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ADDENDUM I
INSPECTION PLAN

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INSPECTION PLAN

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10
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Contents

I. INSPECTION REQUIREMENTSI.1

I.1 Inspection Plan.....I.1

I.1.1 General Inspection RequirementsI.1

I.1.2 Schedule for Remedial Action for Problems RevealedI.1

I.1.3 Specific Process or Waste Type Inspection Requirements.....I.1

DRAFT

1 **I INSPECTION PLAN**

2 The mixed waste is in solid form and placed in stainless steel capsules.

3 **I.1 Inspection Plan**

4 This section describes the method and schedule for inspections at Waste Encapsulation and Storage
5 Facility (WESF). These inspections will help ensure that situations do not exist that might cause or lead
6 to the release of mixed waste to the environment or that might pose a threat to human health and
7 environment. Deficiencies identified by inspections must be corrected on a schedule that prevents
8 hazards to personnel, the public, and the environment.

9 **I.1.1 General Inspection Requirements**

10 The content and frequency of inspections are described in this section. The schedule and inspection
11 records are kept in the inspection logbooks and retained by WESF operations personnel. Inspection
12 records will be retained in accordance with Permit Conditions II.I, and II.X.

13 The inspection checklists will consist of a listing of items to be assessed during each inspection. A
14 'yes/no' response will be made for each listed item. Any deficiencies identified and recorded during the
15 inspection will be reported to WESF management. WESF management will review and determine
16 corrective actions to be taken.

17 **I.1.1.1 Types of Potential Problems**

18 Types of problems looked for during an inspection are provided in Table I.1. All of the waste in storage
19 at WESF originated at WESF. WESF does not receive mixed waste from an onsite and/or offsite facility.
20 Because the mixed waste is in a solid form within a stainless steel capsule, spills are not probable.
21 Therefore, spills are not considered among the types of problems that should be addressed, through
22 inspections.

23 **I.1.1.2 Inspection Schedule**

24 The mixed waste capsules are sealed. Frequent inspection of individual mixed waste capsules that require
25 removal of capsules from storage racks is not feasible because of ALARA concerns and the storage
26 configuration as described in Addendum C.

27 The solid form of mixed waste is sealed in the stainless steel capsules; this makes a leak unlikely.
28 Therefore, frequent capsule inspection is not necessary and removal of the capsules only introduces
29 additional risk for potential capsule damage. Refer to Table I.1 for proposed inspection frequencies.

30 **I.1.2 Schedule for Remedial Action for Problems Revealed**

31 In accordance with Permit Condition II.X.4, the WESF operating organization will remedy any problems
32 revealed by the inspection on a schedule that prevents hazards to human health and the environment.
33 Immediate actions will be implemented based on the contingency plan (Addendum J).

34 **I.1.3 Specific Process or Waste Type Inspection Requirements**

35 Due to the design of the capsules and storage restrictions, the capsules cannot be routinely inspected by
36 direct visual means. Inspections of other types of equipment that provide confidence to detect leakage of
37 the capsules are provided in Table I.1.

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Table I.1 WAC 173-303-320(2) Inspection Schedule

Requirement description	Inspection frequency	Types of potential problems
Data from leak detection equipment monitors leakage of the capsules (not pool cell water)	Monthly	Observe annunciator panel in WESF operation gallery to determine if lights are operating.
Security devices: "Danger Waste storage – major chemical risk: toxic" signs	Weekly	Signs are posted and legible.
Safety and emergency equipment: emergency lighting	Monthly	Equipment is present and functional.
Annual inspection of 225B Building	Annually	Walk around outside of building and identify any structural damage.

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