

**WASTE TREATMENT OF IMMOBILIZATION PLANT  
CHAPTER 6A  
INSPECTION PLAN**

**CHANGE CONTROL LOG**

Change Control Logs ensure that changes to this unit are performed in a methodical, controlled, coordinated, and transparent manner. Each unit addendum will have its own change control log with a modification history table. The “**Modification Number**” represents Ecology’s method for tracking the different versions of the permit. This log will serve as an up to date record of modifications and version history of the unit.

Modification History Table

<b>Modification Date</b>	<b>Modification Number</b>
08/2011	

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**APPENDIX CHAPTER 6A**  
**INSPECTION SCHEDULES PLAN**

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**APPENDIX CHAPTER 6A**  
**INSPECTION SCHEDULES PLAN**

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**ACRONYMS**

<u>ALARA</u>	<u>As Low As Reasonably Achievable</u>
<u>EMF</u>	<u>Effluent Management Facility</u>
<u>HLW</u>	<u>High-Level Waste</u>
<u>IHLW</u>	<u>Immobilized HLW</u>
<u>ILAW</u>	<u>Immobilized LAW</u>
<u>LAW</u>	<u>Low-Activity Waste</u>
<u>WTP</u>	<u>Waste Treatment and Immobilization Plant</u>

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2 **CHAPTER 6A**  
3 **INSPECTION PLAN**  
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5 **6A.0—INSPECTION SCHEDULES**

6 ~~**6A.1—THIS SECTION PROVIDES EXAMPLE WTP INSPECTION SCHEDULES SHOWING**~~  
7 ~~**INSPECTION FREQUENCIES AND WHAT TO LOOK FOR. THESE EXAMPLE**~~  
8 ~~**INSPECTION SCHEDULES LIST THE MONITORING EQUIPMENT, SAFETY AND**~~  
9 ~~**EMERGENCY EQUIPMENT, SECURITY DEVICES, PREPAREDNESS AND**~~  
10 ~~**PREVENTION EQUIPMENT, AND OPERATING AND STRUCTURAL EQUIPMENT**~~  
11 ~~**THAT HELP PREVENT, DETECT, OR RESPOND TO ENVIRONMENTAL OR HUMAN**~~  
12 ~~**HEALTH HAZARDS RELATED TO MIXED AND DANGEROUS WASTE. A COPY OF**~~  
13 ~~**THE CURRENT AND COMPLETE INSPECTION SCHEDULES WILL BE RETAINED**~~  
14 ~~**AT THE WTP OR OTHER APPROVED LOCATIONS.**~~

15 ~~**6A.2—TABLE 6A-1 CONTAINS EXAMPLES OF THE GENERAL INSPECTION**~~  
16 ~~**REQUIREMENTS. THE REMAINING TABLES ARE ORGANIZED BY TYPE OF**~~  
17 ~~**WASTE MANAGEMENT UNIT. FOLLOWING IS A LIST OF TABLES AND THEIR**~~  
18 ~~**LOCATIONS INCLUDED IN THIS APPENDIX.**~~

19 **6A.0 INSPECTION PLAN**

20 The following sections describe the Waste Treatment and Immobilization Plant (WTP) dangerous waste  
21 inspection plan. The WTP plan uses a graded approach to preventing and detecting malfunctions,  
22 deterioration, operator errors, and discharges that range from daily inspections to integrity assessments.  
23 This graded approach is comprised of activities that, at a minimum, meets the inspection requirements in  
24 WAC 173-303-320 and includes more precautions for equipment at higher risk of failure. Monitoring via  
25 instrumentation will be used to perform remote inspections in areas of high radioactivity, including, but  
26 not limited to, the Pretreatment Areas, Low Activity Waste (LAW) vitrification area, Laboratory, Effluent  
27 Management Facility (EMF) and the High Level Waste (HLW) vitrification area. Due to the radioactive  
28 nature of the waste and consistent with as low as reasonably achievable (ALARA) principles, monitoring  
29 by instrumentation is the primary means of fulfilling the inspection requirements in these areas. The  
30 WTP also use cameras, windows, process control, function checks, and preventive maintenance to  
31 comply with inspection requirements.

32 The inspections for various facilities are provided in Table 6A-1 through Table 6A-7 of this inspection  
33 schedule. Each table addresses a particular dangerous waste management unit, or group of units, such as  
34 tanks. Within each dangerous waste management unit table, the inspections are presented by system, and  
35 are further broken down by individual component. Once a dangerous waste management unit receives  
36 dangerous and/or mixed waste, the inspection criteria and frequencies detailed in the tables for each  
37 specific unit (Table 6A-1 through 6A-7) will be active. Controlled copies of the inspection plan will be  
38 kept at the WTP facility.

39 The WTP has no waste pile units, surface impoundment units, incinerator units, landfill units, or land  
40 treatment facilities. The requirements for inspection of these units and activities are not applicable to the  
41 WTP and are not included in this inspection schedule.

42 **6A.1 GENERAL INSPECTION REQUIREMENTS**

43 This section describes general, WTP-wide inspection requirements used to help prevent, detect, or  
44 respond to environmental or human health hazards related to dangerous and/or mixed waste handling,  
45 treatment, and storage at the WTP.

1 **6A.1.1 Inspection Methods**

2 The method of inspection is how an inspection is to be performed. The three primary methods of  
 3 inspection identified and required by this inspection plan are described below.

4

<b><u>Methods of Inspection</u></b>	
<b><u>Physical</u></b>	<u>An inspection conducted physically in person (e.g. maintenance or operator). A physical inspection requires the physical presence of the inspector at the item of inspection and is not to be confused with a remote inspection. Due to accessibility limitation, physical inspections may be conducted with the aid of instruments (e.g., borescope, mirrors)</u>
<b><u>Remote</u></b>	<u>An inspection conducted by one or all of the following methods: closed-circuit television, observation windows, control panels, process control system, or any other inspection that is not conducted physically in person.</u>
<b><u>Functional</u></b>	<u>An inspection conducted by operating or testing the item being inspected to determine if equipment/instrument is operating correctly and capable of performing its function.</u>

5 Due to the radioactive nature of the waste and consistent with ALARA principles, remote inspections are  
 6 the primary method of conducting inspections for several facilities at WTP. Areas of higher radiation  
 7 have been identified for all of the operating facilities, i.e. lab, Pretreatment, LAW vitrification area, HLW  
 8 vitrification area and EMF. Unless otherwise stated in this permit, inspections of equipment, items, and  
 9 systems are performed as physical inspections.

10 **6A.1.2 Inspection Frequencies**

11 The frequency of inspection is how often (at a minimum) an inspection must be performed. For the  
 12 purposes of this inspection schedule, the various inspection frequencies have been established with  
 13 sufficient conservatism to be protective of human health and the environment. The inspection frequencies  
 14 most frequently used in this plan are outlined below.

<b><u>Inspection Frequencies</u></b>	
<b><u>Frequency</u></b>	<b><u>Definition</u></b>
<b><u>Daily</u></b>	<u>Once per calendar day</u>
<b><u>Weekly</u></b>	<u>Once per calendar week *</u>
<b><u>Monthly</u></b>	<u>Once per calendar month</u>
<b><u>Bimonthly</u></b>	<u>Once every other calendar month</u>
<b><u>Quarterly</u></b>	<u>Once per calendar quarter</u>
<b><u>Semi-Annual</u></b>	<u>Once per 6-month calendar period</u>
<b><u>Annually</u></b>	<u>At least once during a 12-month period +/- 30 days</u>

15 \* Washington Administrative Code requires some dangerous waste inspections to be completed every 7 days.  
 16 Affected inspections are identified in the Inspection Tables.

17 **6A.1.3 Suspended Inspections**

18 When a dangerous waste management unit is no longer receiving, managing, or treating waste, the unit's  
 19 specific inspections may be suspended. During these situations, inspections can be suspended until the  
 20 affected system is placed back into dangerous waste operation. Prior to resuming dangerous waste



1 operations, “initial” inspections will be conducted when the system is brought back online and regularly  
2 scheduled inspections are resumed. Inspections detailed in Table 6A-1 cannot be suspended.

3 In the case an inspection has been suspended prior to the expiration of the next scheduled inspection, the  
4 inspection requirement is satisfied by performing the inspection prior to resuming dangerous waste  
5 operations. In the case of suspended daily inspections, the initial (restart) inspection satisfies the daily  
6 inspection requirement for that day. All suspended inspections will be documented in the inspection log  
7 described in Section 6A.2. The decision to suspend a permit required inspection requires verbal  
8 notification to the Department of Ecology.

## 9 **6A.2 INSPECTION LOG**

10 Inspection checklists will be used to document completion of the inspection schedule in this plan. These  
11 checklists will be records of the items contained in the inspection schedule and will be kept as a hardcopy  
12 or an electronic copy. Records of completed inspections will include the date and time of inspection; the  
13 legible, printed name and hand written signature of the inspector (or equivalent), a notation of the  
14 observations made, an account of spills or discharges and the date and nature of any repairs or remedial  
15 actions taken.

16 Personnel performing these inspections will be appropriately trained and qualified in the system being  
17 inspection as prescribed in Chapter 8.0, Personnel Training. When performing the inspection, the  
18 inspector will note all observations and deficiencies on the inspection sheet. Inspection deficiencies  
19 discovered by the inspector and corrective actions that have been initiated are delegated to responsible  
20 individuals in the operations group. Completed and/or suspended inspection checklists are stored in the  
21 WTP operating record for at least 5 years from the date of the inspection.

## 22 **6A.3 SCHEDULE FOR REMEDIAL ACTION FOR PROBLEMS REVEALED**

### 23 **6A.3.1 Remedies**

24 Problems revealed by inspections will be corrected on a schedule that prevents hazards to the public  
25 health and environment. If inspections show that nonemergency maintenance is required, maintenance is  
26 completed as soon as possible to prevent further damage and to reduce the need for subsequent  
27 emergency response. Non-emergency corrective actions will be initiated within 24 hours if possible;  
28 however, additional response time may be required because of the radioactive component of the waste  
29 being managed at the WTP. Where a hazard is imminent or has already occurred, remedial actions are  
30 taken immediately to prevent equipment damage and prevent hazards to human health and the  
31 environment.

32 If an inspection identifies a fire, explosion, or release involving a dangerous waste, or an imminent hazard  
33 to human health or the environment, the WTP Contingency Plan, Chapter 7.0, is followed.

## 34 **6A.4 SPECIFIC PROCESS OR WASTE TYPE INSPECTION REQUIREMENTS**

### 35 **6A.4.1 Container Inspections**

36 The WTP will store immobilized low-activity waste (ILAW) in containers and immobilized high-level  
37 waste (IHLW) in canisters, and secondary dangerous and mixed waste in containers. For purposes of  
38 IHLW, the term canisters are used to specifically address the unique disposal requirements of the filled  
39 containers. Throughout this section, general references to containers also applies to the IHLW canisters.  
40 Inspections of container storage areas will be performed weekly when waste is in the storage areas.

#### 41 Immobilized Low-Activity Containers and High-Level Waste Canisters

42 Filled ILAW containers and IHLW canisters will be radioactive and thus, inspections must be performed  
43 remotely. Therefore, in lieu of conventional container inspections while the containers are in storage,  
44 each container will be inspected before and after filling, and when it is moved into and out of the ILAW  
45 and IHLW containment buildings or container storage areas. The containers will not contain free liquids,

1 will be chemically and physically stable (not ignitable or reactive), and will have either a welded closure  
2 (IHLW) or pressed fitted closure seal (ILAW). The IHLW canisters will be placed in special racks inside  
3 the storage areas that will prevent them from toppling.

4 The WTP will inspect the ILAW and IHLW container storage or containment building areas, when they  
5 are in use, weekly by remote means. As specified in III.10.D.4.b.ii, these remotely managed storage areas  
6 are exempt from the 30-inch aisle spacing. ILAW and IHLW containers/canisters aisle spacing is  
7 anticipated to be in the range of 4 to 16 inches, as described in Chapter 4E.1.2.1 and 4F.1.2.1,  
8 respectively. Table 6A-2 details the methods and criteria used to inspect the ILAW containers and IHLW  
9 canisters.

10 The dangerous waste container labeling requirements will be met by using a unique alphanumeric  
11 identifier that will be welded to each container. Deterioration of the identifier is not expected due to the  
12 permanent nature of these markings and provisions for subsequent handling that will safeguard against  
13 damage to the containers and the identifying marks.

14 Using the identification on each container, a tracking system will record key movements of each  
15 immobilized waste container through the facility. Information about the waste canister tracking system is  
16 in Chapter 4.0. For each container of ILAW and IHLW produced, the system will track the following:

- 17 • The location of each container in process and storage areas
- 18 • The date that waste was first placed in the container
- 19 • The date the container was shipped from the facility, and its destination
- 20 • The nature of waste in the container, including dangerous waste designation codes, and land  
21 disposal restriction requirements

## 22 Secondary and Miscellaneous Waste in Containers

23 Secondary waste refers to newly generated waste (or a waste by-product from treating the Hanford tanks  
24 waste) that is designated as dangerous waste or mixed waste. Secondary waste will be generated at the  
25 WTP, for example, waste associated with laboratory activities, maintenance activities and failed  
26 contaminated equipment.

## 27 6A.4.2 Tank Systems Inspections, Assessments and Corrective Actions

### 28 6A.4.2.1 Tank System Inspections

29 A description of the tank systems, and their safety and interlock controls, at the WTP can be found in  
30 Chapter 4. Access to regulated tanks for inspection and integrity assessments must be consistent with  
31 keeping radiation exposure ALARA. Each tank or grouping of identical tanks is shown as a line item in  
32 the inspection schedule, Table 6A-3. Each inspection item includes a description of problems to look for  
33 and the frequency of inspection. The inspection will address the tanks overflow and spill control  
34 equipment, data gathered from monitoring and leak detection equipment, construction materials, the area  
35 immediately surrounding the externally accessible portion of the tank as well as secondary containment  
36 system.

### 37 6A.4.2.2 Tank System Integrity Assessments

38 Periodic integrity assessments will be performed over the life of the regulated tank systems to assure they  
39 retain their structural integrity and will not collapse, rupture, or fail. The frequency of integrity  
40 assessments will be based on the potential for corrosion and erosion. The classification system allows  
41 extra assessment efforts to be focused on tank system that may have the highest potential consequences if  
42 failure or loss of containment should occur.

43 Assessment of equipment with lower potential for corrosion and erosion with accessible areas or hot cells  
44 is made during the routine or maintenance outages and within 10 years after start of hot commissioning at

1 selected accessible points where baseline NDE measurements had been taken. Subsequent integrity  
2 assessments will be based on the results of previous integrity assessments, the age of the equipment,  
3 materials of construction, characteristics of the waste, and any other relevant factors, but there will be no  
4 more than 10 years between integrity assessments.

5 Assessment of equipment with higher potential for corrosion and erosion within accessible areas is made  
6 during routine or maintenance outages and within 7 years after the start of hot commissioning at selected  
7 accessible points where baseline NDE measurements had been taken. Subsequent integrity assessments  
8 will be based on the results of previous integrity assessments, the age of the equipment, materials of  
9 construction, characteristics of the waste, and any other relevant factors but there will be no more than 7  
10 years between integrity assessments.

#### 11 **6A.4.2.3 Tank Systems – Corrective Actions**

12 If a leak or spill of dangerous and/or mixed waste is detected in a secondary containment system during  
13 the course of an inspection, the permittee will follow the remedial actions found in permit conditions  
14 III.10.E.5.i.i through III.10.E.5.i.v.

#### 15 **6A.5 STORAGE OF IGNITABLE OR REACTIVE WASTES**

16 Small amounts of ignitable (D001) and reactive (D003) waste may be generated as secondary waste  
17 during maintenance and laboratory operations. Management of this waste will be performed either in Lab  
18 Pack Room (A-0139A) or Waste Drum Management Room (A-0139), in accordance with WAC 173-303-  
19 395. Annual inspections of all areas managing D001 and D003 waste will be conducted by personnel  
20 familiar with the International Fire Code, or in the presence of the local, state, or federal fire marshal.  
21 The date and time of the inspection, the name of the inspector or fire marshal, a notation of the  
22 observation made, and any remedial actions, will be documented in the inspection log.

#### 23 **6A.6 AIR EMISSIONS CONTROL AND DETECTION**

##### 24 **6A.6.1 Air Emissions from Process Vents (Subpart AA)**

25 The WTP does not use any of the regulated devices or processes listed; therefore, the WTP will not be  
26 subject to regulation under Subpart AA (40 CFR 264).

##### 27 **6A.6.2 Air Emission Standards for Equipment Leaks (Subpart BB)**

28 The WAC 173-303-691 and Subpart BB (40 CFR 264) applies to equipment that contains or contacts  
29 hazardous wastes with organic concentrations of at least 10 percent by weight. This provision will not  
30 apply to the facility because the WTP will not accept or treat wastes with organic concentrations at or  
31 above 10 percent by weight. Compliance with this provision will be documented through analyses of  
32 verification samples, as described in the Waste Analysis Plan.

##### 33 **6A.6.3 Air Emission Standards for Tanks and Containers (Subpart CC)**

34 The regulations specified under WAC 173-303-692 and 40 CFR Part 264 Subpart CC, incorporated by  
35 reference, do not apply to the WTP mixed waste tank systems and containers. These tanks and containers  
36 qualify as waste management units that are “used solely for the management of radioactive dangerous  
37 waste in accordance with all applicable regulations under the authority of the Atomic Energy Act and the  
38 Nuclear Waste Policy Act” and are excluded under WAC 173-303-692(1)(b)(vi).

39 Containers or tanks bearing nonradioactive, dangerous waste, such as maintenance and laboratory waste,  
40 that are not excluded under WAC 173-303-692(1)(b)(ii) or 40 CFR 264.1082(c), will comply with the  
41 container and tank standards specified under 40 CFR part 264 Subpart CC.  
42

1

**Table 6A-1 Example WTP General Inspection Schedule**

<b>Component Name</b>	<b>Inspection</b>	<b>Frequency</b>
<b>Security Devices</b>		
WTP inner fence	Check for damaged fencing	Monthly
Posted warning signs (see Chapter 6.0, section 1.4.32) that say: "DANGER - UNAUTHORIZED PERSONNEL KEEP OUT" <del>(or equivalent)</del>	Verify signs are present, legible from a distance of 25 ft, and visible; ensure buildings or rooms containing dangerous or mixed waste are posted	Monthly
Points of access to active portions turnstiles, doors, and/or magnetic encoded bar readers	Verify operability	Monthly
<b>Emergency Preparedness Equipment</b>		
Safety showers and eyewash stations	Verify operability and sufficient pressure	At least every seven days
Automatic fire suppression system(s)	Verify operability	Annually
Portable fire extinguishers (all types)	Check for adequate charge	Monthly
Emergency lighting	Test operability	Monthly
Spill kit and spill control equipment	Verify contents complete	Quarterly
Emergency sirens and alarms	Verify operability	Monthly
Voice paging system (pagers or PA system)	Verify operability	Monthly
Emergency telephones	Verify operability	Monthly
Personal protective clothing and equipment	Ensure supplies meet ERP listing and requirements	Quarterly
<b>Power Supply Inspections</b>		
Emergency uninterruptible power supply system(s)	Verify operability	Annual
Emergency diesel generator	Perform no-load test and verify sufficient fuel	Annual

2

**Table 6A-2 Example Canister and Container Storage Inspection Schedules**

Name	Inspection	Frequency
<b>Dangerous and/or Mixed Waste Container Storage Inspections</b>		
<ul style="list-style-type: none"> <li>• HLW East corridor El. 0 ft (HC-0108/09/10)</li> <li>• <u>HLW Loading Area (H-0130)</u><del>Laboratory waste management area</del></li> <li>• <u>Lab Pack Room (A-0139A)</u></li> <li>• <u>Waste Drum Management Room (A-0139)</u></li> <li>• Non-radioactive dangerous waste container storage area</li> <li>• Failed melter storage facility</li> <li>• Container storage in HLW, PTF, and LAW Containment Building described in Table III.10.D.A</li> </ul>	<p>Verify major risk labels present and legible, ensure all containers are closed (except when waste is being added to container);</p> <p>Check that container storage areas are free of liquid and debris;</p> <p>Check for significant cracks, gaps, and other signs of deterioration of storage area floors;</p> <p>Verify minimum 30 inches of aisle space between containers, except for IHLW canisters and ILAW containers;</p> <p>Verify that any dangerous and or mixed waste container holding free liquids have portable secondary containment and no liquids accumulated in portable secondary containment</p>	At least every seven days
<b>Immobilized -ILAW Container Storage in Containment Buildings</b>		
ILAW containers	Inspect that unique alphanumeric identifier is welded to ILAW container and is legible	Prior to placing in storage
Filled ILAW containers <sup>1</sup>	Inspect (visually, by camera surveillance, or cell window) each container for cracks, leaks, bulges, or other abnormalities	After sealing container
	<p>Record in tracking system each container's location when placed in storage;</p> <p>Record in tracking system all container location changes if container(s) are moved while in storage;</p> <p>Verify container in recorded location when transporting container out of WTP storage.</p>	Within 48 hours of placing or moving each container
Container Monitoring/Export Areas (L-0109E and L-0115E)	Inspect (visually, by camera surveillance, or cell window) for deformities in storage area floors or debris in storage area	At least every seven days when facility is storing waste in immobilized waste container monitoring/export area
<b>HLW Vitrification Plant Canister Storage Area</b>		
IHLW canisters	Inspect that unique alphanumeric identifier is welded to IHLW canister and is legible	Prior to placing in storage

**Table 6A-2 Example Canister and Container Storage Inspection Schedules**

Name	Inspection	Frequency
Filled IHLW Canister <sup>1</sup>	Inspect (visually, by camera surveillance, or cell window) each canister for cracks, leaks, bulges, or other abnormalities	After sealing canister
	Record in tracking system each canister's location when placed in storage; Record in tracking system all canister location changes if canister(s) are moved while in storage; Verify canister in recorded location when transporting canister out of WTP storage.	Within 48 hours of placing or moving each canister
IHLW Canister Storage Cave (H-0132)	Inspect (visually, by camera surveillance, or cell window) for deformities in storage area floors or debris in storage area	At least every seven days when facility is storing waste in immobilized waste canister storage area

1 Footnote:

2 <sup>1</sup> Direct access to container of ILAW and IHLW for the purposes of inspection is precluded due to high radioactivity levels.

3 Therefore, ILAW and IHLW containers are exempt from the 30-inch aisle requirements (III.10.D.4.b.ii).

4

**Table 6A-3 Example Tank Systems and Ancillary Equipment Inspection Schedule**

<b>Component Name</b>	<b>Plant item number</b>	<b>Inspection</b>	<b>Frequency</b>
<b>Pretreatment Plant Tank System</b>			
<b>FRP</b>			
Waste feed receipt vessels	FRP-VSL-00002A FRP-VSL-00002B FRP-VSL-00002C FRP-VSL-00002D	Inspect tank level monitoring data to prevent overflow	Daily
<b>FEP</b>			
Waste feed evaporator feed vessels	FEP-VSL-00017A FEP-VSL-00017B	Inspect tank level monitoring data to prevent overflow	Daily
Waste feed evaporator condensate vessel	FEP-VSL-00005	Inspect tank level monitoring data to prevent overflow	Daily
<b>HLP</b>			
HLW Lag storage vessel	HLP-VSL-00027A HLP-VSL-00027B	Inspect tank level monitoring data to prevent overflow	Daily
HLW feed receipt vessel	HLP-VSL-00022	Inspect tank level monitoring data to prevent overflow	Daily
HLW feed blend vessel	HLP-VSL-00028	Inspect tank level monitoring data to prevent overflow	Daily
<b>UFP</b>			
Ultrafiltration feed preparation vessels	UFP-VSL-00001A UFP-VSL-00001B	Inspect tank level monitoring data to prevent overflow	Daily
Ultrafiltration feed vessels	UFP-VSL-00002A UFP-VSL-00002B	Inspect tank level monitoring data to prevent overflow	Daily
Ultrafilter permeate collection vessel	UFP-VSL-00062A UFP-VSL-00062B UFP-VSL-00062C	Inspect tank level monitoring data to prevent overflow	Daily

**Table 6A-3 Example Tank Systems and Ancillary Equipment Inspection Schedule**

<b>Component Name</b>	<b>Plant item number</b>	<b>Inspection</b>	<b>Frequency</b>
Ultrafilters	UFP-FILT-00001A UFP-FILT-00001B UFP-FILT-00002A UFP-FILT-00002B UFP-FILT-00003A UFP-FILT-00003B UFP-FILT-00004A UFP-FILT-00004B UFP-FILT-00005A UFP-FILT-00005B	Inspect tank level monitoring data to prevent overflow	Daily
<b>CXP</b>			
Cesium ion exchange feed vessel	CXP-VSL-00001	Inspect tank level monitoring data to prevent overflow	Daily
Cesium ion exchange columns	CXP-IXC-00001 CXP-IXC-00002 CXP-IXC-00003 CXP-IXC-00004	Inspect column monitoring data to prevent release	Daily
Cesium reagent vessel	CXP-VSL-00005	Inspect tank level monitoring data to prevent overflow	Daily
Cesium ion exchange caustic rinse collection vessel	CXP-VSL-00004	Inspect tank level monitoring data to prevent overflow	Daily
Cesium ion exchange treated LAW collection vessels	CXP-VSL-00026A CXP-VSL-00026B CXP-VSL-00026C	Inspect tank level monitoring data to prevent overflow	Daily
<b>CNP</b>			
Cesium evaporator eluate lute vessel	CNP-VSL-00001	Inspect tank level monitoring data to prevent overflow	Daily
Cesium evaporator recovered nitric acid vessel	CNP-VSL-00004	Inspect tank level monitoring data to prevent overflow	Daily
Eluate contingency storage vessel	CNP-VSL-00003	Inspect tank level monitoring data to prevent overflow	Daily



**Table 6A-3 Example Tank Systems and Ancillary Equipment Inspection Schedule**

<b>Component Name</b>	<b>Plant item number</b>	<b>Inspection</b>	<b>Frequency</b>
<b>PVP</b>			
Vessel ventilation HEME drain collection vessel	PVP-VSL-00001	Inspect tank level monitoring data to prevent overflow	Daily
<b>PWD</b>			
Ultimate overflow vessel	PWD-VSL-00033	Inspect tank level monitoring data to prevent overflow	Daily
Plant wash vessel	PWD-VSL-00044	Inspect tank level monitoring data to prevent overflow	Daily
Acidic/alkaline effluent vessel	PWD-VSL-00015	Inspect tank level monitoring data to prevent overflow	Daily
Acidic/alkaline effluent vessel	PWD-VSL-00016	Inspect tank level monitoring data to prevent overflow	Daily
C3 floor drains tank	PWD-VSL-00046	Inspect tank level monitoring data to prevent overflow	Daily
HLW effluent transfer vessel	PWD-VSL-00043	Inspect tank level monitoring data to prevent overflow	Daily
<b>TLP</b>			
Treated LAW evaporator condensate vessel	TLP-VSL-00002	Inspect tank level monitoring data to prevent overflow	Daily
LAW SBS condensate receipt vessel	TLP-VSL-00009A TLP-VSL-00009B	Inspect tank level monitoring data to prevent overflow	Daily
<b>TCP</b>			
Treated LAW concentrate storage vessel	TCP-VSL-00001	Inspect tank level monitoring data to prevent overflow	Daily
<b>RDP</b>			
Spent resin slurry vessels	RDP-VSL-00002A RDP-VSL-00002B RDP-VSL-00002C	Inspect tank level monitoring data to prevent overflow	Daily
Spent resin dewatering moisture separation vessel	RDP-VSL-00004	RESERVED	Daily

**Table 6A-3 Example Tank Systems and Ancillary Equipment Inspection Schedule**

<b>Component Name</b>	<b>Plant item number</b>	<b>Inspection</b>	<b>Frequency</b>
<b>RLD</b>			
Process condensate vessels	RDP-TK-00006A RDP-TK-00006B	Inspect tank level monitoring data to prevent overflow	Daily
Alkaline effluent vessels	RLD-VSL-00017A RLD-VSL-00017B	Inspect tank level monitoring data to prevent overflow	Daily
<b>PIH</b>			
Decontamination soak tank	PIH-TK-00001	Inspect tank level monitoring data to prevent overflow	Daily
<b>LAW Vitrification Plant Tank System</b>			
<b>LCP</b>			
LAW Melter 1 concentrate receipt vessel	LCP-VSL-00001	Inspect tank level monitoring data to prevent overflow	Daily
LAW Melter 2 concentrate receipt vessel	LCP-VSL-00002	Inspect tank level monitoring data to prevent overflow	Daily
<b>LFP</b>			
Melter 1 feed preparation vessel	LFP-VSL-00001	Inspect tank level monitoring data to prevent overflow	Daily
Melter 1 feed vessel	LFP-VSL-00002	Inspect tank level monitoring data to prevent overflow	Daily
Melter 2 feed preparation vessel	LFP-VSL-00003	Inspect tank level monitoring data to prevent overflow	Daily
Melter 2 feed vessel	LFP-VSL-00004	Inspect tank level monitoring data to prevent overflow	Daily
<b>LVP</b>			
LAW caustic collection tank	LVP-TK-00001	Inspect tank level monitoring data to prevent overflow	Daily
<b>LOP</b>			
LAW Melter 1 SBS condensate vessel	LOP-VSL-00001	Inspect tank level monitoring data to prevent overflow	Daily

**Table 6A-3 Example Tank Systems and Ancillary Equipment Inspection Schedule**

<b>Component Name</b>	<b>Plant item number</b>	<b>Inspection</b>	<b>Frequency</b>
LAW Melter 2 SBS condensate vessel	LOP-VSL-00002	Inspect tank level monitoring data to prevent overflow	Daily
<b>RLD</b>			
Plant wash vessel	RLD-VSL-00003	Inspect tank level monitoring data to prevent overflow	Daily
C3/C5 drains/sump collection vessel	RLD-VSL-00004	Inspect tank level monitoring data to prevent overflow	Daily
SBS condensate collection vessel	RLD-VSL-00005	Inspect tank level monitoring data to prevent overflow	Daily
<b>HLW Vitrification Plant Tank System</b>			
<b>HOP</b>			
Melter 1 SBS condensate receiver vessel 1	HOP-VSL-00903	Inspect tank level monitoring data to prevent overflow	Daily
Melter 2 SBS condensate receiver vessel 2	HOP-VSL-00904	Inspect tank level monitoring data to prevent overflow	Daily
<b>HDH</b>			
Canister decon vessel 1	HDH-VSL-00002	Inspect tank level monitoring data to prevent overflow	Daily
Canister decon vessel 2	HDH-VSL-00004	Inspect tank level monitoring data to prevent overflow	Daily
Waste neutralization vessel	HDH-VSL-00003	Inspect tank level monitoring data to prevent overflow	Daily
Canister rinse vessel	HDH-VSL-00001	Inspect tank level monitoring data to prevent overflow	Daily
<b>RLD</b>			
Acidic waste vessel	RLD-VSL-00007	Inspect tank level monitoring data to prevent overflow	Daily
Plant wash and drains vessel	RLD-VSL-00008	Inspect tank level monitoring data to prevent overflow	Daily
Offgas drains collection vessel	RLD-VSL-00002	Inspect tank level monitoring data to prevent overflow	Daily

**Table 6A-3 Example Tank Systems and Ancillary Equipment Inspection Schedule**

<b>Component Name</b>	<b>Plant item number</b>	<b>Inspection</b>	<b>Frequency</b>
<b>HFP</b>			
HLW Melter 1 feed preparation vessel	HFP-VSL-00001	Inspect tank level monitoring data to prevent overflow	Daily
HLW Melter 2 feed preparation vessel	HFP-VSL-00005	Inspect tank level monitoring data to prevent overflow	
HLW Melter 1 feed vessel	HFP-VSL-00002	Inspect tank level monitoring data to prevent overflow	Daily
HLW Melter 2 feed vessel	HFP-VSL-00006	Inspect tank level monitoring data to prevent overflow	
<b>HSH</b>			
Decontamination Tank Melter cave 1	HSH-TK-00001	Inspect tank level monitoring data to prevent overflow	Daily
Decontamination Tank Melter cave 2	HSH-TK-00002	Inspect tank level monitoring data to prevent overflow	Daily
<b>Analytical Laboratory Tank System</b>			
<b>RLD</b>			
Lab area sink drain collection vessel	RLD-VSL-00164	Inspect tank level monitoring data to prevent overflow	Daily
Hot cell drain collection vessel	RLD-VSL-00165	Inspect tank level monitoring data to prevent overflow	Daily
<b><u>Effluent Management Facility Tank System</u></b>			
<u>Evaporator Process System Vessels</u>	<u>DEP-VSL-00001</u> <u>DEP-VSL-00002</u>	<u>Inspect tank level monitoring data to prevent overflow</u>	<u>Daily</u>
<u>Evaporator Discharge System Vessels</u>	<u>DEP-VSL-00003A</u> <u>DEP-VSL-00003B</u> <u>DEP-VSL-00003C</u>	<u>Inspect tank level monitoring data to prevent overflow</u>	<u>Daily</u>
	<u>DEP-VSL-00004A</u> <u>DEP-VSL-00004B</u>	<u>Inspect tank level monitoring data to prevent overflow</u>	<u>Daily</u>
	<u>DEP-VSL-00005A</u> <u>DEP-VSL-00005B</u>	<u>Inspect tank level monitoring data to prevent overflow</u>	<u>Daily</u>

**Table 6A-3 Example Tank Systems and Ancillary Equipment Inspection Schedule**

<b>Component Name</b>	<b>Plant item number</b>	<b>Inspection</b>	<b>Frequency</b>
<b>Primary Containment Sumps as identified the WTP Permit (Reserved)</b>			
<b>Secondary Containment</b>			
Leak detectors for all tank systems, miscellaneous units, and containment buildings managing dangerous and/or mixed waste	See Chapter 4.0	Monitor leak detection instrumentation or monitoring data to detect leaks	Daily
<b>Underground Piping (receiving from DST and transferring out)</b>			
Leak detectors		Monitor leak detection instrumentation or monitoring data to detect leaks	Daily

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**Table 6A-4 Example Cathodic Protection Inspection Schedule-Dangerous Waste Transfer Lines**

<b>Component Name and Line Number</b>	<b>Inspection</b>	<b>Frequency</b>
Cathodic protection systems for dangerous and mixed waste transfer lines	Verify proper operation	Initial (less than 6 months after installation) Annually (from date of initial installation inspection, above)
All sources of impressed current supporting cathodically protected dangerous and mixed waste transfer lines	Test for proper function	Bi-monthly

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**Table 6A-5 Example Ignitable or Reactive Wastes Inspection Schedule**

<b>Component Name</b>	<b>Inspection</b>	<b>Frequency</b>
<del>Receipt tanks</del>	<del>Inspect, by qualified personnel or in the presence of fire marshal, for compliance with Uniform Fire Code and enter inspection into operating record</del>	<del>365 days</del>
Container storage areas storing ignitable or reactive waste	Inspect, by professional person or in the presence of fire marshal for compliance with Uniform Fire Code and enter inspection into operating record. Inspect container storage areas for compliance with <a href="#">WAC 173-303-630</a> (8) requirements.	365 days

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**Table 6A-6 Example Miscellaneous Treatment Unit Schedule**

<b>Component Name</b>	<b>Plant Item Number</b>	<b>Inspection</b>	<b>Frequency</b>
<b>Pretreatment Facility Miscellaneous Treatment Unit Systems</b>			
<b>TLP</b>			
Treated LAW evaporator separator vessel	TLP-SEP-00001	Inspect vessel level monitoring data to prevent overflow	Daily
Treated LAW Reboiler	TLP-RBLR-00001	TBD	TBD
Treated LAW Primary Condenser	TLP-COND-00001	TBD	TBD
Treated LAW Inter-Condenser	TLP-COND-00003	TBD	TBD
Treated LAW After-Condenser	TLP-COND-00002	TBD	TBD
<b>FEP</b>			
Waste Feed Evaporator Separator Vessels	FEP-SEP-00001A FEP-SEP-00001B	TBD	TBD
Waste Feed Evaporator Reboilers	FEP-RBLR-00001A FEP-RBLR-00001B	TBD	TBD
Waste Feed Evaporator Primary Condensers	FEP-COND-00001A FEP-COND-00001B	TBD	TBD
Waste Feed Evaporator Inter-Condensers	FEP-COND-00002A FEP-COND-00002B	TBD	TBD
Waste Feed Evaporator After-Condensers	FEP-COND-00003A FEP-COND-00003B	TBD	TBD
<b>PJV</b>			
PJV Primary HEPA filters	PJV-HEPA-00001A PJV-HEPA-00001B PJV-HEPA-00001C PJV-HEPA-00001D PJV-HEPA-00001E PJV-HEPA-00001F PJV-HEPA-00001G	TBD	TBD
PJV Secondary Exhaust HEPA filters	PJV-HEPA-00002A PJV-HEPA-00002B PJV-HEPA-00002C PJV-HEPA-00002D PJV-HEPA-00002E PJV-HEPA-00002F	TBD	TBD

**Table 6A-6 Example Miscellaneous Treatment Unit Schedule**

<b>Component Name</b>	<b>Plant Item Number</b>	<b>Inspection</b>	<b>Frequency</b>
PJV Exhaust fans	PJV-FAN-00001A PJV-FAN-00001B PJV-FAN-00001C	TBD	TBD
PJV Demisters	PJV-DMST-00002A PJV-DMST-00002B PJV-DMST-00002C	TBD	TBD
<b>PVP</b>			
Electric heaters	PVP-HTR-00001A PVP-HTR-00001B PVP-HTR-00001C	TBD	TBD
Vessel Vent After-cooler	PVP-CLR-00001	TBD	TBD
Vessel Vent Carbon Bed Adsorbers	PVP-ADBR-00001A PVP-ADBR-00001B	TBD	TBD
Vessel Vent VOC Oxidizer unit	PVP-OXID-00001	TBD	TBD
Vessel Vent Adsorber Outlet filters	PVP-FILT-00001	TBD	TBD
Vessel Vent HEME (mist eliminator)	PVP-HEME-00001A PVP-HEME-00001B PVP-HEME-00001C	TBD	TBD
Vessel Vent Scrubbing Liquid Cooler	PVP-HX-00002	TBD	TBD
Vessel Vent Caustic Scrubber	PVP-SCB-00002	TBD	TBD
<b>PVV</b>			
Vessel Vent HEPA primary filters	PVV-HEPA-00001A PVV-HEPA-00001B	TBD	TBD
Vessel Vent HEPA secondary filters	PVV-HEPA-00002A PVV-HEPA-00002B	TBD	TBD
Vessel Vent Exhaust fans	PVV-FAN-00001A PVV-FAN-00001B	TBD	TBD
<b>CNP</b>			
Cesium evaporator Separator Vessel	CNP-EVAP-00001	TBD	TBD
Cesium evaporator concentrate reboiler	CNP-HX-00001	TBD	TBD
Cesium evaporator nitric acid rectifier column	CNP-DISTC-00001	TBD	TBD
Cesium evaporator primary condenser	CNP-HX-00002	TBD	TBD



**Table 6A-6 Example Miscellaneous Treatment Unit Schedule**

<b>Component Name</b>	<b>Plant Item Number</b>	<b>Inspection</b>	<b>Frequency</b>
Cesium evaporator inter-condenser	CNP-HX-00003	TBD	TBD
Cesium evaporator after-condenser	CNP-HX-00004	TBD	TBD
<b>LAW Vitrification Plant Miscellaneous Treatment Unit Subsystems</b>			
<b>LMP</b>			
LAW Melter 1 LAW Melter 2	LMP-MLTR-00001 LMP-MLTR-00002	Visual inspection (via cave window or CCTV if provided) for damage, leaks, or abnormalities  Inspect melter level monitoring data to prevent overflow	Daily
<b>LOP</b>			
Melter 1 and melter 2 submerged bed scrubbers	LOP-SCB-00001 LOP-SCB-00002	TBD	TBD
Melter 1 and melter 2 wet electrostatic precipitators	LOP-WESP-00001 LOP-WESP-00002	TBD	TBD
Primary/standby film coolers	LOP-FCLR-00001 LOP-FCLR-00002 LOP-FCLR-00003 LOP-FCLR-00004	TBD	TBD
<b>LVP</b>			
Melter Offgas Caustic scrubber	LVP-SCB-00001	TBD	TBD
Melter Offgas HEPA filters	LVP-HEPA-00001A LVP-HEPA-00001B LVP-HEPA-00002A LVP-HEPA-00002B LVP-HEPA-00003A	TBD	TBD
Thermal catalytic oxidizer	LVP-SCO-00001	TBD	TBD
NO <sub>x</sub> selective catalytic reduction unit	LVP-SCR-00001	TBD	TBD
Melter Offgas HEPA Preheaters	LVP-HTR-00001A LVP-HTR-00001B	TBD	TBD
Catalytic oxidizer electric heater	LVP-HTR-00002	TBD	TBD
Catalytic oxidizer heat recovery unit	LVP-HX-00001	TBD	TBD
Offgas Mercury Adsorbers	LVP-ADBR-0000A1/1B	TBD	TBD

**Table 6A-6 Example Miscellaneous Treatment Unit Schedule**

<b>Component Name</b>	<b>Plant Item Number</b>	<b>Inspection</b>	<b>Frequency</b>
Melter Offgas Exhausters	LVP-EXHR-00001A LVP-EXHR-00001B LVP-EXHR-00001C	TBD	TBD
<b>HLW Vitrification Plant Miscellaneous Treatment Unit Subsystems</b>			
<b>HMP</b>			
HLW Melter 1	HMP-MLTR-00001	Visual inspection (via cave window or CCTV if provided) for damage, leaks, or abnormalities  Inspect melter level monitoring data to prevent overflow	Daily
HLW Melter 2	HMP-MLTR-00002		
<b>HOP</b>			
Submerged Bed Scrubber	HOP-SCB-00001 HOP-SCB-00002	TBD	TBD
Wet Electrostatic Precipitators (WESP)	HOP-WESP-00001 HOP-WESP-00002	TBD	TBD
Thermal Catalytic Oxidizer	HOP-SCO-00001 HOP-SCO-00004	TBD	TBD
NOx Selective Catalytic Reduction Units	HOP-SCR-00001 HOP-SCR-00002	TBD	TBD
Silver Mordenite Columns	HOP-ABS-00002 HOP-ABS-00003	TBD	TBD
HEPA Filters	HOP-HEPA-00001A HOP-HEPA-00001B HOP-HEPA-00002A HOP-HEPA-00002B HOP-HEPA-00007A HOP-HEPA-00007B HOP-HEPA-00008A HOP-HEPA-00008B	TBD	TBD
Melter Offgas Film Coolers	HOP-FCLR-00001/3 HOP-FCLR-00002/4	TBD	TBD
Catalyst Skid Preheaters	HOP-HX-00001 HOP-HX-00003	TBD	TBD
HEPA Preheaters	HOP-HTR-00001B HOP-HTR-00002A HOP-HTR-00005A HOP-HTR-00005B	TBD	TBD

**Table 6A-6 Example Miscellaneous Treatment Unit Schedule**

<b>Component Name</b>	<b>Plant Item Number</b>	<b>Inspection</b>	<b>Frequency</b>
Catalyst Skid Electric Heaters	HOP-HTR-00007 HOP-HTR-00001		
Silver Mordenite Preheaters	HOP-HX-00002 HOP-HX-00004	TBD	TBD
Stack Extraction Fans	HOP-FAN-00008A HOP-FAN-00008B HOP-FAN-00008C HOP-FAN-00010A HOP-FAN-00010B HOP-FAN-00010C	TBD	TBD
Booster Extraction Fans	HOP-FAN-00001A HOP-FAN-00001B HOP-FAN-00001C HOP-FAN-00009A HOP-FAN-00009B HOP-FAN-00009C	TBD	TBD
Activated Carbon Adsorber	HOP-ADBR-00001A HOP-ADBR-00001B HOP-ADBR-00002A HOP-ADBR-00002B	TBD	TBD
High Efficiency Mist Eliminators (HEME)	HOP-HEME-00001A HOP-HEME-00001B HOP-HEME-00002A HOP-HEME-00002B	TBD	TBD
<b>PJV</b>			
PJV HEPA Filters	PJV-HEPA-00004A PJV-HEPA-00004B PJV-HEPA-00005A PJV-HEPA-00005B	TBD	TBD
Pulse Ventilation HEPA Electric Preheater	PJV-HTR-00002	TBD	TBD
Pulse Vent Extraction Fans	PJV-FAN-00002A PJV-FAN-00002B	TBD	TBD
<b>Effluent Management Facility Miscellaneous Treatment Unit Subsystems</b>			
<u>DEP evaporator separator</u>	<u>DEP-EVAP-00001</u>	<u>TBD</u>	<u>TBD</u>
<u>DEP evaporator reboiler</u>	<u>DEP-RBLR-00001</u>	<u>TBD</u>	<u>TBD</u>
<u>Evaporator primary condenser</u>	<u>DEP-COND-00001</u>	<u>TBD</u>	<u>TBD</u>
<u>Evaporator intercondenser</u>	<u>DEP-COND-00002</u>	<u>TBD</u>	<u>TBD</u>

**Table 6A-6 Example Miscellaneous Treatment Unit Schedule**

<b>Component Name</b>	<b>Plant Item Number</b>	<b>Inspection</b>	<b>Frequency</b>
<u>Evaporator after condenser</u>	<u>DEP-COND-00003</u>	<u>TBD</u>	<u>TBD</u>
<u>Process condensate lga storage transfer line filter</u>	<u>DEP-FILT-00002</u>	<u>TBD</u>	<u>TBD</u>
<u>Evaporator Feed prefilter</u>	<u>DEP-FILT-00003</u>	<u>TBD</u>	<u>TBD</u>
<u>Condensate duplex cartridge filter</u>	<u>DEP-FILT-00004A</u> <u>DEP-FILT-00004B</u>	<u>TBD</u>	<u>TBD</u>
<u>Feed vessel area sump pump filter</u>	<u>DEP-FILT-00005</u>	<u>TBD</u>	<u>TBD</u>
<u>Concentrate effluent cooler</u>	<u>DEP-HX-00001</u>	<u>TBD</u>	<u>TBD</u>
<u>Process Ventilation primary HEPA</u>	<u>DVP-HEPA-00003A</u> <u>DVP-HEPA-00003B</u>	<u>TBD</u>	<u>TBD</u>
<u>Process Ventilation secondary HEPA</u>	<u>DVP-HEPA-00004A</u> <u>DVP-HEPA-00004B</u>	<u>TBD</u>	<u>TBD</u>
<u>Process Ventilation Heater</u>	<u>DVP-HTR-00001A/B</u>	<u>TBD</u>	<u>TBD</u>
<u>Process Ventilation Exhauster</u>	<u>DVP-EXHR-00001A/B</u>	<u>TBD</u>	<u>TBD</u>

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2

**Table 6A-7 Example Containment Buildings Inspection Schedule**

<b>Component Name</b>	<b>Inspection</b>	<b>Frequency</b>
Containment building areas as designated in Chapter 4.0	Inspect and record in the operating record data gathered from monitoring equipment and leak detection equipment as well as the containment building and the area immediately surrounding the containment building to detect signs of releases of dangerous waste. All areas should be inspected for significant cracks, gaps, corrosion, or other signs of deterioration; look for liquids on floor. Check differential pressure monitoring records to ensure negative pressure in containment building area.	At least every seven days

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