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ADDENDUM F
PREPAREDNESS AND PREVENTION

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13
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15
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17
18
19
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ADDENDUM F
PREPAREDNESS AND PREVENTION

Contents

F. PREPAREDNESS AND PREVENTION F.1

F.1 Preparedness and Prevention Requirements..... F.1

F.1.1 Equipment Requirements F.1

F.1.2 Internal Communication..... F.1

F.1.3 External Communications F.1

F.1.4 Emergency Equipment F.1

F.1.5 Water for Fire Control..... F.1

F.2 Preventive Procedures, Structures, And Equipment..... F.2

F.2.1 Unloading Operations F.2

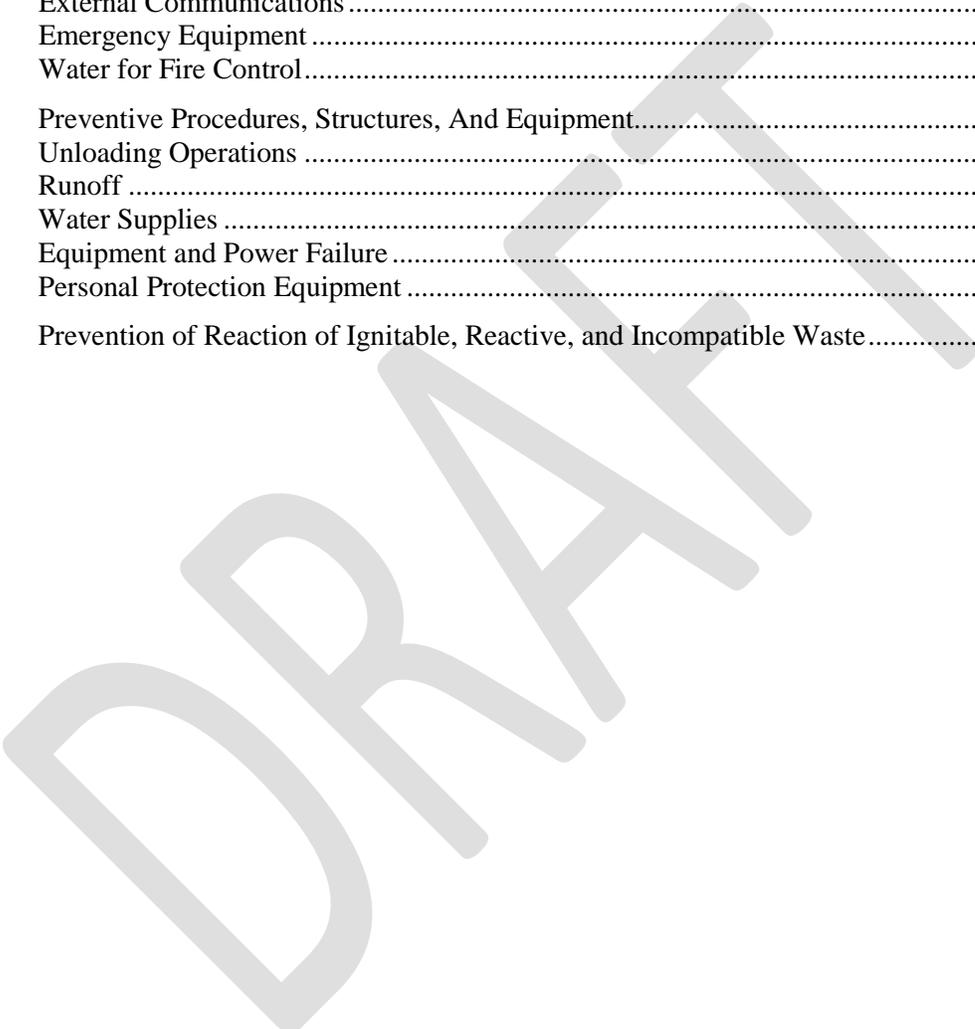
F.2.2 Runoff F.2

F.2.3 Water Supplies F.2

F.2.4 Equipment and Power Failure F.2

F.2.5 Personal Protection Equipment F.2

F.3 Prevention of Reaction of Ignitable, Reactive, and Incompatible Waste..... F.2



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1 **F. PREPAREDNESS AND PREVENTION**

2 This Addendum discusses preparedness and prevention requirements; preventive procedures, structures,
3 and equipment; and prevention of reaction of ignitable, reactive, and incompatible waste as related to
4 Waste Encapsulation and Storage Facility (WESF).

5 WESF is operated to minimize exposure of human health and the environment to the mixed waste
6 capsules. Shielding, contamination control, control of toxic or dangerous material, and safety and
7 security procedures will be used to keep exposure ALARA. Shielding will be provided to comply with
8 the ALARA as required by [10 CFR 835](#).

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

10 **F.1 Preparedness and Prevention Requirements**

11 The following sections describe the preparedness and prevention measures to be taken at WESF.

12 **F.1.1 Equipment Requirements**

13 The following sections describe the internal and external communications systems and the emergency
14 equipment required that could be activated by the WESF Building Emergency Director (BED).

15 **F.1.2 Internal Communication**

16 At WESF, telephones capable of public address are used for internal communication and are located
17 throughout the facility.

18 Personnel at WESF will have voice communication or equivalent (e.g., hand signals) during work
19 assignments to maintain external communications with shift supervisors. Supervision will contact the
20 Hanford Facility emergency telephone number (911) (373-0911 for cellular telephones) if assistance is
21 needed.

22 The onsite internal communication systems provide immediate emergency instruction to personnel. The
23 onsite internal communication system includes telephones, various alarms systems, private automatic
24 exchange (PAX) communication system, and two-way radios.

25 **F.1.3 External Communications**

26 WESF is equipped with devices for summoning emergency assistance from the Hanford Fire Department
27 and/or emergency response teams as necessary. External communication is made via fire alarms, a
28 telephone communication system, or two-way radios (hand-held and vehicle-mounted radios) as
29 described in Permit Attachment 4, *Hanford Emergency Management Plan* (DOE/RL-94-02). A telephone
30 communication system and two-way radios can be used to access a supervisor, who contacts the Hanford
31 Site emergency network if assistance is needed. Refer to Addendum J, Section J.4.3, for communication
32 equipment requirements.

33 **F.1.4 Emergency Equipment**

34 Emergency equipment will be available for use at WESF as required by [WAC 173-303-340\(1\)](#). A list of
35 equipment is included in Addendum J, Contingency Plan.

36 **F.1.5 Water for Fire Control**

37 The pool cell area does not use water for fire control. The hot cell area currently has a manually activated
38 fire suppression system. Incidental combustibles within WESF are administratively controlled to
39 minimize fire hazards in these areas of the facility.

1 **F.2 Preventive Procedures, Structures, and Equipment**

2 The following sections describe preventive procedures, structures, and equipment.

3 **F.2.1 Unloading Operations**

4 All of the waste in storage at WESF originated at WESF. WESF will not receive mixed waste from an
5 onsite and/or offsite facility; therefore, no unloading operations inspections are required. Any additional
6 waste accepted into WESF will require a modification of this Addendum and the Permit.

7 **F.2.2 Runoff**

8 Because the mixed waste capsules are stored in pool cells within the 225B Building and pool level is
9 controlled as described in Addendum C in this permit, run-on is not considered a relevant factor in
10 evaluating the protectiveness of waste storage activities at WESF. However, normal building design and
11 construction practices at WESF do address precipitation control. The WESF roof, walls, and foundation
12 prevent precipitation run-on from entering the pool cell and hot cell areas; therefore, no precipitation can
13 contact the waste. Because no precipitation can enter the building to contact the waste, no run-off is
14 expected.

15 **F.2.3 Water Supplies**

16 Pool cell levels will be monitored. Deionized water will be supplied to the pool cell area for filling the
17 pool cells as required. The pool cell area has a sanitary water supply and the hot cell area has deionized
18 water and raw water for fire suppression. The rest of WESF has water supplied for the support areas
19 within the 225B Building.

20 **F.2.4 Equipment and Power Failure**

21 Loss of electrical power does not constitute an emergency, and would not result in a release of mixed
22 waste. WESF will not be occupied during power outages except for personnel providing a response
23 action. Rechargeable battery powered lighting units will provide emergency illumination. Emergency
24 communication equipment will be available to summon emergency assistance in the event of a power
25 loss.

26 **F.2.5 Personal Protection Equipment**

27 Addendum J does not require any personal protection equipment for management of the capsules.
28 Hearing protection is provided to personnel entering the pool cell area.

29 **F.3 Prevention of Reaction of Ignitable, Reactive, and Incompatible Waste**

30 WESF will not store ignitable waste, reactive waste, or waste found incompatible with the mixed waste
31 capsules.

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