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**ADDENDUM J**  
**CONTINGENCY PLAN**

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**ADDENDUM J**

**CONTINGENCY PLAN**

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**1 J CONTINGENCY PLAN**

2 The requirements in this contingency plan are applicable to waste that is regulated by [WAC 173-303](#) (e.g.  
3 dangerous and mixed waste). Pursuant to [WAC 173-303-350](#)(2), and according to the provisions of this  
4 Addendum J, the Hanford Facility Permit WA7890008967 (Permit) Attachment 4, *Hanford Emergency*  
5 *Management Plan* (DOE/RL-94-02), and the Building Emergency Plan (BEP) specific to 222-S  
6 Dangerous and Mixed waste Treatment, Storage and Disposal Unit (222-S) will be amended to  
7 incorporate requirements of [WAC 173-303-350](#) and [WAC 173-303-360](#) within 30 days of the effective  
8 date of the permit.

9 Table J.1 identifies the sections of the unit-specific building emergency plan written to meet [WAC 173-  
10 303-350](#)(3) contingency plan requirements identified in this addendum. In addition, Section 12.0 of the  
11 unit-specific 222-S building emergency plan is written to meet [WAC 173-303-350](#) and [WAC 173-303-  
12 360](#) requirements. Copies of Permit Attachment 4, *Hanford Emergency Management Plan* (DOE/RL-94-  
13 02) and the building emergency plan are located and maintained on the Hanford Facility and available as  
14 identified in Section J.6. Revisions to Addendum J require a Permit modification subject to [WAC 173-  
15 303-830](#) and Permit Condition I.C.3.

16 The 222-S BEP serves to satisfy a broad range of requirements (e.g., those in this Addendum,  
17 Occupational Safety and Health Administration standards [[29 CFR 1910](#)], *Toxic Substance Control Act of*  
18 *1976* [[40 CFR 761](#)] and U.S. Department of Energy Orders). Therefore, revisions made to portions of the  
19 222-S BEP that are not governed by the requirements of [WAC 173-303-350](#) and [-360](#) will not be  
20 considered as a modification subject to [WAC 173-303-830](#) or Permit Condition I.C.3.

21 Any changes to sections of Attachment 4 or the BEP that are governed by the requirements of [WAC 173-  
22 303-350](#) and [-360](#) (identified in table J.1) will be provided to Ecology for review to ensure compliance  
23 with the requirements of Addendum J and to determine if a permit modification request is required.

**Table J.1 Hanford Facility Documents Containing Contingency Plan Requirements of WAC 173-303-350(3)**

Requirement	Permit Attachment 4 Hanford Emergency Management Plan (DOE/RL-94-02)	Part III, Operating Unit 8, Addendum J	Building Emergency Plan <sup>1</sup> (ATS-MP-1036)
<a href="#">-350(3)(a)</a> - A description of the actions which facility personnel must take to comply with this section and <a href="#">WAC 173-303-360</a>	X <sup>2</sup> Section 1.3.4	X <sup>2</sup> Sections J.3.1, J.3.2, through J.3.2.5, and J.3.3 <sup>3</sup>  Sections J.3, J.3.4, J.3.5, J.3.6, and J.5	X <sup>2</sup> Sections 7.1, 7.2 through 7.2.5, and 7.3 <sup>3</sup>  Sections 4.0, 8.2, 8.3, 8.4, 11.0, and 12

An 'X' indicates requirement applies.

<sup>1</sup> Portions of Permit Attachment 4, *Hanford Emergency Management Plan* (DOE/RL-94-02) are not enforceable through Appendix A of that document are not made enforceable by reference in the building emergency plan.

<sup>2</sup> Permit Attachment 4, *Hanford Emergency Management Plan* (DOE/RL-94-02) contains descriptions of actions relating to the Hanford Site Emergency Preparedness System. No additional descriptions of actions are required at the site level. Other credible scenarios that exist at 222-S DWMU and all emergency procedures at the 222-S DWMU that are different from those in Attachment 4, must be identified in the 222-S DWMU BEP. The description of actions contained in the building emergency plan will be used during an event by a building emergency director.

<sup>3</sup> This footnote is intended to be left blank.

**Table J.1 Hanford Facility Documents Containing Contingency Plan Requirements of WAC 173-303-350(3)**

Requirement	Permit Attachment 4 Hanford Emergency Management Plan (DOE/RL-94-02)	Part III, Operating Unit 8, Addendum J	Building Emergency Plan <sup>1</sup> (ATS-MP-1036)
- <a href="#">350(3)(b)</a> - A description of the actions which shall be taken in the event that a dangerous waste shipment, which is damaged or otherwise presents a hazard to the public health and the environment, arrives at the facility, and is not acceptable to the owner or operator, but cannot be transported pursuant to the requirements of <a href="#">WAC 173-303-370(5)</a> , Manifest system, reasons for not accepting dangerous waste shipments	X <sup>2</sup> Section 1.3.4	X <sup>2,4</sup> Section J.3.2.5.1	X <sup>2,4</sup> Section 7.2.5.1
- <a href="#">350(3)(c)</a> - A description of the arrangements agreed to by local police departments, fire departments, hospitals, contractors, and state and local emergency response teams to coordinate emergency services as required in <a href="#">WAC 173-303-340(4)</a>	X Sections 3.2.3, 3.3.1, 3.3.2, 3.4, 3.4.1.1, 3.4.1.2, 3.4.1.3, 3.7, and Table 3-1		
- <a href="#">350(3)(d)</a> - A current list of names, addresses, and phone numbers (office and home) of all persons qualified to act as the emergency coordinator required under <a href="#">WAC 173-303-360(1)</a> . Where more than one person is listed, one must be named as primary emergency coordinator, and others must be listed in the order in which they will assume responsibility as alternates. .		X <sup>5</sup> Sections J.2 and J.7	X <sup>5</sup> Sections 3.1 and 13.0
- <a href="#">350(3)(e)</a> - A list of all emergency equipment at the facility (such as fire extinguishing systems, spill control equipment, communications and alarm systems, and decontamination equipment), where this equipment is required. This list must be kept up to date. In addition, the plan must include the location and a physical description of each item on the list, and a brief outline of its capabilities.		X Section J.4	X Section 9.0

<sup>4</sup> This footnote is intended to be left blank.

<sup>5</sup> Emergency Coordinator names and home telephone numbers are maintained with the Patrol Operations Center (telephone number 373-0911) in accordance with Permit Condition II.A.3, and will be updated, at a minimum, monthly.

**Table J.1 Hanford Facility Documents Containing Contingency Plan Requirements of WAC 173-303-350(3)**

Requirement	Permit Attachment 4 Hanford Emergency Management Plan (DOE/RL-94-02)	Part III, Operating Unit 8, Addendum J	Building Emergency Plan <sup>1</sup> (ATS-MP-1036)
- <a href="#">350(3)(f)</a> - An evacuation plan for facility personnel where there is a possibility that evacuation could be necessary. This plan must describe the signal(s) to be used to begin evacuation, evacuation routes, and alternate evacuation routes.	X <sup>6</sup> Figure 7-3 and Table 5-1	X <sup>7</sup> Section J.1 and facility operating record	X <sup>7</sup> Section 1.5

1 **J.1 Building Evacuation Routing (Building Layout)**

2 Evacuation routing maps will be maintained in the facility operating record and will provide identification  
 3 of the primary and secondary staging areas and a general layout of the 222-S Laboratory Complex.  
 4 Alternate evacuation routes will be used on a case-by-case basis, based on meteorological conditions and  
 5 hazards present at the time of the event.

6 **J.2 Building Emergency Director**

7 The Incident Command System (ICS) and staff, with supporting on-call personnel, will meet the  
 8 requirements of the Emergency Coordinator as identified in [WAC 173-303-360\(1\)](#). The Building  
 9 Emergency Director (BED) will direct emergency response until the Incident Commander (IC) arrives.  
 10 The Incident Command System (ICS) and staff with supporting on-call personnel, fulfill the  
 11 responsibilities of the Emergency Coordinator as discussed in [WAC 173-303-360](#). The BED becomes a  
 12 member of the ICP and functions under the direction of the IC. In this role, the BED will continue to  
 13 manage and direct 222-S operations. During events, 222-S Laboratory Complex personnel will perform  
 14 emergency response duties under the direction of the BED. The Incident Command Post (ICP) will be  
 15 managed by the senior Hanford Fire Department official, unless the event is determined primarily to be a  
 16 security event, in which case the Hanford Fire Department and Hanford Patrol will operate under a  
 17 unified command system with Hanford Patrol making all decisions pertaining to security. These  
 18 individuals are designated as the IC and as such, have the authority to request and obtain any resources  
 19 necessary for protecting people and the environment.

20 A listing of the BEDs by title, work location, and work telephone number is contained in Section J.7.1 of  
 21 this plan. The BED is on the premises or is available through an "on-call" list 24-hours-a-day. Names  
 22 and home telephone numbers of the BEDs will be available from the Patrol Operations Center (POC) in  
 23 accordance with Permit Condition II.A.3.

24 **J.3 Implementation of the Contingency Plan**

25 In accordance with [WAC 173-303-360\(2\)\(b\)](#), whenever there is a release, fire, or explosion, the BED will  
 26 ensure that trained personnel identify the character, exact source, amount, and areal extent of any released  
 27 materials. Identification of waste can be made by activities that can include, but are not limited to, visual  
 28 inspection of involved containers, sampling activities in the field, reference to inventory records, or by  
 29 consulting with facility personnel. During the emergency, if samples of materials are required, sampling

<sup>6</sup> The Hanford Facility (sitewide) signals are provided in Attachment 4, table 5.1. 222-S specific communication equipment and warning systems are provided in Section J.4.3.

<sup>7</sup> Evacuation routes for occupied buildings surrounding the TSD unit are provided through information boards posted within buildings.

1 will be performed by qualified personnel and the samples will be analyzed as appropriate. These  
2 activities will be performed with a sense of immediacy and will include available information.

3 The BED will use the following emergency procedures of [WAC 173-303-360\(2\)](#) to implement an  
4 emergency event:

5 “If the emergency coordinator determines that the facility has had a release, fire, or explosion which could  
6 threaten human health or the environment, he must report his findings as follows:

7 (i) If his assessment indicates that evacuation of local areas may be advisable, he must immediately  
8 notify appropriate local authorities. He must be available to help appropriate officials decide whether  
9 local areas should be evacuated; and

10 (ii) He must immediately notify the department and either the government official designated as the  
11 on-scene coordinator, or the National Response Center (using their 24-hour toll free number (800)  
12 424-8802).”

13 As soon as possible after stabilizing event conditions, the BED will determine, in consultation with the  
14 site contractor environmental single-point-of-contact, if notification to Washington State Department of  
15 Ecology (Ecology) is needed to meet [WAC 173-303-360\(2\)\(d\)](#) reporting requirements. Additional  
16 information is found in Permit Attachment 4, *Hanford Emergency Management Plan* (DOE/RL-94-02),  
17 Section 4.2.

18 If review of all available information does not yield a definitive assessment of the danger posed by the  
19 incident, a worst-case condition will be presumed and appropriate protective actions and notifications will  
20 be initiated. The BED will be responsible for initiating any protective actions based on their best  
21 judgment of the incident.

22 The BED will assess each incident to determine the response necessary to protect personnel, facility, and  
23 the environment. If assistance from Hanford Patrol, Hanford Fire Department, or ambulance units is  
24 required, the Hanford Emergency Response Number (911 from site office phones/373-0911 from cellular  
25 phones) will be used to contact the Patrol Operations Center and request the desired assistance. To  
26 request other resources or assistance from outside the 222-S Laboratory Complex, the Patrol Operations  
27 Center business number is used (373-3800).

### 28 **J.3.1 Protective Action Responses**

29 Protective action responses are discussed in the following sections. The steps identified in the following  
30 description of actions do not have to be performed in sequence because of the unanticipated sequence of  
31 incident events.

#### 32 **J.3.1.1 Evacuation**

33 If an evacuation is ordered or the evacuation siren sounds, personnel will leave the building by the nearest  
34 safe exit and proceed to the staging area for accountability unless told otherwise.

35 The order to evacuate will pass via the Site Alerting Systems or the 222-S public address system. When  
36 possible, the following steps will be conducted concurrently.

37

### **AREA EVACUATION PROCESS**

- Halt any operations or work and place the 222-S Laboratory Complex in a safe condition, if personnel health and safety is not threatened and time permitting. Use emergency shutdown procedures if necessary.

### AREA EVACUATION PROCESS

- Use whatever means are available (PA system, bullhorns, runners, etc.) to pass the evacuation information to personnel.
- Sound the evacuation siren (if available), or issue the order to evacuate by any available means.
- Evacuate personnel to the staging area. Assist those needing help (temporary/permanent/ disabled).
- Conduct personnel accountability. If unable to account for personnel, report personnel accountability results to the Protective Action Coordinator in the Hanford-Emergency Operations Center (Hanford-EOC).
- Inform IC of any potentially affected personnel (e.g., injured, contaminated, exposed, etc.) once the IC arrives at the ICP.
- Segregate personnel into the following groups: PPE clothing-clad personnel, persons with keys to immediately available private vehicles, persons with keys to government vehicles, and all others.
- Load personnel in civilian clothes into private and government vehicles, load PPE-clad persons into a separate government vehicle, if possible, and try to provide reserve transportation for people with late shutdown duties.
- Relay pertinent evacuation information (routes, destination, etc.) to personnel with vehicle keys.
- Dispatch vehicles as soon as the vehicles are loaded.
- Load remaining personnel into private vehicles, maintaining segregation if possible.
- Report status to the Hanford-EOC, request additional transportation if required, and report if any personnel remain who are performing late shutdown duties.

#### 1 **J.3.1.2 Take Cover**

2 When the Take Cover Alarm is activated, personnel will take cover in the nearest habitable building or  
3 trailer. A message followed by the Take Cover siren will be transmitted over the area emergency sirens.  
4 The following actions will be taken or considered:

- 5 • Shut doors and windows and wait for further instructions.
- 6 • Secure unfiltered ventilation.
- 7 • Lock up classified documents, follow normal exit procedures from radiological areas (in  
8 preparation for a possible evacuation) etc.
- 9 • Report your location to the Accountability Aide or the BED.
- 10 • Accountability Aides will provide accountability status to the Staging Area Manager for facility  
11 personnel during an event.
- 12 • Inform IC of potentially affected personnel (i.e., injured, contaminated, exposed, etc.) once the IC  
13 arrives at the ICP.

#### 14 **J.3.2 Response to Facility Operations Emergencies**

15 Whenever there is an imminent or actual emergency situation, the BED will review the site-wide and 222-  
16 S Laboratory Complex emergency response procedure(s) and, as required, categorize and/or classify the  
17 event. If necessary, the BED will initiate area protective actions and Hanford Site Emergency Response  
18 Organization activation. The steps identified in the following description of actions do not have to be  
19 performed in sequence because of the unanticipated sequence of incident events.

#### 20 **J.3.2.1 Loss of Utilities**

21 A case-by-case evaluation will be required for each event to determine loss of utility impacts. When a  
22 BED determines a loss of utility impact, actions will be taken to ensure dangerous or mixed waste will be

1 properly managed. As necessary, the BED will stop operations and take appropriate actions until the  
2 utility is restored.

### 3 **J.3.2.2 Major Process Disruption/Loss of Plant Control**

4 A major process disruption would involve a spill of waste stored in the tanks (tanks 101, 102, and 104).  
5 Tank 103 is not active and has been rinsed, isolated, and removed from service. A spill response plan is  
6 provided in Section J.3.2.5 of this plan.

### 7 **J.3.2.3 Pressure Release**

8 Response to a pressure release includes the following:

- 9 • Notify personnel to leave the area of the hazard. In the event of any injuries, personnel should  
10 immediately call 911 from site office phones/373-0911 from cellular phones for medical  
11 response.
- 12 • Inform the BED.
- 13 • Shut off the affected system's source if appropriate and safe to do so.
- 14 • Evacuate affected areas if so directed by the BED.
- 15 • Determine impacts/risks associated with reentry (e.g., hazardous or radioactive releases, moisture  
16 or heat conditions).
- 17 • Inform appropriate maintenance personnel for repair.

### 18 **J.3.2.4 Fire and/or Explosion**

19 In the event of a fire, the discoverer will activate a fire alarm (pull box); call 911 from Site office  
20 phones/373-0911 from cellular phones, or verify that the Hanford Emergency Response Number has been  
21 called. Automatic initiation of a fire alarm (through the smoke detectors and sprinkler systems) is also  
22 possible.

- 23 • Unless otherwise instructed, personnel will evacuate the area/building by the nearest safe exit and  
24 proceed to the designated staging area for accountability.
- 25 • On actuation of the fire alarm, ONLY if personnel health and safety are not threatened and if time  
26 permits, personnel will shut down equipment, secure waste, and lock up classified materials (or  
27 hand carry them out). The alarm automatically signals the Hanford Fire Department.
- 28 • The BED will proceed directly to the ICP, obtain all necessary information pertaining to the  
29 incident, and send a representative to meet the Hanford Fire Department.
- 30 • The BED will provide a formal turnover to the IC, when the IC arrives at the ICP.
- 31 • The BED will inform the Hanford Site Emergency Response Organization as to the extent of the  
32 emergency (including estimates of dangerous waste and mixed waste quantities released to the  
33 environment).
- 34 • If operations are stopped in response to the fire, the BED will ensure that systems are monitored  
35 for leaks, pressure buildup, gas generation, and ruptures if personnel safety and health are not  
36 endangered by doing so.
- 37 • Hanford Fire Department firefighters will extinguish the fire as necessary.

38 **NOTE:** *Following a fire and/or explosion, WAC 173-303-640(7), Tank Systems, will be followed for the*  
39 *219-S Waste Handling Facility regarding fitness for use.*

### 40 **J.3.2.5 Hazardous Material, Dangerous and/or Mixed Waste Spill**

41 Spills can result from many sources including process leaks, container spills or leaks, damaged packages  
42 or shipments, or personnel error. Spills of mixed waste are complicated by the need to deal with the extra  
43 hazards posed by the presence of *Atomic Energy Act* materials.

- 44 • The discoverer notifies the BED and initiates SWIM response:

- 1       – Stops work
- 2       – Warns others in the vicinity
- 3       – Isolates the area
- 4       – Minimizes exposure to the hazards.
- 5       • The BED will determine which additional facility actions are required (e.g., securing ventilation).
- 6       • The BED will determine if emergency conditions exist requiring response from the Hanford Fire
- 7       Department based on classification of the spill and injured personnel, and will evaluate the need
- 8       to perform additional protective actions.
- 9       • If the Hanford Fire Department resources are not needed, the spill will be mitigated with
- 10       resources identified in Section J.4 of this addendum and proper notifications are made.
- 11       • If the Hanford Fire Department resources are needed, the BED will call 911 from site office
- 12       phones/ 373-0911 from cellular phones.
- 13       • The BED will send a representative to meet the Hanford Fire Department.
- 14       • The BED will provide a formal turnover to the IC when the IC arrives at the ICP.
- 15       • The BED will inform the Hanford Site Emergency Response Organization as to the extent of the
- 16       emergency (including estimates of dangerous waste and mixed waste quantities released to the
- 17       environment).
- 18       • If operations are stopped in response to the spill, the BED will ensure that systems are monitored
- 19       for leaks, pressure buildup, gas generation, and ruptures if personnel safety and health are not
- 20       endangered by doing so.
- 21       • Hanford Fire Department will stabilize the spill.

22 **NOTE:** *For response to leaks or spills and disposition of leaking or unfit-for-use tank systems, follow*  
23 [WAC 173-303-640\(7\)](#).

#### 24 **J.3.2.5.1 Damaged or Unacceptable Shipments**

25 During the course of receiving dangerous or mixed waste at 222-S Laboratory Complex, an unanticipated  
26 event could be discovered resulting in a conformance issue concerning the waste. In some cases, the  
27 conformance issue will result from receiving an off-site shipment, manifested pursuant to Permit,  
28 Condition II.N.2, or [WAC 173-303-370](#) that is damaged or otherwise presents a hazard and cannot be  
29 transported. Damaged or unacceptable shipments resulting from onsite transfers are not subject to  
30 [WAC 173-303-370](#); however, conformance issues will be resolved in order to maintain proper records.

31 Regardless of whether the waste is received as an off-site shipment or onsite transfer, the following  
32 actions will be taken:

- 33       • Operations management will be notified of the damaged or unacceptable waste to be received.
- 34       • If the conformance issue results in a spill or release, actions described in Section J.3.2.5 of this  
35       plan will be taken.
- 36       • The generating organization will be notified of the conformance issue.
- 37       • An operations representative, in conjunction with the generating organization, will determine the  
38       course of action to resolve the conformance issue.

#### 39 **J.3.3 Prevention of Recurrence or Spread of Fires, Explosions, or Releases**

40 The BED, as part of the ICP, will take the steps necessary to ensure that a secondary release, fire, or  
41 explosion does not occur. The BED will take measures, where applicable, to stop processes and  
42 operations; collect and contain released wastes and remove or isolate containers. The BED will also  
43 monitor for leaks, pressure buildups, gas generation, or ruptures in valves, pipes or other equipment,  
44 whenever this is appropriate and safe to do so.

### 1 **J.3.4 Incident Recovery and Restart of Operations**

2 A written recovery plan is needed following an event when the recovery actions could result in further  
3 risk to human health or the environment. This written recovery plan will be developed when necessary in  
4 accordance with Permit Attachment 4, *Hanford Emergency Management Plan* (DOE/RL-94-02), Section  
5 9.2. Permit Attachment 4, *Hanford Emergency Management Plan* (DOE/RL-94-02), Section 5.1, also  
6 discusses different reports to outside agencies. If the contingency plan was implemented according to  
7 Section J.3, Ecology will be notified before operations can resume [[WAC 173-303-360\(2\)\(j\)](#)]. This  
8 notification must include the following statements.

- 9 • No waste that may be incompatible with the released material is treated, stored, or disposed of  
10 until cleanup procedures are completed [WAC 173-303-360\(2\)\(i\)](#); and
- 11 • All emergency equipment listed in the contingency plan is cleaned, and fit for its intended use  
12 before operations are resumed [WAC 173-303-360\(2\)\(i\)\(ii\)](#).

13 The notification required by [WAC 173-303-360\(2\)\(j\)](#) may be made via telephone conference and  
14 documentation of the notification will be included in the 222-S operating record. Additional information  
15 that Ecology requests will be included in the required 15-day report identified in Section J.5 and required  
16 by [WAC 173-303-360\(2\)\(k\)](#).

17 For emergencies not involving activation of the Hanford-EOC, the BED will ensure that conditions are  
18 restored to normal before operations are resumed. If the Hanford Site Emergency Response Organization  
19 was activated and the emergency phase is complete, a special recovery organization could be appointed at  
20 the discretion of DOE to restore conditions to normal. This process is detailed in DOE and contractor  
21 emergency procedures. The makeup of this organization depends on the extent of the damage and the  
22 effects. The onsite recovery organization will be appointed by the appropriate contractor's management.

### 23 **J.3.5 Incompatible Waste**

24 After an emergency, the BED or the onsite recovery organization will ensure that no waste that may be  
25 incompatible with the released material is treated, stored, or disposed of until cleanup procedures are  
26 completed pursuant to [WAC 173-303-360\(2\)\(i\)](#). Clean up actions will be taken by 222-S Laboratory  
27 Complex personnel or other assigned personnel. Permit Attachment 4, *Hanford Emergency Management*  
28 *Plan* (DOE/RL-94-02), Section 9.2.3, describes actions to be taken.

29 Waste from cleanup activities will be designated and managed as newly generated waste. A field check  
30 for compatibility will be performed before storage, as necessary. Incompatible wastes will not be placed  
31 in the same container and will follow the requirements of [WAC 173-303-630\(9\)](#). Containers of waste  
32 will be placed in approved storage areas appropriate for their compatibility class.

33 If incompatibility of waste was a factor in the incident, the BED or the onsite recovery organization will  
34 ensure that the cause is identified and corrected.

### 35 **J.3.6 Post Emergency Equipment Maintenance and Decontamination**

36 The BED will ensure that all emergency equipment listed in the J.4 is cleaned and fit for its intended use  
37 before operations are resumed in accordance with [WAC 173-303-360\(2\)\(i\)\(ii\)](#). Depleted stocks of  
38 neutralizing and absorbing materials will be replenished; protective clothing will be cleaned or disposed  
39 of and restocked, etc.

40 All equipment used during an incident will be decontaminated (if practicable) or disposed of as spill  
41 debris. Decontaminated equipment will be checked for proper operation before storage for subsequent  
42 use. Consumable and disposed materials will be restocked. Fire extinguishers will be replaced.

### 43 **J.4 Emergency Equipment**

44 Emergency resources and equipment for the 222-S Laboratory Complex are presented in this section.

1 **J.4.1 Fixed Emergency Equipment**

Type	Location	Capability
Fire Detection Equipment	Master Fire Alarm Boxes located in 222-S Entry Foyer.	Manual pull station or detector transmits signal to master fire alarm box and then the Hanford Fire Department.
Automatic Water Sprinkler System	Installed throughout 222-S Laboratory	Automatically activates and controls or extinguishes fire.
Fixed Dry Chemical Fire Extinguishing Systems	Dangerous and Mixed Waste Storage Area (DMWSA)	Automatically activates and controls or extinguishes fire.
Eyewash/shower stations	Eyewash/shower stations are located throughout the 222-S Laboratory Complex	Flushes unwanted chemical/material from eyes, clothes, and body.
Emergency Lights	Selected points in hallways, doors, and rooms	Provide low-level egress lighting for buildings during loss of electricity.
Diesel Exhauster	Outside 222S Laboratory	Provides ventilation to the 222S Laboratory in the event of a power outage.

2 **J.4.2 Portable Emergency Equipment**

Type	Location	Capability
Fire Extinguisher	Throughout the 222-S Laboratory Complex	Assist in the control of a fire.

3 **J.4.3 Communications Equipment and Warning Systems**

Type	Location	Capability
PA System	Throughout the 222-S Laboratory Complex	Public address system used for communication
Two-way radios	Throughout the 222-S Laboratory Complex	Communication
Liquid-level overflow alarms for tanks 101, 102, 104, and the 219-S Sumps	222-S, Room 3-B and the 219-S Operating Gallery	A buzzer and lighted panel indicate that an overflow has been detected in the respective tank within the 219-S.
Telephones	222-S Laboratory Complex	Communication

4 Note: Site wide communications and warning systems are identified in Permit Attachment 4, *Hanford*  
5 *Emergency Management Plan* (DOE/RL-94-02), Table 5.1.

1 **J.4.4 Personal Protective Equipment**

Type	Location	Capability
Protective Clothing	Room 3B-1	Protect personnel from exposure to hazardous chemicals/materials
Respirators	222-S Room 5-D	Protect personnel from hazardous atmosphere and airborne particulates

2 **J.4.5 Spill Kits and Spill Control Equipment**

Type	Location	Capability
Absorbents, spill pigs and pillows, and gloves	spill carts/cabinets located throughout the 222-S Laboratory Complex	Use to clean up most liquid spills and some solids

3 **J.4.6 Incident Command Post**

4 The ICPs will be identified in a fixed location or the IC will determine a location appropriate for the  
5 event. Emergency resource materials will be stored at each location. The IC will activate the Hanford  
6 Fire Department Mobile Command Unit if necessary.

7 **J.5 Required Reports**

8 Post incident written reports are required for certain incidents on the Hanford Site. The reports are  
9 described in Permit Attachment 4, *Hanford Emergency Management Plan* (DOE/RL-94-02), Section 5.1.

10 Facility management must note in the Hanford Facility Operating Record, 222-S. File, the time, date and  
11 details of any incident that requires implementation of this plan. Within fifteen (15) days after the  
12 incident, a written report will be submitted to Ecology. The report will include the elements specified in  
13 [WAC 173-303-360\(2\)\(k\)](#).

14 **J.6 Plan Location and Amendments**

15 Copies of Attachment 4 [*Hanford Emergency Management Plan* (DOE/RL-94-02)] will be maintained  
16 per permit condition I.M.1. Copies of the Building Emergency Plan, and 222-S Permit Addendum J, will  
17 be maintained at the following locations:

- 18 • 2704-S, Room 22 A/B
- 19 • 222-S Laboratory, Room 3B

20 These documents will be available in either hard copy or electronic form.

21 This plan will be reviewed and immediately amended as necessary, in accordance with Permit  
22 Attachment 4, *Hanford Emergency Management Plan* (DOE/RL-94-02), Section 14.3.1.1.

23 **J.7 Facility/Building Emergency Response Organization**

24 **J.7.1 222-S Laboratory Complex Building Emergency Director**

Title	Work Location	Work Phone
Building Emergency Director	Various	373-2435

25 Names and home telephone numbers of the BEDs are available from the Patrol Operations Center (373-  
26 0911) in accordance with Permit Condition II.A.3.

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