ADDENDUM F
PREPAREDNESS AND PREVENTION
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F. PREPAREDNESS AND PREVENTION

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

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

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

F.1 Preparedness and Prevention Requirements

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

F.1.1 Equipment Requirements

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

F.1.2 Internal Communication

At WESF, telephones capable of public address are used for internal communication and are located throughout the facility. Personnel at WESF will have voice communication or equivalent (e.g., hand signals) during work assignments to maintain external communications with shift supervisors. Supervision will contact the Hanford Facility emergency telephone number (911) (373-0911 for cellular telephones) if assistance is needed.

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

F.1.3 External Communications

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

F.1.4 Emergency Equipment

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

F.1.5 Water for Fire Control

The pool cell area does not use water for fire control. The hot cell area currently has a manually activated fire suppression system. Incidental combustibles within WESF are administratively controlled to minimize fire hazards in these areas of the facility.
F.2 Preventive Procedures, Structures, and Equipment

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

F.2.1 Unloading Operations

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

F.2.2 Runoff

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

F.2.3 Water Supplies

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

F.2.4 Equipment and Power Failure

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

F.2.5 Personal Protection Equipment

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

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

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