

ATTACHMENT 2 SECURITY, INSPECTIONS, and MAINTENANCE PLANS consisting of:

- Security Procedures and Equipment, Section B of the Post-Closure Permit Application for the Volume 21 Waste Calcine Facility, as last revised September 2002.
- Preparedness and Prevention Waiver, Section C of the Post-Closure Permit Application for the Volume 21 Waste Calcine Facility, as last revised September 2002.
- General and Specific Inspection Schedule, Section D of the Post-Closure Permit Application for the Volume 21 Waste Calcine Facility, as last revised September 2002.
- Maintenance Activities, Section E of the Post-Closure Permit Application for the Volume 21 Waste Calcine Facility, as last revised September 2002.
- Inspection Forms, Appendix II of the Post-Closure Permit Application for the Volume 21 Waste Calcine Facility, as last revised September 2002.
- Sampling and Analysis Plan Tables, Appendix IX of the Post-Closure Permit Application for the Volume 21 Waste Calcine Facility, as last revised September 2002.

- Security Procedures and Equipment, Section B of the Post-Closure Permit Application for the Volume 21 Waste Calcine Facility, as last revised September 2002.

B. SECURITY PROCEDURES AND EQUIPMENT IDAPA 58.01.05.012 and 008 [40 CFR §§ 270.14(b)(4) and 264.14]

The first level of security within the INEEL's three-level system is maintained with two types of signs. The first type reads "No Trespassing - By Order of the United States Department of Energy." Signs with this inscription are located along the entire INEEL property boundary and along the five public highways that pass through INEEL property. Areas along the boundary of the INEEL are open to grazing by livestock. Limits of these grazing areas, which lie inside the property boundary, are denoted by the second type of sign; this sign has the same message as the first, with the addition of "No Grazing Beyond this Point." Examples of these signs are provided in the *Volume 3 HWMA/RCRA Part B Permit Application* (DOE-ID 2001a). Both types of signs are legible from a distance of 25 ft (7.6 m) and are spaced at regular intervals of 530 feet (161.5 m). There are instances where signs are spaced closer together in areas where the line of sight is obstructed; in such cases, the warning signs are placed where they are most visible.

The second level of security at the INEEL consists of access control located at the entry and egress points to and from the various INEEL complexes. The INEEL Safeguards and Security program is responsible for this level of security and the program's operations are consistent with DOE-ID directives and orders on access control. The INEEL operates a security clearance program to ensure that employees who are required to have a clearance to perform their duties are evaluated and cleared consistently with DOE-ID security policies. The security police officers (SPOs) monitor entry and egress from the INEEL's complexes, including the INTEC facility. There are also surveillance cameras, motion detectors, and lighting throughout the INTEC. The SPOs also perform other security functions within the premises, including patrolling the perimeter fence and areas throughout the INTEC, on a 24-hour basis.

As part of the second level of security, the entire INTEC is enclosed within a double chain-link fence that is topped with barbed wire. The interior fence is 8 ft tall (2.4 m) and the exterior fence (to prohibit animal entry) is 5 ft (1.5 m) tall. The distance between the two fences is approximately 200 ft (61 m) unless building and terrain limitations exist. The fence has three staffed and two locked gates. Two staffed gates are located on the west side of the INTEC. These gates are staffed by guards and equipped with cameras; one of these gates is the main entrance to the INTEC. There is also a staffed gate on the east side, which is primarily used by construction personnel. The number of staffed gates may vary, as temporary gates may be established for construction or other short-term activities at the INTEC.

The third level of INEEL security is specific to each INEEL complex and its component buildings. For example, to enter the INTEC, all employees must have an INEEL-provided photo badge (L, Q, or building access only [BAO – uncleared]) and enter through the INTEC main entrance. Employees swipe their badge through a device (badge reader) that processes the magnetic code on the badge, evaluates the training and access level coded, and, if correct, allows the employee to pass the specific control point (turnstile). Then, their badge is inspected and approved by an SPO who allows them to proceed into the complex. BAO-badged vendors, visitors, delivery personnel, and tour groups require an escort into the INTEC and also must sign a visitor entry log. Component buildings either require use of a badge reader, escort, physical control procedures, and/or equipment control access, any of which are clearly placarded at the access points and understood by employees and escorts.

When personnel leave the INTEC, they exit through the turnstiles, or sign out on the entry log sheet at the guard gate. Entry procedures into the INTEC prevent access by the general public into any Treatment Storage and Disposal Facility.

- Preparedness and Prevention Waiver, Section C of the Post-Closure Permit Application for the Volume 21 Waste Calcine Facility, as last revised September 2002.

C. Preparedness and Prevention
IDAPA 58.01.05.008 [40 CFR § 264 Subpart C]

A waiver from these requirements, Preparedness and Prevention, is requested based on the following:

- The WCF that was closed as a landfill is a concrete monolith
- The WCF landfill is unoccupied and there is no movement of waste into or out of the unit
- There is no safety equipment, alarms, communication devices, or fire fighting equipment associated with the WCF landfill
- The WCF landfill has no need for adequate aisle space.

None of the requirements described in 40 CFR 264 Subpart C apply to the WCF landfill monolith.

In addition, as described in Section B, Security Procedures and Equipment, access to the WCF monolith is controlled through physical barriers. These barriers prevent unauthorized personnel from contact with the WCF monolith.

- General and Specific Inspection Schedule, Section D of the Post-Closure Permit Application for the Volume 21 Waste Calcine Facility, as last revised September 2002.

D. GENERAL AND SPECIFIC INSPECTION SCHEDULE IDAPA 58.01.09.012 and 008 [40 CFR 270.14(b)(5) AND 264.15(b)(1)]

The WCF landfill cap, storm water drainage system, security system, and groundwater monitoring system will be inspected for malfunctions, deterioration, and discharges that may cause, or may lead to, releases of hazardous waste constituents to the environment or a threat to human health. No safety or emergency equipment is associated with the closed WCF facility. Areas subject to inspection under this permit application include:

- WCF landfill cap
- INTEC facility security system
- Storm water drainage system
- Groundwater monitoring system.

D.1 The Integrity of the WCF Landfill Cap

The integrity of the WCF landfill cap is inspected on a semi-annual basis. The inspections are documented on the RCRA WCF Post-Closure Monitoring form (see Appendix II). The form is used to document the inspection and the findings of the following:

- Concrete cap (for cap surface erosion, cracks, spalling, subsidence, joint seal condition)
- Surface drainage (for runoff drainage maintained away from the cap)
- Brass benchmarks [integrity of brass survey caps (See Appendix V, drawing 510143 for location of the brass benchmarks)]

The inspection frequency may be modified based on information obtained from the monitoring.

D.2 Security System for the INTEC Facility

Security items at the INTEC requiring inspection include:

- Signs and fences for integrity
- Gates and locks for integrity and operability
- Doors and windows for integrity and breaching
- Badge readers for integrity and operability
- Surveillance cameras, motion detectors, and lighting for integrity and functionality.

The frequency of inspection for security equipment varies and is based on the manufacturer's maintenance recommendations and equipment history. The inspection of security equipment is

developed by Security Systems Maintenance and is specified by the specific building and/or device being inspected.

D.3 Storm Water Drainage System

The storm water drainage system at the INTEC is designed to DOE Order 6430.1A, “General Design Criteria,” specifications and is constructed to handle a 25-yr, 24-hr storm event. The storm water drainage system (including culverts, collection basins, and drainage ditches) is inspected on an annual basis to assure that the system prevents flooding of structures such as buildings, roads, and the WCF landfill cap. The inspection findings are documented on the “Inspection Form for Facilities, Storm Water Pollution Prevention Plan for Industrial Activities” (see Appendix II). The form is used to document the inspection and the findings of the following:

- General housekeeping
- Maintenance
- Spills
- Soil stabilization
- Non-storm water discharge
- Storm water management.

Repairs are made in accordance with inspection findings.

D.4 Groundwater Monitoring System

The need to inspect the condition of monitoring wells has developed as a result of past data collection efforts, site construction work, and natural deterioration. Examples of possible problems at monitoring wells could include:

- Well identification
- Inoperable locks
- Cracked surface casing
- Damaged cement pads
- Compromised impingement protection
- Well head description.

The frequency and location of well maintenance activities are subject to changing well conditions. As a general rule, the overall condition of each well will be visually inspected at each visit to the well. At a minimum, the wells will be inspected quarterly during the first two years of the groundwater monitoring program, and then a permit modification request (PMR) may be submitted to the DEQ requesting semi-annual inspections. As current wells age and future wells are drilled,

various problems related to the physical integrity of the well may arise that need to be addressed. Some of these problems include borehole cleanout from formation slough, pump work (trip-in, trip-out, troubleshoot, and repair), pump corrosion, and e-line retrieval repairs are made in accordance to inspection findings.

- Maintenance Activities, Section E of the Post-Closure Permit Application for the Volume 21 Waste Calcine Facility, as last revised September 2002.

E. Maintenance Activities

IDAPA 58.01.05.008 [264.118(B)(2)] and IDAPA 58.01.05.009 [265.118(B)(2)]

E.1 Maintenance of Landfill Cap and Final Cover

If, during the semi-annual cap inspections, deficiencies are noted, the following will be performed to maintain the integrity of the containment system:

- Replace soil lost to erosion
- Maintain drainage channels and culverts that direct surface run-on and runoff away from the disposal area and prevent surface water from infiltrating the cover
- Control rodents as necessary to counter infestations (e.g., filling of rodent burrows and applying insecticide)
- Remove and replace cracked areas with grout or an appropriate concrete patch material, if cracks in the concrete greater than ½ inch (in width) are discovered.

E.2 Maintenance of the Storm Water System

Grading has been performed on the unpaved areas adjacent to the cap to divert water away from the WCF cap. All of the area on the east side of the cap slopes away from the cap. The cap apron on the east side is divided into two parts: a northern third that slopes northeast and that is separated by a short vertical wall from a higher southern two-thirds that slopes to the south. A small pile of riprap rock has been placed just off the south end of the apron gutter to reduce the potential for erosion as water leaves the concrete cap. The area on the south side of the cap is also unpaved and slopes away from the cap toward the paved areas further southwest.

Ground on the north and west sides of the cap are paved. The west side is paved right up to the cap apron and slopes away from the cap toward the northwest. The north end of the cap and around its northwest corner is paved. The paved area slopes away from the cap apron to the storm water system.

Maintenance for the storm water system includes maintaining the drainage system and cleaning trash and weeds from the system according to findings of the annual inspections. Inspection results are recorded on the “Inspection Form for Facilities - Storm Water Pollution Prevention Plan for Industrial Activities.” Deficiencies are entered into the Issue Communication and Resolution Environment (ICARE) system and tracked to ensure they are resolved. Deficiencies must be corrected as soon as practicable, but no later than 14 days from the inspection. For the annual evaluation, the necessary changes must be implemented before the next anticipated storm event, or not more than 12 weeks after completing the evaluation.

The date that corrective action was completed is recorded and forwarded to the INEEL storm water coordinator. Any discrepancy that would lead to an imminent hazard to human health or the environment is corrected immediately. The “Inspection Form for Facilities - Storm Water Pollution Prevention Plan for Industrial Activities” and information entered into the ICARE system is maintained for at least three years from the inspection date. Inspection records include the date and

time of inspection, name of inspector, notation of the observation made, and the date and nature of any needed repairs or other remedial actions.

E.3 Monitoring Well Maintenance

The need to inspect and repair the condition of monitoring wells was identified as a result of past data collection efforts, site construction work, and/or natural deterioration. Examples of possible problems at monitoring wells include inoperable locks, cracked surface casings, and damaged cement pads. As current wells age and future wells are drilled, various problems with regard to the physical integrity of the well may arise that need to be addressed. Some of these include borehole cleanout from formation slough, pump work (trip-in, trip-out, troubleshoot, and repair), pump corrosion, and e-line retrieval. Construction of new monitoring wells shall be performed in accordance with 40 CFR § 264.97(c).

Attempts to analyze field-collected data have also shown the importance of maintaining wells. For example, water-table map construction is complicated with elevation survey inconsistencies. This occurs when the surface construction of a given well is altered, rendering the measuring point elevation invalid.

The frequency and location of well maintenance activities are subject to changing well conditions. As a general rule, the overall condition of each well will be visually inspected at each visit to the well. The wells will be inspected quarterly, during the first two years of the groundwater monitoring program, and then semiannually thereafter. Maintenance problems encountered at any well location will be addressed as they occur.

E.3.1 Maintenance Implementation

In conjunction with the water-level survey, the condition of all wells in the monitoring network will be checked, with the results presented to the CERCLA control office. If damage is noticed during the well inspection, repairs will be made prior to the next water-level monitoring or groundwater sampling event.

E.3.2 Maintenance Tracking

The area construction engineer (CE), in communication with the project hydrogeologist, is responsible for recording the status of wells resulting from the inspection. Furthermore, the CE will direct and log well repair activities as they occur. If changes to a well, wellhead, or downhole equipment (including submersible pumps) occur that are not related to damage observed during the inspection, the CE will also be responsible for updating the well as-built drawings and recording changes in the project logbook. Examples of changes that may occur include, but are not limited to, modifying surface casing dimensions, adding/removing the landing plate, and/or installing/removing submersible pumps. If changes such as these result in alternation of the current water-level measuring point, it will be the responsibility of the CE to ensure measuring points are resurveyed and recorded in the project logbook appropriately.

E.3.3 Corrective Actions

In the event a discrepancy is discovered by field personnel or auditors, the appropriate corrective action will be initiated. The level of action taken is related to the level of the discrepancy. Corrective actions can range from field changes resulting from unforeseen field conditions to DOE reportable incidents.

E.4 Maintenance of Security System

In addition to the security contract that will be maintained by DOE throughout the post-closure period, maintenance of the security equipment will be performed throughout the post-closure period. The need for maintenance shall be identified through routine inspection. Examples of maintenance that shall be performed include fence repair, sign replacement, and light replacement.

Security Systems Maintenance follows a specific written preventive maintenance schedule approved by Security Systems Management. The schedule is maintained site wide and the schedule specific to the INTEC is maintained at the INTEC. The schedule is developed based on the specific building and/or device involved. The Preventive Maintenance Procedures outline the equipment to be tested and methods to use to perform the tests. The frequency of inspection is based on the manufacturer recommendations and equipment history. Equipment problems and malfunctions identified during preventive maintenance are identified on a work control system. The records shall be maintained for at least three years from the date of inspection and repair.

E.5 Name of Contact for Post-Closure IDAPA 58.01.05.008 [264.118 (b)(3)] and IDAPA 58.01.05.009 [265.118 (b)(3)]

The name, address and telephone number of the person to contact during the post-closure period is:

Paul S. Yela, Phone number, (208) 526-8899, INTEC 1604.

- Inspection Forms, Appendix II of the Post-Closure Permit Application for the Volume 21 Waste Calcine Facility, as last revised September 2002.

RCRA WCF POST-CLOSURE MONITORING

Previous Inspection Checked (Initials): _____

Date: _____

Time: _____

Equip/Area Inspected	Types of Problems/ Inspection Items	Yes	No	Observations	Nature of Repairs or Remedial Actions	Completions Date For Repairs/ Remedial Actions
Concrete Cap	Surface Erosion					
	Cracks					
	Spalling					
	Subsidence					
	Joint sealant present					
Surface Drainage	Run-off drainage maintained away from cap					
Brass Benchmarks Inspections	Brass survey caps present					

Comments:

Inspector's Name: (Print) _____

Inspector's Signature: _____

Facility Manager Name: (Print) _____

Facility Manager Signature: _____

INSPECTION FORM FOR FACILITIES STORM WATER POLLUTION PREVENTION PLAN FOR INDUSTRIAL ACTIVITIES (SWPPP-IA)

Facility: _____
Inspector: _____

Inspection Date: _____
Inspection Period: _____

- Verify that pollution prevention practices are implemented.
- Evaluate the effectiveness of pollution prevention practices.
- Identify conditions that may contaminate storm water and identify where additional pollution prevention practices are needed.

GENERAL QUESTIONS

Yes No N/A

HOUSEKEEPING

- | | | | |
|--------------------------|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are outside areas in a neat and orderly condition? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are materials stored outdoors appropriately contained and labeled? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are workspaces and passageways unobstructed? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is waste routinely removed? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are windblown trash and weeds removed? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are snow and ice promptly removed from walking surfaces, roads, and parking areas? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is outdoor storage of equipment, materials, and waste confined to designated areas? |

MAINTENANCE

- | | | | |
|--------------------------|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are storm water devices (culverts, ditches, collection basins, oil and grit collection devices, inlets, pipes, lift stations) regularly maintained? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are facility vehicles, equipment, and systems regularly maintained that could cause discharge of pollutants? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are pipes, vents, equipment, and containers free of corrosion and residue? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are air emission control systems regularly maintained? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are berms and dikes maintained? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are maintenance records adequate? |

SPILLS

- | | | | |
|--------------------------|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are the grounds free of dry chemicals, oil, and other chemicals? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are fertilizers and herbicides applied appropriately? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are secondary containment, leak detection devices, and overflow controls adequate? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are procedures used to minimize spills when transferring materials? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are requirements in the <i>Emergency Plan/RCRA Contingency Plan</i> met? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are requirements in the <i>Spill Prevention, Control and Countermeasures Plan</i> met? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are spills reported to the Spill Notification Team? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is spill response equipment and material available? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are dry clean-up methods used? |

SOIL STABILIZATION

- | | | | |
|--------------------------|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are erosion controls (wind breaks, soil binder, mulch) adequate? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are sediment controls (sediment traps, settling basins) adequate? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are dust control measures adequate? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are soil stabilization measures (pavement, gravel, vegetation) adequate? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are weeds controlled? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is offsite tracking of sediment prevented? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are contaminated soil piles covered and uncontaminated soil piles vegetated? |

INSPECTION FORM FOR FACILITIES STORM WATER POLLUTION PREVENTION PLAN FOR INDUSTRIAL ACTIVITIES (SWPPP-IA)

NONSTORM WATER DISCHARGE

- | | | | |
|--------------------------|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is there evidence of only authorized nonstorm water discharge? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is erosion due to nonstorm water discharge prevented? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is contact between potential pollutant sources and nonstorm water discharge prevented? |

STORM WATER MANAGEMENT

- | | | | |
|--------------------------|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is storm water diverted from potential pollutant sources (material storage areas, contaminated soil)? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is storm water directed to proper disposal areas (collection basins, vegetated swales)? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are pollutant discharges minimized by collecting grit and oil? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is flooding of structures prevented? |

TRAINING

- | | | | |
|--------------------------|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is storm water training up to date and are training records adequate? |
|--------------------------|--------------------------|--------------------------|---|

WATER PRIORITY CHEMICALS (Nitric acid at INTEC)

- | | | | |
|--------------------------|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are appropriate containment, drainage control, and/or diversionary structures provided? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are containers compatible with the material and conditions? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are piping and equipment compatible with material? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is secondary containment provided for at least the largest single tank volume plus sufficient freeboard? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are records (frequency and volume) kept of discharges from containment areas? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are loading and unloading areas protected? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are drip pans used where spillage may occur? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is there a strong spill contingency plan and integrity-testing plan? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Does drainage from process and material handling areas minimize contact with the material? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are covers provided to prevent exposure to wind, spraying or release from pressure relief valves? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are visual inspections or leak tests performed on outdoor overhead piping without secondary containment? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is drainage from areas where the material is handled restrained by manually activated means? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is drainage from other areas with runoff that may contain the material or spills handled to prevent discharge of the material and mitigate pollutants in runoff or leachate? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are there security systems to prevent entry that could cause a discharge of the material? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are employees and subcontractors who work in areas where the material is used or stored trained annually? |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are all areas of the facility inspected daily for conditions that could lead to discharges of the material or contact between storm water and raw materials, intermediate materials, waste materials, or products? |

(Where a leak or other condition is discovered that may result in significant release of the material, action to stop the leak or otherwise prevent the significant release of the material to the environment shall be immediately taken, or the unit or process shall be shut down until such action can be taken. When a leak or noncontainment of the material has occurred, contaminated soil, debris, or other material must be promptly removed and disposed in accordance with federal, state, and local requirements.)

OBSERVATIONS AND EXPLANATIONS

Provide an explanation for questions answered "No"

Inspector Name
Print/Type

Inspector
Signature

Date

Well Inspection Checklist

Well ID:		Well Name:			
Date of Inspection:			Purpose of inspection (check one)		
Location/Directions to the well:			Institutional control		
			Routine maintenance		
			Nonroutine maintenance		
			Other		
Identification		Yes	No	GPS Coordinates	
Is well identified, marked with a tag etc				Easting:	
If yes, describe how, where, and what it says:				Northing:	
				Projection: UTM	
				Datum: WGS 84	
Locking well cap		Yes	No	GPS grade: Recreational	
Is cap or wellhead box present				I	
If yes is it securely attached to the casing					
How is it attached (circle one)		Welded	Bolted		
Describe the condition of the cap					
Can well be accessed without unlocking, and if so, how (i.e. unbolt the cap)					
Locks		Yes	No	Electrical	
Is the well locked upon departure				Is an electrical plug present	
Identify the condition of the lock				What type of plug is present (volts, amps)	
Identify the type (mfg.) of lock, and the lock number					
Protective Posts		Yes	No	Photographs	
Are protective posts present				Was the well photographed	
If yes, are post painted yellow				What camera was used	
If yes, how many (circle one)		1	2	3	4
Is at least one post removable				Which smart card are the photos on	
Describe the condition of the posts				1	
				2	
				3	
				List the photograph numbers	
Materials		Yes	No	More materials	
Is a water access line present				Is a discharge line present	
If yes, what diameter is it				If yes, what diameter	
If yes, what material type (circle one)				If yes, what material type (circle one)	
stainless steel galvanized steel PVC other				stainless steel galvanized steel PVC other	
If other, what is it				If other, what is it	
Measuring point		Yes	No	Surface Pad	
Is the water level measuring point marked				Is a concrete pad present	
If yes, how				If yes, describe the condition	
Stick up		Inches			
Stick up of surface casing above concrete pad					
Stick up of well casing stick up above the pad				Survey	
Stick up of water access pipe above the pad				Is a survey (brass) marker present	
Stick up of water discharge pipe above the pad				If yes, what is recorded	
Describe the general condition of the well					
Additional comments/Other hazards at the well					
Checklist prepared by (print)			Checklist reviewed by (print)		
Signature:		Date:	Signature:		Date:

- Sampling and Analysis Plan Tables, Appendix IX of the Post-Closure Permit Application for the Volume 21 Waste Calcine Facility, as last revised September 2002.

