ATTACHMENT 4

INSPECTION PLAN
AND SCHEDULES

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1.0 GENERAL INSPECTION REQUIREMENTS

TEAD conducts regular and frequent inspections of the facilities and equipment used to treat, store, handle, or otherwise manage hazardous waste. These include checks for the mechanical condition of the equipment, equipment malfunctions, operator errors, structural deterioration, loss or theft of items, equipment supply, and discharges that could adversely affect the environment. Remedial actions found necessary by inspections are always completed on a time schedule that ensures that any deterioration or malfunction discovered does not lead to an environmental or human health hazard. Where a hazard is imminent or has already occurred, remedial action is taken immediately. Inspection of security and emergency equipment is carried out by security, fire and medical personnel.

The inspection schedule includes items that are considered important in preventing, detecting, or responding to environmental or human health hazards associated with hazardous waste material.

All inspection records will be compiled and kept for 3 years. Inspection records show date and time of inspection, the name of the inspector, notations of observations made, and the date and nature of any repairs or remedial action.

The inspections outlined in this Attachment are the minimum required. All inspections required by this permit will be documented on forms and maintained as part of the operating record. Those forms are not included in this Attachment, but a list of all required inspection items, frequencies, and what is being inspected is included on the Inspection Plan and Schedules (Tables 1-7). Although the format of the inspection forms may change, all items on the Inspection Plan and Schedules will be included on the forms and inspected.

The nature of TEAD activities requires the presence of a security force, a full-time fire department, a medical group, as well as engineering and operations groups responsible for equipment development and operation. Site security is maintained through the use of manned guard stations, patrols, barriers, and electronic monitoring equipment. Security force personnel are responsible for maintaining the communication equipment and the alarm system. Fire department personnel are responsible for dealing with emergency situations such as fires and explosions, and for maintaining emergency equipment, including fire extinguishers and other fire fighting equipment. The fire department is also responsible for conducting safety inspections of all facilities. Industrial Hygiene personnel are responsible for inspection of all facilities and Medical Personnel are responsible for inspection and maintenance of all necessary medical equipment.

Security personnel patrol the TEAD storage, incinerator, and OB/OD Unit perimeters to ensure against intrusion or penetration of the security system. Tests of the radio communications network are made in accordance with Federal Communications Commission (FCC) regulations. A test of the transmitting system is made every 24 hours. In addition, all units on all three shifts respond to the dispatcher every 60 minutes with their call code. A radio log is kept noting these tests. The logs are kept for 5 years in the Security Office function file. Since the emergency communication equipment is in constant use, any defect is immediately reported and repaired.

The fire department at TEAD is a full-time organization. The facility's emergency fire fighting equipment is inspected daily and any defect is promptly remedied. All inspections are noted in

an organizational log. All fire extinguishers in the TEAD area (excluding those in vehicles) are inspected monthly and a log of these inspections is kept. The fire department also inspects all facilities and logs any potential hazard and ensures its removal by the responsible organization.

A medical unit is located in the TEAD area. Personnel within the unit are responsible for ensuring that their emergency equipment is operational. Frequent inspections of the equipment are made and noted in the Medical Unit Log. The medical unit also participates in periodic testing and training exercises monitored by inspectors from outside the TEAD organization.

2.0 DEACTIVATION FURNACE INSPECTION PLAN

The inspection plan and schedule for the deactivation furnace is given below as Table 1. The inspections indicated for a daily and weekly frequency are only for times when the facility is in use. The schedules identify the items requiring inspection and the types of problems to look for.

The emergency waste feed cut off system is described in Attachment 13, Process Control Parameters / Equipment - Specifications, Calibrations, Maintenance, and Cut-Offs. The low limit parameters are verified automatically each time the system is started up. The PLC programming of the system has interlocks so that the system will not run unless all of the low limit parameters are satisfied. During inspections, TEAD furnace operators could demonstrate that the low limit parameters must be met by artificially altering sensor signals and observing that the feed system stops. A weekly test which checks the calibration of the waste feed rate monitoring scale will be implemented. To test the waste feed rate monitor, the operator will call up the test mode on the computer, which allows a two-fold check with known weights to be put onto the scale. One weight that is slightly higher than the specified feed weight for the test will cause the red overload indicator to illuminate, and cause the conveyor to be unable to feed. A second known test weight just under the specified feed weight for the test will cause the green load OK indicator to illuminate.

3.0 CONTAINER STORAGE FACILITIES INSPECTION PLAN

The container storage hazardous waste management units (HWMUs) requiring inspection are building 528 (HW from Industrial Sources), Igloos C-815, C-816 and A-101, Service Magazines 1368 and 1370 and Above Ground Magazine 1205 (explosive reactive HW).

These HWMUs will be inspected on a weekly basis and the inspections will be documented on logsheets specific to each facility. The inspection plan and schedules for the container storage HWMUs are given below as Tables 2and 3.

Hazardous waste transfer areas (loading and unloading) are inspected whenever containers are received or removed from storage. The inspection plan and schedule is given below on Table 4.

Note: Fences and gates are not included in the inspections of Igloos A-101, C-815, C-816, Service Magazines 1368 and 1370 and Above Ground Magazine 1205, because these HWMUs are located in the Ammunition Storage and Maintenance Area. Security for this area is provided by a perimeter fence and armed security guards. Leaks and drains are not included in the inspection of Igloos A-101, C-815, C-816 and Service Magazines 1368 and 1370 and Above Ground Magazine 1205, because these HWMUs are used to store HW which **do not** contain free

liquids.

4.0 SMALL CALIBER DISASSEMBLY LINE INSPECTION PLAN

The inspection plan and schedule for the Small Caliber Disassembly Line is enclosed as Table 5. The inspections indicated for a daily and weekly frequency are only for times when the facility is in use. The schedules identify the items requiring inspection and the types of problems to look for.

5.0 OB/OD INSPECTION PLAN

The operation of the OB/OD Unit is in accordance with the Tooele Standard Operating Procedures (SOPs). Inspections are conducted for equipment malfunctions, UXO, metal fragments, and other discharges that could threaten human health or the environment. The TEAD is allowed to store waste munitions in pits, pans and silos under certain conditions. When waste munitions are being stored the TEAD will conduct weekly inspections. The purpose of the inspections is to detect potential problems and correct them before they affect human health or the environment. Records of inspections and the inspection schedule are maintained in files at the TEAD. All inspection logs are kept on file for at least 3 years.

The Demil Team is responsible for inspecting necessary equipment for operational readiness prior to the beginning of detonation and/or burning. If any vital equipment in the area is inoperative, has deteriorated, or is not in compliance with regulatory requirements, maintenance/replacement is initiated before operations commence, as necessary. Table 6 presents a schedule for inspecting safety and emergency equipment, security devices, operating equipment, and the OB/OD Unit. This record will be maintained at TEAD each day the facility is operated.

At the conclusion of all detonations for the day, the area immediately surrounding the pit formed by the explosion is inspected for any possible kick-outs. If not completely destroyed, items are placed in the pit and detonated or, if unstable, detonated in place. The pits are inspected for the presence of water before OD operations. If there is water in a pit, that pit is not used.

Inspections for leaks, spills, and fugitive emissions are not applicable to the type of OB/OD operations performed at TEAD.

6.0 HYDROLYSIS FACILITY INSPECTION PLAN

The inspection plan and schedule for the Hydrolysis Facility is enclosed as Table 7. The inspections indicated for a daily and weekly frequency are only for times when the facility is in use. The schedules identify the items requiring inspection and the types of problems to look for.

7.0 DECINERATON™ SYSTEM INSPECTION PLAN

The inspection plan and schedule for the rotary furnace is given below as Table 8. The inspections indicated for the daily and weekly frequency are only for times when the facility is in use. The schedules identify the items requiring inspection and the types of problems to look for.

The emergency waste feed cut off system is described in Attachment 29, Decineration™ Process Control Equipment. The low limit parameters are verified automatically each time the system is started up. The PLC programming of the system has interlocks so that the system will not run unless all of the low limit parameters are satisfied. During inspections, TEAD furnace operators could demonstrate that the low limit parameters must be met by artificially altering sensor signals and observing that the feed system stops. A weekly test which checks the calibration of the waste feed rate monitoring scale will be implemented. To test the waste feed rate monitor, the operator will call up the test mode on the computer, which allows a two-fold check with known weights to be put onto the scale. One weight that is slightly higher than the specified feed weight for the test will cause the red overload indicator to illuminate, and cause the conveyor to be unable to feed. A second known test weight just under the specified feed weight for the test will cause the green load OK indicator to illuminate.

8. Records

The records of inspection will be transferred to the Environmental Management Division and maintained for a minimum of three years.

TABLE 1. INSPECTION PLAN AND SCHEDULE FOR DEACTIVATION FURNACE

	Item R315-8-2.6(b)(1)	Frequency* R315-8-2.6(b)(4)	Types of Problems R315-8-2.6(b)(3)
Facility	Feed Housing	Daily	Inspect and clean out, if necessary. Collect and feed any live items through the furnace. Collect and containerize any ash or residues.
	Burner Area, Fuel Reservoir	Daily	Check for sufficient fuel level, look for damage, leaks, etc. in burner area and fuel lines.
	Retort/Conveyor Interface Area	Daily	Check for residue build up.
	Discharge Conveyor	Daily	Check for mechanical damage, remove melted/solidified metal.
	Scrap Metal Collection Drum	Daily	Insure that sufficient collection volume exists in drum.
	Feed Room Floor	Daily	Collect floor sweepings in waste drum. Check feed conveyor for damage.
	Catch Pans	Daily	Check that empty catch pans are in position under the retort junctions to receive ash that may sift through during operations.
	Afterburner	Daily	Check the afterburner, burner area, and ductwork for damage and leaks.
	Ductwork	Daily	Check the ductwork cleanouts, and double tipping valves for damage. Check for adequate capacity and proper labeling in collection drum.
	Gas Monitoring Equipment	Daily	Ensure equipment is in good condition.
	Cyclone Separator	Daily	Check ducting for leaks, corrosion, etc. Ensure that clean out gate is closed. Check for adequate capacity, and proper labeling of collection drum.
	Baghouse	Daily	Check proper function of double tipping valve. Check for adequate capacity, and proper labeling of collection drum.
	Draft Fan and Stack	Daily	Inspect the fan unit for damage, ductwork and fittings, joints, fan belt, etc. Inspect fan base for damage, inspect stack and duct connections

			for leaks or damage.
	Dampers	Daily	Visually inspect for damage and correct position (open or closed).
	Compressor	Daily	Check compressor and air lines for air tightness, check for rated 90 - 100 psi pressure in tank.
	Control Panels	Daily	Ensure all main enclosure indicator lights are functional.
	Load/Unloading Areas	Daily	Check for spills, collect for floor sweepings into waste drum.
	On Screen Monitoring Equipment	Daily	Verify that the on-screen monitoring equipment for the following items is operational before feeding waste into the furnace: furnace feed end temperature, furnace exhaust draft pressure, baghouse differential pressure, afterburner exit temperature, retort speed, pre-baghouse temperature, post baghouse temperature.
	Waste Feed Rate Monitoring System	Daily	Check that the WFRMS is not activated until all normal operating conditions are reached.
	Fugitive Emissions	Daily	Check for visible smoke coming from the retort, feed chute, or any other area of the furnace system.
	Baghouse Pressure Drop	Daily	Verify that the delta P range is above 3.5" wc during operation. Manually inspect the baghouse interior if delta P is outside of parameter.
	Tampering of Control System	Daily	Check for evidence of tampering (electrical jumpers, disconnections, etc.) of any of the feed system and feed controls.
	Proper Program Setting	Daily	Verify correct program setting.
	Waste Feed Cut Off Test	Weekly	Perform weekly test of the waste feed cut off system, and associated alarms. Test is described in Attachment 13 of the Permit.
	Calibration of WFRMS Scale	Weekly	Perform weekly calibration of the WFRNS scale, as described in paragraph 2.0 above.
General	Operating Record	As required by Module II.M	Verify that the entries in the operating record are complete and up to date. Entries include; description (common name, NSN, EPA codes, physical form, item number), process that produced the waste (characteristic wastes), quantity treated, feed rates, time and date. Verify that waste characterization data are present along with details of any incident, which requires implementation of the contingency

			plan. Records of repairs, emergency waste feed cut off system test results.
Emergency Equipment	Contingency Plan	Weekly	Insure that the Contingency Plan is present at the facility.
	Fire Extinguisher	Weekly	Verify that the fire extinguisher is present and the pressure gauge shows the extinguisher to be operational.
	Communication Equipment	Weekly	Verify communication equipment is present at the facility and functional.
	Eye Wash	Weekly	Check eyewash for proper functioning.

*= When in use

TABLE 2. INSPECTION PLAN AND SCHEDULE FOR BUILDING 528

	Item 264.15(b)(1)	Frequency* 264.15(b)(4)	Types of Problems 264.15(b)(3)
Facility	Doors	Weekly	Verify that the entrances to the building are closed when building is not in use, check all entrances both front and back.
	Security Fence	Weekly	Verify that fence is not damaged, look for bent or torn chain links, bent fence posts, and loose barbwire.
	Fence Gate	Weekly	Verify lock and chain are present.
	Warning Signs	Weekly	Verify that warning signs are readable from a distance of 25 feet and are able to be noticed from any direction the facility may be approached (i.e. each side of the fence which faces away from the building must have warning signs).
	Leaks	Weekly	Verify that no releases to the environment have occurred by inspecting the interior four corners of the secondary containment base (i.e. the four corners of the interior of building 528) looking for liquid accumulation and/or discoloration of the base coating.
	Base Integrity	Weekly	Verify the integrity of the secondary containment base by inspecting for cracks in the concrete base or berm, or exposed concrete (indicating the failure of the concrete sealant).
	Odors	Weekly	Verify the absence of odors. If odors are present, it is an indication of a possible spill, open container, leaking container, etc.
Containers	Operating Record	As required by Module II.M	Verify that all entries in the operating record are complete and up to date. Entries include; a description (common name, EPA hazardous waste numbers, physical form, and for characteristic wastes, the process that produced the waste) and quantity (weight, or volume and density) of each hazardous waste received and the methods (EPA handling codes) and dates of its treatment, storage, or disposal at the facility. Verify the location of the waste within the facility and the quantity at each location. Verify the records and results of waste analysis are present along with any summary reports and details of any incidents which required implementation of the contingency plan are present.
	Container Labels	Weekly	Verify that all containers are properly labeled.
	Proper Storage Location	Weekly	Verify that wastes received at the facility since the last inspection are stored in a compatible manner.

	Containers	Weekly	Verify all containers in storage are suitable for transport (i.e. no severe defects) and not leaking. In addition, insure the containers are stored in the proper configuration, which is; aisle space 2.5 feet (minimum), 6 rows per bay, 7 pallets per row, barrels are stacked no more than 2 high, and total container volume per pallet does not exceed 170 gallons.
Spill Equip.	Contingency Plan	Weekly	Insure that the Contingency Plan is present at the facility.
	Fire Extinguisher	Weekly	Verify that the fire extinguishers are present and the pressure gauge shows the extinguisher to be operational.
	Communication Equipment	Weekly	Verify that the telephone is present at the facility and functional.
	Eye Wash	Weekly	Verify eye wash is functional
	Absorbent Material	Weekly	Verify absorbent material is present and in usable condition.
	Eye Shields	Weekly	Verify that face shields and safety glasses are present and in usable condition.
	Protective Gloves	Weekly	Verify protective gloves are present and are usable (i.e. without holes or cracks).
	Coveralls	Weekly	Verify that Tyvek suits are available at the facility and in usable condition.
Other	Material Handling Equipment	Weekly	Verify that material handling equipment performs properly by insuring that; 1) brakes function and work predictably, and 2) hydraulic lift functions properly and in a predictable manner.

*= When in use

TABLE 3. INSPECTION PLAN AND SCHEDULE FOR IGLOOS A101, C-815, and C816, & SERVICE MAGAZINES 1368 and 1370 and ABOVE GROUND MAGAZINE 1205

	Item 264.15(b)(1)	Frequency* 264.15(b)(4)	Types of Problems 264.15(b)(3)
Facility	Doors	Weekly	Verify the entrances to the igloos and service magazines are locked when facility is not in use.
	Warning Signs	Weekly	Verify that warning signs are readable from a distance of 25 feet. The igloos and service magazines have only one door each through which to access, therefore the sign must be visible when the facility is approached from the entrance.
	Spills	Weekly	Verify that no spills have occurred by looking for loose debris on container surfaces, pallets, and floor.
	Base Integrity	Weekly	Verify the integrity of the base by inspecting for cracks in the concrete.
Containers	Operating Record	As required by Module II.M And Module III	Verify that all entries in the operating record are complete and up to date. Entries include; a description (common name, EPA hazardous waste numbers, physical form, and for characteristic wastes, the process that produced the waste) and quantity (weight, or volume and density) of each hazardous waste received and the methods (EPA handling codes) and dates of its treatment, storage, or disposal at the facility. Verify the location of the waste within the facility and the quantity at each location. Verify the records and results of waste analysis are present along with any summary reports and details of any incidents which required implementation of the contingency plan are present.
	Container Labels	Weekly	Verify that all containers are properly labeled.
	Proper Storage Configuration	Weekly	Verify that containers in the proper configuration see Attachment 9 of the permit for storage configurations specific to each facility.
	Containers	Weekly	Verify all containers in storage are free from severe defects and are not leaking.
Spill Equip.	Contingency Plan	Weekly	Insure that the Contingency Plan is present at the facility.

Fire Extinguisher	Weekly	Verify that the fire extinguisher is present and the pressure gauge shows the extinguisher to be operational.
Communication Equipment	Weekly	Verify that communication equipment, hand-held radio or phone, is present and functional.

*= When in use

TABLE 4. INSPECTION PLAN AND SCHEDULE FOR HAZARDOUS WASTE LOADING/UNLOADING AREAS

Item	Frequency*	Types of Problems
Loading Dock/Ramp	Whenever in use	Inspect the loading ramps or concrete aprons for signs of damage which might cause instability, or difficulty with operation of material handling equipment. Look for scaling or chipping of surface, debris, or other objects on the concrete ramp/apron that the equipment operator would have to avoid.
Leaks/Spills	Whenever in use	Inspect for evidence of spills by looking fro residue on pallets, and truck cargo beds. Look for soil discoloration in and around the concrete ramp/apron, and in the vicinity of the material handling equipment (i.e. trucks and forklifts).
Container Transferred	Whenever in use	Inspect the containers that are to be transferred to ensure they are in good condition. Look for corrosion, bulging, loose lids, dents or creases that could significantly affect container integrity. Insure pallets are not crushed or broken to the point of causing difficulty for the forklift operator. Look for loose or broken banding. Insure the containers are transferred to the proper location in storage (i.e. compatible storage configuration). Insure containers are properly labeled. Insure the transferred containers are added or subtracted from the operating record. Insure the waste analysis plan includes the type of waste being transferred (if the transfer is a receipt). Insure the Hazardous Waste Manifest (if the transfer involves an off-site transfer of containers) is filled out properly and no applicable entries are blank. Insure verification of waste received from off-site is done according to the waste analysis plan.

Table 5. INSPECTION PLAN AMD SCHEDULE FOR SMALL CALIBER DISASSEMBLY LINE

	Item	Frequency*	Types of Problems
Facility	Process Room Floor	Daily	Collect floor sweepings in waste drum.
	Conveyor System	Daily	Check for mechanical damage.
	Delinker	Daily	Check for mechanical damage, unit is clean.
	Cart. Dear down mach	Daily	Check for mechanical damage, unit is clean.
	Propellant Dump Cube	Daily	Check for propellant residue.
	Deprime machine	Daily	Clean, check seals for leaks.
	Uni-wash dust cltr	Daily	Check water level.
	Mac Env Cyclone	Daily	Check for leaks. Check for adequate capacity, and proper labeling of drum.
	Baghouse	Daily	Check proper function of waste chute. Check for adequate capacity, and proper labeling of collection drum.
	Draft Fan and Stack	Daily	Inspect the fan unit for damage, ductwork and fittings, joints, fan belt, etc. Inspect fan base for damage, inspect stack and duct connections for leaks or damage.
	Control Panels	Daily	Ensure all indicator lights are functional.
	Load/Unloading Areas	Daily	Check for spills, collect floor sweepings into waste drum.
General	Operating Record	As required	Verify that the entries in the operating record are complete and up to date. Entries include; description (common name, NSN, EPA codes, physical form, item number), process that produced the waste (characteristic wastes), quantity treated, feed rates, time and date. Verify that waste characterization data are present along with details of any incident which requires implementation of the contingency plan. Records of repairs, emergency waste feed cutoff system test results.
Emergency Equipment	Contingency Plan	Weekly	Insure that the Contingency Plan is present at the facility and functional.
	Fire Extinguisher	Weekly	Verify that the fire extinguisher is present and the pressure gauge shows the extinguisher to be operational. Verify the expiration date on the extinguisher charge has not passed.

Com Equipment	Weekly functional.	Verify communication equipment is present at the facility and
Eye Wash	Weekly	Check eye wash for proper functioning, unit and water are clean
Absorbent Material	Weekly	Verify that absorbent material is present in adequate amounts in the spill kit.
Protective Gloves	Weekly	Check that protective gloves are present and useable (no holes or cracks).
Safety glasses or goggles	Weekly	Verify that safety glasses or goggles are present and in useable condition
Tyvek Suits	Weekly	Check that Tyvek Suits are available and in useable condition.

* = When in use

Table 6. INSPECTION PLAN AND SCHEDULE FOR OB/OD AREA

Item	Frequency*	Types of Problems
Loading/Unloading Area	Daily	Inspect for discolored soil, propellant, and explosive residue.
Entrance Gate	Weekly	Verify that lock and chain are present and operational.
Warning Signs	Weekly	Verify that warning signs are readable from a distance of 25 feet and noticeable from any direction from which the facility may be approached (i.e., each side of the fence that faces away from the building must have warning signs).
Burn Pans	Daily	Verify that the burn pans are in good condition and capable of containing the propellant that will be poured into them. Look for holes in the bottom or failed welds at the corners. Ensure that there is no residue or moisture in the burn pan.
Burn Pan Lids	Daily	Verify that the lids to the burn pans are capable of preventing precipitation from contacting the interior surface of the pan. Ensure that all lids are in place if pans are not in use, and that there is a lid for each pan.
Silos and Caps	Daily	Verify that silos are in safe operating condition and that caps are in place when the silos are not in use. Ensure that there is no residue/spent motor casings in the silo.
Detonation Pits	Daily	Ensure that all ordnance has been properly detonated.
Meteorological Daily Conditions		Ensure that the meteorological conditions comply with those specified in the permit and Army Regulations and SOPs.
Waste Analysis Plan	As required	Verify that the waste analysis for the munitions/propellant to be demilled are included in the OB/OD operating record.

Transfer Documents	Daily	Verify that the transfer documents are filled out properly and the material received is the same as that specified on the document (NSN and quantity).
Road Barriers/Gate	Daily	Verify that the road barrier/gate is secure when operations are in progress.
Contingency Plan Equipment	Weekly	Ensure that the Contingency Plan is present at the facility.
Fire Extinguishers	Weekly	Verify that the fire extinguisher is present and the pressure gauge shows the extinguisher to be operational. Verify that the expiration date on the extinguisher charge has not passed.
Communication Equipment	Weekly	Verify that communication equipment is present at the facility.
Personal Protective Equipment	Weekly	Verify that each worker has powder coveralls , safety shoes, hard hat, gloves and safety glasses.
Material Handling Equipment	Weekly	Verify that material handling equipment performs properly by ensuring that (1) brakes function and work predictably, and (2) hydraulic lift functions properly and in a predictable manner.
Vehicle Horn	Daily	Verify that a vehicle horn is functional.
Burn Pans and Lids	Weekly**	Verify that the burn pans are in good condition and properly containing the propellant. Ensure that the lids are in place on the burn pans.
Silos and Caps	Weekly**	Verify that silos are in safe operating condition and that the caps are in place on the silos.
Detonation Pits	Weekly/After Storms**	Ensure that the pits have not been disturbed.

*=When in use (Operations generally occur between March and November).
**=When munition items are being stored in place. Visual inspections will be conducted from a safe distance.

Table 7. INSPECTION PLAN AND SCHEDULE FOR THE HYDROLYSIS FACILITY

	Item 264.15(b)(1)	Frequency* 264.15(b)(4)	Types of Problems 264.15(b)(3)
Facility	NaOH Storage Tank	Daily	Corrosion, leaks, liquid level, heater
	NaOH Transfer Pump	Daily	Leaks, wear, mounting integrity
	Line from NaOH Tank	Daily	Corrosion, leaks, cracks, insulation damage, loose supports
	Basket Carriage System	Daily	Corrosion, excessive wear on drive train and parts
	Vent Line	Daily	Corrosion, leaks, cracks, loose supports
	Rinse Tank	Daily	Corrosion, leaks, liquid level
	Rinse Tank Pump	Daily	Leaks, wear, mounting integrity, suction screen, discharge pressure
	Hydrolysis Tank	Daily	Corrosion, leaks, liquid level
	Push Blower	Daily	Cracks in housing, blade wear, mounting
	Basket Cart	Daily	Structural integrity, signs of corrosion, air motor and oil, grease gears
	Scale	Daily	Functionality, accuracy, excess debris buildup
	Conveyor Motor	Daily	Cracked housing, mounting, roller wear
	Spent Hydrolysate Line	Daily	Corrosion, leaks, cracks, insulation damage, loose supports, fittings, flanges
	Hydrolysis Recirc Line	Daily	Corrosion, leaks, cracks, insulation damage, loose supports, fittings, flanges
	Hydrolysis Recir Pump	Daily	Leaks, wear, mounting suction strainer, discharge pressure
	Hydrolosate Heating System	Daily	Corrosion, leaks, line fittings, cracks, loose supports, steam pressure
	Hydrolysis Tank Secondary Containment System	Daily	Accumulated material, corrosion, damage, leaks
	Rinse Tank Secondary Containment System	Daily	Accumulated material, corrosion, damage, leaks
	Process Room Floor	Daily	Cracks, spills
	Gas Analysis System (Lines, Chiller, Fan)	Daily	Leaks, cracks, corrosion, mounting, supports, gas pressure, flow rate
	Vent Fan	Daily	Inspect the fan unit for damage, ductwork and fittings, joints, fan belt, caustic buildup.

	Scrubber	Daily	Inspect the scrubber unit for damage, ductwork and fittings, plugged spray nozzles, excessive material buildup on packing, and mist eliminator pads.
	Scrubber Sump Tank	Daily	Inspect the sump tank for damage, plugged strainer, excessive material buildup inside tank.
	Control Panels	Daily	Ensure all indicator lights are functional.
	Load/Unloading Areas	Daily	Check for spills
General	Operating Record	As required by Module II.M	Verify that the entries in the operating record are complete and up to date. Entries include; description (common name, NSN, EPA codes, physical form, item number), process that produced the waste (characteristic wastes), quantity treated, feed rates, time and date. Verify that waste characterization data are present along with details of any incident which requires implementation of the contingency plan. Records of repairs, emergency waste feed cutoff system test results.
	Contingency Plan	Weekly	Insure that the Contingency Plan is present at the facility and functional.
Emergency Equipment			
	Fire Extinguishers	Weekly	Verify that the fire extinguishers are present and the pressure gauge shows the extinguisher to be operational. Verify the expiration date on the extinguisher charge has not passed.
	Com Equipment	Weekly	Verify telephone is present at the facility and functional.
	Eye Wash	Weekly	Check for proper functioning, unit and water are clean
	Emergency Shower	Weekly	Check for proper function.
	Absorbent Material	Weekly	Verify that absorbent material is present in adequate amounts in the spill kit.
	Personnel Protective Equipment	Weekly	Check that equipment is present and useable

* = When in use

TABLE 8. INSPECTION PLAN AND SCHEDULE FOR 24D174 ROTARY FURNACE

	Item R315-8-2.6(b)(1)	Frequency* R315-8-2.6(b)(4)	Types of Problems R315-8-2.6(b)(3)
Facility	Feed Housing	Daily	Inspect and clean out, if necessary. Collect and feed any live items through the furnace. Collect and containerize any ash or residues.
	Rotary tube / Conveyor Interface Area	Daily	Check for residue build up.
	Discharge Conveyor	Daily	Check for mechanical damage, remove trapped metal.
	Scrap Metal Collection Drum	Daily	Insure that sufficient collection volume exists in drum.
	Feed Room Floor	Daily	Collect floor sweepings in waste drum. Check feed conveyor for damage.
	Afterburner	Daily	Check the afterburner, burner area, and ductwork for damage and leaks.
	Ductwork	Daily	Check the ductwork cleanouts, and double tipping valves for damage. Check for adequate capacity and proper labeling in collection drum.
	Gas Monitoring Equipment	Daily	Ensure equipment is in good condition.
	Cyclone Separator	Daily	Check ducting for leaks, corrosion, etc. Ensure that clean out gate is closed. Check for adequate capacity, and proper labeling of collection drum.
	Baghouse	Daily	Check proper function of double tipping valve. Check for adequate capacity, and proper labeling of collection drum.
	Draft Fan and Stack	Daily	Inspect the fan unit for damage, ductwork and fittings, joints, fan belt, etc. Inspect fan base for damage, inspect stack and duct connections for leaks or damage.
	Dampers	Daily	Visually inspect for damage and correct position (open or closed).
	Compressor	Daily	Check compressor and air lines for air tightness, check for rated 90 - 100 psi pressure in tank.

	Control Panels	Daily	Ensure all indicator lights are functional.
	Load/Unloading Areas	Daily	Check for spills, collect floor sweepings into waste drum.
	On Screen Monitoring Equipment	Daily	Verify that the on-screen monitoring equipment for the following items is operational before feeding waste into the furnace: furnace feed end temperature, furnace exhaust draft pressure, baghouse differential pressure, afterburner exit temperature, retort speed, pre-baghouse temperature, post baghouse temperature.
	Munitions Rate Monitoring System	Daily	Check that the WFRMS is not activated until all normal operating conditions are reached.
	Fugitive Emissions	Daily	Check for visible smoke coming from the retort, feed chute, or any other area of the furnace system.
	Baghouse Pressure Drop	Daily	Verify that the delta P range is above 3.5" wc during operation. Manually inspect the baghouse interior if delta P is outside of parameter.
	Tampering of Control System	Daily	Check for evidence of tampering (electrical jumpers, disconnections, etc.) of any of the feed system and feed controls.
	Proper Program Setting	Daily	Verify correct program setting.
	Muntions Feed Cut Off Test	Weekly	Perform weekly test of the waste feed cut off system, and associated alarms. Test is described in Attachment 29 of the Permit.
	Calibration of WFRMS Scale	Weekly	Perform weekly calibration of the WFRMS scale, as described in paragraph 2.0 above.
General	Operating Record	As required by Module II.M	Verify that the entries in the operating record are complete and up to date. Entries include; description (common name, NSN, EPA codes, physical form, item number), process that produced the waste (characteristic wastes), quantity treated, feed rates, time and date. Verify that waste characterization data are present, along with details of any incident which requires implementation of the contingency plan. Records of repairs, emergency waste feed cut off system test results.
Emergency Equipment	Contingency Plan	Weekly	Insure that the Contingency Plan is present at the facility.

Fire Extinguisher	Daily	Verify that the fire extinguisher is present and the pressure gauge shows the extinguisher to be operational.
Communication Equipment	Weekly	Verify communication equipment is present at the facility and functional.
Eye Wash	Weekly	Check eyewash for proper functioning.
Electric Power System	Daily	Check circuit breaker functionality and integrity.

*= When in use