

**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> |
|--------------------------|----------------------------|
| <u>11/29/2017</u>        | <u>8C.2017.4D</u>          |
| 09/05/2017               | 8C.2017.6F                 |
| 08/2011                  |                            |
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**CHAPTER 6A**  
**INSPECTION PLAN**

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**CHAPTER 6A**  
**INSPECTION PLAN**

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**ACRONYMS**

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

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**CHAPTER 6A  
INSPECTION PLAN**

**6A.0 INSPECTION PLAN**

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

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

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

**6A.1 GENERAL INSPECTION REQUIREMENTS**

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

**6A.1.1 Inspection Methods**

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

| <b>Methods of Inspection</b> |   |
|------------------------------|---|
| Physical                     | 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). |
| Remote                       | 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.   |
| Functional                   | 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.  |

1 Due to the radioactive nature of the waste and consistent with ALARA principles, remote inspections are  
 2 the primary method of conducting inspections for several facilities at WTP. Areas of higher radiation  
 3 have been identified for all of the operating facilities, i.e. [H](#)lab, Pretreatment, LAW vitrification area,  
 4 HLW vitrification area and EMF. Unless otherwise stated in this permit, inspections of equipment, items,  
 5 and systems are performed as physical inspections.

6 **6A.1.2 Inspection Frequencies**

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

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

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

13 **6A.1.3 Suspended Inspections**

14 When a dangerous waste management unit is no longer receiving, managing, or treating waste, the unit's  
 15 specific inspections may be suspended. During these situations, inspections can be suspended until the  
 16 affected system is placed back into dangerous waste operation. Prior to resuming dangerous waste  
 17 operations, "initial" inspections will be conducted when the system is brought back online and regularly  
 18 scheduled inspections are resumed. Inspections detailed in [Table 6A-1](#) cannot be suspended.

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

25 **6A.2 INSPECTION LOG**

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

32 Personnel performing these inspections will be appropriately trained and qualified in the system being  
 33 inspected as prescribed in Chapter 8.0, Personnel Training. When performing the inspection, the  
 34 inspector will note all observations and deficiencies on the inspection sheet. Inspection deficiencies

1 discovered by the inspector and corrective actions that have been initiated are delegated to responsible  
2 individuals in the operations group. Completed and/or suspended inspection checklists are stored in the  
3 WTP operating record for at least 5 years from the date of the inspection.

### 4 **6A.3 SCHEDULE FOR REMEDIAL ACTION FOR PROBLEMS REVEALED**

#### 5 **6A.3.1 Remedies**

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

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

### 16 **6A.4 SPECIFIC PROCESS OR WASTE TYPE INSPECTION REQUIREMENTS**

#### 17 **6A.4.1 Container Inspections**

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

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

24 Filled ILAW containers and IHLW canisters will be radioactive and thus, inspections must be performed  
25 remotely. Therefore, in lieu of conventional container inspections while the containers are in storage,  
26 each container will be inspected before and after filling, and when it is moved into and out of the ILAW  
27 and IHLW containment buildings or container storage areas. The containers will not contain free liquids,  
28 will be chemically and physically stable (not ignitable or reactive), and will have either a welded closure  
29 (IHLW) or pressed fitted closure seal (ILAW). The IHLW canisters will be placed in special racks inside  
30 the storage areas that will prevent them from toppling.

31 The WTP will inspect the ILAW and IHLW container storage or containment building areas, when they  
32 are in use, weekly by remote means. As specified in III.10.D.4.b.ii, these remotely managed storage areas  
33 are exempt from the 30-inch aisle spacing. ILAW and IHLW containers/canisters aisle spacing is  
34 anticipated to be in the range of 4 to 16 inches, as described in Chapter 4E.1.2.1 and 4F.1.2.1,  
35 respectively. [Table 6A-2 Table 6A-3a and Table 6A-4a](#) details the methods and criteria used to inspect  
36 the ILAW containers and IHLW canisters, [respectively](#).

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

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

- 1 • The location of each container in process and storage areas
- 2 • The date that waste was first placed in the container
- 3 • The date the container was shipped from the facility, and its destination
- 4 • The nature of waste in the container, including dangerous waste designation codes, and land
- 5 disposal restriction requirements

## 6 Secondary and Miscellaneous Waste in Containers

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

### 11 **6A.4.2 Tank Systems Inspections, Assessments and Corrective Actions**

#### 12 **6A.4.2.1 Tank System Inspections**

13 A description of the tank systems, and their safety and interlock controls, at the WTP can be found in  
14 Chapter 4. Access to regulated tanks for inspection and integrity assessments must be consistent with  
15 keeping radiation exposure ALARA. Each tank or grouping of identical tanks is shown as a line item in  
16 the [facility specific](#) inspection schedule, [Table 6A-3 in Table 6A-3b](#), [Table 6A-4b](#), [Table 6A-5b](#), and  
17 [Table 6A-6b](#). Each inspection item includes a description of problems to look for and the frequency of  
18 inspection. The inspection will address the tanks overfill and spill control equipment, data gathered from  
19 monitoring and leak detection equipment, construction materials, the area immediately surrounding the  
20 externally accessible portion of the tank as well as secondary containment system.

#### 21 **6A.4.2.2 Tank System Integrity Assessments**

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

27 Assessment of equipment with lower potential for corrosion and erosion with accessible areas or hot cells  
28 is made during the routine or maintenance outages and within 10 years after start of hot commissioning at  
29 selected accessible points where baseline Non-Destructive Examination (NDE) measurements had been  
30 taken. Subsequent integrity assessments will be based on the results of previous integrity assessments,  
31 the age of the equipment, materials of construction, characteristics of the waste, and any other relevant  
32 factors, but there will be no more than 10 years between integrity assessments.

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

#### 39 **6A.4.2.3 Tank Systems – Corrective Actions**

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

1 **6A.5 STORAGE OF IGNITABLE OR REACTIVE WASTES**

2 Small amounts of ignitable (D001) and reactive (D003) waste may be generated as secondary waste  
3 during maintenance and laboratory operations. Management of this waste will be performed either in Lab  
4 Pack Room (A-0139A) or Waste Drum Management Room (A-0139), in accordance with [WAC 173-303-](#)  
5 [395](#). Annual inspections of all areas managing D001 and D003 waste will be conducted by personnel  
6 familiar with the International Fire Code, or in the presence of the local, state, or federal fire marshal.  
7 The date and time of the inspection, the name of the inspector or fire marshal, a notation of the  
8 observation made, and any remedial actions, will be documented in the inspection log.

9 **6A.5.1 Secondary and Miscellaneous Waste in Containers**

10 [Container Storage Areas managing secondary and/or miscellaneous wastes are inspected at least every](#)  
11 [seven days. Inspections of container storage areas include verifying major risk labels are present and](#)  
12 [legible, that all containers are closed, and area and aisle space is free of liquid and debris. Additional](#)  
13 [inspection criteria are included in the container storage inspection tables at the end of this chapter.](#)

14 **6A.6 AIR EMISSIONS CONTROL AND DETECTION**

15 **6A.6.1 Air Emissions from Process Vents (Subpart AA)**

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

18 **6A.6.2 Air Emission Standards for Equipment Leaks (Subpart BB)**

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

24 **6A.6.3 Air Emission Standards for Tanks and Containers (Subpart CC)**

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

30 Containers or tanks bearing nonradioactive, dangerous waste, such as maintenance and laboratory waste,  
31 that are not excluded under [WAC 173-303-692\(1\)\(b\)\(ii\)](#) or [40 CFR 264.1082\(c\)](#), will comply with the  
32 container and tank standards specified under [40 CFR part 264](#) Subpart CC.  
33

**Table 6A-1 General Facility Inspections<sup>1</sup>**

| <b>Security Devices</b>   |  |                                  |                   |
|---|--|----------------------------------|-------------------|
| <u>WTP inner fence (i.e., active portion)</u>   | <u>Check for appearance, damage and tampering.</u>   | <u>Monthly</u>                   | <u>Physical</u>   |
| <u>Warning signs to read “DANGER – UNAUTHORIZED PERSONNEL KEEP OUT”</u>                           | <u>Verify signs are present, legible from a distance of 25 ft, and visible; ensure buildings or rooms containing dangerous and/or missed waste are posted.</u> |                                  |                   |
| <u>Points of access to active portions turnstiles, doors, and/or magnetic encoded bar readers</u> | <u>Verify operability</u>  | <u>Monthly</u>                   | <u>Functional</u> |
| <b>Emergency Preparedness Equipment</b>   |  |                                  |                   |
| <u>Safety showers and eyewash stations</u>  | <u>Verify operability and sufficient pressure</u>  | <u>At least every seven days</u> | <u>Physical</u>   |
| <u>Fire Detectors</u>   | <u>Check for appearance, damage or signs of tampering</u>  | <u>Semi-Annual</u>               | <u>Physical</u>   |
|   | <u>Verify operability</u>  | <u>Annually</u>                  | <u>Functional</u> |
| <u>Automatic fire suppression system(s)</u>   | <u>Verify operability</u>  | <u>Annually</u>                  | <u>Functional</u> |
| <u>Portable fire extinguishers (all types)</u>  | <u>Check for adequate charge</u>   | <u>Monthly</u>                   | <u>Physical</u>   |
| <u>Emergency and exit lighting</u>  | <u>Test operability</u>  | <u>Monthly</u>                   | <u>Functional</u> |
| <u>Spill kit and spill control equipment</u>  | <u>Verify contents complete</u>  | <u>Quarterly</u>                 | <u>Physical</u>   |
| <u>Personal protective clothing and equipment</u>   | <u>Ensure supplies meet ERP listing and requirements</u>   | <u>Quarterly</u>                 | <u>Physical</u>   |
| <b>Communications Equipment</b>   |  |                                  |                   |
| <u>Emergency sirens and alarms</u>  | <u>Verify operability</u>  | <u>Monthly</u>                   | <u>Functional</u> |
| <u>Voice paging system (pagers or PA system)</u>  |  |                                  |                   |
| <u>Emergency telephones</u>   |  |                                  |                   |
| <b>Power Supply Inspections</b>   |  |                                  |                   |
| <u>Emergency uninterruptible power supply system(s)</u>   | <u>Verify operability</u>  | <u>Annual</u>                    | <u>Functional</u> |
| <u>Emergency turbine generator</u>  | <u>Perform no-load test and verify sufficient fuel</u>   | <u>Annual</u>                    | <u>Functional</u> |

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<sup>1</sup> Applies to active portions (i.e., Laboratory) of the WTP Facility

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**Table 6A-2 Lab Inspection Plan**

**Table 6A-2a Lab Container Storage Inspections**

| <b>Dangerous and Mixed Waste Container Storage Areas</b>           |  |                                  |                 |
|--|--|----------------------------------|-----------------|
| <u>Laboratory Waste Management Areas (A-0139) (A-0139A/B/C/D)</u>  | <u>Verify major risk labels present and legible, ensure all containers are closed; Check that container storage areas are free of liquid and debris; Check for significant cracks, gaps, and other signs of deterioration of storage area floors; Verify minimum 30 inches of aisle space between containers; Verify that any dangerous and or mixed waste container holding free liquids have portable secondary containment and no liquids accumulated in portable secondary containment</u> | <u>At least every seven days</u> | <u>Physical</u> |
| <u>Container Storage areas storing ignitable or reactive waste</u> | <u>Inspect, by professional person or in the presence of a fire marshal for compliance with the International Fire code</u>  | <u>Annual</u>                    | <u>Physical</u> |

3

**Table 6A-2b Lab Tank System and Ancillary Equipment Inspections**

| <b>Analytical Laboratory Tank System:</b>  |  |                 |                           |
|--|--|-----------------|---------------------------|
| <u>RLD-VSL-00164</u><br><u>RLD-VSL-00165<sup>2</sup></u>   |  |                 |                           |
| <u>Tank level switches and transmitters</u>  | <u>Check for proper operation and review of alarm status</u> | <u>Daily</u>    | <u>Remote</u>             |
|  | <u>Check Interlock Initiation</u>                            | <u>Weekly</u>   | <u>Remote</u>             |
| <u>Spill control equipment/overflow controls</u>   | <u>Check for proper operation</u>                            | <u>Daily</u>    | <u>Remote</u>             |
| <u>Tank integrity assessment<sup>+</sup></u>   | <u>Operating history review</u>                              | <u>2 years</u>  | <u>N/A</u>                |
|  | <u>Visual inspections</u>                                    | <u>2 years</u>  | <u>Physical or Remote</u> |
|  | <u>Nondestructive examination</u>                            | <u>10 years</u> | <u>Physical</u>           |
| <b>Secondary Containment Sump Systems:</b>   |  |                 |                           |
| <u>Sumps associated with RLD-VSL-00164: RLD-SUMP-00041</u><br><u>Sumps associated with RLD-VSL-00165: RLD-SUMP-00042, -00043A/B, -00044, -00045</u>  |  |                 |                           |
| <u>Level switches and transmitters</u>   | <u>Check for proper operation and review of alarm status</u> | <u>Daily</u>    | <u>Remote</u>             |
| <u>Sump integrity assessment<sup>*</sup></u>   | <u>Operating history review</u>                              | <u>2 years</u>  | <u>N/A</u>                |
|  | <u>Visual inspection</u>                                     | <u>2 years</u>  | <u>Physical or Remote</u> |
|  | <u>Nondestructive examination<sup>3</sup></u>                | <u>10 years</u> | <u>Physical</u>           |
| <b>Leak Detection Boxes</b>  |  |                 |                           |
| <u>Leak Detection Boxes associated with RLD-VSL-00164: RLD-LDB-00005, -00006, -00007, -00008, -00011</u><br><u>Leak Detection Boxes associated with RLD-VSL-00165: RLD-LDB-00002, -00004, -00009</u> |  |                 |                           |

<sup>2</sup> Inspections apply to active portions of the facility. RLD-VSL-00165, including associated sumps and leak detection boxes, will not be active under the DFLAW configuration.

<sup>3</sup> Nondestructive examination will only be conducted for sumps that were found to have managed dangerous waste during the operating history review.

**Table 6A-2b Lab Tank System and Ancillary Equipment Inspections**

|   |   |                         |                        |
|---|---|-------------------------|------------------------|
| <a href="#">Level switches and transmitters</a> | <a href="#">Check for proper operation and review of alarm status</a> | <a href="#">Daily</a>   | <a href="#">Remote</a> |
| <a href="#">Integrity assessment</a>            | <a href="#">Operating history review</a>                              | <a href="#">2 years</a> | <a href="#">N/A</a>    |

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**Table 6A-3 Example—Low Activity Waste Inspection Plan**

**Table 6A-3a Example—LAW Containment Building and Container Storage Inspections**

|   |   |   |                               |
|---|---|---|-------------------------------|
| <p><b><a href="#">LAW Containment Rooms</a></b><br/> <b><a href="#">LAW LSM Gallery: L-0112</a></b><br/> <b><a href="#">LAW Container Finishing Line: L-0109B, L-0109C, L-0109D, L-0109E, L-0115B, L-0115C, L-0115D, L-0115D, L-0115E</a></b><br/> <b><a href="#">LAW Consumable Import/Export Containment Building: L-0119B</a></b><br/> <b><a href="#">LAW C3 Workshop Containment Building: L-0226A</a></b><br/> <b><a href="#">LAW Pour Cave Containment: L-B009B, L-B011B, L-B011E, L-B013B, L-B013C, L-B015A</a></b><br/> <b><a href="#">ILAW Container Buffer Storage Containment Building: L-B025C, L-B025D</a></b></p> |   |   |                               |
| <b><a href="#">Item</a></b>   | <b><a href="#">Inspection</a></b>   | <b><a href="#">Frequency</a></b>                                    | <b><a href="#">Method</a></b> |
| <a href="#">Building exterior</a>   | <a href="#">Inspect the area immediately surrounding the containment building to detect signs of releases of dangerous waste</a>  | <a href="#">At least every seven days</a>                           | <a href="#">Physical</a>      |
| <a href="#">Interior rooms</a>  | <a href="#">Inspect floor and walls for significant cracks, gaps, corrosion, or other signs of deterioration; look for liquids on floor</a><br><a href="#">Check differential pressure monitoring records to ensure negative pressure in containment building area</a>  |   |                               |
| <a href="#">Container Storage areas storing ignitable or reactive waste</a>   | <a href="#">Inspect, by professional person or in the presence of a fire marshal for compliance with the International Fire code</a>  | <a href="#">Annual</a>  | <a href="#">Physical</a>      |
| <b><a href="#">Immobilized ILAW Container Storage in Containment Buildings</a></b>  |   |   |                               |
| <a href="#">ILAW containers</a>   | <a href="#">Inspect that unique alphanumeric identifier is welded to ILAW container and is legible</a>  | <a href="#">Prior to placing in storage</a>                         | <a href="#">Remote</a>        |
| <a href="#">Filled ILAW containers<sup>4</sup></a>  | <a href="#">Inspect each container for cracks, leaks, bulges, or other abnormalities</a>  | <a href="#">After sealing container</a>                             | <a href="#">Remote</a>        |
|   | <a href="#">Record in tracking system each container's location when placed in storage;</a><br><a href="#">Record in tracking system all container location changes if container(s) are moved while in storage;</a><br><a href="#">Verify container in recorded location when transporting container out of WTP storage</a> | <a href="#">Within 48 hours of placing or moving each container</a> | <a href="#">Remote</a>        |

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<sup>4</sup> Direct access to containers of ILAW for the purposes of inspection is precluded due to high radioactivity levels; therefore, ILAW containers are exempt from the 30-inch aisle requirements (III.10.D.4.b.ii)



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| <b>Table 6A-3b Example—LAW Tank System and Ancillary Equipment Inspections</b> |  |                  |               |
|--|--|------------------|---------------|
| <b>Component Name</b>  |  |                  |               |
| <u>LCP: LCP-VSL-00001, -00002</u>  |  |                  |               |
| <u>LFP: LFP-VSL-00001, -00002, -00003, -00004</u>                              |  |                  |               |
| <u>LVP: LVP-TK-00002</u>   |  |                  |               |
| <u>LOP: LOP-VSL-00001, -00002</u>  |  |                  |               |
| <u>RLD: RLD-VSL-00003, -00004, -00005</u>                                      |  |                  |               |
| <u>Item</u>  | <u>Types of Problems/Inspections</u>                         | <u>Frequency</u> | <u>Method</u> |
| <u>Tank level switches and transmitters</u>                                    | <u>Check for proper operation and review of alarm status</u> | <u>Daily</u>     | <u>Remote</u> |
|  | <u>Check interlock initiation</u>                            | <u>Weekly</u>    | <u>Remote</u> |
| <u>Spill control equipment/overflow controls</u>                               | <u>Check for proper operation</u>                            | <u>Daily</u>     | <u>Remote</u> |
| <u>Tank integrity assessment</u>   | <u>Operating history review</u>                              | <u>TBD</u>       | <u>TBD</u>    |
|  | <u>Visual inspections</u>                                    | <u>TBD</u>       | <u>TBD</u>    |
|  | <u>Nondestructive examination</u>                            | <u>TBD</u>       | <u>TBD</u>    |
| <b>Secondary Containment Sump System:</b>                                      |  |                  |               |
| <u>Level switches and transmitters</u>   | <u>Check for proper operation and review of alarm status</u> | <u>Daily</u>     | <u>Remote</u> |
| <u>Sump integrity assessment</u>   | <u>Operating history review</u>                              | <u>TBD</u>       | <u>TBD</u>    |
|  | <u>Visual inspection</u>                                     | <u>TBD</u>       | <u>TBD</u>    |
|  | <u>Nondestructive examination</u>                            | <u>TBD</u>       | <u>TBD</u>    |

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| <b>Table 6A-3c Example—LAW Miscellaneous Treatment Unit Inspections</b> |                          |   |                  |               |
|---|--------------------------|---|------------------|---------------|
| <u>Item</u>   | <u>Plant Item number</u> | <u>Types of Problems/Inspections</u>                            | <u>Frequency</u> | <u>Method</u> |
| <b>LAW Melter Process System (LMP)</b>                                  |                          |   |                  |               |
| <u>LAW melter 1</u>   | <u>LMP-MLTR-00001</u>    | <u>Check for damage, leaks, or abnormalities</u>                | <u>Daily</u>     | <u>Remote</u> |
| <u>LAW melter 2</u>   | <u>LMP-MLTR-00002</u>    |   |                  |               |
|   |                          | <u>Inspect melter level monitoring data to prevent overflow</u> |                  |               |
| <b>LAW Primary Offgas Process System (LOP)</b>                          |                          |   |                  |               |
| <u>Melter 1 and melter 2 submerged bed scrubbers</u>                    | <u>LOP-SCB-00001</u>     | <u>TBD</u>  | <u>TBD</u>       | <u>Remote</u> |
|   | <u>LOP-SCB-00002</u>     |   |                  |               |
| <u>Melter 1 and melter 2 wet electrostatic precipitators</u>            | <u>LOP-WESP-00001</u>    | <u>TBD</u>  | <u>TBD</u>       | <u>Remote</u> |
|   | <u>LOP-WESP-00002</u>    |   |                  |               |
| <u>Primary/standby film coolers</u>                                     | <u>LOP-FCLR-00001</u>    | <u>TBD</u>  | <u>TBD</u>       | <u>Remote</u> |
|   | <u>LOP-FCLR-00002</u>    |   |                  |               |
|   | <u>LOP-FCLR-00003</u>    |   |                  |               |
|   | <u>LOP-FCLR-00004</u>    |   |                  |               |
| <b>LAW Secondary Offgas/Vessel Vent Process (LVP)</b>                   |                          |   |                  |               |
| <u>Melter offgas caustic scrubber</u>                                   | <u>LVP-SCB-00001</u>     | <u>TBD</u>  | <u>TBD</u>       | <u>Remote</u> |
| <u>Melter offgas HEPA</u>   | <u>LVP-HEPA-00001A/B</u> | <u>TBD</u>  | <u>TBD</u>       | <u>Remote</u> |

**Table 6A-3c Example—LAW Miscellaneous Treatment Unit Inspections**

| <u>Item</u>  | <u>Plant Item number</u>                            | <u>Types of Problems/Inspections</u> | <u>Frequency</u> | <u>Method</u> |
|--|---|--------------------------------------|------------------|---------------|
| <u>filters</u>   | <u>LVP-HEPA-00002A/2B</u><br><u>LVP-HEPA-00003A</u> |                                      |                  |               |
| <u>Thermal catalytic oxidizer</u>                        | <u>LVP-SCO-00001</u>                                | <u>TBD</u>                           | <u>TBD</u>       | <u>Remote</u> |
| <u>NO<sub>x</sub> selective catalytic reduction unit</u> | <u>LVP-SCR-00001</u>                                | <u>TBD</u>                           | <u>TBD</u>       | <u>Remote</u> |
| <u>Melter offgas HEPA preheaters</u>                     | <u>LVP-HTR-00001A/1B</u>                            | <u>TBD</u>                           | <u>TBD</u>       | <u>Remote</u> |
| <u>Catalytic oxidizer electric heater</u>                | <u>LVP-HTR-00002</u>                                | <u>TBD</u>                           | <u>TBD</u>       | <u>Remote</u> |
| <u>Catalytic oxidizer heat recovery unit</u>             | <u>LVP-HX-00001</u>                                 | <u>TBD</u>                           | <u>TBD</u>       | <u>Remote</u> |
| <u>Offgas mercury adsorbers</u>                          | <u>LVP-ADBR-00001A/1B</u>                           | <u>TBD</u>                           | <u>TBD</u>       | <u>Remote</u> |
| <u>Melter offgas exhausters</u>                          | <u>LVP-EXHR-00001A/1B/1C</u>                        | <u>TBD</u>                           | <u>TBD</u>       | <u>Remote</u> |

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**Table 6A-4 Example—Effluent Management Facility Inspection Plan**

**Table 6A-4a Example—EMF Containment Building and Container Storage Inspections**

| <u>Item</u>  | <u>Inspection</u>  | <u>Frequency</u>                 | <u>Method</u>   |
|--|--|----------------------------------|-----------------|
| <u>Building exterior</u>   | <u>Inspect the area immediately surrounding the containment building to detect signs of releases of dangerous waste</u>  |                                  |                 |
| <u>Interior rooms</u>  | <u>Inspect floor and walls for significant cracks, gaps, corrosion, or other signs of deterioration; look for liquids on floor</u><br><u>Check differential pressure monitoring records to ensure negative pressure in containment building area</u> | <u>At least every seven days</u> | <u>Physical</u> |
| <u>Container Storage areas storing ignitable or reactive waste</u> | <u>Inspect, by professional person or in the presence of a fire marshal for compliance with the International Fire code</u>  | <u>Annual</u>                    | <u>Physical</u> |

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**Table 6A-4b Example—EMF Tank System and Ancillary Equipment Inspections**

| <u>Component Name</u>   | <u>Types of Problems/Inspections</u>                         | <u>Frequency</u> | <u>Method</u> |
|---|--|------------------|---------------|
| <u>DEP: DEP-VSL-00001, -00002, -00003A, -00003B, -00003C, 00004A, -00004B, -00005A, -00005B</u> |  |                  |               |
| <u>Tank level switches and transmitters</u>   | <u>Check for proper operation and review of alarm status</u> | <u>Daily</u>     | <u>Remote</u> |
| <u>Spill control equipment/overflow controls</u>  | <u>Check interlock initiation</u>                            | <u>Weekly</u>    | <u>Remote</u> |
| <u>Tank integrity assessment</u>  | <u>Check for proper operation</u>                            | <u>Daily</u>     | <u>Remote</u> |
|   | <u>Operating history review</u>                              | <u>TBD</u>       | <u>TBD</u>    |
|   | <u>Visual inspections</u>                                    | <u>TBD</u>       | <u>TBD</u>    |
| <u>Secondary Containment Sump System:</u>   |  |                  |               |
| <u>Level switches and</u>   | <u>Check for proper operation and review of alarm status</u> | <u>Daily</u>     | <u>Remote</u> |

**Table 6A-4b Example—EMF Tank System and Ancillary Equipment Inspections**

| <u>Component Name</u>   | <u>Types of Problems/Inspections</u> | <u>Frequency</u> | <u>Method</u> |
|---|--------------------------------------|------------------|---------------|
| <u>DEP: DEP-VSL-00001, -00002, -00003A, -00003B, -00003C, 00004A, -00004B, -00005A, -00005B</u> |                                      |                  |               |
| <u>transmitters</u>   |                                      |                  |               |
| <u>Sump integrity assessment</u>  | <u>Operating history review</u>      | <u>TBD</u>       | <u>TBD</u>    |
|   | <u>Visual inspection</u>             | <u>TBD</u>       | <u>TBD</u>    |
|   | <u>Nondestructive examination</u>    | <u>TBD</u>       | <u>TBD</u>    |

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**Table 6A-4c Example—EMF Miscellaneous Treatment Unit Inspections**

| <u>Item</u>  | <u>Plant Item number</u>                         | <u>Types of Problems/Inspections</u> | <u>Frequency</u> | <u>Method</u> |
|--|--|--------------------------------------|------------------|---------------|
| <u>DEP evaporator separator</u>                            | <u>DEP-EVAP-00001</u>                            | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>DEP evaporator reboiler</u>                             | <u>DEP-RBLR-00001</u>                            | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Evaporator primary condenser</u>                        | <u>DEP-COND-00001</u>                            | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Evaporator intercondenser</u>                           | <u>DEP-COND-00002</u>                            | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Evaporator after condenser</u>                          | <u>DEP-COND-00003</u>                            | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Process condensate lag storage transfer line filter</u> | <u>DEP-FILT-00002</u>                            | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Evaporator Feed prefilter</u>                           | <u>DEP-FILT-00003</u>                            | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Condensate duplex cartridge filter</u>                  | <u>DEP-FILT-00004A</u><br><u>DEP-FILT-00004B</u> | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Concentrate effluent cooler</u>                         | <u>DEP-HX-00001</u>                              | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Process Ventilation primary HEPA</u>                    | <u>DVP-HEPA-00003A</u><br><u>DVP-HEPA-00003B</u> | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Process Ventilation secondary HEPA</u>                  | <u>DVP-HEPA-00004A</u><br><u>DVP-HEPA-00004B</u> | <u>TBD</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>TBD</u>    |
| <u>Process Ventilation Exhauster</u>                       | <u>DVP-EXHR-00001A/B</u>                         | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |

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**Table 6A-5 Example—High Level Waste Inspection Plan**

| <b>Table 6A-5a Example—HLW Containment Building and Container Storage Inspections</b> |  |  |                 |
|---|--|--|-----------------|
| <u>Item</u>   | <u>Inspection</u>  | <u>Frequency</u>   | <u>Method</u>   |
| <b><u>Containment Building Inspections</u></b>  |  |  |                 |
| <u>Building exterior</u>  | <u>Inspect the area immediately surrounding the containment building to detect signs of releases of dangerous waste</u>  | <u>At least every seven days</u>                           | <u>Physical</u> |
| <u>Interior rooms</u>   | <u>Inspect floor and walls for significant cracks, gaps, corrosion, or other signs of deterioration; look for liquids on floor</u>   |  |                 |
|   | <u>Check differential pressure monitoring records to ensure negative pressure in containment building area</u>   |  |                 |
| <b><u>Dangerous and/or Mixed Waste Container Storage Inspections</u></b>              |  |  |                 |
| <u>HLW east corridor (HC-0108/0109/0110)</u><br><u>HLW loading area (H-0130)</u>      | <u>Verify major risk labels present and legible, ensure all containers are closed; Check that container storage areas are free of liquid and debris; Check for significant cracks, gaps, and other signs of deterioration of storage area floors; Verify minimum 30 inches of aisle space between containers; Verify that any dangerous and or mixed waste container holding free liquids have portable secondary containment and no liquids accumulated in portable secondary containment</u> | <u>At least every seven days when in use</u>               | <u>Physical</u> |
| <u>Container Storage areas storing ignitable or reactive waste</u>                    | <u>Inspect, by professional person or in the presence of a fire marshal for compliance with the International Fire code</u>  | <u>Annual</u>  | <u>Physical</u> |
| <b><u>HLW Vitrification Plant Canister Storage Area</u></b>                           |  |  |                 |
| <u>IHLW canisters</u>   | <u>Inspect that unique alphanumeric identifier is welded to IHLW canister and is legible</u>   | <u>Prior to placing in storage</u>                         | <u>Remote</u>   |
| <u>Filled IHLW canisters<sup>5</sup></u>  | <u>Inspect each container for cracks, leaks, bulges, or other abnormalities</u>  | <u>After sealing container</u>                             | <u>Remote</u>   |
|   | <u>Record in tracking system each container's location when placed in storage;</u><br><u>Record in tracking system all container location changes if container(s) are moved while in storage;</u><br><u>Verify container in recorded location when transporting container out of WTP storage</u>   | <u>Within 48 hours of placing or moving each container</u> | <u>Remote</u>   |
| <u>IHLW canister storage cave (H-0132)</u>  | <u>Inspect for deformities in storage area floors or debris in storage area</u>  | <u>At least every seven days when in use</u>               | <u>Remote</u>   |

2 <sup>5</sup> Direct access to IHLW for the purposes of inspection is precluded due to high radioactivity levels; therefore, IHLW canisters  
 3 are exempt from the 30-inch aisle space requirements (III.10.D.4.b.ii).  
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**Table 6A-5b Example—HLW Tank System and Ancillary Equipment Inspections**

|   |
|---|
| <p><b><u>High Level Waste Tank System:</u></b><br/> <b><u>HOP:</u></b> HOP-VSL-00903, -00904<br/> <b><u>HDH:</u></b> HDH-VSL-00001, -000002, -000003, -00004<br/> <b><u>RLD:</u></b> RLD-VSL-00002, -00007, -00008<br/> <b><u>HFP:</u></b> HFP-VSL-00001, -00002, -00005, -00006<br/> <b><u>HSB:</u></b> HSH-TK-00001, -00002</p> |
|---|

| <u>Item</u>                                      | <u>Types of Problems/Inspections</u>                         | <u>Frequency</u> | <u>Method</u> |
|--|--|------------------|---------------|
| <u>Tank level switches and transmitters</u>      | <u>Check for proper operation and review of alarm status</u> | <u>Daily</u>     | <u>Remote</u> |
|  | <u>Check Interlock Initiation</u>                            | <u>Weekly</u>    | <u>Remote</u> |
| <u>Spill control equipment/overflow controls</u> | <u>Check for proper operation</u>                            | <u>Daily</u>     | <u>Remote</u> |
| <u>Tank integrity assessment</u>                 | <u>Operating history review</u>                              | <u>TBD</u>       | <u>TBD</u>    |
|  | <u>Visual inspections</u>                                    | <u>TBD</u>       | <u>TBD</u>    |
|  | <u>Nondestructive examination</u>                            | <u>TBD</u>       | <u>TBD</u>    |
| <b><u>Secondary Containment Sump System:</u></b> |  |                  |               |
| <u>Level switches and transmitters</u>           | <u>Check for proper operation and review of alarm status</u> | <u>Daily</u>     | <u>Remote</u> |
| <u>Sump integrity assessment</u>                 | <u>Operating history review</u>                              | <u>TBD</u>       | <u>TBD</u>    |
|  | <u>Visual inspection</u>                                     | <u>TBD</u>       | <u>TBD</u>    |
|  | <u>Nondestructive examination</u>                            | <u>TBD</u>       | <u>TBD</u>    |

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**Table 6A-5c Example—HLW Miscellaneous Treatment Unit Inspections**

| <u>Item</u>  | <u>Plant Item number</u> | <u>Types of Problems/Inspections</u>  | <u>Frequency</u> | <u>Method</u> |
|--|--------------------------|---|------------------|---------------|
| <b><u>LAW Melter Process System (LMP)</u></b>              |                          |   |                  |               |
| <u>HLW melter 1</u><br><u>HLW melter 2</u>                 | <u>HMP-MLTR-00001</u>    | <u>Check for damage, leaks, or abnormalities</u><br><u>Inspect melter level monitoring data to prevent overflow</u> | <u>Daily</u>     | <u>Remote</u> |
|  | <u>HMP-MLTR-00002</u>    |   |                  |               |
| <b><u>Melter Offgas Treatment Process System (HOP)</u></b> |                          |   |                  |               |
| <u>Submerged bed scrubber</u>                              | <u>HOP-SCB-00001</u>     | <u>TBD</u>  | <u>TBD</u>       | <u>TBD</u>    |
|  | <u>HOP-SCB-00002</u>     |   |                  |               |
| <u>Wet electrostatic precipitators (WESP)</u>              | <u>HOP-WESP-00001</u>    | <u>TBD</u>  | <u>TBD</u>       | <u>TBD</u>    |
|  | <u>HOP-WESP-00002</u>    |   |                  |               |
| <u>Thermal catalytic oxidizer</u>                          | <u>HOP-SCO-00001</u>     | <u>TBD</u>  | <u>TBD</u>       | <u>TBD</u>    |
|  | <u>HOP-SCO-00004</u>     |   |                  |               |
| <u>NOx selective catalytic reduction units</u>             | <u>HOP-SCR-00001</u>     | <u>TBD</u>  | <u>TBD</u>       | <u>TBD</u>    |
|  | <u>HOP-SCR-00002</u>     |   |                  |               |
| <u>Silver mordenite columns</u>                            | <u>HOP-ABS-00002</u>     | <u>TBD</u>  | <u>TBD</u>       | <u>TBD</u>    |
|  | <u>HOP-ABS-00003</u>     |   |                  |               |
| <u>HEPA filters</u>  | <u>HOP-HEPA-00001A/B</u> | <u>TBD</u>  | <u>TBD</u>       | <u>TBD</u>    |
|  | <u>HOP-HEPA-00002A/B</u> |   |                  |               |
|  | <u>HOP-HEPA-00007A/B</u> |   |                  |               |
|  | <u>HOP-HEPA-00008A/B</u> |   |                  |               |
| <u>Melter offgas film coolers</u>                          | <u>HOP-FCLR-00001/3</u>  | <u>TBD</u>  | <u>TBD</u>       | <u>TBD</u>    |
|  | <u>HOP-FCLR-00002/4</u>  |   |                  |               |
| <u>Catalyst skid preheaters</u>                            | <u>HOP-HX-00001</u>      | <u>TBD</u>  | <u>TBD</u>       | <u>TBD</u>    |
|  | <u>HOP-HX-00003</u>      |   |                  |               |

**Table 6A-5c Example—HLW Miscellaneous Treatment Unit Inspections**

| <u>Item</u>  | <u>Plant Item number</u>   | <u>Types of Problems/Inspections</u> | <u>Frequency</u> | <u>Method</u> |
|--|--|--------------------------------------|------------------|---------------|
| <u>HEPA preheaters</u>                               | <u>HOP-HTR-00001B</u><br><u>HOP-HTR-00002A</u><br><u>HOP-HTR-00005A</u><br><u>HOP-HTR-00005B</u>   | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Catalyst skid electric Heaters</u>                | <u>HOP-HTR-00007</u><br><u>HOP-HTR-00001</u>   | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Silver mordenite preheaters</u>                   | <u>HOP-HX-00002</u><br><u>HOP-HX-00004</u>   | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Stack extraction fans</u>                         | <u>HOP-FAN-00008A</u><br><u>HOP-FAN-00008B</u><br><u>HOP-FAN-00008C</u><br><u>HOP-FAN-00010A</u><br><u>HOP-FAN-00010B</u><br><u>HOP-FAN-00010C</u> | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Booster extraction fans</u>                       | <u>HOP-FAN-00001A/B/C</u><br><u>HOP-FAN-00009A/B/C</u>   | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Activated carbon adsorber</u>                     | <u>HOP-ADBR-00001A/B</u><br><u>HOP-ADBR-00002A/B</u>   | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>High efficiency mist eliminators (HEME)</u>       | <u>HOP-HEME-00001A/B</u><br><u>HOP-HEME-00002A/B</u>   | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <b><u>HLW Pulse Jet Ventilation System (PJV)</u></b> |  |                                      |                  |               |
| <u>PJV HEPA filters</u>                              | <u>PJV-HEPA-00004A/B</u><br><u>PJV-HEPA-00005A/B</u>   | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Pulse ventilation HEPA electric preheater</u>     | <u>PJV-HTR-00002</u>   | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Pulse vent extraction Fans</u>                    | <u>PJV-FAN-00002A/B</u>  | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |

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**Table 6A-6 Example—Pretreatment Facility Inspection Plan**

**Table 6A-6a Example—PT Containment Building Inspections**

| <b><u>Pretreatment Hot Cell Containment Building: P-0123</u></b>  |  |                                  |                 |  |
|---|--|----------------------------------|-----------------|--|
| <b><u>Pretreatment Maintenance Containment Rooms: PM0124, P-0121A, P-0421A, P-0122A, P-0122A, P-0123A, P-0124, P-124A, P-0125, P-0125A, P-0128A, P-0128</u></b> |  |                                  |                 |  |
| <b><u>Pretreatment Filter Package Maintenance Containment Room: P-0223</u></b>  |  |                                  |                 |  |
| <b><u>Pretreatment Filter Cave Room: P-0335</u></b>   |  |                                  |                 |  |
| <b><u>Decon Chamber: P-0335A</u></b>  |  |                                  |                 |  |
| <b><u>General Filter Room: P-0431A</u></b>  |  |                                  |                 |  |
| <u>Item</u>   | <u>Inspection</u>  | <u>Frequency</u>                 | <u>Method</u>   |  |
| <u>Building exterior</u>  | <u>Inspect the area immediately surrounding the containment building to detect signs of releases of dangerous waste</u>            | <u>At least every seven days</u> | <u>Physical</u> |  |
| <u>Interior rooms</u>   | <u>Inspect floor and walls for significant cracks, gaps, corrosion, or other signs of deterioration; look for liquids on floor</u> |                                  |                 |  |

**Table 6A-6a Example—PT Containment Building Inspections**

|  |   |  |  |
|--|---|--|--|
|  | <a href="#">Check differential pressure monitoring records to ensure negative pressure in containment building area</a> |  |  |
|--|---|--|--|

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**Table 6A-6b Example—PT Tank System and Ancillary Equipment Inspections**

**Pretreatment Facility Tank System:**  
**FRP:** [FRP-VSL-00002A, -00002B, -00002C, -00002D](#)  
**FEP:** [FEP-VSL-00017A, -00017B, -00005](#)  
**HLP:** [HLP-VSL-00027A, -00027B, -00022, -00028](#)  
**UFP:** [UFP-VSL-00001A, -00001B, -00002A, -00002B, -00062A, -00062B, -00062C, 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](#)  
**CXP:** [CXP-VSL-00001, CXP-IXC-00001, CXP-IXC-00002, CXP-IXC-00003, CXP-IXC-00004, CXP-VSL-00005, CXP-VSL-00004, CXP-VSL-00026A, CXP-VSL-00026B, CXP-VSL-00026C](#)  
**CNP:** [CNP-VSL-00001, -00004, -00003](#)  
**PVP:** [PVP-VSL-00001](#)  
**PWD:** [PWD-VSL-00033, -00044, -00015, -00016, -00046, -00043](#)  
**TLP:** [TLP-VSL-00002, -00009A, -00009B](#)  
**TCP:** [TCP-VSL-00001](#)  
**RDP:** [RDP-VSL-00002A, -00002B, -00002C, -00004](#)  
**RLD:** [RDP-TK-00006A, -00006B, -00017A, -00017B](#)  
**PIH:** [PIK-TK-00001](#)

| <u>Item</u>   | <u>Types of Problems/Inspections</u>                                  | <u>Frequency</u>       | <u>Method</u>          |
|---|---|------------------------|------------------------|
| <a href="#">Tank level switches and transmitters</a>      | <a href="#">Check for proper operation and review of alarm status</a> | <a href="#">Daily</a>  | <a href="#">Remote</a> |
|   | <a href="#">Check Interlock Initiation</a>                            | <a href="#">Weekly</a> | <a href="#">Remote</a> |
| <a href="#">Spill control equipment/overflow controls</a> | <a href="#">Check for proper operation</a>                            | <a href="#">Daily</a>  | <a href="#">Remote</a> |
| <a href="#">Tank integrity assessment</a>                 | <a href="#">Operating History Review</a>                              | <a href="#">TBD</a>    | <a href="#">TBD</a>    |
|   | <a href="#">Visual Inspections</a>                                    | <a href="#">TBD</a>    | <a href="#">TBD</a>    |
|   | <a href="#">Nondestructive examination</a>                            | <a href="#">TBD</a>    | <a href="#">TBD</a>    |
| <b><u>Secondary Containment Sump System:</u></b>          |   |                        |                        |
| <a href="#">Level switches and transmitters</a>           | <a href="#">Check for proper operation and review of alarm status</a> | <a href="#">Daily</a>  | <a href="#">Remote</a> |
| <a href="#">Sump integrity assessment</a>                 | <a href="#">Operating History Review</a>                              | <a href="#">TBD</a>    | <a href="#">TBD</a>    |
|   | <a href="#">Visual Inspection</a>                                     | <a href="#">TBD</a>    | <a href="#">TBD</a>    |
|   | <a href="#">Nondestructive examination</a>                            | <a href="#">TBD</a>    | <a href="#">TBD</a>    |

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**Table 6A-6c Example—PT Miscellaneous Treatment Unit Inspections**

| <u>Item</u>   | <u>Plant Item number</u>       | <u>Types of Problems/Inspections</u>                                     | <u>Frequency</u>      | <u>Method</u>       |
|---|--------------------------------|--|-----------------------|---------------------|
| <b><u>Treated LAW Process System (TLP)</u></b>          |                                |  |                       |                     |
| <a href="#">Treated LAW evaporator separator vessel</a> | <a href="#">TLP-SEP-00001</a>  | <a href="#">Inspect vessel level monitoring data to prevent overflow</a> | <a href="#">Daily</a> | <a href="#">TBD</a> |
| <a href="#">Treated LAW reboiler</a>                    | <a href="#">TLP-RBLR-00001</a> | <a href="#">TBD</a>  | <a href="#">TBD</a>   | <a href="#">TBD</a> |
| <a href="#">Treated LAW primary</a>                     | <a href="#">TLP-COND-00001</a> | <a href="#">TBD</a>  | <a href="#">TBD</a>   | <a href="#">TBD</a> |

**Table 6A-6c Example—PT Miscellaneous Treatment Unit Inspections**

| <u>Item</u>   | <u>Plant Item number</u>   | <u>Types of Problems/Inspections</u> | <u>Frequency</u> | <u>Method</u> |
|---|--|--------------------------------------|------------------|---------------|
| <u>condenser</u>  |  |                                      |                  |               |
| <u>Treated LAW inter-condenser</u>                            | <u>TLP-COND-00003</u>  | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Treated LAW after-Condenser</u>                            | <u>TLP-COND-00002</u>  | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <b><u>Waste Feed Evaporator Feed Process System (FEP)</u></b> |  |                                      |                  |               |
| <u>Waste feed evaporator Separator vessels</u>                | <u>FEP-SEP-00001A</u><br><u>FEP-SEP-00001B</u>   | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Waste feed evaporator reboilers</u>                        | <u>FEP-RBLR-00001A</u><br><u>FEP-RBLR-00001B</u>   | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Waste feed evaporator primary condensers</u>               | <u>FEP-COND-00001A</u><br><u>FEP-COND-00001B</u>   | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Waste feed evaporator inter-condensers</u>                 | <u>FEP-COND-00002A</u><br><u>FEP-COND-00002B</u>   | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Waste feed evaporator after-condensers</u>                 | <u>FEP-COND-00003A</u><br><u>FEP-COND-00003B</u>   | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <b><u>Pulse Jet Ventilation (PJV)</u></b>                     |  |                                      |                  |               |
| <u>PJV primary HEPA filters</u>                               | <u>PJV-HEPA-00001A</u><br><u>PJV-HEPA-00001B</u><br><u>PJV-HEPA-00001C</u><br><u>PJV-HEPA-00001D</u><br><u>PJV-HEPA-00001E</u><br><u>PJV-HEPA-00001F</u><br><u>PJV-HEPA-00001G</u> | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>PJV secondary exhaust HEPA filters</u>                     | <u>PJV-HEPA-00002A</u><br><u>PJV-HEPA-00002B</u><br><u>PJV-HEPA-00002C</u><br><u>PJV-HEPA-00002D</u><br><u>PJV-HEPA-00002E</u><br><u>PJV-HEPA-00002F</u>                           | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>PJV exhaust fans</u>                                       | <u>PJV-FAN-00001A</u><br><u>PJV-FAN-00001B</u><br><u>PJV-FAN-00001C</u>  | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>PJV demisters</u>  | <u>PJV-DMST-00002A</u><br><u>PJV-DMST-00002B</u><br><u>PJV-DMST-00002C</u>   | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <b><u>Pretreatment Vessel Vent Process System (PVP)</u></b>   |  |                                      |                  |               |
| <u>Electric heaters</u>                                       | <u>PVP-HTR-00001A</u><br><u>PVP-HTR-00001B</u><br><u>PVP-HTR-00001C</u>  | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Vessel vent after-cooler</u>                               | <u>PVP-CLR-00001</u>   | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Vessel vent carbon bed adsorbers</u>                       | <u>PVP-ADBR-00001A</u>   | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |



**Table 6A-6c Example—PT Miscellaneous Treatment Unit Inspections**

| <u>Item</u>   | <u>Plant Item number</u>   | <u>Types of Problems/Inspections</u> | <u>Frequency</u> | <u>Method</u> |
|---|--|--------------------------------------|------------------|---------------|
|   | <u>PVP-ADBR-00001B</u>   |                                      |                  |               |
| <u>Vessel vent VOC oxidizer unit</u>                                    | <u>PVP-OXID-00001</u>  | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Vessel vent adsorber outlet filters</u>                              | <u>PVP-FILT-00001</u>  | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Vessel vent HEME (mist eliminator)</u>                               | <u>PVP-HEME-00001A</u><br><u>PVP-HEME-00001B</u><br><u>PVP-HEME-00001C</u> | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Vessel vent scrubbing liquid cooler</u>                              | <u>PVP-HX-00002</u>  | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Vessel vent caustic scrubber</u>                                     | <u>PVP-SCB-00002</u>   | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <b><u>Pretreatment Vessel Vent Process and Exhaust System (PVV)</u></b> |  |                                      |                  |               |
| <u>Vessel vent HEPA primary filters</u>                                 | <u>PVV-HEPA-00001A</u><br><u>PVV-HEPA-00001B</u>                           | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Vessel vent HEPA secondary filters</u>                               | <u>PVV-HEPA-00002A</u><br><u>PVV-HEPA-00002B</u>                           | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Vessel vent exhaust fans</u>   | <u>PVV-FAN-00001A</u><br><u>PVV-FAN-00001B</u>                             | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <b><u>Cesium Nitric Acid Recovery Process System (CNP)</u></b>          |  |                                      |                  |               |
| <u>Cesium evaporator separator vessel</u>                               | <u>CNP-EVAP-00001</u>  | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Cesium evaporator concentrate reboiler</u>                           | <u>CNP-HX-00001</u>  | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Cesium evaporator nitric acid rectifier column</u>                   | <u>CNP-DISTC-00001</u>   | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |
| <u>Cesium evaporator primary condenser</u>                              | <u>CNP-HX-00002</u>  | <u>TBD</u>                           | <u>TBD</u>       | <u>TBD</u>    |

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**Table 6A-7 Example—Balance of Facilities Inspection Plan**

**Table 6A-7a Example—BOF Container Storage Inspections**

| <u>Item</u>   | <u>Inspection</u>  | <u>Frequency</u>                 | <u>Method</u>   |
|---|--|----------------------------------|-----------------|
| <b><u>Dangerous and Mixed Waste Container Storage Areas</u></b> |  |                                  |                 |
| <u>Failed melter storage area</u>                               | <u>Verify major risk labels present and legible, ensure all containers are closed; Check that container storage areas are free of liquid and debris; Check for significant cracks, gaps, and other signs of deterioration of storage area floors; Verify minimum 30 inches of aisle space between containers; Verify that any dangerous and or mixed waste container holding free liquids have portable secondary containment and no liquids accumulated in portable secondary containment</u> | <u>At least every seven days</u> | <u>Physical</u> |
| <u>Non-radioactive dangerous waste container storage area</u>   | <u>Verify major risk labels present and legible, ensure all containers are closed; Check that container storage areas are free of liquid and debris; Check for significant cracks, gaps,</u>   | <u>At least every seven days</u> | <u>Physical</u> |

**Table 6A-7a Example—BOF Container Storage Inspections**

|   |   |               |                 |
|---|---|---------------|-----------------|
|   | <u>and other signs of deterioration of storage area floors; Verify minimum 30 inches of aisle space between containers; Verify that any dangerous and or mixed waste container holding free liquids have portable secondary containment and no liquids accumulated in portable secondary containment.</u> |               |                 |
| <u>Non-radioactive dangerous waste container storage area storing ignitable or reactive waste</u> | <u>Inspect, by professional person or in the presence of a fire marshal for compliance with the International Fire code.</u>  | <u>Annual</u> | <u>Physical</u> |

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**Table 6A-7b Example—BOF Cathodic Protection Schedule-Dangerous Waste Transfer Lines**

| <u>Item</u>  | <u>Inspection</u>               | <u>Frequency</u>   |
|--|---------------------------------|--|
| <u>Cathodic protection systems for dangerous and mixed waste transfer lines</u>                                    | <u>Verify proper operation</u>  | <u>Initial (less than 6 months after installation)</u>       |
|  |                                 | <u>Annual (from date of initial installation inspection)</u> |
| <u>All sources of impressed current supporting cathodically protected dangerous and mixed waste transfer lines</u> | <u>Test for proper function</u> | <u>Bi-Monthly</u>  |

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**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 1.2) that say: "DANGER—UNAUTHORIZED PERSONNEL KEEP OUT" | 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                   |

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

| <b>Component Name</b>                            | <b>Inspection</b>                                 | <b>Frequency</b> |
|--|---|------------------|
| 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           |

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**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>● HLW Loading Area (H 0130)</li> <li>● Lab Pack Room (A 0139A)</li> <li>● Waste Drum Management Room (A 0139)</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 HL.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> | <p>At least every seven days</p>   |
| <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>†</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>   | <p>Within 48 hours of placing or moving each container</p>   |
| 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  |
| Filled IHLW Canister <sup>†</sup>   | Inspect (visually, by camera surveillance, or cell window) each canister for cracks, leaks, bulges, or other abnormalities  | After sealing canister   |

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

| Name                                   | Inspection   | Frequency   |
|--|--|---|
|  | <del>Record in tracking system each canister's location when placed in storage;<br/> Record in tracking system all canister location changes if canister(s) are moved while in storage;<br/> Verify canister in recorded location when transporting canister out of WTP storage.</del> | <del>Within 48 hours of placing or moving each canister</del>                                       |
| IHLW Canister Storage Cave<br>(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 ~~+Direct access to container of ILAW and IHLW for the purposes of inspection is precluded due to high radioactivity levels.~~  
2 ~~Therefore, ILAW and IHLW containers are exempt from the 30-inch aisle requirements (III.10.D.4.b.ii).~~  
3

**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<br>FRP-VSL-00002B<br>FRP-VSL-00002C<br>FRP-VSL-00002D   | Inspect tank level monitoring data to prevent overflow | Daily            |
| <b>FEP</b>                               |  |  |                  |
| Waste feed evaporator feed vessels       | FEP-VSL-00017A<br>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<br>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<br>UFP-VSL-00001B   | Inspect tank level monitoring data to prevent overflow | Daily            |
| Ultrafiltration feed vessels             | UFP-VSL-00002A<br>UFP-VSL-00002B   | Inspect tank level monitoring data to prevent overflow | Daily            |
| Ultrafilter permeate collection vessel   | UFP-VSL-00062A<br>UFP-VSL-00062B<br>UFP-VSL-00062C   | Inspect tank level monitoring data to prevent overflow | Daily            |
| Ultrafilters                             | UFP-FILT-00001A<br>UFP-FILT-00001B<br>UFP-FILT-00002A<br>UFP-FILT-00002B<br>UFP-FILT-00003A<br>UFP-FILT-00003B<br>UFP-FILT-00004A<br>UFP-FILT-00004B<br>UFP-FILT-00005A<br>UFP-FILT-00005B | 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>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<br>CXP-IXC-00002<br>CXP-IXC-00003<br>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<br>CXP-VSL-00026B<br>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            |
| <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            |

**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> |
|---|--|--|------------------|
| 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<br>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<br>RDP-VSL-00002B<br>RDP-VSL-00002C | Inspect tank level monitoring data to prevent overflow | Daily            |
| Spent resin dewatering moisture separation vessel | RDP-VSL-00004                                      | RESERVED   | Daily            |
| <b>RLD</b>  |  |  |                  |
| Process condensate vessels                        | RDP-TK-00006A<br>RDP-TK-00006B                     | Inspect tank level monitoring data to prevent overflow | Daily            |
| Alkaline effluent vessels                         | RLD-VSL-00017A<br>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            |



**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 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            |
| 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            |

**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>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            |
| <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            |

**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>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>Effluent Management Facility Tank System</b>   |  |   |                  |
| Evaporator Process System Vessels   | DEP-VSL-00001<br>DEP-VSL-00002                     | Inspect tank level monitoring data to prevent overflow                    | Daily            |
| Evaporator Discharge System Vessels   | DEP-VSL-00003A<br>DEP-VSL-00003B<br>DEP-VSL-00003C | Inspect tank level monitoring data to prevent overflow                    | Daily            |
|   | DEP-VSL-00004A<br>DEP-VSL-00004B                   | Inspect tank level monitoring data to prevent overflow                    | Daily            |
|   | DEP-VSL-00005A<br>DEP-VSL-00005B                   | Inspect tank level monitoring data to prevent overflow                    | Daily            |
| <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)<br>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  |

1

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

| <b>Component Name</b>                                       | <b>Inspection</b>   | <b>Frequency</b> |
|---|---|------------------|
| 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.<br>Inspect container storage areas for compliance with WAC 173-303-630 (8) requirements. | 365 days         |

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3

**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<br>FEP-SEP-00001B  | TBD  | TBD              |
| Waste Feed Evaporator Reboilers                                   | FEP-RBLR-00001A<br>FEP-RBLR-00001B  | TBD  | TBD              |
| Waste Feed Evaporator Primary Condensers                          | FEP-COND-00001A<br>FEP-COND-00001B  | TBD  | TBD              |
| Waste Feed Evaporator Inter-Condensers                            | FEP-COND-00002A<br>FEP-COND-00002B  | TBD  | TBD              |
| Waste Feed Evaporator After-Condensers                            | FEP-COND-00003A<br>FEP-COND-00003B  | TBD  | TBD              |
| <b>PJV</b>  |   |  |                  |
| PJV Primary HEPA filters  | PJV-HEPA-00001A<br>PJV-HEPA-00001B<br>PJV-HEPA-00001C<br>PJV-HEPA-00001D<br>PJV-HEPA-00001E<br>PJV-HEPA-00001F<br>PJV-HEPA-00001G | TBD  | TBD              |
| PJV Secondary Exhaust HEPA filters                                | PJV-HEPA-00002A<br>PJV-HEPA-00002B<br>PJV-HEPA-00002C<br>PJV-HEPA-00002D<br>PJV-HEPA-00002E<br>PJV-HEPA-00002F                    | TBD  | TBD              |
| PJV Exhaust fans  | PJV-FAN-00001A<br>PJV-FAN-00001B<br>PJV-FAN-00001C  | 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 Demisters                                  | PJV-DMST-00002A<br>PJV-DMST-00002B<br>PJV-DMST-00002C | TBD               | TBD              |
| <b>PVP</b>                                     |   |                   |                  |
| Electric heaters                               | PVP-HTR-00001A<br>PVP-HTR-00001B<br>PVP-HTR-00001C    | TBD               | TBD              |
| Vessel Vent After cooler                       | PVP-CLR-00001   | TBD               | TBD              |
| Vessel Vent Carbon Bed Adsorbers               | PVP-ADBR-00001A<br>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<br>PVP-HEME-00001B<br>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<br>PVV-HEPA-00001B                    | TBD               | TBD              |
| Vessel Vent HEPA secondary filters             | PVV-HEPA-00002A<br>PVV-HEPA-00002B                    | TBD               | TBD              |
| Vessel Vent Exhaust fans                       | PVV-FAN-00001A<br>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              |
| Cesium evaporator inter-condenser              | CNP-HX-00003  | TBD               | TBD              |
| Cesium evaporator after-condenser              | CNP-HX-00004  | TBD               | TBD              |

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

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

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

| Component Name   | Plant Item Number  | Inspection  | Frequency |
|--|--|---|-----------|
| <b>HLW Vitrification Plant Miscellaneous Treatment Unit Subsystems</b> |  |   |           |
| <b>HMP</b>   |  |   |           |
| HLW Melter 1   | HMP MLTR-00001   | Visual inspection (via eave window or CCTV if provided) for damage, leaks, or abnormalities<br><br>Inspect melter level monitoring data to prevent overflow | Daily     |
| HLW Melter 2   | HMP MLTR-00002   |   |           |
| <b>HOP</b>   |  |   |           |
| Submerged Bed Scrubber   | HOP SCB-00001<br>HOP SCB-00002   | TBD   | TBD       |
| Wet Electrostatic Precipitators (WESP)                                 | HOP WESP-00001<br>HOP WESP-00002   | TBD   | TBD       |
| Thermal Catalytic Oxidizer   | HOP SCO-00001<br>HOP SCO-00004   | TBD   | TBD       |
| NOx Selective Catalytic Reduction Units                                | HOP SCR-00001<br>HOP SCR-00002   | TBD   | TBD       |
| Silver Mordenite Columns   | HOP ABS-00002<br>HOP ABS-00003   | TBD   | TBD       |
| HEPA Filters   | HOP HEPA-00001A<br>HOP HEPA-00001B<br>HOP HEPA-00002A<br>HOP HEPA-00002B<br>HOP HEPA-00007A<br>HOP HEPA-00007B<br>HOP HEPA-00008A<br>HOP HEPA-00008B | TBD   | TBD       |
| Melter Offgas Film Coolers   | HOP FCLR-00001/3<br>HOP FCLR-00002/4   | TBD   | TBD       |
| Catalyst Skid Preheaters   | HOP HX-00001<br>HOP HX-00003   | TBD   | TBD       |
| HEPA Preheaters  | HOP HTR-00001B<br>HOP HTR-00002A<br>HOP HTR-00005A<br>HOP HTR-00005B   | TBD   | TBD       |
| Catalyst Skid Electric Heaters   | HOP HTR-00007<br>HOP HTR-00001   |   |           |
| Silver Mordenite Preheaters  | HOP HX-00002<br>HOP HX-00004   | 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> |
|---|--|-------------------|------------------|
| Stack Extraction Fans   | HOP FAN 00008A<br>HOP FAN 00008B<br>HOP FAN 00008C<br>HOP FAN 00010A<br>HOP FAN 00010B<br>HOP FAN 00010C | TBD               | TBD              |
| Booster Extraction Fans   | HOP FAN 00001A<br>HOP FAN 00001B<br>HOP FAN 00001C<br>HOP FAN 00009A<br>HOP FAN 00009B<br>HOP FAN 00009C | TBD               | TBD              |
| Activated Carbon Adsorber   | HOP ADBR 00001A<br>HOP ADBR 00001B<br>HOP ADBR 00002A<br>HOP ADBR 00002B                                 | TBD               | TBD              |
| High Efficiency Mist Eliminators (HEME)                                     | HOP HEME 00001A<br>HOP HEME 00001B<br>HOP HEME 00002A<br>HOP HEME 00002B                                 | TBD               | TBD              |
| <b>PJV</b>  |  |                   |                  |
| PJV HEPA Filters  | PJV HEPA 00004A<br>PJV HEPA 00004B<br>PJV HEPA 00005A<br>PJV HEPA 00005B                                 | TBD               | TBD              |
| Pulse Ventilation HEPA Electric Preheater                                   | PJV HTR 00002  | TBD               | TBD              |
| Pulse Vent Extraction Fans  | PJV FAN 00002A<br>PJV FAN 00002B   | TBD               | TBD              |
| <b>Effluent Management Facility Miscellaneous Treatment Unit Subsystems</b> |  |                   |                  |
| DEP evaporator separator  | DEP EVAP 00001   | TBD               | TBD              |
| DEP evaporator reboiler   | DEP RBLR 00001   | TBD               | TBD              |
| Evaporator primary condenser  | DEP COND 00001   | TBD               | TBD              |
| Evaporator intercondenser   | DEP COND 00002   | TBD               | TBD              |
| Evaporator after condenser  | DEP COND 00003   | TBD               | TBD              |
| Process condensate lga storage transfer line filter                         | DEP FILT 00002   | TBD               | TBD              |
| Evaporator Feed prefilter   | DEP FILT 00003   | TBD               | TBD              |

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

| Component Name                     | Plant Item Number                  | Inspection | Frequency |
|------------------------------------|------------------------------------|------------|-----------|
| Condensate duplex cartridge filter | DEP-FILT-00004A<br>DEP-FILT-00004B | TBD        | TBD       |
| Feed vessel area sump pump filter  | DEP-FILT-00005                     | TBD        | TBD       |
| Concentrate effluent cooler        | DEP-HX-00001                       | TBD        | TBD       |
| Process Ventilation primary HEPA   | DVP-HEPA-00003A<br>DVP-HEPA-00003B | TBD        | TBD       |
| Process Ventilation secondary HEPA | DVP-HEPA-00004A<br>DVP-HEPA-00004B | TBD        | TBD       |
| Process Ventilation Heater         | DVP-HTR-00001A/B                   | TBD        | TBD       |
| Process Ventilation Exhauster      | DVP-EXHR-00001A/B                  | TBD        | TBD       |

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

| Component Name  | Inspection  | Frequency                 |
|---|---|---------------------------|
| 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 |