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ADDENDUM J
CONTINGENCY PLAN

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ADDENDUM J
CONTINGENCY PLAN

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18
19
20
21
22
23
24

J CONTINGENCY PLAN 1

J.1 Building Evacuation Routing (Building Layout)..... 3

J.2 Building Emergency Director and Alternates 3

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

J.3.1 Protective Action Responses..... 4

J.3.2 Potential Emergency Conditions and Appropriate Response 5

J.3.3 Incident Recovery 9

J.3.4 Incompatible Waste 10

J.3.5 Restart of Operations 10

J.4 Emergency Equipment..... 10

J.4.1 Portable Emergency Equipment..... 10

J.4.2 Fire Control Equipment 10

J.4.3 Communications Equipment/Warning Systems 11

J.4.4 Personal Protective Equipment (PPE)..... 11

J.4.5 Spill Control and Containment Supplies..... 12

J.5 Required Reports 12

J.6 Plan Location and Amendments 12

J.7 Building Emergency Response Organization 12

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2
3
4

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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](#)
3 (e.g. dangerous and/or mixed waste). Pursuant to [WAC 173-303-350](#)(2), and according to the provisions
4 of this Addendum J, the Hanford Facility Permit WA7890008967 (Permit) Attachment 4, *Hanford*
5 *Emergency Management Plan* (DOE/RL-94-02), and the Building Emergency Plan specific to
6 325/Radiochemical Processing Laboratory (RPL) will be amended to incorporate requirements of [WAC](#)
7 [173-303-350](#) and [WAC 173-303-360](#) within 30 days of the effective date of the permit.

8 Table J.1 identifies the sections of the unit-specific building emergency plan written to meet [WAC 173-](#)
9 [303-350](#)(3) contingency plan requirements identified in this addendum. In addition, Section 12.0 of the
10 unit-specific 325/RPL building emergency plan is written to meet [WAC 173-303-350](#) and [WAC 173-303-](#)
11 [360](#) requirements. Copies of Permit Attachment 4, *Hanford Emergency Management Plan* (DOE/RL-94-
12 02) and the building emergency plan are located and maintained on the Hanford Facility and available as
13 identified in Section J.6. Revisions to Addendum J require a Permit modification subject to [WAC-173-](#)
14 [303-830](#) and Permit Condition I.C.3.

15 The 325/RPL BEP also serves to satisfy a broad range of other requirements (e.g., Occupational Safety
16 and Health Administration standards [29 CFR 1910], *Toxic Substance Control Act of 1976* [40 CFR 761]
17 and U.S. Department of Energy Orders). Therefore, revisions made to portions of the 325/RPL BEP that
18 are not governed by the requirements of [WAC 173-303-350](#) and [-360](#) will not be considered as a
19 modification subject to [WAC 173-303-830](#) or Permit Condition I.C.3.

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

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

Requirement	Permit Attachment 4 <i>Hanford Emergency Management Plan</i> (DOE/RL-94-02)	325/RPL Building Emergency Plan	Permit Part III, Operating Unit Group 5, Addendum J
-350 (3)(a) - A description of the actions, which facility personnel must take to comply with this section and WAC 173-303-360	X ² Section 1.3.4	X ² Sections 6.1 and 6.2	X ² Section J.3
-350 (3)(b) - 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 WAC 173-303-370 (5), Manifest system, reasons for not accepting dangerous waste shipments.	X ² Section 1.3.4	X ² Section 6.2.3	X ² Section J.3.2.2.3
-350 (3)(c) - A description of the arrangements agreed to by local police departments, fire departments, hospitals,	X Sections 3.2.3, 3.3.1, 3.3.2, 3.4, 3.4.1.1,		

Requirement	Permit Attachment 4 Hanford Emergency Management Plan (DOE/RL-94-02)	325/RPL Building Emergency Plan	Permit Part III, Operating Unit Group 5, Addendum J
contractors, and state and local emergency response teams to coordinate emergency services as required in WAC 173-303-340 (4).	3.4.1.2, 3.4.1.3, 3.7, and Table 3-1		
- 350 (3)(d) - A current list of names, addresses, and phone numbers (office and home) of all persons qualified to act as the emergency coordinator required under WAC 173-303-360 (1). 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 Section 2.2	X ⁵ Section 3.1	X ⁵ Sections J.2 and J.7
- 350 (3)(e) - 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 Sections 10.0; Section 13.0, Attachments 1-3	X Section J.4
- 350 (3)(f) - 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 ⁶ Figure 7-3 and Table 5-1	X ⁷ Section 1.5; Section 13.0, Attachments 1-3, 7	X ⁷ Section J.1

1 An 'X' indicates requirement applies.

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

4 ² Permit Attachment 4, *Hanford Emergency Management Plan* (DOE/RL-94-02) contains descriptions of actions relating to the Hanford Site
5 Emergency Preparedness System. Other credible scenarios that exist at 325/RPL and all emergency procedures at 325/RPL that are different
6 from those in Attachment 4, must be identified in the 325/RPL BEP. The description of actions contained in the building emergency plan will be
7 used during an event by a building emergency director.

8 ³ This footnote is intended to be blank.

9 ⁴ This footnote is intended to be blank.

10 ⁵ Emergency Coordinator names and home telephone numbers are maintained with the PNNL Operations Center (telephone number 375-2400) in
11 accordance with Permit Condition II.A.3 and will be updated, at a minimum, monthly.

12 ⁶ The Hanford Facility (site wide) signals are provided in Attachment 4, table 5.1. 325/RPL specific communication equipment and warning
13 systems are provided in section J.4.3.

14 ⁷ Evacuation routes for occupied buildings surrounding the DWMU are posted on information boards within the buildings.

15

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

2 Evacuation routing maps will be maintained in the facility operating record and provide identification of
3 the primary and secondary staging areas and a general layout of each floor of the 325 Building as
4 provided in Section 13.0, Attachments 1-3 of the 325/RPL BEP. Alternate evacuation routes will be used
5 on a case-by-case basis based on meteorological conditions at the time of the event. (e.g. to avoid incident
6 in progress or to remain upwind).

7 **J.2 Building Emergency Director and Alternates**

8 The Incident Command System (ICS) and staff, with supporting on-call personnel, will meet the
9 requirements of the Emergency Coordinator as identified in [WAC 173-303-360\(1\)](#). The Building
10 Emergency Director (BED) will direct emergency response until the Incident Commander (IC) arrives.
11 The BED becomes a member of the ICP and functions under the direction of the IC. In this role, the BED
12 will continue to manage and direct 325/RPL operations. During events, 325/RPL personnel will perform
13 response duties under the direction of the BED. The senior Hanford Fire Department official manages the
14 Incident Command Post (ICP), unless the event is determined to be primarily a security event, in which
15 case the Hanford Fire Department and Hanford Patrol will operate under a unified command system with
16 Hanford Patrol making all the decisions pertaining to security. These individuals are designated as the IC
17 and as such, have the authority to request and obtain any resources necessary for protecting people and
18 the environment.

19 A listing of the BEDs by title, work location, and work telephone number, is contained in Section 3.1 of
20 the 325/RPL BEP. The BED will be on the premises or be available through an “on-call” list 24 hours
21 per day, 7 days per week. Names and home telephones numbers of the BEDs will be available from the
22 PNNL Operations Center (375-2400) in accordance with Permit condition II.A.3.

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

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

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

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

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

38 (ii) He must immediately notify the department and either the government official designated as the
39 on-scene coordinator, or the National Response Center (using their 24-hour toll free number (800)
40 424-8802).”

41 As soon as possible, after stabilizing event conditions, the BED will determine, in consultation with the
42 site contractor environmental single-point-of-contact, if notification to Ecology is needed to meet [WAC](#)
43 [173-303-360\(2\)\(d\)](#) reporting requirements. Additional information is found in Permit Attachment 4,
44 *Hanford Emergency Management Plan* (DOE/RL-94-02), Section 4.2.

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

5 The BED must assess each incident to determine the response necessary to protect the personnel, facility,
6 and the environment. If assistance from Hanford Patrol, Hanford Fire Department, or ambulance units is
7 required, the Hanford Emergency Response Number (911 from site office phones/373-0911 from cellular
8 phones) must be used to contact the PNNL Operations Center and request the desired assistance. To
9 request other resources or assistance from outside the 325/RPL, the PNNL Operations Center business
10 number is used (375-2400).

11 **J.3.1 Protective Action Responses**

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

15 **J.3.1.1 Building/Facility Evacuation**

16 If an evacuation is ordered or the evacuation siren sounds in the area of 325//RPL, personnel will proceed
17 to the appropriate staging area (refer to Section J.1).

18 The BED or Staging Area Manager directs the evacuation; however, to ensure that evacuations are
19 conducted promptly and safely, all personnel will be familiar with the correct evacuation procedure.

20 Area evacuations are either rapid or controlled, as pointed out in the following steps.

21 **J.3.1.2 Response to Audible Alarms**

Signal	Meaning	Actions
Slow Whoop followed by voice message	Fire	Vacate building; proceed to staging area.
Steady tone on whistle, klaxon horn, or siren	Area Evacuation	Vacate building; proceed to staging area Personnel in vehicles shall proceed to the nearest occupied facility and report to the staging area supervisor (SAS).
Wavering siren or short blasts on whistle, klaxon horn, or siren.	Take cover (Shelter)	Proceed to shelter or stay indoors. Close all exterior doors, turn off all intake ventilation (only if it can be done safely), and notify manager of whereabouts. Personnel in vehicles shall proceed to the nearest occupied facility and report to facility management. Staff should refrain from eating and drinking during a take cover event if physically able, until an appropriate evaluation of the event can be made.

AH-OO-GAH horn (howler) or flashing blue light (in high noise areas)	Nuclear criticality	Run at least 100 feet from building; proceed to staging area, along a path that does not take you closer to the building.
Variable color (red, amber) light with ringing bell or whistle	Airborne Radioactivity or Area Radiation Monitor	Stop work activities; immediately exit the area; notify Radiological Control personnel.
Communicator Notification System (CNS), telephone call displayed from 375-2121	Emergency Communications	Lift receiver, say “ HELLO ,” listen to the message and follow the actions designated.
Telephone Notification System (TNS)	Emergency Communications	Lift receiver, say “ HELLO ,” listen to the message and follow the actions designated.

1 **J.3.2 Potential Emergency Conditions and Appropriate Response**

2 **J.3.2.1 Explosion/Fire/Fire Alarm**

3 **Note:** During these events, it is likely that facility integrity may be compromised and that the facility will
4 also experience a concurrent loss of electrical power and/or control of the building ventilation systems. If
5 this is the case, refer to Sections 6.2, *Hazardous Material/Dangerous or Mixed Waste Spill* and Section
6 6.6, *Loss of Electrical Power/Reduced Ventilation* for concurrent actions as appropriate.

7 If you are involved with, or are in close proximity to an explosion, a fire, or discovery of a fire, or have
8 indication that the fire alarm is sounding, perform the following:

9 **J.3.2.1.1 Fire/Explosion**

- 10 • Sound the alarm by pulling the fire alarm pull box. See the guidance for the exception to this step
11 below.

12 **Exception to pulling the fire alarm:** If a simple and safe action can be taken that will immediately and
13 positively extinguish a small fire (e.g., pulling the plug on a malfunctioning lab instrument, isolating a
14 fuel source such as quickly closing a valve that is immediately at hand, smothering the flame), then
15 pulling the fire alarm pull box is not necessary, and the fire will be extinguished prior to calling the PNNL
16 Operations Center at 375-2400.

- 17 • Evacuate the building through the nearest exit that can be safely used.
- 18 • Once in a safe location, notify the PNNL Operations Center at 375-2400 and provide the
19 following information (if known):
- 20 • Nature and location of the event.
 - 21 • If the conditions of the event appear to be degrading, (i.e., the fire appears to be escalating or
22 building structures are being compromised).
 - 23 • Your name and callback telephone number.
 - 24 • Time event began or was discovered.
 - 25 • Report the number of any injured personnel.
 - 26 • If known, include the following: name(s) and amount(s) of any chemical(s) that are involved
27 or may be burning as a result of the fire.

28 **Note:** The fire department can be notified directly by calling (9)911 or 373-0911(cell). If the fire
29 department was contacted using this option, also call the PNNL Operations Center at 375-2400 as soon as
30 possible to initiate PNNL management notification and emergency response.

- If time permits, and without putting yourself in jeopardy, you may fight the fire under the following conditions:
 - Verify that someone has called the PNNL Operations Center at 375-2400, (9)911 or 373-0911(cell).
 - Direct someone to pull the fire alarm pull box.
 - Must be willing, able, and knowledgeable about the selection of fire extinguisher and its use.

Note: Fire extinguishers equipped with the glove piercing tips are for HFD use only.

- If the fire is in a hot cell, attempt to smother the fire, or for a large fire, put the fire out using the fire extinguishing system, if you are trained to do so.
- If the fire is in a glove box, do not attempt to fight the fire using the gloves. Isolate supply air to the glove box if safe to do so.
- If the fire is small and you know what material is burning and the fire does not involve significant quantities of hazardous materials and does not present a personnel exposure hazard to smoke or significant heat.
- If you have chosen to fight the fire, and after the fire is believed to be out, call the PNNL Operations Center at 375-2400 and inform them of your actions.
 - Unless there are significant amounts of smoke or fumes, remain in the proximity of the fire to verify that the fire does not re-flash.
 - In the event the fire re-flashes, repeat these actions and do not attempt to fight the fire on your own.

J.3.2.1.2 Fire Alarm

- If time permits, and without placing yourself in jeopardy, perform the following:
 - Verify equipment is shutdown or is in a safe configuration.
 - Verify nuclear materials are secured.
 - Zone wardens will perform an accountability sweep of their assigned areas.
 - Evacuate the building through the nearest exit that can safely be used.
 - Assemble at the staging area located at the lower south parking lot, north end of lane #9.
 - Zone wardens will report the status of their accountability sweep to the SAS.
 - If classified materials (documents, electronic storage media, test materials, etc.) are removed from the Limited Area (LA) or left unsecured within the LA:
 - Inform the SAS that classified material has been left in an unsecured condition or has been removed from the LA.
 - Call the PNNL Operations Center at 375-2400 and report the details surrounding the classified materials security event.
 - The SAS will provide information to the BED concerning the classified material.
 - Personnel who are wearing PPE clothing or are suspected of being contaminated will be segregated from other building occupants and will be surveyed by radiological control personnel. PPE will be discarded as directed by the RPT.
 - Zone wardens and all staff will remain at the staging area and follow the instructions of the BED.

1 **J.3.2.2 Hazardous Material/Dangerous or Mixed Waste Spill**

2 **J.3.2.2.1** Spills can result from many sources including process leaks, container spills or leaks,
3 damaged packages or shipments, or personnel error. Spills of mixed waste are complicated
4 by the need to deal with the extra hazards posed by the presence of radioactive materials.

5 The discoverer will notify the BED and will initiate the following:

- 6 • Move personnel away from the substance.
- 7 • Notify nearby personnel of the emergency.
- 8 • Prevent personnel exposure by restricting access to the spill area by setting up barricades, closing
9 doors, etc.
- 10 • Notify the PNNL Operations Center at 375-2400 and provide the following:
 - 11 • Nature and location of the event.
 - 12 • Name(s) of chemicals involved, amounts, sources, and known hazards about the chemicals.
 - 13 • If the spill has been contained.
 - 14 • If any material has been released to the environment.
 - 15 • Any corrective actions in progress.
 - 16 • Name(s) of anyone contaminated or injured in connection with the incident.
 - 17 • Other hazards that may or may not be related to the spill.
 - 18 • Time incident began or was discovered.
 - 19 • The current status of the event, i.e., spill contained or not contained, etc.
 - 20 • Name, location, and callback telephone number of person reporting the incident.
- 21 • Notify the BED, CSM, and the safety and health representative.
- 22 • Take steps to contain the spill/release IF and only IF:
 - 23 • The identity of the substance is known.
 - 24 • The hazards of the substance are known (flammable, toxic, radioactive, corrosive material)
25 and can either be controlled or they do not present an immediate threat.
 - 26 • Appropriate PPE and control/cleanup supplies are readily available.
 - 27 • The individual(s) performing the task have had training related to spill/leak control and can
28 safely perform the action(s) without assistance, or assistance is readily available from other
29 trained personnel.
- 30 • Steps to contain the spill/release may include, as appropriate:
 - 31 • Build a containment of absorbent materials and restrict access to the affected area.
 - 32 • Tighten closures; tip the container to stop the leak, use plugging, or patching materials or
33 over packing.
 - 34 • Perform initial cleanup of the spill area by transferring contents to appropriate non-leaking
35 containers using the appropriate procedures and tools.

36 **J.3.2.2.2 For a major spill/release, or tank spills, perform the following actions.**

- 37 • If the spill/release threatens the health and safety of building occupants such that a building
38 evacuation is necessary, initiate a building evacuation by pulling the fire alarm. If a building
39 evacuation is not necessary, ignore the next bullet item regarding evacuation and staging.
- 40 • Assemble at the staging area located at the lower south parking lot, north end of lane #9.
- 41 • Zone wardens will report to the SAS.

- 1 • If classified materials (documents, electronic storage media, test materials, etc.) are removed
- 2 from the LA or left unsecured within the LA:
- 3 • Inform the SAS that classified material has been left in an unsecured condition or has been
- 4 removed from a LA.
- 5 • Call the PNNL Operations Center at 375-2400 and report the details surrounding the
- 6 classified materials security event.
- 7 • The SAS will provide information to the BED concerning the classified material.
- 8 • Personnel who are wearing PPE clothing or are suspected of being contaminated will be
- 9 segregated from other building occupants and will be surveyed by radiological control
- 10 personnel. PPE will be discarded as directed by the RPT.
- 11 • Zone wardens and all staff will remain at the staging area and follow the instructions of the
- 12 BED.
- 13 • Move personnel away from the substance.
- 14 • Notify nearby personnel of the emergency.
- 15 • Notify the PNNL Operations Center at 375-2400 and provide the following:
- 16 • Name, location, and callback telephone number of person reporting the incident.
- 17 • Name of chemical(s) involved and amount(s) involved in the incident.
- 18 • Location of incident (identify as closely as possible and include information about multiple
- 19 building numbers).
- 20 • Time incident began or was discovered.
- 21 • Where the materials involved are going or might go, such as into secondary containment,
- 22 under doors, through air ducts, etc.
- 23 • source and cause, if known,
- 24 • Name of anyone contaminated or injured in connection with the incident.
- 25 • Any corrective actions in progress.
- 26 • Anyone else who the discoverer has contacted.
- 27 • Any known hazards.
- 28 • Where and when the chemical condition or spill occurred.
- 29 • If any material was released to the environment (e.g., to a stack or a sewer system).
- 30 • The status of the situation.
- 31 • Prevent personnel exposure (e.g., set up barricades).
- 32 • Contact the Cognizant Space Manager (CSM).
- 33 • Notify the safety and health representative.
- 34 • Take steps to contain the spill ONLY IF ALL THE FOLLOWING EXIST:
- 35 • The identity of the substance is known.
- 36 • The hazards of the substance are known (flammable, toxic, radioactive, corrosive material)
- 37 and can either be controlled or they do not present an immediate threat.
- 38 • Appropriate protective equipment and control/cleanup supplies are readily available.
- 39 • The individual(s) performing the task have had training related to spill/leak control and can
- 40 safely perform the action(s) without assistance, or assistance is readily available from other
- 41 trained personnel.

- 1 • Initiate actions to mitigate a tank spill/leak using trained personnel:
- 2 • Stop the source of the leak if possible (shutting valves, turning off pumps, etc.).
- 3 • Prevent further additions of liquid to the tank.
- 4 • Visually inspect the tank system to determine the source of the leak.
- 5 • Within 24 hours, remove as much of the liquid from the tank as is practicable to prevent
- 6 further leakage.
- 7 • Remove any leakage contained in a secondary containment within 24 hours or as soon as
- 8 practicable.
- 9 • Prevent any further leakage or migration of the leak to soils or surface waters.
- 10 • Notify the BED, the CSM, and the safety and health representative of any pertinent information
- 11 that you may have.
- 12 • The discoverer of the spill will provide a synopsis of the event and the actions taken to the
- 13 BED, CSM, and the safety and health representative.
- 14 • Upon completion of the event briefing, the BED will direct spill event mitigation activities.

15 **J.3.2.2.3** For events that involve transportation and/or damaged packaging of hazardous material or
16 dangerous waste that arrives at the RPL:

- 17 • DO NOT move the shipment.
- 18 • Notify the BED, CSM, and the safety and health representative.
- 19 • The receiver of the shipment or discoverer of the damaged package will provide a synopsis of
- 20 the situation and the actions taken if any, to the BED, CSM, and the safety and health
- 21 representative.
- 22 • The BED will evaluate the event and initiate appropriate actions for minor events/spills per
- 23 Section 6.2.1 or 6.2.2 as appropriate.
- 24 • Treat any release from the package as a hazardous material spill and perform response actions
- 25 as appropriate.
- 26 a. For events that involve transportation and/or damaged packaging of hazardous material or
- 27 dangerous waste that arrives at the RPL

28 **J.3.3 Incident Recovery**

29 A written recovery plan is needed following an event when the recovery actions could result in further
30 risk to human health or the environment. This written recovery plan will be developed in accordance with
31 Permit Attachment 4, *Hanford Emergency Management Plan* (DOE/RL-94-02), Section 9.2. Permit
32 Attachment 4, *Hanford Emergency Management Plan* (DOE/RL-94-02), Section 5.1, also discusses
33 different reports to outside agencies.

34 If the contingency plan was implemented, Ecology will be notified before operations can resume [[WAC](#)
35 [173-303-360\(2\)\(j\)](#)]. This notification must include the following statements:

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

40 The notification required by [WAC 173-303-360\(2\)\(j\)](#) may be made via telephone conference and
41 documentation of the notification will be included in the 325/RPL operating record. Additional
42 information that Ecology requests will be included in the required 15 day report identified in Section J.5
43 and required by [WAC 173-303-360\(2\)\(k\)](#).

1 **J.3.4 Incompatible Waste**

2 After an emergency, the BED or the onsite recovery organization will ensure that no waste that may be
3 incompatible with the released material is treated, stored, or disposed of until cleanup procedures are
4 completed pursuant to [WAC 173-303-360](#)(2)(i). Clean up actions will be taken by 325/RPL personnel or
5 other assigned personnel. Permit Attachment 4, *Hanford Emergency Management Plan* (DOE/RL-94-
6 02), Section 9.2.3, describes actions to be taken.

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

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

13 **J.3.5 Restart of Operations**

14 Restart of the facility following emergencies will be conducted in a manner consistent with the recovery
15 plan. If the event involved a container storage area within the 325/RPL DWMU, the container storage
16 and containment system will be evaluated before operations resume. If the event involved a tank system
17 leak, repairs must be certified by an independent, qualified, registered professional engineer in accordance
18 with [WAC 173-303-640](#).

19 **J.4 Emergency Equipment**

20 Support equipment available to assist in responding to an emergency can be found by referring to
21 *Hanford Emergency Management Plan* (DOE/RL 94-02), Section 11.2 and the Hanford Fire Department
22 emergency equipment listing in Appendix C of DOE/RL 94-02.

23 **J.4.1 Portable Emergency Equipment**

24 None

25 **J.4.2 Fire Control Equipment**

- 26 • Portable Class ABC Fire Extinguishers will be located throughout the facility. Each Class ABC
27 extinguisher is capable of suppressing fires involving ordinary combustible materials, flammable
28 liquids, oils, paints, flammable gases, and fires involving electrical equipment. Class D
29 extinguishers will be located in areas vulnerable to Class D fires if reactive metals are stored there
30 (e.g., dangerous waste storage room). Manual dry chemical fire extinguishers will be installed in
31 the SAL hot cells and will be available outside the HLRF A and B hot cells. The fire extinguisher
32 locations will be identified on the floor plans (Attachments 1-3 of the 325/RPL Building
33 Emergency Plan).
- 34 • Portable Class ABC Fire Extinguishers with piercing tips will be located in each lab that contains
35 a glovebox. These extinguishers will be for the HFD use only. The piercing tipped fire
36 extinguisher locations will be identified on the floor plans (Attachments 1-3 of the 325/RPL
37 Building Emergency Plan).
- 38 • RPL will be equipped with an automatic fire detection, alarm, and suppression system. Five wet
39 pipe and one dry pipe sprinkler system will provide automatic fire suppression.
- 40 • A Mobile Command Post Vehicle will be obtained from the Hanford Fire Department (HFD) at
41 373-2230. The HFD Battalion Commander will approve and dispatch the vehicle.

1 **J.4.3 Communications Equipment/Warning Systems**

- 2 • Fire alarm pull boxes will be located throughout the facility. The primary locations will be at all
3 exits of the facility. All locations will be shown on the floor plans (Attachments 1-3 of the
4 325/RPL Building Emergency Plan).
- 5 • Hanford Site Telephone Notification System (TNS) is a component of the Hanford Emergency
6 Notification System and designed to use the existing telephone system to notify individual
7 employees. When the phone is answered, a recorded message will provide event information and
8 inform staff of actions they are expected to take.
- 9 • PNNL Communicator Notification System (CNS) is a system that will allow emergency
10 messages to be communicated quickly to all staff via the PNNL phone system. Phones at PNNL
11 in offices, conference rooms, and common areas such as lobbies, conference rooms, and
12 lunchrooms will be connected to the system. When the phone is answered a recorded message
13 will provide event information and inform staff of actions they are expected to take.
- 14 • A criticality alarm system (CAS) is present in the building. The system will be equipped with
15 neutron sensitive criticality detectors. The CAS alarms in locations where the expected dose
16 from an accidental criticality may exceed 12-rads in free air. The system will be tested and
17 maintained in accordance with preventive maintenance procedures.
- 18 • Other non-emergency communications equipment installed in RPL include:
 - 19 • Public address system. (#8 on any RPL phone)
 - 20 • Public address system in the fire alarm control panel.
 - 21 • Commercial telephone system that can be used to summon assistance during an emergency.
 - 22 • Hand held radios will be provided by the BED.

23 Note: These systems are not considered emergency equipment and may not be available during
24 all types of emergencies.

25 **J.4.4 Personal Protective Equipment (PPE)**

26 Safety showers and eyewash units will be installed at several locations throughout the facility including
27 waste storage areas. All locations will be shown on the floor plans (Attachments 1-3 of the 325/RPL
28 Building Emergency Plan).

29 Personnel protective clothing and respiratory equipment will be available in the facility for use during
30 both routine and emergency operations. This equipment includes:

- 31 • Chemically resistant suits, aprons, boots, and gloves.
- 32 • Protective glasses.
- 33 • Chemical goggles.
- 34 • Face shields.
- 35 • Full-face respirators with extra cartridges.
- 36 • Radiological clothing.

37 Kits containing a variety of radiation monitoring instruments, forms, and equipment will be available for
38 use in an emergency. PNNL maintains these kits, which contain protective apparel, instruments, and
39 equipment for personnel decontamination and other immediate emergency needs. These supplies and
40 equipment will fulfill immediate needs during the initial stages of an emergency.

1 **J.4.5 Spill Control and Containment Supplies**

2 Spill kits will be located throughout the facility. Additional spill kit materials will be obtained in room
3 527. The following emergency equipment is maintained in (or adjacent to) each of the 90-day hazardous
4 waste accumulation areas. The amount of material maintained varies depending on the amount of waste
5 being accumulated at the individual 90-day area.

- 6 • Commercially available granular absorbent (e.g. diatomaceous earth)
- 7 • Absorbent pads
- 8 • Commercially available acid neutralizer¹ (e.g. granular sodium bicarbonate)
- 9 • Commercially available caustic neutralizer² (e.g. dilute boric acid solution)
- 10 • Personal Protective Equipment
 - 11 • Safety glasses with side shields
 - 12 • Lab coat
 - 13 • Leather gloves
 - 14 • Chemical resistant gloves (e.g. nitrile)

15 ¹ Required in accumulation areas containing liquid acidic wastes.

16 ² Required in accumulation areas containing liquid caustic wastes

17 **J.5 Required Reports**

18 Post incident written reports are required for certain incidents with 325/RPL. The reports are described in
19 Permit Attachment 4, *Hanford Emergency Management Plan* (DOE/RL-94-02), Section 5.1.

20 Facility management will note in the Hanford Facility Operating Record, 325/RPL file, the time, date, and
21 details of any incident that requires implementation of the contingency plan. Within fifteen (15) days
22 after the incident, a written report must be submitted to Ecology. The report must include the elements
23 specified in [WAC 173-303-360\(2\)\(k\)](#).

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

25 Copies of Attachment 4 [*Hanford Emergency Management Plan* (DOE/RL-94-02)] will be
26 maintained per permit condition I.M.1. Copies of the Building Emergency Plan and 325/RPL Permit
27 Addendum J will be maintained at the following locations:

- 28 • DWMU Room 528
- 29 • SAL Room 201

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

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

33 **J.7 Building Emergency Response Organization**

325 HTWUs Building Emergency Directors		
TITLE	WORK LOCATION	WORK PHONE
Building Emergency Director	Various	375-5352

34 Names and home telephone numbers of the BEDs are available from the PNNL Single Point Contact
35 (375-2400) in accordance with Permit Condition II.A.3.

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