

MODULE II - GENERAL FACILITY CONDITIONS

II.A. APPLICABILITY

- II.A.1. The requirements of this Permit module pertain to the EDS treatment unit identified within Modules I, II, and III.
- II.A.2. The Permittee shall be responsible for compliance with all aspects of the Permit. If a non-compliance situation is caused by any entity working on any aspect of the EDS, the Permittee shall be deemed in non-compliance. Work by other entities shall not be used as shield from compliance and enforcement of this Permit.
- II.A.3. All waste management activities conducted in support of the EDS by TEADS, EOD or other entities shall be in accordance with applicable provisions of this Permit and all applicable hazardous waste management rules of R315 of the Utah Administrative Code. If a non-compliance situation is caused by TEADS, EOD or other entity working in support of the EDS, the Permittee shall be deemed in non-compliance.
- II.A.4. The Permittee shall be considered a large quantity generator of hazardous waste for the purpose of record keeping and applicable provisions of the UAC.

II.B. DESIGN AND OPERATION OF FACILITY

- II.B.1. The Permittee shall design, construct, maintain and operate the EDS and its ancillary equipment and structures to minimize the possibility of a fire, explosion, or any sudden or non-sudden release of hazardous waste or hazardous waste constituents to the air, soil, groundwater or surface water which could threaten human health or the environment.
- II.B.2. The Permittee is allowed to utilize up to two EDS units on-site. Any reference to conditions that pertain to an EDS unit, shall pertain to either one or two EDS units.
- II.B.3. The EDS is considered a 40 CFR Subpart X Miscellaneous Unit for the purpose of this Permit. The term "vessel," as used in this Permit, refers to the treatment container within an EDS unit.
- II.B.4. This Permit applies to EDS Phase 2 units only. Other EDS units are not permitted for use. The major components of the Phase 2 EDS are shown in Figure 4.
- II.B.5. This Permit allows TEADS to only treat hazardous waste inside of an EDS unit. This Permit does not allow the Permittee to store hazardous waste for more than 90 days on-site or dispose of hazardous waste on-site.

II.B.6 All EDS units shall be housed inside an Environment Enclosure as depicted in Figure 5. Figure 3 presents an example site layout of the EDS site at TEADS.

II.B.7 Configuration of the equipment within an Environmental Enclosure surrounding the EDS may vary, but all the equipment listed in Figures 4 and 6 shall be present.

II.C. WASTE ACCEPTANCE

II.C.1 The Permittee shall not accept waste from off-site sources for treatment. All wastes to be treated in the EDS must be generated at TEADS.

II.D. WASTE ANALYSIS

II.D.1. The Permittee shall follow the procedures of the Waste Analysis Plan included as Attachment 2 of this Permit. In addition, the Permittee shall comply with any other conditions involving waste analysis in Modules I, II, III.

II.D.2. The Permittee shall use the test methods described in the Waste Analysis Plan (Attachment 2) or an equivalent procedure that satisfies Condition I.O.3. Changes in a test method described in the Waste Analysis Plan, as a result of an improvement or refinement of that method, may be adopted by the Permittee and incorporated into this Permit, in accordance with UAC R315-4-1.5 and Condition I.D.

II.D.3. The Permittee shall characterize if necessary, all waste streams generated on site in accordance with UAC R315-8-2.4 and Attachment 2. The waste characterization profiles shall be kept in the operating record.

II.D.4. An annual evaluation of each waste stream shall be performed, as outlined in the waste analysis plan, to verify that the waste characterization is still accurate. These evaluations shall be kept in the operating record until the next annual evaluations are completed.

II.D.5. Characterization shall be accomplished for every waste munition to be treated.

II.D.6. At a minimum, the Permittee shall:

II.D.6.a. Maintain properly functioning sampling and analytical equipment;

II.D.6.b. Use approved sampling and analytical methods; and

II.D.6.c. Submit an updated list of parameters, analytical methods, and sample preparation methods on an annual basis to the Director on or before January 15th of each calendar year.

II.D.7. Whenever the Director determines that the Permittee needs to update the analytical methodologies or the version(s) of SW-846 that are being used by the Permittee's analytical laboratory, the Director will submit written notification to the Permittee. The Permittee shall have 180 days from the receipt of the Director's written notification to complete the requested update. If it is not possible to complete the update within the prescribed time, the Permittee shall submit a written request for extension to the Director for approval.

II.D.8. If the Permittee uses a contract laboratory to perform analyses, the laboratory must be certified by the State of Utah to perform the contracted analyses. The Permittee shall inform the laboratory in writing that it must operate under the Waste Analysis Plan and Quality Assurance Project Plan set forth in this Permit.

II.D.9. For chemical agent analysis, the Permittee shall submit to the Director, the Precision and Accuracy report for the analytical methods for each chemical agent analysis for this project. The Permittee shall ensure that quality control/quality assurance data provided by the laboratory is sufficient to assess the validity of the data.

II.E SECURITY

II.E.1. The Permittee shall comply with the security conditions and procedures in Attachment 10 of this Permit.

II.F. GENERAL INSPECTION REQUIREMENTS

II.F.1. The Permittee shall conduct inspections in accordance with UAC R315-8-2.6 and shall follow the inspection schedule in Attachment 11.

II.F.2. The Permittee shall remedy any deterioration or malfunction as required by UAC R315-8-2.6(c). If the remedy requires more than 72 hours to implement from the time the problem is detected, the Permittee shall submit to the Director, before the expiration of the 72 hour period, a proposed time schedule for correcting the problem.

II.F.3. Any problem which could endanger human health or the environment shall be corrected as soon as possible after the problem is discovered. The Permittee shall make every effort to eliminate the threat to human health or the environment within 24 hours.

II.F.4. If, upon determination by the Director or the Permittee, continued operation of the waste management unit involved in the inspection could endanger human health or the environment, the Permittee shall cease operation of the unit until the problem has been corrected and approval to resume has been granted by the Director. The Permittee shall be allowed to undertake those operations which are part of corrective activities.

II.F.5. Records of inspections shall be kept as required by UAC R315-8-2.6(d).

II.G. PERSONNEL TRAINING

II.G.1. The Permittee shall conduct personnel training as required by UAC R315-8-2.7. This training program shall follow the outline in Attachment 9. Due to the potential short term nature of the operation, personnel working with or around hazardous waste shall complete the required personnel training prior to assignment to the facility or assignment to a new position at the facility.

II.G.2. Facility personnel shall take part in an annual review of their initial training relevant to the positions in which they are employed.

II.G.3. The Permittee shall maintain training documents and records as required by UAC R315-8-2.7(d) and R315-8-2.7(e) [40 CFR 264.16(d) and 264.16(e)], in

accordance with the Training Plan in Attachment 9. These records shall indicate the type and amount of training received.

II.G.4. The Permittee shall maintain a copy of the Training Plan at the Facility until it is fully closed and closure is certified.

II.G.5. Employees working at the EDS shall receive task specific on-the-job-training in addition to the training outlined in Attachment 9. Documentation of this training shall be maintained in the operating record.

II.H. MANAGEMENT OF CONTAINERS

II.H.1 All containers that hold wastes generated at the EDS shall be compatible with the wastes contained therein as determined by DOT requirements, compatibility charts provided by the manufacturer or information in 40 CFR 264 Appendix V regarding incompatible materials.

II.H.2. All hazardous wastes generated on-site may be stored in a less than 90 day area, treated further or shipped off- site to a treatment storage or disposal facility.

II.I. GENERAL REQUIREMENTS FOR IGNITABLE, REACTIVE OR INCOMPATIBLE WASTE

II.I.1. The Permittee shall comply with the requirements of UAC R315-8-2.8.

II.I.2. The Permittee shall not store or manage incompatible wastes or materials within the same container or within a container that previously held an incompatible waste.

II.I.3. Wastes or materials shall only be stored on-site if separated from incompatible wastes or materials by a berm, wall, dike or other device that would prevent the wastes from commingling if the wastes came out of their container.

II.J. LOCATION STANDARDS

II.J.1. The Permittee shall comply with the location standards specified by UAC R315-8-2.9. The EDS shall be located within Area 10 of the TEADS and only in the area shown on the map in Figure 2. The Permittee shall ensure the EDS site will be located outside the 100-year floodplain. The Permittee shall ensure the EDS site will not be located in a wetland area.

II.K. PREPAREDNESS AND PREVENTION

- II.K.1. The Permittee shall follow the Preparedness and Prevention requirements in Attachment 12.
- II.K.2. At a minimum, the Permittee shall maintain in good operating condition at the facility the equipment in Attachment 12, as required by UAC R315-8-3.3.
- II.K.3. The Permittee shall maintain records of the preventative maintenance and repair of the equipment specified in Condition II.K.3 and shall keep schedules of preventative maintenance activities in the operating record at the facility.
- II.K.4. The Permittee shall maintain access to the communications or alarm system as required by UAC R315-8-3.5.
- II.K.5. The Permittee shall attempt to make arrangements (Coordination Agreements) with State and local authorities as required by UAC R315-8-3.7. Copies of the Coordination Agreements shall be kept in the operating record. The attempts to make such agreements, any refusals and all final agreements shall be documented in the operating record.

II.L. CONTINGENCY PLAN

- II.L.1. The Permittee shall immediately carry out the provisions of Attachment 13, and follow the emergency procedures described in UAC R315-8-4.7 whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which threatens or could threaten human health or the environment. The Permittee shall comply with Condition I.T. in reporting releases to the Director.
- II.L.2. The Permittee shall provide copies of the Contingency Plan to emergency agencies who may be called in an emergency, shall maintain a copy of the Plan at the facility, and shall provide a copy upon request in accordance with UAC R315-8-4.4.
- II.L.3. The Permittee shall review the Contingency Plan, in accordance with UAC R315-8-4.5 and shall modify it in accordance with Condition I.D., if necessary.
- II.L.4. A trained emergency coordinator shall be available at all times in case of an emergency, in accordance with UAC R315-8-4.6 and Attachment 13.
- II.L.5. The EDS Site-Specific Contingency Plan shall be reviewed and amended, if necessary. Amendment shall be a permit modification. The plan may also be modified for the following reasons:
 - II.L.5.a. To incorporate administrative and informational changes,
 - II.L.5.b. To upgrade, relocate or replace emergency equipment listed in the contingency plan with functionally equivalent emergency equipment, or

- II.L.5.c. To change the name, telephone number, or address of the Emergency Coordinator, alternate Emergency Coordinator, or other persons, organizations or agencies identified in the plan.
- II.L.6. The EDS Emergency Coordinator shall meet the requirements listed in UAC R315-8-4 as these requirements relate to the EDS.
- II.L.7. The Permittee shall immediately carry out the provisions of the EDS Site-Specific Contingency Plan and follow emergency procedures whenever there is an imminent or actual fire, explosion, or release of hazardous waste or constituents that threatens or could threaten human health or the environment.

II.M. PROCESS DESCRIPTIONS AND SPECIFICATIONS

- II.M.1. For the purpose of this Permit, the EDS is defined as a Miscellaneous Unit and as such is subject to UAC R315-8-16 (40 CFR part 264.600 through 264.603). As a Miscellaneous Unit, the Permittee has determined the design specifications and the components of the EDS and its ancillary equipment. Therefore, for purposes of this Permit, the Permittee shall maintain the design and componentry of the EDS and its ancillary equipment as specified in Attachment 1 and shown in Figure 6. Ancillary equipment shall include all items mentioned in Attachment 1 that are attached to or used in support of EDS operations and includes the environmental enclosure and its air handling and air monitoring systems.
- II.M.2. The Permittee shall comply with the operational aspects of pre-treatment and post-treatment waste handling in Attachment 1. This includes use of explosive charges.
- II.M.3. The Permittee shall comply with the operational aspects of treatment of waste in Attachment 1. This includes use of explosive charges.
- II.M.4. The Permittee shall maintain an operating record as specified in Attachment 1.
- II.M.5. The Permittee shall submit the SOPs listed in Table 1 and all IOPs to the Director prior to the issuance of the draft permit for public comment.

II.N. TREATMENT

- II.N.1. The Permittee shall only treat wastes that are listed in Attachment 4. The Permittee shall not treat wastes that are prohibited in Attachment 4.
- II.N.2. The Permittee shall comply with the operational aspects of pre-treatment and post-treatment waste handling as specified in Attachment 4. This includes use of explosive charges.
- II.N.3. The Permittee shall comply with the operational aspects of treatment of waste as specified in Attachment 4. This includes use of explosive charges.

II.O. AGENT AND AIR MONITORING

- II.O.1. The Permittee shall comply with the air monitoring requirements, procedures and protocols in Attachment 5 (Agent and Air Monitoring).
- II.O.2. The Permittee shall comply with all requirements related to laboratory operations in Attachment 5.
- II.O.3. The Permittee shall comply with all requirements related to recordkeeping in Attachment 5.

II.P. MONITORING STRATEGY DURING MUSTARD OPERATIONS

- II.P.1. When a waste is suspected of containing Mustard (H, HD, or HT), the Permittee shall comply with the air monitoring locations, requirements, procedures and protocols for Mustard operations in Attachment 6. This includes NRT monitoring for worker protection using HTSL, MINICAMS and DAAMS tubes. The air monitoring locations during H/HD/HT waste operations are shown in Figure 14.
- II.P.2. The Permittee shall comply with the worker protection levels in Attachment 6.

II.Q. MONITORING STRATEGY DURING G-SERIES NERVE AGENT OPERATIONS

- II.Q.1. When a waste is suspected of containing a G-series waste (GA or GB), the Permittee shall comply with the air monitoring locations, requirements, procedures and protocols for G-series operations in Attachment 7. This includes NRT monitoring for worker protection using HTSL, MINICAMS and DAAMS tubes. The air monitoring locations during G-series waste operations are shown in Figure 15.
- II.Q.2. The Permittee shall comply with the worker protection levels in Attachment 7.

II.R. QUALITY ASSURANCE / QUALITY CONTROL

- II.R.1. The Permittee shall comply with the requirements, procedures and protocols in Attachment 3 for on-site and off-site laboratories.
- II.R.2. The Permittee shall comply with the requirements, procedures and protocols in Attachment 3 related to waste and QA/QC samples.
- II.R.3. The Permittee shall comply with the requirements, procedures and protocols specified in Attachment 3 for documentation and data packages. All records shall become part of the operating record.

- II.R.4. The Permittee shall comply with the requirements, procedures and protocols specified in Attachment 4.
- II.R.5. The Permittee shall comply with the requirements, procedures and protocols in Attachment 3 for calculations and data reporting.
- II.R.6. The Permittee shall comply with the requirements, procedures and protocols in Attachment 3 for waste handling and waste treatment.
- II.R.7. The Permittee shall comply with the requirements, procedures and protocols in Attachment 3 for personnel training.

II.S. HEALTH AND SAFETY

- II.S.1. The Permittee shall develop a site-specific Health and Safety Plan for on-site workers on the EDS site at TEADS before operations begin. The Health and Safety Plan shall become Attachment 8 to this Permit. The Permittee shall comply with the requirements, procedures and protocols specified in the Health and Safety plan.

II.T. MANIFEST SYSTEM

- II.T.1. The Permittee shall comply with the manifest requirements of UAC R315-5-2 and R315-8-5. The manifest tracking number shall be recorded in the operating record with each waste load that leaves the Permittee's facility.

II.U. RECORDKEEPING AND REPORTING

- II.U.1. The Permittee shall maintain an accurate written operating record at the facility in accordance with UAC R315-8-5.3 (40 CFR 264.73 incorporated by reference) and R315-50-2 (Appendix I to Part 264 incorporated by reference).
- II.U.2. The Permittee shall, by March 1 of each year, submit to the Director a certification pursuant to UAC R315-8-5.3 [40 CFR 264.73(b)(9) incorporated by reference], signed in accordance with UAC R315-3-2.2, that the Permittee has a program in place to reduce the volume and toxicity of hazardous waste that it generates to the degree determined by the Permittee to be economically practicable; and that the proposed method of treatment, storage, or disposal is the most practicable method currently available to the Permittee which minimizes the present and future threat to human health or the environment.
- II.U.3. The Permittee shall comply with the biennial report requirements of UAC R315-8-5.6, by March 1 of each even-numbered reporting year. The report shall include wastes generated or treated at the Permittee's facility during the previous odd-numbered year.
- II.U.4. The Permittee shall submit additional reports to the Director in accordance with UAC R315-8-5.8.

II.U.5. All reports, notifications, applications or other materials required to be submitted to the Director shall be submitted in accordance with Condition I.DD.

II.V. CLOSURE

II.V.1. The Permittee shall close the facility as required by UAC R315-8-7, UAC R315-101 and Attachment 14.

II.V.2. On concluding every treatment operation, the Permittee shall follow all approved close-out procedures in this Permit and associated SOP's for servicing, cleaning, disassembly, and decontaminating (if necessary) EDS components.

II.V.3. For the EDS, minor deviations from the approved closure plan procedures, necessary to accommodate proper closure, shall be described in narrative form with the closure certification statements. The Permittee shall describe the rationale for implementing minor changes as part of this narrative report. Within 60 days after completion of closure of the EDS, the Permittee shall submit the certification statements, verification results and narrative reports describing the closure to the Director.

II.V.4. The Permittee shall amend the closure plan in accordance with UAC R315-8-7 and Condition I.D. whenever necessary, or when required to do so by the Director.

II.V.5. The Permittee shall notify the Director in writing of the partial or temporary closure of any portion of the facility in accordance with UAC R315-8-7. The Permittee shall notify the Director at least 45 days prior to the commencement of final facility closure. The closure plan in Attachment 14 will be reviewed before commencing partial or final facility closure. If the closure plan requires modification, the plan shall be modified and submitted to the Director for approval in accordance with Condition I.D.

II.V.6. After receiving the final volume of hazardous waste, the Permittee shall treat or remove from the site all hazardous waste and complete closure activities in accordance with the schedule specified in Attachment 14.

II.V.7. The Permittee shall decontaminate or dispose of all facility equipment, structures, soil and rinsate as required by UAC R315-8-7, R315-8-9 and Attachment 14. Facility equipment, structures and soil which have not been decontaminated shall be disposed of only at a permitted hazardous waste treatment, storage or disposal facility.

II.V.8. The Permittee shall certify that the facility has been closed in accordance with the specifications in Attachment 14 as required by UAC R315-8-7, and shall provide a certification by an independent, Utah registered professional engineer qualified by experience and education in the appropriate engineering field.

II.V.9. In the event that any of the EDS units covered by this Permit cannot be clean closed by decontaminating or removing contaminated structures or soil, or releases have occurred which have impacted soil or groundwater, the Permittee shall modify the Closure Plan for that hazardous waste management unit in accordance with Condition I.D. Within 30 days of the date that the Director

approves the modification, the Permittee shall close the unit in accordance with the applicable provision of UAC R315-8-7 and R315-101.

II.W. LIABILITY REQUIREMENTS

II.W.1. The Permittee is exempt from the liability requirements of UAC R315-8-8 (40 CFR 264.147(a) incorporated by reference).

II.X. INCAPACITY OF OWNER OR OPERATORS, GUARANTORS, OR FINANCIAL INSTITUTIONS

II.X.1. The Permittee shall comply with the notification and financial requirements of UAC R315-8-8 (40 CFR 264.148 incorporated by reference).