

## MODULE II - GENERAL FACILITY CONDITIONS

### II.A. APPLICABILITY

- II.A.1. The requirements of this Permit module pertain to all Hazardous Waste Management Units (HWMUs) identified within Modules III, IV, V and VI.

### II.B. DESIGN AND OPERATION OF FACILITY

- II.B.1. The Permittee shall design, construct, maintain and operate the HWMUs and surrounding areas to minimize the possibility of a fire, explosion, or any sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, groundwater or surface water which could threaten human health or the environment.
- II.B.2. Any request for changes to the existing HWMUs shall be in accordance with UAC R315-3-4.3 and Condition I.D.6. Changes to the design and operation of a HWMUs shall satisfy the secondary containment, environmental performance and incinerator control requirements specified in this permit. Any changes to a HWMU must be documented on as-built drawings and with professional engineering certifications as required by UAC R315-3-3.1(I).
- II.B.3. After review of the as-built drawings and field verification of the units, the Executive Secretary will notify the Permittee in writing of any change which he concludes does not satisfy the operating requirements specified in this permit. If it is established that such changes are permit violations, the Executive Secretary may require the Permittee to remove, replace or modify any construction inconsistent with this permit.

### II.C. REQUIRED NOTICE

- II.C.1. As required by UAC R315-8-2.3(a)(1), the Permittee shall notify the Executive Secretary in writing at least four weeks in advance of the date the Permittee expects to receive waste military munitions from a foreign source, Notice of subsequent shipments of the same waste from the same foreign source in the same calendar year is not required.
- II.C.2. When the Permittee arranges to receive waste military munitions from an off-site

source, the generator must be informed in writing by the Permittee that he has the appropriate Permit for and will accept the waste the generator is shipping. As required by UAC R315-8-2.3 (b), the Permittee shall keep a copy of the written notice as part of the operating record.

**II.D. WASTE ANALYSIS PLAN**

- II.D.1. The Permittee shall follow the procedures of the Waste Analysis Plan in Attachment 2 of this Permit. In addition, the Permittee shall comply with any other conditions involving waste analysis in Modules III, IV, V and VI.
- II.D.2. The Permittee shall use the test methods described in the Waste Analysis Plan in 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.
- II.D.3. The Permittee shall verify the analysis of each waste stream when new or modified wastes are known or suspected to exist. The Permittee shall conduct an evaluation of each new waste stream generated on-site and shall submit to the Executive Secretary a report of the analysis in compliance with UAC R315-8-2.4. The report shall be submitted once adequate volume is generated to allow analysis. The Waste Stream Evaluation Form, as shown in Attachment 2, shall be used for this report. Analysis of existing waste streams shall be kept in the operating record.
- II.D.4. Sampling of any component of a waste munition to be stored and/or treated at TEAD, including the energetic material of a munition, is not required to meet the waste analysis requirements of UAC R315-7-9.4 and UAC R315-8-16. User knowledge will suffice. User knowledge to determine the detailed physical and chemical analysis of a waste munitions shall include use of information in the MIDAS database as well as drawings and manufacturers information. All waste characterization information shall be in the operating record. Residues from the treatment of PEP wastes are subject to Condition II.D.3.
- II.D.5. At a minimum, the Permittee shall:
  - II.D.5.a. Maintain proper functional instruments;
  - II.D.5.b. Use approved sampling and analytical methods;

II.D.6. If the Permittee uses a contract laboratory to perform analyses, the laboratory shall be certified by the State of Utah to perform the contracted analyses. Provisional certification is not acceptable as certification under this condition. For parameters for which certification is unavailable, the laboratory shall provide quality control/quality assurance data sufficient to assess the validity of the data. The Permittee shall inform the laboratory in writing that it must operate under the Waste Analysis Plan conditions set forth in this Permit.

**II.E. SECURITY**

II.E.1. The Permittee shall comply with security conditions and procedures contained in Attachment 3.

**II.F. GENERAL INSPECTION REQUIREMENTS**

II.F.1. The Permittee shall conduct inspections in accordance with UAC R315-8-2.6, and the procedures and schedule in Attachment 4. In addition, the Permittee shall comply with the conditions pertaining to inspections in Modules III, IV, V and VI and the following:

II.F.1.a. 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 that the problem is detected, the Permittee shall submit to the Executive Secretary, before the expiration of the 72 hour period, a proposed time schedule for correcting the problem.

II.F.1.b. 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. The training program shall follow the outline found in Attachment 5. New personnel working with or around hazardous waste shall complete the required personnel training within six months after their hire date, assignment to the facility or assignment to a new position at the facility. In addition, the Permittee shall comply with the following conditions:

II.G.1.a. Facility personnel shall take part in an annual review of their initial training in both contingency procedures and the hazardous waste management procedures

relevant to the positions, which they are employed.

II.G.1.b. The Permittee shall maintain training documents and records as required by UAC R315-8-2.7(d) and UAC R315-8-2.7(e) and in accordance with the Training Plan in Attachment 5. These records shall indicate the type and amount of training received.

II.G.1.c. The Permittee shall maintain a copy of the Training Plan at the facility until the facility is fully closed and closure is certified.

## **II.H. GENERAL REQUIREMENTS FOR IGNITABLE, REACTIVE, OR INCOMPATIBLE WASTE**

II.H.1. The Permittee shall comply with the requirements of UAC R315-8-2.8 and the requirements of all applicable National Fire Protection Association (NFPA) and Department of Defense Explosives Safety Board (DDESB) codes and standards.

II.H.2. In addition to the requirements of UAC R315-8-2.8, the Permittee shall comply with the conditions of Modules III, IV, V and VI pertaining to ignitable, reactive, or incompatible waste.

## **II.I. LOCATION STANDARDS**

II.I.1. It has been determined that this facility has met the location standards specified by UAC R315-8-2.9.

## **II.J. PREPAREDNESS AND PREVENTION**

II.J.1. The Permittee shall follow the Preparedness and Prevention Plan in Attachment 6.

II.J.2. Required Equipment. At a minimum, the Permittee shall equip and maintain at the facility and keep in good operating condition the equipment set forth in Attachment 6, as required by UAC R315-8-3.3.

II.J.3. Testing and Maintenance of Equipment. The Permittee shall test and maintain the equipment specified in Condition II.J.2. as necessary to assure its proper operation in time of emergency.

II.J.4. The Permittee shall maintain records of these preventative maintenance and repair

activities specified in Condition II.J.3. and shall keep schedules, reflecting minimum and planned frequency for the performance of preventative maintenance activities in the operating record at the facility in accordance with Condition I.O.

II.J.5. Access to Communications or Alarm System. The Permittee shall maintain access to the communications or alarm system as required by UAC R315-8-3.5.

II.J.6. Required Aisle Space. At a minimum, the Permittee shall maintain a minimum 2.5 feet aisle space in the container and munitions storage areas in accordance with UAC R315-8-3.6.

II.J.7. Arrangements with Local Authorities. The Permittee shall attempt to make arrangements with state and local authorities as required by UAC R315-8-3.7. Any refusals to enter into an agreement shall be documented in the operating record.

## **II.K. CONTINGENCY PLAN**

II.K.1. Implementation of Plan. The Permittee shall immediately carry out the provisions of Attachment 7, and follow the emergency procedures described by 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 Executive Secretary.

II.K.2. Copies of Plan. The Permittee shall comply with the requirements of UAC R315-8-4.4.

II.K.3. Amendments to Plan. The Permittee shall review the Contingency Plan in accordance with UAC R315-8-4.5. The Permittee shall immediately amend, if necessary, the Contingency Plan, as specified by UAC R315-4- 1.5.

II.K.4. Emergency Coordinator. A trained emergency coordinator shall be available at all times in case of an emergency, as required by UAC R315-8-4.6.

## **II.L. MANIFEST SYSTEM**

II.L.1. The manifest number shall be recorded in the operating record with each waste load that leaves the Permittee's facility. UAC R315-5-2 and R315-8-5 apply for

all record keeping associated with the movement of these wastes.

II.L.2. Within ten days of receiving wastes from Deseret Chemical Depot (DCD) the Permittee shall submit copies of these manifests to the Executive Secretary.

**II.M. RECORDKEEPING AND REPORTING**

II.M.1. The permittee shall maintain an accurate written operating record at the facility in accordance with UAC R315-8-5.3 and UAC R315-50-1.

II.M.2. The Permittee shall, by March 1 of each year, submit to the Executive Secretary:

II.M.2.a. a certification pursuant to UAC R315-8-5.3, signed by the owner or operator of the facility or an authorized representative that the Permittee has a waste minimization program in place to reduce the volume and toxicity of hazardous waste that he 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; and

II.M.2.b. a certification that OB and OD treatment is the only practicable method or combination of methods currently available to minimize the present and future threat to human health or the environment and that the Permittee has a program in place to investigate available technologies, other than the OB and OD of energetic wastes, to reduce the volume and toxicity of released treatment residues and discharges. A report with an evaluation of alternatives shall be included with the certification. The report shall present a list and analysis of viable alternatives according to technical feasibility, economic feasibility, impact to employee health and safety and whether the alternatives will reduce releases and discharges to the environment. Alternatives that are not viable shall be identified with the rationale for the rejection.

II.M.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, treated and stored at the Permittee's facility during the previous odd-numbered year.

II.M.4. The Permittee shall submit additional reports to the Executive Secretary in accordance with UAC R315-8-5.8.

II.M.5. All reports, notifications, applications, or other materials required to be submitted

to the Executive Secretary shall be submitted at the address shown in Condition I.DD.

- II.M.6. The Permittee shall maintain a copy of the certifications required in Condition II.M. in the operating record and sign each certification in accordance with UAC R315-5-4.41(a)(8) and UAC R315-3-2.2(d)(1).

**II.N. CLOSURE/POST-CLOSURE**

- II.N.1. Performance Standard. The Permittee shall close the facility in accordance with UAC R315-8-7 and Attachment 8.
- II.N.2. For all HWMUs, minor deviations from the permitted 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 each hazardous waste management unit, the Permittee shall submit the certification statements and narrative report to the Executive Secretary.
- II.N.3. Amendment to Closure/Post-Closure Plan. The Permittee shall amend the closure/post-closure plan in accordance with UAC R315- 4-1.5 whenever necessary, or when required to do so by the Executive Secretary.
- II.N.4. Notification of Closure. The Permittee shall notify the Executive Secretary in writing of the partial closure of any portion of the facility in accordance with UAC R315-8-7. The Permittee shall notify the Executive Secretary at least 180 days prior to the commencement of final facility closure. The closure plan contained in Attachment 8 will be reviewed by the Permittee, and modified if necessary, before commencing partial or final facility closure. If the closure plan requires modification, the plan shall be modified and submitted to the Executive Secretary for approval in accordance with Condition I.D.
- II.N.5. Time Allowed for Closure. After treating the final volume of hazardous waste, the Permittee shall remove from the site all hazardous waste in accordance with the time frames specified in Attachment 8.
- II.N.6. Disposal of Contaminated Equipment, Structures and Soil. The Permittee shall decontaminate or dispose of all facility equipment, structures, soil and rinsate as required by UAC R315-8-7, R315-8-14.5 and Attachment 8. Facility equipment, structures and soil which have not been decontaminated will be disposed of at a

permitted TSDF.

- II.N.7. Certification of Closure. The Permittee shall certify that the facility has been closed in accordance with the specifications in Attachment 8 as required by UAC R315-8-7, and shall provide a certification by an independent, registered professional engineer qualified by experience and education in the appropriate engineering field.
- II.N.8. In the event that any hazardous waste management unit cannot be clean closed by removing hazardous constituents, contaminated subsoil, and any contaminated groundwater as specified in the Closure Plan, Attachment 8, the Permittee shall modify the Closure/Post-Closure Plan for that HWMU in accordance with UAC R315-4-1.5 and Condition I.D. Within 30 days of the date that the Executive Secretary approves the modification, the unit shall be closed as a landfill, in accordance with UAC R315-8-7
- II.N.9. Survey Plat. The Permittee shall submit a survey plat no later than the submission of certification of closure of each hazardous waste storage and treatment unit, in accordance with UAC R315-8-7.

**II.O. FINANCIAL ASSURANCE FOR FACILITY CLOSURE**

- II.O.1. The Permittee, as a Federal facility, is exempt from closure cost estimate requirements in accordance with UAC R315-8-8

**II.P. RECEIPT OF OFF-SITE WASTE PROHIBITED**

- II.P.1. The Permittee shall not receive hazardous wastes that are generated off-depot except for:
- II.P.1.a. Wastes generated by TEAD during investigation or remediation of sites adjacent to TEAD that were contaminated from past TEAD operations,
- II.P.1.b. Army owned waste conventional military munitions that will be treated in the incinerator operated in accordance with Module IV of this Permit,
- II.P.1.c. Army owned waste conventional military munitions that will be recycled and treated in the small caliber disassembly line operated in accordance with Module V of this permit,

- II.P.1.d. Army owned waste conventional military explosives that will be treated at the hydrolysis facility operated in accordance with Module V of this permit,
- II.P.1.d. Waste conventional munitions generated at the Deseret Chemical Depot (DCD),
- II.P.1.e. Conventional military or commercial explosive items identified as hazardous waste and collected during emergency response situations and transported by U.S. Army Explosive Ordnance Disposal (EOD) Personnel. The collection of these wastes is limited to the area of Utah, Wyoming and Idaho and three counties in Nevada, namely, Elko, Eureka and White Pine. The maximum amount of explosive wastes that can be received or received and stored from one EOD emergency response shall be no more than 100 kg (220 pounds), and
- II.P.1.f. Army owned waste conventional munitions that will be treated at the OB/OD area in accordance with Module VI of this Permit.
- II.P.2. F999 and P999 wastes associated with lethal chemical agents shall not be stored or treated at TEAD.

**II.Q TREATMENT OF MUNITIONS CONTAINING DEPLETED URANIUM**

- II.Q.1. Munitions containing depleted uranium in any form shall not be treated at the facility without the express approval of the Executive Secretary.

**II.R. RISK THRESHOLDS**

- II.R.1. Open Burn (OB) and Open Detonation (OD) operations shall be conducted in a manner that minimizes the risk to human health and the environment. The risk thresholds in Module VI for operations at the OB/OD area are based on the risk assessments in Attachments 16 and 17. The human health risk assessment uses potency factors (slope factors or chronic reference doses) for carcinogens and reference doses for non-carcinogens from the U.S. EPA's Integrated Risk Information System (IRIS) and from the U.S. EPA's Health Effects Assessment Summary Tables (HEAST) databases.
- II.R.2. At the request of the Executive Secretary or the Permittee, the completeness and accuracy of the risk assessments in Attachments 16 and 17 shall be evaluated. At a minimum, the evaluation shall include the following information:
  - II.R.2.a. A review of the list of chemicals/munitions constituents to add additional

chemicals and emission factors as a result of updates in the waste characterization databases such as the MIDAS database,

II.R.2.b A review of the toxicity information (reference doses, cancer slope factors), to include any new toxicity data.