not involved in renovation activities to remain outside of the work area. To the extent practicable, these signs must be in the primary language of the occupants. These signs must be posted before beginning the renovation, must remain in place, and must be readable until the renovation and the post-renovation cleaning verification have been completed. If warning signs have been posted in accordance with 24 CFR 35.1345(b)(2) or 29 CFR 1926.62(m), additional signs are not required by this section.

(b) Containing the work area. Before beginning the renovation, the firm must isolate the work area so that no dust or debris leaves the work area while the renovation is being performed. In addition, the firm must maintain the integrity of the containment by ensuring that any plastic or other impermeable materials are not torn or displaced, and taking any other steps necessary to ensure that no dust or debris leaves the work area while the renovation is being performed. The firm must also ensure that containment is installed in such a manner that it does not interfere with occupant and worker egress in an emergency.

(i) Interior renovations. The firm must:

(A) Remove all objects from the work area, including furniture, rugs, and window coverings, or cover them with plastic sheeting or other impermeable material with all seams and edges taped or otherwise sealed;

(B) Close and cover all duct openings in the work area with taped-down plastic sheeting or other impermeable material;

(C) Close windows and doors in the work area. Doors must be covered with plastic sheeting or other impermeable material. Doors used as an entrance to the work area must be covered with plastic sheeting or other impermeable material in a manner that allows workers to pass through while confining dust and debris to the work area;

(D) Cover the floor surface, including installed carpet, with taped-down plastic sheeting or other impermeable material in the work area 6 feet beyond the perimeter of surfaces undergoing renovation or a sufficient distance to contain the dust, whichever is greater. Floor containment measures may stop at the edge of the vertical barrier when using a vertical containment system

consisting of impermeable barriers that extend from the floor to the ceiling and are tightly sealed at joints with the floor, ceiling, and walls; and

(E) Use precautions to ensure that all personnel, tools, and other items, including the exterior of containers of waste, are free of dust and debris before leaving the work area.

(ii) Exterior renovations. The firm must:

(A) Close all doors and windows within 20 feet of the renovation. On multi-story buildings, close all doors and windows within 20 feet of the renovation on the same floor as the renovation, and close all doors and windows on all floors below that are the same horizontal distance from the renovation;

(B) Ensure that doors within the work area that will be used while the job is being performed are covered with plastic sheeting or other impermeable material in a manner that allows workers to pass through while confining dust and debris to the work area;

(C) Cover the ground with plastic sheeting or other disposable impermeable material extending 10 feet beyond the perimeter of surfaces undergoing renovation or a sufficient distance to collect falling paint debris, whichever is greater, unless the property line prevents 10 feet of such ground covering. Ground containment measures may stop at the edge of the vertical barrier when using a vertical containment system; and

(D) If the renovation will affect surfaces within 10 feet of the property line, the renovation firm must erect vertical containment or equivalent extra precautions in containing the work area to ensure that dust and debris from the renovation does not contaminate adjacent buildings or migrate to adjacent properties. Vertical containment or equivalent extra precautions in containing the work area may also be necessary in other situations in order to prevent contamination of other buildings, other areas of the property, or adjacent buildings or properties.

(c) Prohibited and restricted practices. The work practices listed below are prohibited or restricted during a renovation as follows:

(i) Open-flame burning or torching of painted surfaces is prohibited;

(ii) The use of machines designed to remove paint or other surface coatings through high speed operation such as sanding, grinding, power planning, needle gun, abrasive blasting, or sandblasting, is prohibited on painted surfaces unless such machines have shrouds or containment systems and are equipped with a HEPA vacuum attachment to collect dust and debris at the point of generation. Machines must be operated so that no visible dust or release of air occurs outside the shroud or containment system; and

(iii) Operating a heat gun on painted surfaces is permitted only at temperatures below 1,100 degrees Fahrenheit.

(d) Waste from renovations.

(i) Waste from renovation activities must be contained to prevent releases of dust and debris before the waste is removed from the work area for storage or disposal. If a chute is used to

remove waste from the work area, it must be covered.

(ii) At the conclusion of each work day and at the conclusion of the renovation, waste that has been collected from renovation activities must be stored under containment, in an enclosure, or behind a barrier that prevents release of dust and debris out of the work area and prevents access to dust and debris.

(iii) When the firm transports waste from renovation activities, the firm must contain the waste to prevent release of dust and debris.

(e) Cleaning the work area. After the renovation has been completed, the firm must clean the work area until no dust, debris, or residue remains.

(i) Interior and exterior renovations. The firm must:

(A) Collect all paint chips and debris and, without dispersing any of it, seal this material in a heavy-duty bag; and

(B) Remove the protective sheeting. Mist the sheeting before folding it, fold the dirty side inward, and either tape shut to seal or seal in heavy-duty bags. Sheeting used to isolate contaminated rooms from non-contaminated rooms must remain in place until after the cleaning and removal of other sheeting. Dispose of the sheeting as waste.

(ii) Additional cleaning for interior renovations. The firm must clean all objects and surfaces in the work area and within 2 feet of the work area in the following manner, cleaning from higher to lower:

(A) Walls. Clean walls starting at the ceiling and working down to the floor by either vacuuming with a HEPA vacuum or wiping with a damp cloth;

(B) Remaining surfaces. Thoroughly vacuum all remaining surfaces and objects in the work area, including furniture and fixtures, with a HEPA vacuum. The HEPA vacuum must be equipped with a beater bar when vacuuming carpets and rugs; and

(C) Wipe all remaining surfaces and objects in the work area, except for carpeted or upholstered surfaces, with a damp cloth. Mop uncarpeted floors thoroughly, using a mopping method that keeps the wash water separate from the rinse water, such as the 2-bucket mopping method, or using a wet mopping system.

(2) Standards for post-renovation cleaning verification.

(a) Interiors.

(i) A certified renovator must perform a visual inspection to determine whether dust, debris, or residue is still present. If dust, debris, or residue is present, these conditions must be removed by re-cleaning and another visual inspection must be performed.

(ii) After a successful visual inspection, a certified renovator must:

(A) Verify that each windowsill in the work area has been adequately cleaned, using the following procedure.

(I) Wipe the windowsill with a wet disposable cleaning cloth that is damp to the touch. If the cloth matches or is lighter than the cleaning verification card, the windowsill has been

adequately cleaned.

(II) If the cloth does not match and is darker than the cleaning verification card, re-clean the windowsill as directed in paragraphs (1)(e)(ii)(B) and (1)(e)(ii)(C) of this section, then either use a new cloth or fold the used cloth in such a way that an unused surface is exposed, and wipe the surface again. If the cloth matches or is lighter than the cleaning verification card, that windowsill has been adequately cleaned.

(III) If the cloth does not match and is darker than the cleaning verification card, wait for 1 hour or until the surface has dried completely, whichever is longer.

(IV) After waiting for the windowsill to dry, wipe the windowsill with a dry disposable cleaning cloth. After this wipe, the windowsill has been adequately cleaned.

(B) Wipe uncarpeted floors and countertops within the work area with a wet disposable cleaning cloth. Floors must be wiped using application device with a long handle and a head to which the cloth is attached. The cloth must remain damp at all times while it is being used to wipe the surface for post-renovation cleaning verification. If the surface within the work area is greater than 40 square feet, the surface within the work area must be divided into roughly equal sections that are each less than 40 square feet. Wipe each such section separately with a new wet disposable cleaning cloth. If the cloth used to wipe each section of the surface within the work area matches the cleaning verification card, the surface has been adequately cleaned.

(I) If the cloth used to wipe a particular surface section does not match the cleaning verification card, re-clean that section of the surface as directed in paragraphs (1)(e)(ii)(B) and (1)(e)(ii)(C) of this section, then use a new wet disposable cleaning cloth to wipe that section again. If the cloth matches the cleaning verification card, that section of the surface has been adequately cleaned.

(II) If the cloth used to wipe a particular surface section does not match the cleaning verification card after the surface has been re-cleaned, wait for 1 hour or until the entire surface within the work area has dried completely, whichever is longer.

(III) After waiting for the entire surface within the work area to dry, wipe each section of the surface that has not yet achieved post-renovation cleaning verification with a dry disposable cleaning cloth. After this wipe, that section of the surface has been adequately cleaned.

(iii) When the work area passes the post-renovation cleaning verification, remove the warning signs.

(b) Exteriors. A certified renovator must perform a visual inspection to determine whether dust, debris, or residue is still present on surfaces in and below the work area, including windowsills and the ground. If dust, debris, or residue is present, these conditions must be eliminated and another visual inspection must be performed. When the area passes the visual inspection, remove the warning signs.

(3) Optional dust clearance testing. Cleaning verification

need not be performed if the contract between the renovation firm and the person contracting for the renovation or another federal, state, territorial, tribal, or local law or regulation requires:

(a) The renovation firm to perform dust clearance sampling at the conclusion of a renovation covered by this rule.

(b) The dust clearance samples are required to be collected by a certified inspector, risk assessor, or dust sampling technician.

(c) The renovation firm is required to re-clean the work area until the dust clearance sample results are below the clearance standards in R307-842-3(5)(h) or any local standard.

(4) Activities conducted after post-renovation cleaning verification. Activities that do not disturb paint, such as applying paint to walls that have already been prepared, are not regulated by this rule if they are conducted after post-renovation cleaning verification has been performed.

R307-841-6. Recordkeeping and Reporting Requirements.

(1) Firms performing renovations must retain and, if requested, make available to the director all records necessary to demonstrate compliance with this rule for a period of 3 years following completion of the renovation. This 3-year retention requirement does not supersede longer obligations required by other provisions for retaining the same documentation.

(2) Records that must be retained pursuant to paragraph (1) of this section shall include (where applicable):

(a) Records or reports certifying that a determination had been made that lead-based paint is not present on the components affected by the renovation, as described in R307-841-3(1). These records or reports include:

(i) Reports prepared by a certified inspector or certified risk assessor certified pursuant to R307-842-2.

(ii) Records prepared by a certified renovator after using EPA-recognized test kits, including an identification of the manufacturer and model of any test kits used, a description of the components that were tested including their locations, and the result of each test kit used.

(iii) Records prepared by a certified renovator after collecting paint chip samples, including a description of the components that were tested including their locations, the name and address of the NLLAP-recognized entity performing the analysis, and the results for each sample.

(b) Signed and dated acknowledgments of receipt as described in R307-841-4(1)(a)(i), (1)(b)(i), (2)(a)(i), (3)(a)(i)(A), and (3)(a)(ii)(A).

(c) Certifications of attempted delivery as described in R307-841-4(1)(b)(i) and (3)(a)(ii)(A).

(d) Certificates of mailing as described in R307-841-4(1)(a)(ii), (1)(b)(ii), (2)(a)(ii), (3)(a)(i)(B), and (3)(a)(ii)(B).

(e) Records of notification activities performed regarding common area renovations, as described in R307-841-4(2)(c) and

(2)(d), and renovations in child-occupied facilities, as described in R307-841-4(3)(b).

(f) Documentation of compliance with the requirements of R307-841-5, including documentation that a certified renovator was assigned to the project, that the certified renovator provided on-the-job training for workers used on the project, that the certified renovator performed or directed workers who performed all of the tasks described in R307-841-5(1), and that the certified renovator performed the post-renovation cleaning verification described in R307-841-5(2). If the renovation firm was unable to comply with all of the requirements of this rule due to an emergency as defined in R307-841-3, the firm must document the nature of the emergency and the provisions of the rule that were not followed. This documentation must include a copy of the certified renovator's current Utah Lead-Based Paint Renovator certification card, and a certification by the certified renovator assigned to the project that:

(i) Training was provided to workers (topics must be identified for each worker).

(ii) Warning signs were posted at the entrances to the work area.

(iii) If test kits were used, that the specified brand of kits was used at the specified locations and that the results were as specified.

(iv) If paint chip samples were collected, that the samples were collected at the specified locations, that the specified NLLAP-recognized laboratory analyzed the samples, and that the results were as specified.

(v) The work area was contained by:

(A) Removing or covering all objects in the work area (interiors);

(B) Closing and covering all HVAC ducts in the work area (interiors);

(C) Closing all windows in the work area (interiors) or closing all windows in and within 20 feet of the work area (exteriors);

(D) Closing and sealing all doors in the work area (interiors) or closing and sealing all doors in and within 20 feet of the work area (exteriors);

(E) Covering doors in the work area that were being used to allow passage but prevent spread of dust;

(F) Covering the floor surface, including installed carpet, with taped-down plastic sheeting or other impermeable material in the work area 6 feet beyond the perimeter of surfaces undergoing renovation or a sufficient distance to contain the dust, whichever is greater (interiors) or covering the ground with plastic sheeting or other disposable impermeable material anchored to the building extending 10 feet beyond the perimeter of surfaces undergoing renovation or a sufficient distance to collect falling paint debris, whichever is greater, unless the property line prevents 10 feet of such ground covering, weighted down by heavy objects (exteriors); and

(G) Installing (if necessary) vertical containment to prevent migration of dust and debris to adjacent property (exteriors).

(vi) Waste was contained on-site and while being transported off-site.

(vii) The work area was properly cleaned after the renovation by:

(A) Picking up all chips and debris, misting protective sheeting, folding it dirty side inward, and taping it for removal; and

(B) Cleaning the work area surfaces and objects using a HEPA vacuum and/or wet cloths or mops (interiors).

(viii) The certified renovator performed the post-renovation cleaning verification (the results of which must be briefly described, including the number of wet and dry cloths used).

(3)(a) When the final invoice for the renovation is delivered or within 30 days of the completion of the renovation, whichever is earlier, the renovation firm must provide information pertaining to compliance with this rule to the following persons:

(i) The owner of the building; and, if different,

(ii) An adult occupant of the residential dwelling, if the renovation took place within a residential dwelling, or an adult representative of the child-occupied facility, if the renovation took place within a child-occupied facility.

(b) When performing renovations in common areas of multi-unit target housing, renovation firms must post the information required by this rule or instructions on how interested occupants can obtain a copy of this information. This information must be posted in areas where it is likely to be seen by the occupants of all of the affected units.

(c) The information required to be provided by paragraph (3) of this section may be provided by completing the sample form titled "Sample Renovation Recordkeeping Checklist" or a similar form containing the test kit information required by R307-841-6(2)(a)(ii) and the training and work practice compliance information required by R307-841-6(2)(f).

(4) If dust clearance sampling is performed in lieu of cleaning verification as permitted by R307-841-5(3), the renovation firm must provide, when the final invoice for the renovation is delivered or within 30 days of the completion of the renovation, whichever is earlier, a copy of the dust sampling report to:

(a) The owner of the building; and, if different,

(b) An adult occupant of the residential dwelling, if the renovation took place within a residential dwelling, or an adult representative of the child-occupied facility, if the renovation took place within a child-occupied facility.

(c) When performing renovations in common areas of multi-unit target housing, renovation firms must post these dust sampling reports or information on how interested occupants of the housing being renovated can obtain a copy of the report. This information must be posted in areas where they are likely to be

seen by the occupants of all of the affected units.

R307-841-7. Firm Certification.

(1) Initial certification.

(a) Firms that perform renovations for compensation must apply to the director for certification to perform renovations or dust sampling. To apply, a firm must submit to the director a completed "Lead-Based Paint Certification Application for Firms," signed by an authorized agent of the firm, and pay the correct amount of fees.

(b) After the director receives a firm's application, the director will take one of the following actions within 90 days of the date the application is received:

(i) The director will approve a firm's application if the director determines that it is complete and that the environmental compliance history of the firm, its principals, or its key employees does not show an unwillingness or inability to maintain compliance with environmental statutes or regulations. An application is complete if it contains all of the information requested on the form and includes at least the correct amount of fees. When the director approves a firm's application, the director will issue the firm a certificate with an expiration date not more than 5 years from the date the application is approved;

(ii) The director will request a firm to supplement its application if the director determines that the application is incomplete. If the director requests a firm to supplement its application, the firm must submit the requested information or pay the additional fees within 30 days of the date of the request; and

(iii) The director will not approve a firm's application if the firm does not supplement its application in accordance with paragraph (1)(b)(ii) of this section or if the director determines that the environmental compliance history of the firm, its principals, or its key employees demonstrates an unwillingness or inability to maintain compliance with environmental statutes or regulations. The director will send the firm a letter giving the reason for not approving the application. The director will not refund the application fees. A firm may reapply for certification at any time by filing a new, complete application that includes the correct amount of fees.

(2) Re-certification. To maintain its certification, a firm must be re-certified by the director.

(a) Timely and complete application. To be re-certified, a firm must submit a complete application for re-certification. A complete application for re-certification includes a completed "Lead-Based Paint Certification Application for Firms" which contains all of the information requested by the form and is signed by an authorized agent of the firm, noting on the form that it is submitted as a re-certification. A complete application must also include the correct amount of fees.

(i) An application for re-certification is timely if it is postmarked 90 days or more before the date the firm's current certification expires. If the firm's application is complete and

timely, the firm's current certification will remain in effect until its expiration date or until the director has made a final decision to approve or disapprove the re-certification application, whichever is later.

(ii) If the firm submits a complete re-certification application less than 90 days before its current certification expires, and the director does not approve the application before the expiration date, the firm's current certification will expire and the firm will not be able to conduct renovations until the director approves its re-certification application.

(iii) If the firm fails to obtain recertification before the firm's current certification expires, the firm must not perform renovations or dust sampling until it is certified anew pursuant to paragraph (1), of this section.

(b) Director's action on an application. After the director receives a firm's application for re-certification, the director will review the application and take one of the following actions within 90 days of receipt:

(i) The director will approve a firm's application if the director determines that it is timely and complete and that the environmental compliance history of the firm, its principals, or its key employees does not show an unwillingness or inability to maintain compliance with environmental statutes or regulations. When the director approves a firm's application for re-certification, the director will issue the firm a new certificate with an expiration date not more than 5 years from the date that the firm's current certification expires.

(ii) The director will request a firm to supplement its application if the director determines that the application is incomplete.

(iii) The director will not approve a firm's application if it is not received or is not complete as of the date that the firm's current certification expires, or if the director determines that the environmental compliance history of the firm, its principals, or its key employees demonstrates an unwillingness or inability to maintain compliance with environmental statutes or regulations. The director will send the firm a letter giving the reason for not approving the application. The director will not refund the application fees. A firm may reapply for certification at any time by filing a new application and paying the correct amount of fees.

(3) Amendment of certification. A firm must amend its certification within 90 days of the date a change occurs to information included in the firm's most recent application. If the firm fails to amend its certification within 90 days of the date the change occurs, the firm may not perform renovations or dust sampling until its certification is amended.

(a) To amend a certification, a firm must submit a completed "Lead-Based Paint Certification Application for Firms," signed by an authorized agent of the firm, noting on the form that it is submitted as an amendment and indicating the information that has changed. The firm must also pay at least the correct amount of

fees.

(b) If additional information is needed to process the amendment, or the firm did not pay the correct amount of fees, the director will request the firm to submit the necessary information or fees. The firm's certification is not amended until the firm complies with the request.

(c) Amending a certification does not affect the certification expiration date.

(4) Firm responsibilities. Firms performing renovations must ensure that:

(a) All individuals performing renovation activities on behalf of the firm are either certified renovators or have been trained by a certified renovator in accordance with R307-841-8;

(b) A certified renovator is assigned to each renovation performed by the firm and discharges all of the certified renovator responsibilities identified in R307-841-8;

(c) All renovations performed by the firm are performed in accordance with the work practice standards in R307-841-5;

(d) The pre-renovation education requirements of R307-841-4 have been performed; and

(e) The recordkeeping requirements of R307-841-6 are met.

R307-841-8. Renovator Certification and Dust Sampling Technician Certification.

(1) Renovator certification and dust sampling technician certification.

(a) To become a certified renovator or certified dust sampling technician, an individual must successfully complete an initial lead-based paint renovator or dust-sampling technician course accredited by the director under R307-842-1, the EPA under 40 CFR 745.225, or a state or tribal program that has been authorized by EPA pursuant to subpart Q of 40 CFR 745.

(b) Individuals who have successfully completed an accredited abatement worker or supervisor course, or individuals who have successfully completed a director, EPA, HUD, or EPA/HUD model renovation training course before October 4, 2011, but no later than the training course expiration date found on that training certificate, may take an accredited refresher renovator training course in lieu of the initial renovator training course to become a certified renovator.

(c) Individuals who have successfully completed an accredited lead-based paint inspector or risk assessor course before October 4, 2011, but no later than the training course expiration date found on that training certificate, may take an accredited refresher dust sampling technician course in lieu of the initial training to become a certified dust sampling technician. Individuals who are currently certified as lead-based paint inspectors or risk assessors may act as certified dust sampling technicians without further training.

(d) To maintain renovator certification or dust sampling technician certification, an individual must complete a renovator or dust sampling technician refresher course accredited by the

director under R307-842-1, the EPA under 40 CFR 745.225, or by a state or tribal program that is authorized under subpart Q of 40 CFR 745 within 5 years of the date the individual completed the initial course described in paragraph (1)(a) of this section. If the individual does not complete a refresher course within this time, the individual must re-take the initial course to become certified again. Individuals who complete a renovator course accredited by the director under R307-842-1, the EPA or an EPA authorized program on or before March 31, 2010, must complete a renovator refresher course accredited by the director under R307-842-1, the EPA or an EPA authorized program on or before March 31, 2016, to maintain renovator certification. Individuals who completed a renovator course accredited by the director under R307-842-1, the EPA or an EPA authorized program between April 1, 2010 and March 31, 2011, will have one year added to their original 5-year certification.

(2) Renovator responsibilities. Certified renovators are responsible for ensuring compliance with R307-841-5 at all renovations to which they are assigned. A certified renovator:

(a) Must perform all of the tasks described in R307-841-5(2) and must either perform or direct workers who perform all of the tasks described in R307-841-5(1);

(b) Must provide training to workers on the work practices required by R307-841-5(1) that they will be using in performing their assigned tasks;

(c) Must be physically present at the work site when the signs required by R307-841-5(1)(a) are posted, while the work area containment required by R307-841-5(1)(b) is being established, and while the work area cleaning required by R307-841-5(1)(e) is performed;

(d) Must regularly direct work being performed by other individuals to ensure that the work practices required by R307-841-5(1) are being followed, including maintaining the integrity of the containment barriers and ensuring that dust or debris does not spread beyond the work area;

(e) Must be available, either on-site or by telephone, at all times that renovations are being conducted;

(f) When requested by the party contracting for renovation services, must use an acceptable test kit to determine whether components to be affected by the renovation contain lead-based paint;

(g) Must have with them at the work site their current Utah Lead-Based Paint Renovator certification card; and

(h) Must prepare the records required by R307-841-6(2)(a)(ii), (iii), and (f).

(3) Dust sampling technician responsibilities. When performing optional dust clearance sampling under R307-841-5(3), a certified dust sampling technician:

(a) Must collect dust samples in accordance with R307-842-3(5)(h), must send the collected samples to a laboratory recognized by EPA under TSCA Section 405(b), and must compare the results to the clearance levels in accordance with R307-842-

3(5)(h); and

(b) Must have with them at the work site their current Utah Lead-Based Paint Dust Sampling Technician certification card.

R307-841-9. Suspending, Revoking, or Modifying an Individual's or Firm's Certification.

(1) Grounds for suspending, revoking, or modifying an individual's certification. The director may suspend, revoke, or modify an individual's certification if the individual fails to comply with state lead-based paint administrative rules. The director may also suspend, revoke, or modify a certified renovator's certification if the renovator fails to ensure that all assigned renovations comply with R307-841-5. In addition to an administrative or judicial finding of violation, execution of a consent agreement in settlement of an enforcement action constitutes, for purposes of this section, evidence of a failure to comply with relevant statutes or regulations.

(2) Grounds for suspending, revoking, or modifying a firm's certification. The director may suspend, revoke, or modify a firm's certification if the firm:

(a) Submits false or misleading information to the director in its application for certification or re-certification,

(b) Fails to maintain or falsifies records required in R307-841-6, or

(c) Fails to comply, or an individual performing a renovation on behalf of the firm fails to comply, with state lead-based paint administrative rules. In addition to an administrative or judicial finding of violation, execution of a consent agreement in settlement of an enforcement action constitutes, for purposes of this section, evidence of a failure to comply with relevant statutes or regulations.

KEY: paint, lead-based paint, lead-based paint renovation
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R307. Environmental Quality, Air Quality.
R307-842. Lead-Based Paint Activities.
R307-842-1. Accreditation of Training Programs: Target Housing and Child-Occupied Facilities.

(1) Scope.

(a) A training program may seek accreditation to offer courses in any of the following disciplines: inspector, risk assessor, supervisor, project designer, abatement worker, renovator, and dust sampling technician. A training program may also seek accreditation to offer refresher courses for each of the above listed disciplines.

(b) Training programs may apply to the director for accreditation of their lead-based paint activities courses or refresher courses pursuant to this section. Training programs may

apply to the director for accreditation of their renovator or dust sampling technician courses or refresher courses pursuant to this section.

(c) A training program must not provide, offer, or claim to provide director-accredited lead-based paint activities courses without applying for and receiving accreditation from the director as required under paragraph (2) of this section. A training program must not provide, offer, or claim to provide director-accredited renovator or dust sampling technician courses without applying for and receiving accreditation from the director as required under paragraph (2) of this section.

(2) Application process. The following are procedures a training program must follow to receive director accreditation to offer lead-based paint activities courses, renovator courses, or dust sampling technician courses:

(a) A training program seeking accreditation shall submit a written application to the director containing the following information:

(i) The training program's name, address, and telephone number;

(ii) A list of courses for which it is applying for accreditation. For the purposes of this section, courses taught in different languages and electronic learning courses are considered different courses, and each must independently meet the accreditation requirements;

(iii) The name and documentation of the qualifications of the training program manager;

(iv) The name(s) and documentation of qualifications of any principal instructor(s); and

(v) A statement signed by the training program manager certifying that the training program meets the requirements established in paragraph (3) of this section. If a training program uses EPA-recommended model training materials, the training program manager shall include a statement certifying that, as well; or

(vi) If a training program does not use EPA-recommended model training materials, its application for accreditation shall also include:

(A) A copy of the student and instructor manuals, or other materials to be used for each course;

(B) A copy of the course agenda for each course; and

(C) When applying for accreditation of a course in a language other than English, a signed statement from a qualified, independent translator that they had compared the course to the English language version and found the translation to be accurate;

(vii) All training programs shall include in their application for accreditation the following:

(A) A description of the facilities and equipment to be used for lecture and hands-on training;

(B) A copy of the course test blueprint for each course;

(C) A description of the activities and procedures that will be used for conducting the assessment of hands-on skills for each

course; and

(D) A copy of the quality control plan as described in paragraph (3)(i) of this section.

(b) If a training program meets the requirements in paragraph (3) of this section, then the director shall approve the application for accreditation no more than 180 days after receiving a complete application from the training program. In the case of approval, a certificate of accreditation shall be sent to the applicant. In the case of disapproval, a letter describing the reasons for disapproval shall be sent to the applicant. Prior to disapproval, the director may, at its discretion, work with the applicant to address inadequacies in the application for accreditation. The director may also request additional materials retained by the training program under paragraph (8) of this section. If a training program's application is disapproved, the program may reapply for accreditation at any time.

(c) A training program may apply for accreditation to offer courses or refresher courses in as many disciplines as it chooses. A training program may seek accreditation for additional courses at any time as long as the program can demonstrate that it meets the requirements of this section.

(d) A training program applying for accreditation must submit the appropriate fees in accordance with the current Department of Environmental Quality Fee Schedule.

(3) Requirements for the accreditation of training programs. For a training program to obtain accreditation from the director to offer lead-based paint activities courses, renovator courses, or dust sampling technician courses, the program must meet the following requirements:

(a) The training program shall employ a training manager who has:

(i) At least 2 years of experience, education, or training in teaching workers or adults; or

(ii) A bachelor's or graduate degree in building construction technology, engineering, industrial hygiene, safety, public health, education, business administration or program management or a related field; or

(iii) Two years of experience in managing a training program specializing in environmental hazards; and

(iv) Demonstrated experience, education, or training in the construction industry including: lead or asbestos abatement, painting, carpentry, renovation, remodeling, occupational safety and health, or industrial hygiene.

(b) The training manager shall designate a qualified principal instructor for each course who has:

(i) Demonstrated experience, education, or training in teaching workers or adults; and

(ii) Successfully completed at least 16 hours of any director-accredited, EPA-accredited, or EPA-authorized state or tribal-accredited lead-specific training for instructors of lead-based paint activities courses or 8 hours of any director-accredited, EPA-accredited or EPA-authorized state or tribal-

accredited lead-specific training for instructors of renovator or dust sampling technician courses; and

(iii) Demonstrated experience, education, or training in lead or asbestos abatement, painting, carpentry, renovation, remodeling, occupational safety and health, or industrial hygiene.

(c) The principal instructor shall be responsible for the organization of the course, course delivery, and oversight of the teaching of all course material. The training manager may designate guest instructors as needed for a portion of the course to provide instruction specific to the lecture, hands-on activities, or work practice components of a course. However, the principal instructor is primarily responsible for teaching the course materials and must be present to provide instruction (or oversight of portions of the course taught by guest instructors) for the course for which he or she has been designated the principal instructor.

(d) The following documents shall be recognized by the director as evidence that training managers and principal instructors have the education, work experience, training requirements or demonstrated experience, specifically listed in paragraphs (3)(a) and (3)(b) of this section. This documentation must be submitted with the accreditation application and retained by the training program as required by the recordkeeping requirements contained in paragraph (8) of this section. Those documents include the following:

(i) Official academic transcripts or diploma as evidence of meeting the education requirements;

(ii) Resumes, letters of reference, or documentation of work experience, as evidence of meeting the work experience requirements; and

(iii) Certificates from train-the-trainer courses and lead-specific training courses, as evidence of meeting the training requirements.

(e) The training program shall ensure the availability of, and provide adequate facilities for, the delivery of the lecture, course test, hands-on training, and assessment activities. This includes providing training equipment that reflects current work practices and maintaining or updating the equipment and facilities as needed.

(f) To become accredited in the following disciplines, the training program shall provide training courses that meet the following training requirements:

(i) The inspector course shall last a minimum of 24 training hours, with a minimum of 8 hours devoted to hands-on training activities. The minimum curriculum requirements for the inspector course are contained in paragraph (4)(a) of this section;

(ii) The risk assessor course shall last a minimum of 16 training hours, with a minimum of 4 hours devoted to hands-on training activities. The minimum curriculum requirements for the risk assessor course are contained in paragraph (4)(b) of this section;

(iii) The supervisor course shall last a minimum of 32

training hours, with a minimum of 8 hours devoted to hands-on training activities. The minimum curriculum requirements for the supervisor course are contained in paragraph (4)(c) of this section;

(iv) The project designer course shall last a minimum of 8 training hours. The minimum curriculum requirements for the project designer course are contained in paragraph (4)(d) of this section;

(v) The abatement worker course shall last a minimum of 16 training hours, with a minimum of 8 hours devoted to hands-on training activities. The minimum curriculum requirements for the abatement worker course are contained in paragraph (4)(e) of this section;

(vi) The renovator course must last a minimum of 8 training hours, with a minimum of 2 hours devoted to hands-on training activities. The minimum curriculum requirements for the renovator course are contained in paragraph (4)(f) of this section; and

(vii) The dust sampling technician course must last a minimum of 8 training hours, with a minimum of 2 hours devoted to hands-on training activities. The minimum curriculum requirements for the dust sampling technician course are contained in paragraph (4)(g) of this section.

(viii) Electronic learning and other alternative course delivery methods are permitted for the classroom portion of renovator, dust sampling technician, or lead-based paint activities courses but not the hands-on portion of these courses, or for final course tests or proficiency tests described in paragraph (3)(g) of this section. Electronic learning courses must comply with the following requirements:

(A) A unique identifier must be assigned to each student for them to use to launch and re-launch the course;

(B) The training provider must track each student's course log-ins, launches, progress, and completion, and maintain these records in accordance with paragraph (8) of this section;

(C) The course must include periodic knowledge checks equivalent to the number and content of the knowledge checks contained in EPA's model course, but at least 16 over the entire course. The knowledge checks must be successfully completed before the student can go on to the next module;

(D) There must be a test of at least 20 questions at the end of the electronic learning portion of the course, of which 80% must be answered correctly by the student for successful completion of the electronic learning portion of the course. The test must be designed so that students do not receive feedback on their test answers until after they have completed and submitted the test; and

(E) Each student must be able to save or print a copy of an electronic learning course completion certificate. The electronic certificate must not be susceptible to easy editing.

(g) For each course offered, the training program shall conduct either a course test at the completion of the course, and if applicable, a hands-on skills assessment, or in the

alternative, a proficiency test for that discipline. Each student must successfully complete the hands-on skills assessment and receive a passing score on the course test to pass any course, or successfully complete a proficiency test.

(i) The training manager is responsible for maintaining the validity and integrity of the hands-on skills assessment or proficiency test to ensure that it accurately evaluates the trainees' performance of the work practices and procedures associated with the course topics contained in paragraph (4) of this section;

(ii) The training manager is responsible for maintaining the validity and integrity of the course test to ensure that it accurately evaluates the trainees' knowledge and retention of the course topics; and

(iii) The course test shall be developed in accordance with the test blueprint submitted with the training accreditation application.

(h) The training program shall issue unique course completion certificates to each individual who passes the training course. The course completion certificate shall include:

(i) The name, a unique identification number, and address of the individual;

(ii) The name of the particular course that the individual completed;

(iii) Dates of course completion/test passage;

(iv) For initial inspector, risk assessor, project designer, supervisor, or abatement worker course completion certificates, the expiration date of interim certification, which is 6 months from the date of course completion;

(v) The name, address, and telephone number of the training program;

(vi) The language in which the course was taught; and

(vii) For renovator and dust sampling technician course completion certificates, a photograph of the individual. The photograph must be an accurate and recognizable image of the individual. As reproduced on the certificate, the photograph must not be smaller than 1 square inch.

(i) The training manager shall develop and implement a quality control plan. The plan shall be used to maintain and improve the quality of the training program over time. This plan shall contain at least the following elements:

(i) Procedures for periodic revision of training materials and the course test to reflect innovations in the field; and

(ii) Procedures for the training manager's annual review of principal instructor competency.

(j) Courses offered by the training program must teach the work practice standards contained in R307-841-5 or R307-842-3, as applicable, in such a manner that trainees are provided with the knowledge needed to perform the renovations or lead-based paint activities they will be responsible for conducting.

(k) The training manager shall be responsible for ensuring that the training program complies at all times with all of the

requirements in this section.

(l) The training manager shall allow the director or the director's authorized representative to audit the training program to verify the contents of the application for accreditation as described in paragraph (2) of this section.

(m) The training manager must provide notification of renovator, dust sampling technician, or lead-based paint activities courses offered.

(i) The training manager must provide the director with notification of all renovator, dust sampling technician, or lead-based paint activities courses offered. The original notification must be received by the director at least 7 business days prior to the start date of any renovator, dust sampling technician, or lead-based paint activities course;

(ii) The training manager must provide the director updated notification when renovator, dust sampling technician, or lead-based paint activities courses will begin on a date other than the start date specified in the original notification, as follows:

(A) For renovator, dust sampling technician, or lead-based paint activities courses beginning prior to the start date provided to the director, an updated notification must be received by the director at least 7 business days before the new start date; and

(B) For renovator, dust sampling technician, or lead-based paint activities courses beginning after the start date provided to the director, an updated notification must be received by the director at least 2 business days before the start date provided to the director;

(iii) The training manager must update the director of any change in location of renovator, dust sampling technician, or lead-based paint activities courses at least 7 business days prior to the start date provided to the director;

(iv) The training manager must update the director regarding any course cancellations, or any other change to the original notification. Updated notifications must be received by the director at least 2 business days prior to the start date provided to the director;

(v) Each notification, including updates, must include the following:

(A) Notification type (original, update, or cancellation);

(B) Training program name, address, and telephone number;

(C) Course discipline, type (initial/refresher), and the language in which instruction will be given;

(D) Date(s) and time(s) of training;

(E) Training location(s) telephone number, and address;

(F) Principal instructor's name; and

(G) Training manager's name and signature;

(vi) Notification must be accomplished using any of the following methods: Written notification, or electronically using the Utah Division of Air Quality electronic notification system. Written notification of renovator, dust sampling technician, or lead-based paint activities course schedules can be accomplished

by using either the sample form titled "Renovator, Dust Sampling Technician, or Lead-Based Paint Activities Training Course Notification Form" or a similar form containing the information required in paragraph (3)(m)(v) of this section. All written notifications must be delivered to the director by United States Postal Service, fax, commercial delivery service, or hand delivery. Instructions and sample forms can be obtained from the Utah Division of Air Quality Lead-Based Paint Program web site;

(vii) Renovator, dust sampling technician, or lead-based paint activities courses must not begin on a date, or at a location other than that specified in the original notification unless an updated notification identifying a new start date or location is submitted, in which case the course must begin on the new start date and/or location specified in the updated notification; and

(viii) No training program shall provide renovator, dust sampling technician, or lead-based paint activities courses without first notifying the director of such activities in accordance with the requirements of this paragraph.

(n) The training manager must provide notification following completion of renovator, dust sampling technician, or lead-based paint activities courses.

(i) The training manager must provide the director notification after the completion of any renovator, dust sampling technician, or lead-based paint activities course. This notice must be received by the director no later than 10 business days following the course completion;

(ii) The notification must include the following:

(A) Training program name, address, and telephone number;

(B) Course discipline and type (initial/refresher);

(C) Date(s) of training;

(D) The following information for each student who took the course:

(I) Name,

(II) Address,

(III) Date of birth,

(IV) Course completion certificate number,

(V) Course test score, and

(VI) For renovator or dust sampling technician courses, a digital photograph of the student;

(E) Training manager's name and signature; and

(F) Utah Division of Air Quality Lead-Based Paint Program training verification statement; and

(iii) Notification must be accomplished using any of the following methods: Written notification, or electronically using the Utah Division of Air Quality electronic notification system. Written notification following renovator, dust sampling technician, or lead-based paint activities training courses can be accomplished by using either the sample form titled "Renovator, Dust Sampling Technician, or Lead-Based Paint Activities Training Course Notification Form" or a similar form containing the information required in paragraph (3)(n)(ii) of this section. All

written notifications must be delivered to the director by United States Postal Service, fax, commercial delivery service, or hand delivery. Instructions and sample forms can be obtained from the Utah Division of Air Quality Lead-Based Paint Program web site.

(4) Minimum training curriculum requirements. To become accredited to offer lead-based paint courses in the specific disciplines listed in this paragraph, training programs must ensure that their courses of study include, at a minimum, the following course topics.

(a) Inspector. Instruction in the topics described in paragraphs (4)(a)(iv), (v), (vi), and (vii) of this section must be included in the hands-on portion of the course.

(i) Role and responsibilities of an inspector.

(ii) Background information on lead and its adverse health effects.

(iii) Background information on federal, state, and local regulations and guidance that pertains to lead-based paint and lead-based paint activities.

(iv) Lead-based paint inspection methods, including selection of rooms and components for sampling or testing.

(v) Paint, dust, and soil sampling methodologies.

(vi) Clearance standards and testing, including random sampling.

(vii) Preparation of the final inspection report.

(viii) Recordkeeping.

(b) Risk assessor. Instruction in the topics described in paragraphs (4)(b)(iv), (vi), and (vii) of this section must be included in the hands-on portion of the course.

(i) Role and responsibilities of a risk assessor.

(ii) Collection of background information to perform a risk assessment.

(iii) Sources of environmental lead contamination such as paint, surface dust and soil, water, air, packaging, and food.

(iv) Visual inspection for the purposes of identifying potential sources of lead-based paint hazards.

(v) Lead hazard screen protocol.

(vi) Sampling for other sources of lead exposure.

(vii) Interpretation of lead-based paint and other lead sampling results, including all applicable federal or state guidance or regulations pertaining to lead-based paint hazards.

(viii) Development of hazard control options, the role of interim controls, and operations and maintenance activities to reduce lead-based paint hazards.

(ix) Preparation of a final risk assessment report.

(c) Supervisor. Instruction in the topics described in paragraphs (4)(c)(v), (vii), (viii), (ix), and (x) of this section must be included in the hands-on portion of the course.

(i) Role and responsibilities of a supervisor.

(ii) Background information on lead and its adverse health effects.

(iii) Background information on federal, state, and local regulations and guidance that pertain to lead-based paint

abatement.

(iv) Liability and insurance issues relating to lead-based paint abatement.

(v) Risk assessment and inspection report interpretation.

(vi) Development and implementation of an occupant protection plan and abatement report.

(vii) Lead-based paint hazard recognition and control.

(viii) Lead-based paint abatement and lead-based paint hazard reduction methods, including restricted practices.

(ix) Interior dust abatement/cleanup or lead-based paint hazard control and reduction methods.

(x) Soil and exterior dust abatement or lead-based paint hazard control and reduction methods.

(xi) Clearance standards and testing.

(xii) Cleanup and waste disposal.

(xiii) Recordkeeping.

(d) Project designer.

(i) Role and responsibilities of a project designer.

(ii) Development and implementation of an occupant protection plan for large-scale abatement projects.

(iii) Lead-based paint abatement and lead-based paint hazard reduction methods, including restricted practices for large-scale abatement projects.

(iv) Interior dust abatement/cleanup or lead hazard control and reduction methods for large-scale abatement projects.

(v) Clearance standards and testing for large scale abatement projects.

(vi) Integration of lead-based paint abatement methods with modernization and rehabilitation projects for large scale abatement projects.

(e) Abatement worker. Instruction in the topics described in paragraphs (4)(e)(iv), (v), (vi), and (vii) of this section must be included in the hands-on portion of the course.

(i) Role and responsibilities of an abatement worker.

(ii) Background information on lead and its adverse health effects.

(iii) Background information on federal, state, and local regulations and guidance that pertain to lead-based paint abatement.

(iv) Lead-based paint hazard recognition and control.

(v) Lead-based paint abatement and lead-based paint hazard reduction methods, including restricted practices.

(vi) Interior dust abatement methods/cleanup or lead-based paint hazard reduction.

(vii) Soil and exterior dust abatement methods or lead-based paint hazard reduction.

(f) Renovator. Instruction in the topics described in paragraphs (4)(f)(iv), (vi), (vii), and (viii) of this section must be included in the hands-on portion of the course.

(i) Role and responsibility of a renovator.

(ii) Background information on lead and its adverse health effects.

(iii) Background information on EPA, HUD, OSHA, and other federal, state, and local regulations and guidance that pertains to lead-based paint and renovation activities.

(iv) Procedures for using acceptable test kits to determine whether paint is lead-based paint.

(v) Procedures for collecting a paint chip sample and sending it to a laboratory recognized by EPA under section 405(b) of TSCA.

(vi) Renovation methods to minimize the creation of dust and lead-based paint hazards.

(vii) Interior and exterior containment and cleanup methods.

(viii) Methods to ensure that the renovation has been properly completed, including cleaning verification, and clearance testing.

(ix) Waste handling and disposal.

(x) Providing on-the-job training to other workers.

(xi) Record preparation.

(g) Dust sampling technician. Instruction in the topics described in paragraphs (4)(g)(iv) and (vi) of this section must be included in the hands-on portion of the course.

(i) Role and responsibility of a dust sampling technician.

(ii) Background information on lead and its adverse health effects.

(iii) Background information on federal, state, and local regulations and guidance that pertains to lead-based paint and renovation activities.

(iv) Dust sampling methodologies.

(v) Clearance standards and testing.

(vi) Report preparation.

(5) Requirements for the accreditation of refresher training programs. A training program may seek accreditation to offer refresher training courses in any of the following disciplines: Inspector, risk assessor, supervisor, project designer, abatement worker, renovator, and dust sampling technician. To obtain director accreditation to offer refresher training, a training program must meet the following minimum requirements:

(a) Each refresher course shall review the curriculum topics of the full-length courses listed under paragraph (4) of this section, as appropriate. In addition, to become accredited to offer refresher training courses, training programs shall ensure that their courses of study include, at a minimum, the following:

(i) An overview of current safety practices relating to lead-based paint in general, as well as specific information pertaining to the appropriate discipline;

(ii) Current laws and regulations relating to lead-based paint in general, as well as specific information pertaining to the appropriate discipline; and

(iii) Current technologies relating to lead-based paint in general, as well as specific information pertaining to the appropriate discipline;

(b) Refresher courses for inspector, risk assessor, supervisor, and abatement worker must last a minimum of 8 training

hours. Refresher courses for project designer, renovator, and dust sampling technician must last a minimum of 4 training hours. Refresher courses for all disciplines except project designer must include a hands-on component;

(c) Except for project designer courses, for all other courses offered, the training program shall conduct a hands-on assessment, and at the completion of the course, a course test;

(d) A training program may apply for accreditation of a refresher course concurrently with its application for accreditation of the corresponding training course as described in paragraph (2) of this section. If so, the director shall use the approval procedure described in paragraph (2) of this section. In addition, the minimum requirements contained in paragraphs (3)(a) through 3)(e) and (3)(g) through (3)(n), and (5)(a) through (5)(c) of this section shall also apply; and

(e) A training program seeking accreditation to offer refresher training courses only shall submit a written application to the director containing the following information:

(i) The refresher training program's name, address, and telephone number;

(ii) A list of courses for which it is applying for accreditation;

(iii) The name and documentation of the qualifications of the training program manager;

(iv) The name(s) and documentation of the qualifications of the principal instructor(s);

(v) A statement signed by the training program manager certifying that the refresher training program meets the minimum requirements established in paragraph (3) of this section, except for the requirements in paragraph (3)(f) of this section. If a training program uses EPA-developed model training materials, the training manager shall include a statement certifying that, as well;

(vi) If the refresher training course materials are not based on EPA-developed model training materials, the training program's application for accreditation shall include:

(A) A copy of the student and instructor manuals to be used for each course; and

(B) A copy of the course agenda for each course;

(vii) All refresher training programs shall include in their application for accreditation the following:

(A) A description of the facilities and equipment to be used for lecture and hands-on training;

(B) A copy of the course test blueprint for each course;

(C) A description of the activities and procedures that will be used for conducting the assessment of hands-on skills for each course (if applicable); and

(D) A copy of the quality control plan as described in paragraph (3)(i) of this section;

(viii) The requirements in paragraphs (3)(a) through (3)(e), and (3)(g) through (3)(n) of this section apply to refresher training providers; and

(ix) If a refresher training program meets the requirements listed in this paragraph, then the director shall approve the application for accreditation no more than 180 days after receiving a complete application from the refresher training program. In the case of approval, a certificate of accreditation shall be sent to the applicant. In the case of disapproval, a letter describing the reasons for disapproval shall be sent to the applicant. Prior to disapproval, the director may, at the director's discretion, work with the applicant to address inadequacies in the application for accreditation. The director may also request additional materials retained by the refresher training program under paragraph (8) of this section. If a refresher training program's application is disapproved, the program may reapply for accreditation at any time.

(6) Re-accreditation of training programs.

(a) Unless re-accredited, a training program's accreditation, including refresher training accreditation, shall expire 4 years after the date of issuance. If a training program meets the requirements of this section, the training program shall be re-accredited.

(b) A training program seeking re-accreditation shall submit an application to the director no later than 180 days before its accreditation expires. If a training program does not submit its application for re-accreditation by that date, the director cannot guarantee that the program will be re-accredited before the end of the accreditation period.

(c) The training program's application for re-accreditation shall contain:

(i) The training program's name, address, and telephone number;

(ii) A list of courses for which it is applying for re-accreditation;

(iii) The name and qualifications of the training program manager;

(iv) The name(s) and qualifications of the principal instructor(s);

(v) A description of any changes to the training facility, equipment or course materials since its last application was approved that adversely affects the students' ability to learn;

(vi) A statement signed by the program manager stating:

(A) That the training program complies at all times with all requirements in paragraphs (3) and (5) of this section, as applicable; and

(B) The recordkeeping and reporting requirements of paragraph (8) of this section shall be followed; and

(vii) A payment of appropriate fees in accordance with the current Department of Environmental Quality Fee Schedule.

(d) Upon request, the training program shall allow the director or the director's authorized representative to audit the training program to verify the contents of the application for re-accreditation as described in paragraph (6)(c) of this section.

(7) Suspension, revocation, and modification of accredited

training programs.

(a) The director may, after notice and an opportunity, for hearing, suspend, revoke, or modify training program accreditation, including refresher training accreditation, if a training program, training manager, or other person with supervisory authority over the training program has:

(i) Misrepresented the contents of a training course to the director and/or the student population;

(ii) Failed to submit required information or notifications in a timely manner;

(iii) Failed to maintain required records;

(iv) Falsified accreditation records, instructor qualifications, or other accreditation-related information or documentation;

(v) Failed to comply with the training standards and requirements in this section;

(vi) Failed to comply with federal, state, or local lead-based paint statutes or regulations; or

(vii) Made false or misleading statements to the director in its application for accreditation or re-accreditation which the director relied upon in approving the application.

(b) In addition to an administrative or judicial finding of violation, execution of a consent agreement in settlement of an enforcement action constitutes, for purposes of this section, evidence of a failure to comply with relevant statutes or regulations.

(8) Training program recordkeeping requirements.

(a) Accredited training programs shall maintain, and make available to the director or the director's authorized representative, upon request, the following records:

(i) All documents specified in paragraph (3)(d) of this section that demonstrate the qualifications listed in paragraphs (3)(a) and (3)(b) of this section of the training manager and principal instructors;

(ii) Current curriculum/course materials and documents reflecting any changes made to these materials;

(iii) The course test blueprint;

(iv) Information regarding how the hands-on assessment is conducted including, but not limited to:

(A) Who conducts the assessment;

(B) How the skills are graded;

(C) What facilities are used; and

(D) The pass/fail rate;

(v) The quality control plan as described in paragraph (3)(i) of this section;

(vi) Results of the students' hands-on skills assessments and course tests, and a record of each student's course completion certificate;

(vii) Any other material not listed in paragraphs (8)(a)(i) through (8)(a)(vi) of this section that was submitted to the director as part of the program's application for accreditation.

(viii) For renovator refresher and dust sampling technician

refresher courses, a copy of each trainee's prior course completion certificate showing that each trainee was eligible to take the refresher course; and

(ix) For course modules delivered in an electronic format, a record of each student's log-ins, launches, progress, and completion, and a copy of the electronic learning completion certificate for each student.

(b) The training program must retain records pertaining to renovator, dust sampling technician and lead-based paint activities courses at the address specified on the training program accreditation application (or as modified in accordance with paragraph (8)(c) of this section) for the following minimum periods:

(i) Records pertaining to lead-based paint activities courses must be retained for a minimum of 3 years and 6 months;

(ii) Records pertaining to renovator or dust sampling technician courses offered must be retained for a minimum of 5 years and 6 months.

(c) The training program shall notify the director in writing within 30 days of changing the address specified on its training program accreditation application or transferring the records from that address.

(9) Amendment of accreditation.

(a) A training program must amend its accreditation within 90 days of the date a change occurs to information included in the program's most recent application. If the training program fails to amend its accreditation within 90 days of the date the change occurs, the program may not provide renovator, dust sampling technician, or lead-based paint activities training until its accreditation is amended.

(b) To amend an accreditation, a training program must submit a completed Division of Air Quality Lead-Based Paint Application for Course Accreditation, signed by an authorized agent of the training provider, noting on the form that it is submitted as an amendment and indicating the information that has changed.

(c) Training managers, principal instructors, permanent training locations. If the amendment includes a new training program manager, any new or additional principal instructor(s), or any new permanent training location(s), the training provider is not permitted to provide training under the new training manager or offer courses taught by any new principal instructor(s) or at the new training location(s) until the director either approves the amendment or 30 days have elapsed, whichever occurs earlier. Except:

(i) If the amendment includes a new training program manager or new or additional principal instructor that was identified in a training provider accreditation application that the director has already approved under this section, the training provider may begin to provide training under the new training manager or offer courses taught by the new principal instructor on an interim basis as soon as the provider submits the amendment to the director.

The training provider may continue to provide training under the new training manager or offer courses taught by the new principal instructor if the director approves the amendment or if the director does not disapprove the amendment within 30 days.

(ii) If the amendment includes a new permanent training location, the training provider may begin to provide training at the new permanent training location on an interim basis as soon as the provider submits the amendment to the director. The training provider may continue to provide training at the new permanent training location if the director approves the amendment or if the director does not disapprove the amendment within 30 days.

R307-842-2. Certification of Individuals and Firms Engaged in Lead-Based Paint Activities: Target Housing and Child-Occupied Facilities.

(1) Certification of individuals.

(a) Individuals seeking certification by the director to engage in lead-based paint activities must either:

(i) Submit to the director an application demonstrating that they meet the requirements established in paragraphs (2) or (3) of this section for the particular discipline for which certification is sought; or

(ii) Submit to the director an application with a copy of a valid lead-based paint activities certification (or equivalent) from the EPA or a state or tribal program that has been authorized by EPA pursuant to subpart Q of 40 CFR 745; or

(iii) For supervisor, inspector, and/or risk assessor certification, submit to the director an application with a copy of a valid lead-based paint training certificate from an EPA-accredited, or EPA-authorized state or tribal-accredited lead-specific training in the appropriate discipline and pass the certification exam in the appropriate discipline offered by the director.

(b) Following the submission of an application demonstrating that all the requirements of this section have been met, the director shall certify an applicant as an inspector, risk assessor, supervisor, project designer, or abatement worker, as appropriate.

(c) Upon receiving director certification, individuals conducting lead-based paint activities shall comply with the work practice standards for performing the appropriate lead-based paint activities as established in R307-842-3.

(d) It shall be a violation of state administrative rules for an individual to conduct any of the lead-based paint activities described in R307-842-3 if that individual has not been certified by the director pursuant to this section to do so.

(e) Individuals applying for certification must submit the appropriate fees in accordance with the current Department of Environmental Quality Fee Schedule.

(2) Inspector, risk assessor or supervisor.

(a) To become certified by the director as an inspector, risk assessor, or supervisor, pursuant to paragraph (1)(a)(i) of

this section, an individual must:

(i) Successfully complete an accredited course in the appropriate discipline and receive a course completion certificate from an accredited training program;

(ii) Pass the certification exam in the appropriate discipline offered by the director; and

(iii) Meet or exceed the following experience and/or education requirements:

(A) Inspectors. No additional experience and/or education requirements;

(B) Risk assessors.

(I) Successful completion of an accredited training course for inspectors; and

(II) Bachelor's degree and 1 year of experience in a related field (e.g., lead, asbestos, environmental remediation work, or construction), or an Associates degree and 2 years experience in a related field (e.g., lead, asbestos, environmental remediation work, or construction); or

(III) Certification as an industrial hygienist, professional engineer, registered architect and/or certification in a related engineering/health/environmental field (e.g., safety professional, environmental scientist); or

(IV) A high school diploma (or equivalent), and at least 3 years of experience in a related field (e.g., lead, asbestos, environmental remediation work or construction);

(C) Supervisor.

(I) One year of experience as a certified lead-based paint abatement worker; or

(II) At least 2 years of experience in a related field (e.g., lead, asbestos, or environmental remediation work) or in the building trades.

(b) The following documents shall be recognized by the director as evidence of meeting the requirements listed in (2)(b)(iii) of this paragraph:

(i) Official academic transcripts or diploma, as evidence of meeting the education requirements;

(ii) Resumes, letters of reference, or documentation of work experience, as evidence of meeting the work experience requirements; and

(iii) Course completion certificates from lead-specific or other related training courses, issued by accredited training programs, as evidence of meeting the training requirements.

(c) In order to take the certification examination for a particular discipline an individual must:

(i) Successfully complete an accredited course in the appropriate discipline and receive a course completion certificate from an accredited training program; and

(ii) Meet or exceed the education and/or experience requirements in paragraph (2)(a)(iii) of this section.

(d) The course completion certificate shall serve as interim certification for an individual until the next available opportunity to take the certification exam. Such interim

certification shall expire 6 months after issuance.

(e) After passing the appropriate certification exam and submitting an application demonstrating that he/she meets the appropriate training, education, and/or experience prerequisites described in paragraph (2)(a) of this section, an individual shall be issued a certificate by the director. To maintain certification, an individual must be re-certified as described in paragraph (4) of this section.

(f) An individual may take the certification exam no more than three times within 6 months of receiving a course completion certificate.

(g) If an individual does not pass the certification exam and receive a certificate within 6 months of receiving his/her course completion certificate, the individual must retake the appropriate course from an accredited training program before reapplying for certification from the director.

(3) Abatement worker and project designer.

(a) To become certified by the director as an abatement worker or project designer, pursuant to paragraph (1)(a)(i) of this section, an individual must:

(i) Successfully complete an accredited course in the appropriate discipline and receive a course completion certificate from an accredited training program; and

(ii) Meet or exceed the following additional experience and/or education requirements:

(A) Abatement workers. No additional experience and/or education requirements; and

(B) Project designers.

(I) Successful completion of an accredited training course for supervisors;

(II) Bachelor's degree in engineering, architecture, or a related profession, and 1 year of experience in building construction and design or a related field; or

(III) Four years of experience in building construction and design or a related field.

(b) The following documents shall be recognized by the director as evidence of meeting the requirements listed in this paragraph:

(i) Official academic transcripts or diploma, as evidence of meeting the education requirements;

(ii) Resumes, letters of reference, or documentation of work experience, as evidence of meeting the work experience requirements; and

(iii) Course completion certificates from lead-specific or other related training courses, issued by accredited training programs, as evidence of meeting the training requirements.

(c) The course completion certificate shall serve as an interim certification until certification from the director is received, but shall be valid for no more than 6 months from the date of completion.

(d) After successfully completing the appropriate training courses and meeting any other qualifications described in

paragraph (3)(a) of this section, an individual shall be issued a certificate from the director. To maintain certification, an individual must be re-certified as described in paragraph (4) of this section.

(4) Re-certification.

(a) To maintain certification in a particular discipline, a certified individual shall apply to and be re-certified by the director in that discipline by the director either:

(i) Every 3 years if the individual completed a training course with a course test and hands-on assessment; or

(ii) Every 5 years if the individual completed a training course with a proficiency test.

(b) An individual shall be re-certified if the individual successfully completes the appropriate accredited refresher training course and submits a valid copy of the appropriate refresher course completion certificate. If more than 3 years but less than 4 years have passed since certification or re-certification for an individual that completed an initial or a refresher training course with a course test and hands-on assessment, or if more than 5 years but less than 6 years have passed since certification or re-certification for an individual that completed an initial or a refresher training course with a proficiency test for the supervisor, inspector, and/or risk assessor disciplines, then the individual must also pass the certification exam in the appropriate discipline offered by the director.

(c) Individuals applying for re-certification must submit the appropriate fees in accordance with the current Department of Environmental Quality Fee Schedule.

(5) Certification of firms.

(a) All firms which perform or offer to perform any of the lead-based paint activities or renovations described in R307-842-3 shall be certified by the director.

(b) A firm seeking certification shall submit to the director a letter attesting that the firm shall only employ appropriately certified employees to conduct lead-based paint activities, and that the firm and its employees shall follow the work practice standards in R307-842-3 for conducting lead-based paint activities.

(c) From the date of receiving the firm's letter requesting certification, the director shall have 90 days to approve or disapprove the firm's request for certification. Within that time, the director shall respond with either a certificate of approval or a letter describing the reasons for disapproval.

(d) The firm shall maintain all records pursuant to the requirements in R307-842-3.

(e) Firms may apply to the director for certification to engage in lead-based paint activities pursuant to this section.

(f) Firms applying for certification must submit the appropriate fees in accordance with the current Department of Environmental Quality Fee Schedule.

(g) To maintain certification a firm shall submit

appropriate fees in accordance with the current Department of Environmental Quality Fee Schedule.

(6) Suspension, revocation, and modification of certifications of individuals engaged in lead-based paint activities.

(a) The director may, after notice and opportunity for hearing, suspend, revoke, or modify an individual's certification if an individual has:

(i) Obtained training documentation through fraudulent means;

(ii) Gained admission to and completed an accredited training program through misrepresentation of admission requirements;

(iii) Obtained certification through misrepresentation of certification requirements or related documents dealing with education, training, professional registration, or experience;

(iv) Performed work requiring certification at a job site without having proof of certification;

(v) Permitted the duplication or use of the individual's own certificate by another;

(vi) Performed work for which certification is required, but for which appropriate certification has not been received;

(vii) Failed to comply with the appropriate work practice standards for lead-based paint activities at R307-842-3; or

(viii) Failed to comply with federal, state, or local lead-based paint statutes or regulations.

(b) In addition to an administrative or judicial finding of violation, for purposes of this section only, execution of a consent agreement in settlement of an enforcement action constitutes evidence of a failure to comply with relevant statutes or regulations.

(7) Suspension, revocation, and modification of certifications of firms engaged in lead-based paint activities.

(a) The director may, after notice and opportunity for hearing, suspend, revoke, or modify a firm's certification if a firm has:

(i) Performed work requiring certification at a job site with individuals who are not certified;

(ii) Failed to comply with the work practice standards established in R307-842-3;

(iii) Misrepresented facts in its letter of application for certification to the director;

(iv) Failed to maintain required records; or

(v) Failed to comply with federal, state, or local lead-based paint statutes or regulations.

(b) In addition to an administrative or judicial finding of violation, for purposes of this section only, execution of a consent agreement in settlement of an enforcement action constitutes evidence of a failure to comply with relevant statutes or regulations.

R307-842-3. Work Practice Standards for Conducting Lead-Based

Paint Activities: Target Housing and Child-Occupied Facilities.

(1) Effective date, applicability, and terms.

(a) All lead-based paint activities shall be performed pursuant to the work practice standards contained in this section.

(b) When performing any lead-based paint activity described by the certified individual as an inspection, lead-hazard screen, risk assessment, or abatement, a certified individual must perform that activity in compliance with the appropriate requirements below.

(c) Documented methodologies that are appropriate for this section are found in the following: the HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, the EPA Guidance on Residential Lead-Based Paint, Lead-Contaminated Dust, and Lead-Contaminated Soil, the EPA Residential Sampling for Lead: Protocols for Dust and Soil Sampling (EPA report number 7474-R-95-001), and other equivalent methods and guidelines.

(d) Clearance levels are appropriate for the purposes of this section may be found in the EPA Guidance on Residential Lead-Based Paint, Lead-Contaminated Dust, and Lead Contaminated Soil or other equivalent guidelines.

(2) Inspection.

(a) An inspection shall be conducted only by a person certified by the director as an inspector or risk assessor and, if conducted, must be conducted according to the procedures in this paragraph.

(b) When conducting an inspection, the following locations shall be selected according to documented methodologies and tested for the presence of lead-based paint:

(i) In a residential dwelling and child-occupied facility, each component with a distinct painting history and each exterior component with a distinct painting history shall be tested for lead-based paint, except those components that the inspector or risk assessor determines to have been replaced after 1978, or to not contain lead-based paint; and

(ii) In a multi-family dwelling or child-occupied facility, each component with a distinct painting history in every common area, except those components that the inspector or risk assessor determines to have been replaced after 1978, or to not contain lead-based paint.

(c) Paint shall be sampled in the following manner:

(i) The analysis of paint to determine the presence of lead shall be conducted using documented methodologies which incorporate adequate quality control procedures; and/or

(ii) All collected paint chip samples shall be analyzed according to paragraph (6) of this section to determine if they contain detectable levels of lead that can be quantified numerically.

(d) The certified inspector or risk assessor shall prepare an inspection report which shall include the following information:

(i) Date of each inspection;

(ii) Address of building;

(iii) Date of construction;

(iv) Apartment numbers (if applicable);

(v) Name, address, and telephone number of the owner or owners of each residential dwelling or child-occupied facility;

(vi) Name, signature, and certification number of each certified inspector and/or risk assessor conducting testing;

(vii) Name, address, and telephone number of the certified firm employing each inspector and/or risk assessor, if applicable;

(viii) Each testing method and device and/or sampling procedure employed for paint analysis, including quality control data and, if used, the serial number of any x-ray fluorescence (XRF) device;

(ix) Specific locations of each painted component tested for the presence of lead-based paint; and

(x) The results of the inspection expressed in terms appropriate to the sampling method used.

(3) Lead hazard screen.

(a) A lead hazard screen shall be conducted only by a person certified by the director as a risk assessor.

(b) If conducted, a lead hazard screen shall be conducted as follows:

(i) Background information regarding the physical characteristics of the residential dwelling or child-occupied facility and occupant use patterns that may cause lead-based paint exposure to one or more children age 6 years and under shall be collected;

(ii) A visual inspection of the residential dwelling or child-occupied facility shall be conducted to:

(A) Determine if any deteriorated paint is present; and

(B) Locate at least two dust sampling locations;

(iii) If deteriorated paint is present, each surface with deteriorated paint, which is determined, using documented methodologies, to be in poor condition and to have a distinct painting history, shall be tested for the presence of lead;

(iv) In residential dwellings, two composite dust samples shall be collected, one from the floors and the other from the windows, in rooms, hallways, or stairwells where one or more children, age 6 and under, are most likely to come in contact with dust; and

(v) In multi-family dwellings and child-occupied facilities, in addition to the floor and window samples required in paragraph (3)(b)(iv) of this section, the risk assessor shall also collect composite dust samples from common areas where one or more children, age 6 and under, are most likely to come into contact with dust.

(c) Dust samples shall be collected and analyzed in the following manner:

(i) All dust samples shall be taken using documented methodologies that incorporate adequate quality control procedures; and

(ii) All collected dust samples shall be analyzed according to paragraph (6) of this section to determine if they contain

detectable levels of lead that can be quantified numerically.

(d) Paint shall be sampled in the following manner:

(i) The analysis of paint to determine the presence of lead shall be conducted using documented methodologies which incorporate adequate quality control procedures; and/or

(ii) All collected paint chip samples shall be analyzed according to paragraph (6) of this section to determine if they contain detectable levels of lead that can be quantified numerically.

(e) The risk assessor shall prepare a lead hazard screen report, which shall include the following information:

(i) The information required in a risk assessment report as specified in paragraph (4) of this section, including paragraphs (4)(k)(i) through (4)(k)(xiv), and excluding paragraphs (4)(k)(xv) through (4)(k)(xviii) of this section. Additionally, any background information collected pursuant to paragraph (3)(b)(i) of this section shall be included in the lead hazard screen report; and

(ii) Recommendations, if warranted, for a follow-up risk assessment, and as appropriate, any further actions.

(4) Risk assessment.

(a) A risk assessment shall be conducted only by a person certified by the director as a risk assessor and, if conducted, must be conducted according to the procedures in this paragraph.

(b) A visual inspection for risk assessment of the residential dwelling or child-occupied facility shall be undertaken to locate the existence of deteriorated paint, assess the extent and causes of the deterioration, and other potential lead-based paint hazards.

(c) Background information regarding the physical characteristics of the residential dwelling or child-occupied facility and occupant use patterns that may cause lead-based paint exposure to one or more children age 6 years and under shall be collected.

(d) The following surfaces which are determined, using documented methodologies, to have a distinct painting history, shall be tested for the presence of lead:

(i) Each friction surface or impact surface with visibly deteriorated paint; and

(ii) All other surfaces with visibly deteriorated paint.

(e) In residential dwellings, dust samples (either composite or single-surface samples) from the interior window sill(s) and floor shall be collected and analyzed for lead concentration in all living areas where one or more children, age 6 and under, are most likely to come into contact with dust.

(f) For multi-family dwellings and child-occupied facilities, the samples required in paragraph (4)(d) of this section shall be taken. In addition, interior window sill and floor dust samples (either composite or single-surface samples) shall be collected and analyzed for lead concentration in the following locations:

(i) Common areas adjacent to the sampled residential

dwelling or child-occupied facility; and

(ii) Other common areas in the building where the risk assessor determines that one or more children, age 6 and under, are likely to come into contact with dust.

(g) For child-occupied facilities, interior window sill and floor dust samples (either composite or single-surface samples) shall be collected and analyzed for lead concentration in each room, hallway, or stairwell utilized by one or more children, age 6 and under, and in other common areas in the child-occupied facility where one or more children, age 6 and under, are likely to come into contact with dust.

(h) Soil samples shall be collected and analyzed for lead concentrations in the following locations:

(i) Exterior play areas where bare soil is present;

(ii) The rest of the yard (i.e., non-play areas) where bare soil is present; and

(iii) Dripline/foundation areas where bare soil is present.

(i) Any paint, dust, or soil sampling or testing shall be conducted using documented methodologies that incorporate adequate quality control procedures.

(j) Any collected paint chip, dust, or soil samples shall be analyzed according to paragraph (6) of this section to determine if they contain detectable levels of lead that can be quantified numerically.

(k) The certified risk assessor shall prepare a risk assessment report which shall include the following information:

(i) Date of assessment;

(ii) Address of each building;

(iii) Date of construction of buildings;

(iv) Apartment number (if applicable);

(v) Name, address, and telephone number of each owner of each building;

(vi) Name, signature, and certification of the certified risk assessor conducting the assessment;

(vii) Name, address, and telephone number of the certified firm employing each certified risk assessor if applicable;

(viii) Name, address, and telephone number of each recognized laboratory conducting analysis of collected samples;

(ix) Results of the visual inspection;

(x) Testing method and sampling procedure for paint analysis employed;

(xi) Specific locations of each painted component tested for the presence of lead;

(xii) All data collected from on-site testing, including quality control data and, if used, the serial number of any XRF device.

(xiii) All results of laboratory analysis on collected paint, soil, and dust samples;

(xiv) Any other sampling results;

(xv) Any background information collected pursuant to paragraph (4)(c) of this section;

(xvi) To the extent that they are used as part of the lead-

based paint hazard determination, the results of any previous inspections or analyses for the presence of lead-based paint, or other assessments of lead-based paint-related hazards;

(xvii) A description of the location, type, and severity of identified lead-based paint hazards and any other potential lead hazards; and

(xviii) A description of interim controls and/or abatement options for each identified lead-based paint hazard and a suggested prioritization for addressing each hazard. If the use of an encapsulant or enclosure is recommended, the report shall recommend a maintenance and monitoring schedule for the encapsulant or enclosure.

(5) Abatement.

(a) An abatement shall be conducted only by an individual certified by the director, and if conducted, shall be conducted according to the procedures in this paragraph.

(b) A certified supervisor is required for each abatement project and shall be onsite during all work site preparation and during the post-abatement cleanup of work areas. At all other times when abatement activities are being conducted, the certified supervisor shall be onsite or available by telephone, pager or answering service, and able to be present at the work site in no more than 2 hours.

(c) The certified supervisor and the certified firm employing that supervisor shall ensure that all abatement activities are conducted according to the requirements of this section and all other federal, state, and local requirements.

(d) A certified firm must notify the director of lead-based paint abatement activities as follows:

(i) Except as provided in paragraph (5)(d)(ii) of this section, the director must be notified prior to conducting lead-based paint abatement activities. The original notification must be received by the director at least 5 business days before the start date of any lead-based paint abatement activities;

(ii) Notification for lead-based paint abatement activities required in response to an elevated blood lead level (EBL) determination, or federal, state, tribal, or local emergency abatement order should be received by the director as early as possible before, but must be received no later than the start date of the lead-based paint abatement activities. Should the start date and/or location provided to the director change, an updated notification must be received by the director on or before the start date provided to the director. Documentation showing evidence of an EBL determination or a copy of the federal/state/tribal/local emergency abatement order must be included in the written notification to take advantage of this abbreviated notification period;

(iii) Except as provided in paragraph (5)(d)(ii) of this section, updated notification must be provided to the director for lead-based paint abatement activities that will begin on a date other than the start date specified in the original notification, as follows:

(A) For lead-based paint abatement activities beginning prior to the start date provided to the director an updated notification must be received by the director at least 5 business days before the new start date included in the notification; and

(B) For lead-based paint abatement activities beginning after the start date provided to the director an updated notification must be received by the director on or before the start date provided to the director;

(iv) Except as provided in paragraph (5)(d)(ii) of this section, updated notification must be provided to the director for any change in location of lead-based paint abatement activities at least 5 business days prior to the start date provided to the director;

(v) Updated notification must be provided to the director when lead-based paint abatement activities are canceled, or when there are other significant changes including, but not limited to, when the square footage or acreage to be abated changes by more than 20%. This updated notification must be received by the director on or before the start date provided to the director, or if work has already begun, within 24 hours of the change;

(vi) The following must be included in each notification:

(A) Notification type (original, updated, or cancellation);

(B) Date when lead-based paint abatement activities will start;

(C) Date when lead-based paint abatement activities will end (approximation using best professional judgment);

(D) Firm's name, Utah lead-based paint firm certification number, address, and telephone number;

(E) Type of building (e.g., single family dwelling, multi-family dwelling, and/or child-occupied facilities) on/in which abatement work will be performed;

(F) Property name (if applicable);

(G) Property address including apartment or unit number(s) (if applicable) for abatement work;

(H) Documentation showing evidence of an EBL determination or a copy of the federal/state/tribal/local emergency abatement order, if using the abbreviated time period as described in paragraph (5)(d)(ii) of this section;

(I) Name and Utah lead-based paint individual certification number of the project supervisor;

(J) Approximate square footage/acreage to be abated;

(K) Brief description of abatement activities to be performed; and

(L) Name, title, and signature of the representative of the certified firm who prepared the notification;

(vii) Notification must be accomplished using any of the following methods: Written notification, or electronically using the Utah Division of Air Quality electronic notification system. Written notification can be accomplished using either the sample form titled "Lead-Based Paint Abatement Project Notification" or similar form containing the information required in paragraph (5)(d)(vi) of this section. All written notifications must be

delivered by United States Postal Service, fax, commercial delivery service, or hand delivery on or before the applicable date. Instructions and sample forms can be obtained from the Utah Division of Air Quality Lead-Based Paint Program web site;

(viii) Lead-based paint abatement activities shall not begin on a date, or at a location other than that specified in either an original or updated notification, in the event of changes to the original notification; and

(ix) No firm or individual shall engage in lead-based paint abatement activities, as defined in R307-840-2, prior to notifying the director of such activities according to the requirements of this paragraph.

(e) A written occupant protection plan shall be developed for all abatement projects and shall be prepared according to the following procedures:

(i) The occupant protection plan shall be unique to each residential dwelling or child-occupied facility and be developed prior to the abatement. The occupant protection plan shall describe the measures and management procedures that will be taken during the abatement to protect the building occupants from exposure to any lead-based paint hazards; and

(ii) A certified supervisor or project designer shall prepare the occupant protection plan.

(f) The work practices listed below shall be restricted during an abatement as follows:

(i) Open-flame burning or torching of lead-based paint is prohibited;

(ii) Machine sanding or grinding or abrasive blasting or sandblasting of lead-based paint is prohibited unless used with High Efficiency Particulate Air (HEPA) exhaust control which removes particles of 0.3 microns or larger from the air at 99.97% or greater efficiency;

(iii) Dry scraping of lead-based paint is permitted only in conjunction with heat guns or around electrical outlets or when treating defective paint spots totaling no more than 2 square feet in any one room, hallway, or stairwell or totaling no more than 20 square feet on exterior surfaces; and

(iv) Operating a heat gun on lead-based paint is permitted only at temperatures below 1100 degrees Fahrenheit.

(g) If conducted, soil abatement shall be conducted in one of the following ways:

(i) If the soil is removed:

(A) The soil shall be replaced by soil with a lead concentration as close to local background as practicable, but no greater than 400 ppm; and

(B) The soil that is removed shall not be used as top soil at another residential property or child-occupied facility; or

(ii) If soil is not removed, the soil shall be permanently covered, as defined in R307-840-2.

(h) The following post-abatement clearance procedures shall be performed only by a certified inspector or risk assessor:

(i) Following an abatement, a visual inspection shall be

performed to determine if deteriorated painted surfaces and/or visible amounts of dust, debris, or residue are still present. If deteriorated painted surfaces or visible amounts of dust, debris, or residue are present, these conditions must be eliminated prior to the continuation of the clearance procedures;

(ii) Following the visual inspection and any post-abatement cleanup required by paragraph (5)(h)(i) of this section, clearance sampling for lead in dust shall be conducted. Clearance sampling may be conducted by employing single-surface sampling or composite sampling techniques;

(iii) Dust samples for clearance purposes shall be taken using documented methodologies that incorporate adequate quality control procedures;

(iv) Dust samples for clearance purposes shall be taken a minimum of 1 hour after completion of final post-abatement cleanup activities;

(v) The following post-abatement clearance activities shall be conducted as appropriate based upon the extent or manner of abatement activities conducted in or to the residential dwelling or child-occupied facility:

(A) After conducting an abatement with containment between abated and unabated areas, one dust sample shall be taken from one interior window sill and from one window trough (if present) and one dust sample shall be taken from the floors of each of no less than four rooms, hallways, or stairwells within the containment area. In addition, one dust sample shall be taken from the floor outside the containment area. If there are less than four rooms, hallways, or stairwells within the containment area, then all rooms, hallways, or stairwells shall be sampled;

(B) After conducting an abatement with no containment, two dust samples shall be taken from each of no less than four rooms, hallways, or stairwells in the residential dwelling or child-occupied facility. One dust sample shall be taken from one interior window sill and window trough (if present) and one dust sample shall be taken from the floor of each room, hallway, or stairwell selected. If there are less than four rooms, hallways, or stairwells within the residential dwelling or child-occupied facility, then all rooms, hallways, or stairwells shall be sampled; and

(C) Following an exterior paint abatement, a visible inspection shall be conducted. All horizontal surfaces in the outdoor living area closest to the abated surface shall be found to be cleaned of visible dust and debris. In addition, a visual inspection shall be conducted to determine the presence of paint chips on the dripline or next to the foundation below any exterior surface abated. If paint chips are present, they must be removed from the site and properly disposed of, according to all applicable federal, state, and local requirements;

(vi) The rooms, hallways, or stairwells selected for sampling shall be selected according to documented methodologies;

(vii) The certified inspector or risk assessor shall compare the residual lead level (as determined by the laboratory analysis)

from each single surface dust sample with clearance levels in paragraph (5)(h)(viii) of this section for lead in dust on floors, interior window sills, and window troughs or from each composite dust sample with the applicable clearance levels for lead in dust on floors, interior window sills, and window troughs divided by half the number of subsamples in the composite sample. If the residual lead level in a single surface dust sample equals or exceeds the applicable clearance level or if the residual lead level in a composite dust sample equals or exceeds the applicable clearance level divided by half the number of subsamples in the composite sample, the components represented by the failed sample shall be recleaned and retested; and

(viii) The clearance levels for lead in dust are 40 ug/ft^2 for floors, 250 ug/ft^2 for interior window sills, and 400 ug/ft^2 for window troughs.

(i) In a multi-family dwelling with similarly constructed and maintained residential dwellings, random sampling for the purposes of clearance may be conducted provided:

(i) The certified individuals who abate or clean the residential dwellings do not know which residential dwelling will be selected for the random sample;

(ii) A sufficient number of residential dwellings are selected for dust sampling to provide a 95% level of confidence that no more than 5% or 50 of the residential dwellings (whichever is smaller) in the randomly sampled population exceed the appropriate clearance levels; and

(iii) The randomly selected residential dwellings shall be sampled and evaluated for clearance according to the procedures found in paragraph (5)(h) of this section.

(j) An abatement report shall be prepared by a certified supervisor or project designer no later than 30 business days after receiving the results of final clearance testing and all soil analyses (if applicable). The abatement report shall include the following information:

(i) Start and completion dates of abatement;

(ii) The name and address of each certified firm conducting the abatement and the name of each supervisor assigned to the abatement project;

(iii) The occupant protection plan prepared pursuant to paragraph (5)(e) of this section;

(iv) The name, address, and signature of each certified risk assessor or inspector conducting clearance sampling and the date of clearance testing;

(v) The results of clearance testing and all soil analyses (if applicable) and the name of each recognized laboratory that conducted the analyses; and

(vi) A detailed written description of the abatement, including abatement methods used, locations of rooms and/or components where abatement occurred, reason for selecting particular abatement methods for each component, and any suggested monitoring of encapsulants or enclosures.

(6) Collection and laboratory analysis of samples. Any paint

chip, dust, or soil samples collected pursuant to the work practice standards contained in this section shall be:

(a) Collected by persons certified by the director as an inspector or risk assessor; and

(b) Analyzed by a laboratory recognized by EPA pursuant to Section 405(b) of TSCA as being capable of performing analyses for lead compounds in paint chip, dust, and soil samples.

(7) Composite dust sampling. Composite dust sampling may only be conducted in the situations specified in paragraphs (3) through (5) of this section. If such sampling is conducted, the following conditions shall apply:

(a) Composite dust samples shall consist of at least two subsamples;

(b) Every component that is being tested shall be included in the sampling; and

(c) Composite dust samples shall not consist of subsamples from more than one type of component.

(8) Determinations.

(a) Lead-based paint is present:

(i) On any surface that is tested and found to contain lead equal to or in excess of 1.0 milligrams per square centimeter or equal to or in excess of 0.5% by weight; and

(ii) On any surface like a surface tested in the same room equivalent that has a similar painting history and that is found to be lead-based paint.

(b) A paint-lead hazard is present:

(i) On any friction surface that is subject to abrasion and where the lead dust levels on the nearest horizontal surface underneath the friction surface (e.g., the window sill or floor) are equal to or greater than the dust hazard levels identified in the definition of "Dust-lead hazard" in R307-840-2;

(ii) On any chewable lead-based paint surface on which there is evidence of teeth marks;

(iii) Where there is any damaged or otherwise deteriorated lead-based paint on an impact surface that is caused by impact from a related building component (such as a door knob that knocks into a wall or a door that knocks against its door frame); and

(iv) If there is any other deteriorated lead-based paint in any residential building or child-occupied facility or on the exterior of any residential building or child-occupied facility.

(c) A dust-lead hazard is present in a residential dwelling or child-occupied facility:

(i) In a residential dwelling on floors and interior window sills when the weighted arithmetic mean lead loading for all single surface or composite samples of floors and interior window sills are equal to or greater than 40 ug/ft^2 for floors and 250 ug/ft^2 for interior window sills, respectively;

(ii) On floors or interior window sills in an unsampled residential dwelling in a multi-family dwelling, if a dust-lead hazard is present on floors or interior window sills, respectively, in at least one sampled residential unit on the property; and

(iii) On floors or interior window sills in an unsampled common area in a multi-family dwelling, if a dust-lead hazard is present on floors or interior window sills, respectively, in at least one sampled common area in the same common area group on the property.

(d) A soil-lead hazard is present:

(i) In a play area when the soil-lead concentration from a composite play area sample of bare soil is equal to or greater than 400 parts per million; or

(ii) In the rest of the yard when the arithmetic mean lead concentration from a composite sample (or arithmetic mean of composite samples) of bare soil from the rest of the yard (i.e., non-play areas) for each residential building on a property is equal to or greater than 1,200 parts per million.

(9) Recordkeeping. All reports or plans required in this section shall be maintained by the certified firm or individual who prepared the report for no fewer than 3 years. The certified firm or individual also shall provide copies of these reports to the building owner who contracted for its services.

KEY: paint, lead-based paint, lead-based paint abatement
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