



UTAH DEPARTMENT of ENVIRONMENTAL QUALITY WASTE MANAGEMENT & RADIATION CONTROL



## **Used oil in Utah**

## The Division of Waste Management and Radiation Control

- *Title 19-1-105*, Creation of department of Environmental Quality and the Division of Waste Management and Radiation Control to administer the Used Oil Management Act (Title 19-6-7)
- *Title 19-6-7*, Used Oil Management Act ensures compliance with 40 CFR 279, Standards for the Management of Used Oil

## Used oil, a valuable petroleum resource

- *Title 19-6-7.702*, Legislative findings
  - Millions of gallons of used oil are generated each year in Utah
  - This oil is a valuable petroleum resource that can be recycled instead of wastefully disposed of or improperly used
  - Used oil should be collected, treated, and reused... therefore, the collection, recycling, and reuse of used oil is in the public interest



# WASTE MANAGEMENT & RADIATION CONTROL

# Standards for the management of used oil

### **Purpose of this training**

- Enhance your understanding of the used oil Rules for generators
- Discuss specific questions that you may have regarding how this standard applies to your business
- Leave with specific and applicable goals to improve your business compliance



## **Definition of used oil**

R315-15-1.7(d)

#### **Used oil means**

...Any oil, refined from crude oil or synthetic oil, that has been used and as a result of that use is contaminated by physical or chemical impurities.

## **Examples include**

- Engine oils
- Transmission fluid
- Compressor oils
- Metalworking oils
- Hydraulic oils
- Brake fluid

- Oils used as buoyant
- Lubricating greases
- Electrical insulating and dielectric oils



## **Definition of used oil** (Continue)

R315-15-1.7(d)

#### **Used oil is NOT**

- Waste oil \*
  - Expired oil
  - Non-used virgin oil
  - Virgin oil tank bottoms
- Vegetable oil
- Animal fat
- Petroleum distillates (solvents)
- Antifreeze
- Kerosene

\* Oil that has not been used but is found to be unsuitable for its originally intended purpose.



## Used oil can become

- Fuel oil
- Bunker fuel
- Re-refined motor oil







# Prohibitions on disposal of used oil

R315-15-1.3

#### Used oil shall NOT be

- Managed in surface impoundments and waste piles
- Used as dust suppressant, weed suppressant or for road oiling or other similar use
- Disposed on the ground (UCA 19-6-706(1)(a)(iii))
- Mixed with solid waste (SW) to be disposed in SW TSDF
- Mixed with HW
- Disposed in a SW TSDF (except under R315-261)
- Disposed in sewers, drainage systems, septic tanks, surface or ground water, watercourses, or any body of water



## **Used oil generators**

R315-15-2

### A used oil generator is

...Any person, by site, whose act or process produces used oil or whose act first causes used oil to become subject to regulation.

#### **Standards**

- Should not be mixed with HW
- Subject to SPCC (40 CFR 112)
- Store in tanks and/or containers
  - Good condition, not leaking
  - Closed
  - Managed to prevent releases
  - Labeled or marked "used oil"



# **On-site burning**

R315-15-2.4

### In general

- Comply with used oil burner requirements (R315-15-6), and
- Obtain air quality permit (if applicable)

### Burning used oil without a permit

- Only generated by the owner or operator;
- Space heater, ≤0.5 million BTU/hour;
- Vented to the outside ambient air;
- Not mixed with HW; and
- Burned to utilize its energy content









## **Used oil generators** (Continue)

R315-15-2.5

### **Shipments**

- Self-transport ≤55 gallons
  - Vehicle owned by generator
  - To approved collection center, or
  - Aggregation point
- Transported by permitted used oil transporter







# Used oil collection center program R315-15-3

## **UOCC** program

- Free service to the public
- Manages registered UOCCs in Utah
- 4 types of UOCCs (A, B, C, and D)
- 419 registered UOCCs (as of May 2022)
- About 200K gallons of used oil collected in 2021



# How to find a UOCC or a used oil transporter?

#### Website

- <a href="https://deq.utah.gov/waste-management-and-radiation-control/collection-centers-used-oil-program">https://deq.utah.gov/waste-management-and-radiation-control/collection-centers-used-oil-program</a>
- <a href="https://deq.utah.gov/waste-management-and-radiation-control/transporters-and-transfer-facilities-permitted-used-oil-facilities-permitted-oil-facilities-permitted-oil-facilities-permitted-oil-facilities-permitted-oil-facilities-permitte

#### Call

- 1 (800) 458-0145
- Or (801) 536-4400

# **Used oil specifications**

R315-15-1.2

# Used oil burned for energy recovery, and any fuel produced from used oil by processing, blending, or other treatment, is subject to R315-15 until:

• It has been demonstrated not to exceed any allowable levels (Table 1);

• Arsenic 5 ppm max

• Cadmium 2 ppm max

• Chromium 10 ppm max

• Lead 100 ppm max

• Flash point 100 degrees °F minimum

Total halogens 4,000 ppm max\*

The allowable levels in Table 1 do not apply to mixtures of used oil and HW that continue to be regulated as HW. See R315-15-1.1(b).



<sup>\*</sup> If total halogens > 1,000 ppm, then use rebuttable presumption. Or subject to R315-266-100 through 112, rather than R315-15.

## **Used oil specifications** (Continue)

R315-15-1.2

# Used oil burned for energy recovery, and any fuel produced from used oil by processing, blending, or other treatment, is subject to R315-15 until:

- The person making that claim complies with R315-15-7.3, R315-15-7.4, and R315-15-7.5(b); and
- The used oil is delivered to a used oil burner.

**Note:** Applicable standards for the marketing and burning of used oil containing any quantifiable level (2 ppm) of PCBs are found in 40 CFR 761.20(e), 2013 edition, incorporated by reference, and R315-15-18. Prohibition of PCB oil dilution is described in 40 CFR 279.10 and 40 CFR 761.20(e).





## **Laboratory analyses**

R315-15-1.8

- Shall be performed by a laboratory that holds a current Utah Certification for environmental laboratories issued by the Utah Department of Health (R444-14 Utah Administrative Code)
- The laboratory shall be certified for the method(s) and analyte(s) applied to generate the environmental data





# **Used oil storage**

R315-15-2.3

#### In General:

- Comply with all applicable SPCC (40 CFR 112)
- Comply with UST requirements (R311, 40 CFR 280)
- Upon detection of a release of used oil to the environment (not subject to the requirements of Section R311-202-1), a generator shall comply with emergency controls (R315-15-9)



# **Used oil storage** (Continue) R315-15-2.3

### **Storage units**

- Approved (Tanks, containers, units subject to HW TSDF Regulations)
  - In good condition
  - With no severe rusting
  - No apparent structural defects, or deterioration
  - Not leaking
  - Closed during storage except when adding or removing used oil
  - Storage areas shall be managed to prevent releases of used oil to the environment
  - Label or marked clearly with the words "used oil" (including fill pipes)
  - In a containment system (R315-264-170 through 178), including pipe connections and valves
    - Dikes, berms, or retaining walls; and a floor (of sufficient extent)
    - Double-wall tanks













## **Used oil filters**

R315-15-1.7

## Did you know?

- Each filter retains about one cup of oil
- Three legal ways to manage filters

# Non-tern plated used oil filters (Exemption from HW regulations)

- Punctured and hot drained for 12 hours, and
- Crushed
- Dismantled

Filter casing may be recycled as scrap metal











# Used oil permits and registrations

R315-15-4

#### **Definitions**

### **Used Oil Transporters**

- Persons who transport used oil.
- Persons who collect and transport used oil from more than one generator.
- Owners and operators of used oil transfer facilities.
- Does not Apply to:
  - On-site transportation
  - Self-transport ≤55 gallons to a UOCC or Aggregation Point
  - DIYers transporting to regulated Used Oil Facility subject to R315-15

### **Used Oil Transfer Facilities**

• Used oil transportation related facilities who store used oil up to 35 days.



R315-15-13

#### **Definitions**

Used Oil Permit By Rule (PBR) Transporters and Transfer Facilities

Non-contiguous

Operation



Central Collection Facility (Shop)

- Self-transports own used oil
- Own service vehicles
- ≥55 gallons
- Following R315-15-13.4(f)(1) through (4)
- NAICS codes: 21, 22, 23, 485111, and 541360

#### **Definitions**

Used Oil Processors and Re-Refiners

- Owners and operators of facilities that process used oil.
  - Processing: chemical or physical operations designed to produce from used oil, or to make used oil more amenable for production of, fuel oils, lubricants, or other used oil-derived products.
  - Processing includes:
    - Blending used oil with virgin petroleum products
    - Blending used oils to meet the fuel specification
    - Filtration
    - Simple distillation
    - Chemical or physical separation and re-refining



#### **Definitions**

Used Oil On-Specification Fuel Burners

 A person who only burns used oil that meets the specifications of R315-15-1.2.

Used Oil Off-Specification Fuel Burners

• A person who burns used oil not meeting the specifications found in R315-15-1.2 for energy recovery.



#### **Definitions**

**Used Oil Fuel Marketers** 

- Any person who
  - Directs a shipment of off-specification used oil from their facility to a used oil burner; or
  - First determines and claims that used oil that is to be burned for energy recovery meets the used oil fuel specifications (R315-15-1.2).



# Standards for the disposal of used oil

R315-15-8

### **Disposal**

- If Can't Be Recycled and Are Being Disposed
- If identified as HW (R315-15)
  - Managed as HW (R315-260 through 266, 268, 270, and 273)
- If non-hazardous (R315-15)
  - Disposed in a SW Disposal Facility (R315-301 through R315-318)
- Prohibited to Dispose As:
  - Dust Suppressant
  - Weed Suppressant
  - Road Oiling or Other Similar Use





# **Emergency controls**R315-15-9

#### Immediate action

- To minimize the threat to human health and the environment
  - Stop and contain release
  - Clean up and manage released material
  - Repair/replace used oil tanks, containers, ancillary equipment (if needed)
- Notify the Utah State Department of Environmental Quality
  - 24-hour Answering Service (801) 536-4123
  - Releases > 25 gallons
  - Smaller releases posing potential threat to human health or environment
- Other notifications
  - National Response Center (Air, rail, highway, or water transporter)
  - Director, Office of HM Regulations, DOT (Washington, D.C.)
  - Notify as required by 33 CFR 153.203 for oil and hazardous substances



# **Emergency controls** (Continue)

#### **Emergency control variance**

- Used oil transporter permit and used oil handler certificate requirement
- US EPA identification number requirement
- For used oil transporters
- Until release no longer presents an immediate hazard to human health or the environment

#### Release clean-up

- Clean up (may required to US EPA Regional Screening Level standards)
  - Released material, residue, or contaminated soil, water or other material
  - Until no longer a hazard to human health or environment
  - At the expense of responsible person





# **Emergency controls** (Continue)

#### Reporting

Within 15 days after any reportable release of used oil

- Submit written report to Director
  - Person's name, address, and telephone number
  - Date, time, location, and nature of the incident
  - Name and quantity of material(s)
  - Extent of injuries (if any)
  - Assessment of actual or potential hazards to human health or the environment (where applicable)
  - Estimated quantity and disposition of recovered material



## **Polychlorinated Biphenyls (PCBs)**

R315-15-18

#### **PCB Concentrations (ppm)**

- ≥50 ppm is subject to TSCA regulations in 40 CFR 761
- ≥2 ppm but <50 ppm is subject to both R315-15 and 40 CFR 761



**Used oil generators** 

1. Properly labeling of used oil containers and tanks (Used Oil)











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- 2. Closing used oil containers or tanks when not in use











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- 3. Cleaning up used oil spills (Housekeeping)











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- 4. Not using permitted used oil transporters









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- 2. Closing used oil containers or tanks when not in use
- 3. Cleaning up used oil spills (Housekeeping)
- 4. Not using permitted used oil transporters
- 5. Self-transporting more than 55 gallons at a time







## Standards for the management of used oil

**Used oil generators** 

Visit Used Oil Program Website at

https://deq.utah.gov/waste-management-and-radiation-control/used-oil-recycling-program

Call DWMRC Used Oil Section (801) 536-0218



# Standards for the management of used oil



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