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STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

3100 Port of Benton Blvd • Richland, WA 99352 • (509) 372-7950

January 27, 2006

Mr. Keith A. Klein, Manager
Richland Operations Office
United States Department of Energy
P.O. Box 550, MSIN: A7-50
Richland, Washington 99352

Mr. John C. Fulton
Washington Closure Hanford, LLC
3070 George Washington Way, MSIN: L1-04
Richland, Washington 99354

RECEIVED
JAN 30 2006

EDMC 3:30p.m

Dear Mr. Klein and Mr. Fulton:

Re: Public Comment Period for the Proposed Changes to the M-89-00 Tri-Party Agreement Milestone and Amended 324 Building Closure Plan

This letter transmits proposed changes to the M-89-00 Tri-Party Agreement Milestone and Amended 324 Building Closure Plan.

The public comment period package includes the following:

- A copy of the Milestone M-89-00 Tentative Agreement and Revised Change form.
- Fact Sheet regarding M-89-00 Tri-Party Agreement Milestone and Amended 324 Building Closure Plan.
- *324 Building Radiochemical Engineering Cells, High-Level Vault, Low-Level Vault, and Associated Closure Plan, DOE/RL-96-73, Revision 3.*
- *Determination of Nonsignificance for the 324 Building Radiochemical Engineering Cells, High-Level Vault, Low-Level Vault, and Associated Areas.*

In accordance with Washington Administrative Code (WAC) 173-303-840(3), public comment period to review the documents will last 45 days. The public comment period started January 17, 2006, and ends March 6, 2006. A public hearing is not scheduled at this time. If a public hearing is requested during the comment period, the hearing will be held at the Ecology office, 3100 Port of Benton Boulevard, Richland, after a 30-day notice has been published as required by WAC 173-303-840. Ecology has distributed copies of the public comment materials for public review to the Hanford Public Information Repositories in Richland, Spokane, Seattle, and Portland.

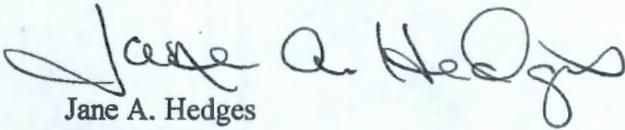


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Mr. Keith A. Klein and Mr. John C. Fulton
January 27, 2006
Page 2

If there are any questions regarding this letter, please contact Rick Bond at (509) 372-7885.

Sincerely,



Jane A. Hedges
Program Manager
Nuclear Waste Program

VP:pll

Enclosures (4)

cc w/o enclosures:

Rudy Guercia, USDOE
Stuart Harris, CTUIR
Gabriel Bohnee, NPT
Russell Jim, YN
Todd Martin, HAB
Ken Niles, ODOE
Administrative Record
Environmental Portal

TENTATIVE AGREEMENT ON CHANGES TO THE M-89-00 MAJOR MILESTONE FOR COMPLETING CLOSURE OF THE 324 BUILDING

The U. S. Department of Energy, Richland Operations Office (RL) and the State of Washington Department of Ecology (Ecology), together (Parties), have concluded negotiations on revisions to the Hanford Federal Facility Agreement and Consent Order (HFFACO) M-89-00 Major Milestone, Complete Closure of Non-Permitted Mixed Waste Units in the 324 Building REC B-Cell, REC D-Cell, and High Level Vault

Tentative agreement has been reached. The proposed change package has been developed in accordance with the HFFACO. The enclosed HFFACO Change Request No. M-89-04-01 is mutually agreeable to RL, Ecology, and the U.S. Environmental Protection Agency, Region 10, (EPA), collectively the Parties. In a separate but parallel action, Ecology is proposing to approve and is seeking comment on an amended 324 Building Radiochemical Engineering Cells, High Level Vault, Low-Level Vault, and Associated Areas Closure Plan, DOE/RL-96-73 (324 Building Closure Plan).

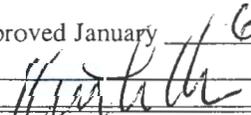
Through the proposed HFFACO change package, the Parties intend to modify the due date for the M-89-00 major milestone from October 31, 2005, to September 30, 2010, so that it aligns with the September 30, 2010, due date for HFFACO Milestone M-094-03. The M-094-03 interim milestone requires the complete disposition of the 324 Building. The M-89-00 Major Milestone workscope is a parallel activity with the M-094-03 interim milestone and the Parties believe it is appropriate to align the workscope under the same due date.

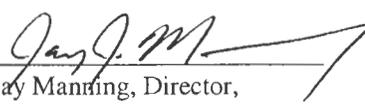
The Parties believe that the 324 Building Closure Plan amendments being considered by Ecology together with this HFFACO change package provide a very defensible approach to satisfying dangerous waste closure requirements in full integration with HFFACO milestones governing 300 Area facility disposition. The Parties believe that by satisfying dangerous waste closure requirements through building disposition instead of extensive decontamination activities, a net increase in protectiveness will be achieved through minimization of waste generation and worker radiation exposure.

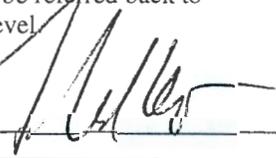
Final approval of this change package by the Parties is subject to public comment and appropriate change request modifications, if required following consideration of any comments received. With this Tentative Agreement, the Parties agree to submit the proposed M-89-04-01 Change Package for a 45-day public comment period to run from January 17, 2006, through March 6, 2006. Ecology is separately submitting the proposed amendments to the 324 Building Closure Plan for public comments during a concurrent comment period. Following conclusion of the public comment period, a response to comments document will be prepared, and the change request will be revised if necessary to address public comments, and signed by the Parties. Following approval, the M-89-04-01 Change Request will be incorporated into the HFFACO.

The parties also agree that to minimize additional delay, and if the parties are not able to resolve all issues with regard to comments, any unresolved matters concerning the change package shall be referred back to dispute resolution under the Tri-Party Agreement, Article VII at the Project Manager level.

Approved January 6, 2006.


Keith A. Klein, Manager,
U.S. Department of Energy,
Richland Operations Office


Jay Manning, Director,
State of Washington, Department
Of Ecology


L. M. Bogert, Regional Administrator,
U.S. Environmental Protection
Agency, Region 10

Change Number	Federal Facility Agreement and Consent Order Change Control Form	Date:
M-89-04-01	Do not use blue ink. Type or print using black ink.	November 17, 2005

Originator: K. A. Klein, RL/Dale Jackson, RL **Phone:** 509-376-7395/509-376-8086

Class of Change:

<input checked="" type="checkbox"/> I - Signatories	<input type="checkbox"/> II - Executive Manager	<input type="checkbox"/> III - Project Manager
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Change Title:
Extend Completion Due Date for Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Major Milestone M-89-00 to Align with Tri-Party Agreement Interim Milestone M-094-03 Due Date

Description/Justification of Change:
The U.S. Department of Energy, Richland Operations Office (RL), the State of Washington, Department of Ecology (Ecology), and the U.S. Environmental Protection Agency (EPA), hereinafter referred to as the Parties, agreed to cleanup schedules consistent with the common objective to achieve remediation of waste sites and facilities located along the Columbia River by September 30, 2015. (See Tri-Party Agreement Change Number M-94-04-01) The work scope identified in Tri-Party Agreement Interim Milestone, M-094-03, *Complete Disposition of the following Surplus Facilities: 303M, 332, 333, 334, 334A, 3221, 3222, 3223, 3224, 3225, 324, 324B, 327 (See Tri-Party Agreement Change Number M-094-01-01, Table 1)* includes the complete disposition of the 324 Building by September 30, 2010.

The scope of Tri-Party Agreement Major Milestone M-89-00 is to complete closure of non-permitted mixed waste units in the 324 Building. This work scope will be carried out as described in the *324 Building Radiochemical Engineering Cells, High Level Vault, Low-Level Vault, and Associated Areas Closure Plan, DOE/RL-96-73 (324 Building Closure Plan)*.

In July 2002, an amendment to the 324 Building Closure Plan was prepared and submitted to Ecology. The amendment was approved by Ecology in December 2002. The purpose of the amendment was to change the existing path forward as described in the 324 Building Radiochemical Engineering Cells, High-Level Vault, Low-Level Vault, and Associated Areas Building Closure Plan from one of clean closure of the units by decontaminating the structure by October 31, 2005, to a path where the high risk materials and wastes were removed from the facility by July 31, 2001 (Milestone M-89-02), followed by complete disposition of the 324 Building by September 30, 2010. Additional changes were submitted to Ecology in January 2004, April 2005, and September 2005. Through a separate notice and comment process concurrent with that associated with this change package, Ecology is proposing and seeking public comment on the September 2005 version of the 324 Building closure plan.

The Tri-Party Agreement Major Milestone M-89-00 workscope is a parallel activity with Tri-Party Agreement Interim Milestone M-094-03 workscope. Since the amended 324 Building closure plan is now based on disposition of the entire facility, RL will not be able to submit to Ecology a certification of closure according to the approved closure plan until after complete disposition of the 324 Building by September 30, 2010. Therefore, the purpose of this milestone is to change the due date for the M-89-00 milestone from October 31, 2005 to September 30, 2010 to align with the M-094-03 due date. M-094-03 is not impacted by this change package.

Modifications/deletions of existing milestones are denoted using ~~strikeout~~; additions are denoted with shading.

Milestone Number	Title	Due
M-89-00	<i>Complete Closure of Non-Permitted MW Units in the 324 Building REC B-Cell, REC D-Cell, and High Level Vault</i>	10/31/2005 09/30/2010

Impact of Change:
This change Package modifies the date of the major milestone M-89-00

Affected Documents:
The Tri-Party Agreement as amended and Hanford Site internal planning, management, budget documents (e.g., USDOE and USDOE contractor Baseline Change Control documents; Multi-Year Work Plan; Sitewide Systems Engineering Control Documents; Project Management Plans, and, if appropriate, LDR Report requirements) and the *324 Building Radiochemical Engineering Cells, High Level Vault, Low-Level Vault, and Associated Areas Closure Plan, DOE/RL-96-73*.

Approvals:

_____	_____	_____ Approved	_____ Disapproved	
K. A. Klein, RL Manager	Date			
_____	_____	_____ Approved	_____ Disapproved	
L. M. Bogert, EPA Regional Administrator	Date			
_____	_____	_____ Approved	_____ Disapproved	
J. Manning, Ecology Director	Date			

WAC 197-11-970 Determination of nonsignificance (DNS).

DETERMINATION OF NONSIGNIFICANCE

Description of proposal

The Hanford Facility, 324 Building Radiochemical Engineering Cells (REC), High-Level Vault (HLV), Low-Level Vault (LLV), and Associated Areas will be closed with respect to dangerous waste contamination that resulted from treatment operations as a Resource Conservation and Recovery Act (RCRA) of 1976 treatment, storage, and/or disposal (TSD) unit.

Proponent

U.S. Department of Energy, Richland Operations Office (DOE-RL).

Location of proposal, including street address, if any

U.S. Department of Energy
Richland Operations Office
P.O. Box 550
Richland, Washington 99352

Lead agency

Washington State Department of Ecology
P.O. Box 47600
Olympia, Washington 98504-7600

The lead agency for this proposal has determined that it does not have a probable significant adverse impact on the environment. An environmental impact statement (EIS) is not required under RCW 43.21C.030 (2)(c). This decision was made after review of a completed environmental checklist and other information on file with the lead agency. This information is available to the public on request.

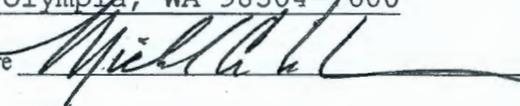
There is no comment period for this DNS.

Responsible official Michael A. Wilson

Position/title Manager, Nuclear Waste Program Phone. (306) 407-7950

Address P.O. Box 47600, Olympia, WA 98504-7600

Date. 11/30/05

Signature 

**STATE ENVIRONMENTAL POLICY ACT
ENVIRONMENTAL CHECKLIST**

FOR THE

**HANFORD FACILITY,
324 BUILDING RADIOCHEMICAL ENGINEERING CELLS,
HIGH-LEVEL VAULT, LOW-LEVEL VAULT, AND
ASSOCIATED AREAS CLOSURE PLAN**

REVISION 2

SEPTEMBER 2005

**WASHINGTON ADMINISTRATIVE CODE
ENVIRONMENTAL CHECKLIST
[WAC 197-11-960]**

1

A. BACKGROUND**2 1. Name of proposed project, if applicable:**

3 This *State Environmental Policy Act (SEPA) of 1971* Environmental Checklist is being submitted for
4 closure of the Hanford Facility, 324 Building Radiochemical Engineering Cells (REC), High-Level Vault
5 (HLV), Low-Level Vault (LLV), and Associated Areas. The waste in these aforementioned areas will be
6 removed or treated then removed and the areas closed with respect to dangerous waste contamination that
7 resulted from treatment operations as a *Resource Conservation and Recovery Act (RCRA) of 1976*
8 treatment, storage, and/or disposal (TSD) unit.

9

10 2. Name of applicants:

11 U.S. Department of Energy, Richland Operations Office (DOE-RL).

12

13 3. Address and phone number of applicants and contact persons:

14 U.S. Department of Energy
15 Richland Operations Office
16 P.O. Box 550
17 Richland, Washington 99352

18

19 Contact:

20

21 Keith A. Klein, Manager
22 Richland Operations Office
23 (509) 376-7395

24

25 4. Date checklist prepared:

26 September 2005.

27

28 5. Agency requesting the checklist:

29 Washington State Department of Ecology
30 P.O. Box 47600
31 Olympia, Washington 98504-7600

32

33 6. Proposed timing or schedule: (including phasing, if applicable):

34 This SEPA Environmental Checklist is being submitted concurrently with a draft closure plan prepared in
35 accordance with Washington Administrative Code (WAC) 173-303 Dangerous Waste Regulations. The
36 draft closure plan will be submitted to the Washington State Department of Ecology by September 2005.

37

**38 7. Do you have any plans for future additions, expansion, or further activity related to or
39 connected with this proposal? If yes, explain.**

40 Yes. Closure of the 324 Building mixed waste units (*Federal Facility Agreement and Consent Order*
41 Milestone M-89-00) will be performed in parallel with the complete disposition of the

1 324 Building (under Milestone M-094-03). The complete disposition of the 324 Building will be
2 addressed as a separate project, as necessary, as part of the preparation for M-094-03 activities.

3
4 **8. List any environmental information you know about that has been prepared, or will be**
5 **prepared, directly related to this proposal.**

6 This revised SEPA Environmental Checklist is being submitted to Ecology to address the 324 Building
7 mixed waste unit closure activities. Previously, Revision 0 of this SEPA Environmental Checklist,
8 submitted concurrently with the Notice of Intent for the Hanford Facility, was submitted in March 1998.
9 Revision 1 of this SEPA Environmental Checklist was submitted with Revision 2 of the closure plan in
10 May 2005.

11
12 Final disposition of the 300 Area, including the 324 Building, will be addressed in appropriate
13 *Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980*
14 documentation as identified in the M-094 series milestones of the *Hanford Federal Facility Agreement*
15 *and Consent Order* (Tri-Party Agreement).

16
17 General information concerning the Hanford Facility environment can be found in the *Hanford Site*
18 *National Environmental Policy Act (NEPA) Characterization*, PNL-6415, Revision 16, September 2004.
19 This document is updated annually by Pacific Northwest National Laboratory (PNNL), and provides
20 current information concerning climate and meteorology, ecology, history and archeology,
21 socioeconomic, land use and noise levels, and geology and hydrology. These baseline data for the
22 Hanford Site and past activities are useful for evaluating proposed activities and their potential
23 environmental impacts.

24
25 The "Radioactive Air Emissions Notice of Construction for Deactivation Activities at the 324 Building",
26 DOE/RL-96-73, Revision 1, December 2001, is in place.

27
28 **9. Do you know whether applications are pending for government approvals of other proposals**
29 **directly affecting the property covered by your proposal? If yes, explain.**

30 No other applications are pending. However, the 324 Building lies within CERCLA operable units (OU)
31 300-FF-2 and 300-FF-5 as designated by the Tri-Party Agreement. These OUs are scheduled to be
32 remediated under CERCLA using the remedial investigation and feasibility study process.

33
34 **10. List any government approvals or permits that will be needed for your proposal, if known.**

35 DOE-RL and Ecology will approve the 324 REC/HLV closure plan. Closure of the 324 Building mixed
36 waste units (Tri-Party Agreement Milestone M-89-00) will be performed in parallel with the complete
37 disposition of the 324 Building (under Milestone M-094-03). The complete disposition/demolition of the
38 324 Building will be performed as a separate project as part of Tri-Party Agreement Milestone M-094-03
39 activities, which will be covered by CERCLA documentation.

40
41 **11. Give brief, complete description of your proposal, including the proposed uses and the size of**
42 **the project and site. There are several questions later in this checklist that ask you to describe**
43 **certain aspects of your proposal. You do not need to repeat those answers on this page.**

44 The DOE-RL proposes closure of a non-permitted TSD unit housed within the 324 Building. The closure
45 unit boundary was developed using the data quality objective process. The areas of the building requiring
46 closure activities include B-Cell, D-Cell, the REC airlock, the REC airlock pipe trench, the HLV, the

1 LLV, the HLV sample room (Room 145), the Engineering Development Lab-146, the galleries, and
2 Room 18.

3
4 After the waste inventory has been removed, clean closure of the REC, the HLV, and LLV, the piping,
5 and associated areas will be accomplished by removing these components to meet the closure
6 performance standard. Closure of the HLV and LLV will include removal of the tanks and all metal and
7 concrete surfaces to meet the performance standard. Piping that has transported dangerous waste to or
8 from an area within the closure boundary will be removed. For piping embedded in concrete, the piping
9 and concrete will be removed. Closure activities also will include removal of the cell liners and piping,
10 HLV and LLV tanks, liners and piping, pipe trench piping and concrete, HLV sample room piping,
11 Engineering Development Lab-146 piping from HLV and LLV, galleries piping from HLV and LLV, and
12 Room 18 piping from HLV and LLV and associated contaminated concrete. The piping, tanks, liners and
13 concrete that is removed will be treated and disposed in compliance with the State's Dangerous Waste
14 Rules found in Washington Administrative Code (WAC) Chapter 173-303 *Dangerous Waste Regulations*.

15
16 Closure activities will include removal of the TSD unit components and removal of soil to a depth of
17 0.5 meter under the TSD unit footprint (i.e., the boundary developed during the DQO process), as
18 addressed in the closure plan. Soil and groundwater contamination existed prior to operations of the
19 324 Building TSD unit. The pre-existing soil and groundwater contamination will be addressed through
20 300 Area CERCLA soil remediation activities.

21
22 Closure of the 324 Building closure areas will be performed in accordance with the Ecology-approved
23 closure plan.

24
25 **12. Location of the proposal. Give sufficient information for a person to understand the precise**
26 **location of your proposed project, including a street address, if any, and section, township, and**
27 **range, if known. If a proposal would occur over a range of area, provide the range or**
28 **boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic**
29 **map, if reasonably available. While you should submit any plans required by the agency, you**
30 **are not required to duplicate maps or detailed plans submitted with any permit applications**
31 **related to this checklist.**

32 The 324 Building is located near the corner of Locust Street and the George Washington Way Extension
33 north of the city of Richland, in the 300 Area of the Hanford Site.

TO BE COMPLETED BY APPLICANT

**EVALUATIONS FOR
AGENCY USE ONLY**

1 **B. ENVIRONMENTAL ELEMENTS**

2 **1. Earth**

3 **a. General description of the site (circle one): Flat, rolling, hilly,**
4 **steep slopes, mountainous, other _____.**

5 Flat.

6
7 **b. What is the steepest slope on the site (approximate percent**
8 **slope)?**

9 The approximate slope of the land is less than 2 percent.

10
11 **c. What general types of soils are found on the site? (for example,**
12 **clay, sandy gravel, peat, muck)? If you know the classification of**
13 **agricultural soils, specify them and note any prime farmland.**

14 Soil types consist mainly of eolian and fluvial sands and gravel.
15 More detailed information concerning specific soil classifications
16 can be found in the *Hanford Site National Environmental Policy Act*
17 *(NEPA) Characterization*, PNL-6415, Revision 16, September 2004.
18 Farming is not permitted on the Hanford Facility.

19
20 **d. Are there surface indications or history of unstable soils in the**
21 **immediate vicinity? If so, describe.**

22 No.

23
24 **e. Describe the purpose, type, and approximate quantities of any**
25 **filling or grading proposed. Indicate source of fill.**

26 No filling or grading is required.

27
28 **f. Could erosion occur as a result of clearing, construction, or use?**
29 **If so, generally describe.**

30 No.

31
32 **g. About what percent of the site will be covered with impervious**
33 **surfaces after project construction (for example, asphalt or**
34 **buildings)?**

35 Not applicable. No construction is proposed as part of this project.

36

TO BE COMPLETED BY APPLICANT

**EVALUATIONS FOR
AGENCY USE ONLY**

1 **h. Proposed measures to reduce or control erosion, or other**
2 **impacts to the earth, if any:**

3 None.

4
5 **2. Air**

6 **a. What types of emissions to the air would result from the**
7 **proposal (i.e., dust, automobile, odors, industrial wood smoke)**
8 **during construction and when the project is completed? If any,**
9 **generally describe and give approximate quantities, if known.**

10 Routine closure activities would generate dust.

11
12 An airborne radiological release could occur as a result of upset
13 conditions. Such a release would not exceed immediately dangerous
14 to life and health concentrations outside the immediate area of the
15 spill/release because of the small quantity of material that is
16 available for release.

17
18 **b. Are there any off-site sources of emissions or odors that may**
19 **affect your proposal? If so, generally describe.**

20 No.

21
22 **c. Proposed measures to reduce or control emissions or other**
23 **impacts to the air, if any?**

24 Good engineering practices [e.g., applying the principle of As Low
25 As Reasonably Achievable (ALARA)] would be followed, and
26 actions would comply with onsite procedures designed to protect the
27 environment and personnel safety and health.

28
29 **3. Water**

30 **a. Surface**

31 **1) Is there any surface water body on or in the immediate**
32 **vicinity of the site (including year-round and seasonal**
33 **streams, saltwater, lakes, ponds, wetlands)? If yes, describe**
34 **type and provide names. If appropriate, state what stream**
35 **or river it flows into.**

36 The Columbia River is in the vicinity of the 324 Building.
37 However, the 324 Building is a nonland-based facility as defined
38 in WAC 173-303-282(3)(i). The
39 WAC 173-303-282(6)(c)(i)(B)(I) requires nonland-based
40 facilities be located at least 152 meters (500 feet) from any

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**EVALUATIONS FOR
AGENCY USE ONLY**

1 perennial surface water body. The WAC 173-303-282(6)(d)(i)
2 requires nonland-based facilities be located at least 152 meters
3 from any wetlands, designated critical habitat for federally listed
4 threatened or endangered species as defined in the Endangered
5 Species Act, habitats designated by the Washington Department
6 of Wildlife as habitat essential to the maintenance or recovery of
7 any state listed threatened or endangered wildlife species, natural
8 areas that are acquired or voluntarily registered or dedicated by
9 the owner, and state or federally designated wildlife refuges,
10 preserves, or bald eagle protection areas. The 324 Building is
11 over 152 meters (500 feet) from any of the aforementioned areas.
12

- 13 **2) Will the project require any work over, in, or adjacent to**
14 **(within 200 feet) the described waters? If yes, please describe**
15 **and attach available plans.**

16 The work would not require any activity in or near the described
17 waters and drainage.
18

- 19 **3) Estimate the amount of fill and dredge material that would**
20 **be placed in or removed from surface water or wetlands and**
21 **indicate the area of the site that would be affected. Indicate**
22 **the source of fill material.**

23 There would be no dredging or filling from or to surface water or
24 wetlands.
25

- 26 **4) Will the proposal require surface water withdrawals or**
27 **diversions? Give general description, purpose, and**
28 **approximate quantities if known.**

29 The water supply for the 300 Area is pumped from the Columbia
30 River. The 324 Building closure activities would use relatively
31 little of this overall withdrawal. The estimated amounts are
32 insignificant compared to normal daily water use in the
33 300 Area.
34

- 35 **5) Does the proposal lie within a 100-year floodplain? If so, note**
36 **location on the site plan.**

37 The 324 Building is not within the 100-year or 500-year
38 floodplain [*Hanford Site National Environmental Policy Act*
39 (*NEPA*) *Characterization*, PNL-6415, Revision 16,
40 September 2004].
41

TO BE COMPLETED BY APPLICANT

**EVALUATIONS FOR
AGENCY USE ONLY**

- 1 **6) Does the proposal involve any discharges of waste materials**
2 **to surface waters? If so, describe the type of waste and**
3 **anticipated volume of discharge.**

4 No.

5
6 **b. Ground**

- 7 **1) Will ground water be withdrawn, or will water be discharged**
8 **to ground water? Give general description, purpose, and**
9 **approximate quantities if known.**

10 If the 324 Building areas cannot be clean closed in accordance
11 with the closure plan, postclosure groundwater monitoring might
12 be required.

- 13
14 **2) Describe waste material that will be discharged into the**
15 **ground from septic tanks or other sources, if any (for**
16 **example: Domestic sewage; industrial, containing the**
17 **following chemicals...; agricultural; etc.). Describe the**
18 **general size of the system, the number of such systems, the**
19 **number of houses to be served (if applicable), or the number**
20 **of animals or humans the system(s) are expected to serve.**

21 None.

22
23 **c. Water Run-off (including storm water)**

- 24 **1) Describe the source of run-off (including storm water) and**
25 **method of collection and disposal, if any (include quantities,**
26 **if known). Where will this water flow? Will this water flow**
27 **into other waters? If so, describe.**

28 The Hanford Facility receives only 15.2 to 17.8 centimeters of
29 annual precipitation. Precipitation runs off the existing buildings
30 and seeps into the soil on and near the buildings. This
31 precipitation does not reach the groundwater or surface waters.

- 32
33 **2) Could waste materials enter ground or surface waters? If so,**
34 **generally describe.**

35 Engineering controls during closure activities, such as using dry
36 decontamination methods, visually checking the liners for
37 breaches before using decontamination solutions (and
38 minimizing the use of liquid solutions), etc., will prevent
39 dangerous waste materials from entering ground or surface
40 waters. All waste materials would be contained and disposed in
41 compliance with the Dangerous Waste Regulations.

TO BE COMPLETED BY APPLICANT

**EVALUATIONS FOR
AGENCY USE ONLY**

1
2 **d. Proposed measures to reduce or control surface, ground, and**
3 **run-off water impacts, if any:**

4 Measures would include visually checking for breaches or cracks,
5 and sealing any found (or containing solutions in a catch pan), before
6 using decontamination solutions; and using dry decontamination
7 methods and minimizing the use of liquids.
8

9 **4. Plants**

10 **a. Check or circle the types of vegetation found on the site.**

- 11 deciduous tree: alder, maple, aspen, other
12 evergreen tree: fir, cedar, pine, other
13 shrubs
14 grass
15 pasture
16 crop or grain
17 wet soil plants: cattail, buttercup, bulrush, skunk cabbage,
18 other
19 water plants: water lily, eelgrass, milfoil, other
20 other types of vegetation
21

22 The most common vegetation community in the 300 Area is
23 sagebrush/cheatgrass or Sandberg's bluegrass. Native vegetation in
24 the immediate vicinity of the 324 Building has been eradicated.
25 Vegetation consists primarily of cultivated ornamentals.
26

27 **b. What kind and amount of vegetation will be removed or altered?**

28 No vegetation would be removed or altered during 324 Building
29 TSD unit closure activities.
30

31 **c. List threatened or endangered species known to be on or near**
32 **the site.**

33 The 300 Area, and the immediate vicinity of the 324 Building, is a
34 previously disturbed, highly-industrialized area and is not conducive
35 to habitat for any of the federal and state listed threatened and
36 endangered plant and animal species found on the Hanford Facility.
37 Additional information on species can be found in *Hanford Site*
38 *National Environmental Policy Act (NEPA) Characterization,*
39 *PNL-6415 (Revision 16, September 2004).*
40

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**EVALUATIONS FOR
AGENCY USE ONLY**

1 **d. Proposed landscaping, use of native plants, or other measures to**
2 **preserve or enhance vegetation on the site, if any:**

3 None.

4
5 **5. Animals**

6 **a. Indicate (by underlining) any birds and animals which have been**
7 **observed on or near the site or are known to be on or near the**
8 **site:**

9 birds: Raptors (burrowing owls, ferruginous, redtail, and Swainson's
10 hawks) eagles, songbirds,
11 animals: deer, elk, coyotes, rabbits, rodents.

12
13 Additional information on animals can be found in *Hanford Site*
14 *National Environmental Policy Act (NEPA) Characterization,*
15 *PNL-6415 (Revision 16, September 2004).*

16
17
18 **b. List any threatened or endangered species known to be on or**
19 **near the site.**

20 One federal and state listed threatened or endangered species has
21 been identified on the 1,517 square kilometer Hanford Site along the
22 Columbia River (the bald eagle) and three in the Columbia River
23 (steelhead, spring-run Chinook salmon, and bull trout). In addition,
24 the state listed white pelican, sandhill crane, and ferruginous hawk
25 also occur on or migrate through the Hanford Site.

26
27 The 324 Building is located in an industrialized area in the 300 Area.
28 The area immediately around the 324 Building is not a nesting area
29 or spawning area for any of the species described above.

30
31 **c. Is the site part of a migration route? If so, explain.**

32 The Hanford Site is a part of the broad Pacific Flyway. However,
33 the 324 Building location is not known as a nesting area for
34 migratory birds.

35
36 **d. Proposed measures to preserve or enhance wildlife, if any:**

37 This project contains no specific measures to preserve or enhance
38 wildlife.

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**EVALUATIONS FOR
AGENCY USE ONLY**

1 **6. Energy and Natural Resources**

- 2 a. **What kinds of energy (electric, natural gas, oil, wood stove,**
3 **solar) will be used to meet the completed project's energy needs?**
4 **Describe whether it will be used for heating, manufacturing, etc.**

5 Existing 300 Area utility sources will include electricity used at the
6 324 Building for heating and lighting the support structures and for
7 perimeter lighting.

- 8
9 b. **Would your project affect the potential use of solar energy by**
10 **adjacent properties? If so, generally describe.**

11 No.

- 12
13 c. **What kinds of energy conservation features are included in the**
14 **plans of this proposal? List other proposed measures to reduce**
15 **or control energy impacts, if any:**

16 None. Energy consumption is not anticipated to be significant for
17 324 Building closure activities.

18
19 **7. Environmental Health**

- 20 a. **Are there any environmental health hazards, including exposure**
21 **to toxic chemicals, risk of fire and explosion, spill, or hazardous**
22 **waste that could occur as a result of this proposal? If so,**
23 **describe.**

24 Possible environmental health hazards to personnel could arise from
25 activities at the 324 Building associated with exposure to radioactive,
26 dangerous, and/or mixed waste. Environmental health hazards could
27 arise from incidental activities within the 324 Building and/or the
28 300 Area. A chemical spill, release, fire, or explosion could occur
29 only as a result of a simultaneous breakdown in multiple barriers or a
30 catastrophic natural forces event.

- 31
32 **1) Describe special emergency services that might be required.**

33 Hanford Site security, fire response, and ambulance services are
34 on call at all times in the event of an onsite emergency. Hanford
35 Site emergency services personnel are trained specially to
36 manage a variety of circumstances involving chemical and/or
37 mixed waste constituents and situations.
38

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**EVALUATIONS FOR
AGENCY USE ONLY**

1 **2) Proposed measures to reduce or control environmental**
2 **health hazards, if any:**

3 All personnel are trained to follow proper procedures during the
4 closure operations to minimize potential exposure. The
5 324 Building has systems for ventilation, radiation monitoring,
6 fire protection, and alarm capability. The heating, ventilation,
7 and air conditioning system maintains a negative air pressure in
8 the 324 Building.

9
10 Chemical and radiological safety hazards would be mitigated by
11 preventing direct contact with the residual chemical constituents;
12 high-efficiency particular air filtration of all 324 Facility offgas
13 streams; and donning and doffing protective clothing,
14 appropriate training, and doning and doffing engineered
15 respiratory protection devices that will be required for onsite
16 personnel who will perform closure activities, as necessary.
17 ALARA principles would be applied during closure activities.

18
19 **b. Noise**

20 **1) What type of noise exists in the area which may affect your**
21 **project (for example: traffic, equipment, operation, other)?**

22 While there is a minor amount of traffic, operation, and
23 equipment noise in the vicinity, there would be minimal effect to
24 personnel at the 324 Building.

25
26 **2) What types and levels of noise would be created by or**
27 **associated with the project on a short-term or a long-term**
28 **basis (for example: traffic, construction, operation, other)?**
29 **Indicate what hours noise would come from the site.**

30 Minor amounts of noise from traffic and equipment are expected
31 during shift hours for operations.

32
33 **3) Proposed measures to reduce or control noise impacts, if**
34 **any:**

35 In the unlikely event that Occupational Safety and Health
36 Administration noise standards would be exceeded, appropriate
37 measures to protect personnel would be employed.
38

TO BE COMPLETED BY APPLICANT

EVALUATIONS FOR
AGENCY USE ONLY

1 8. Land and Shoreline Use

2 a. What is the current use of the site and adjacent properties?

3 Current use of the 324 Building site and adjacent properties is
4 industrial/research.

5
6 b. Has the site been used for agriculture? If so, describe.

7 No portion of the 300 Area has been used for agricultural purposes
8 since 1943.

9
10 c. Describe any structures on the site.

11 The 324 Building, located in the 300 Area, is a steel and reinforced
12 concrete structure. Numerous buildings surround the 324 Building
13 as a result of the development of the 300 Area.

14
15 d. Will any structures be demolished? If so, what?

16 No. The scope of the 324 REC closure plan is to remove the TSD
17 unit components from the 324 Building (Tri-Party Agreement
18 Milestone M-89-00), but the removal does not include building
19 demolition. The closure plan activities (M-89-00) will be performed
20 in parallel with the complete disposition/demolition of the
21 324 Building, which will be performed under Tri-Party Agreement
22 Milestone M-094-03. The complete disposition/demolition of the
23 324 Building required by M-094-03 will be performed as a parallel
24 project, which will be covered by CERCLA documentation.

25
26 e. What is the current zoning classification of the site?

27 Does not apply. The site is located on Federal lands and as such is
28 not subject to the Growth Management Act (State of Washington
29 land use authority). However, for completeness, the Hanford Site is
30 currently included in the Benton County Comprehensive Plan
31 (June 22, 1998) as the undesigned "Hanford Sub-Area".

32
33 f. What is the current comprehensive plan designation of the site?

34 The Federal land management decision process evaluated through
35 NEPA resulted in a Record of Decision for the *Hanford*
36 *Comprehensive Land-Use Plan Environmental Impact Statement*
37 *Record of Decision* (64 FR 61615, November 12, 1999)] that
38 established the Hanford 300 Area geographic area, which includes
39 the 324 Building, as Industrial land use.

40

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**EVALUATIONS FOR
AGENCY USE ONLY**

- 1 **g. If applicable, what is the current shoreline master program**
2 **designation of the site?**
- 3 Does not apply.
4
- 5 **h. Has any part of the site been classified as an "environmentally**
6 **sensitive" area? If so, specify.**
- 7 No.
8
- 9 **i. Approximately how many people would reside or work in the**
10 **completed project?**
- 11 Minimal staff would provide appropriate surveillance and
12 maintenance of the 324 Building area after closure activities are
13 completed, in conjunction with the overall 300 Area surveillance and
14 maintenance activities.
15
- 16 **j. Approximately how many people would the completed project**
17 **displace?**
- 18 None.
19
- 20 **k. Proposed measures to avoid or reduce displacement impacts, if**
21 **any:**
- 22 Does not apply.
23
- 24 **l. Proposed measures to ensure the proposal is compatible with**
25 **existing and projected land uses and plans, if any:**
- 26 Does not apply (refer to Section B.8.f.).
27
- 28 **9. Housing**
- 29 **a. Approximately how many units would be provided, if any?**
30 **Indicate whether high, middle, or low-income housing.**
- 31 None.
32
- 33 **b. Approximately how many units, if any, would be eliminated?**
34 **Indicate whether high, middle, or low-income housing.**
- 35 None.
36
- 37 **c. Proposed measures to reduce or control housing impacts, if any:**
- 38 Does not apply.

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**EVALUATIONS FOR
AGENCY USE ONLY**

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10. Aesthetics

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

No new structures are being proposed. The unit is located in an existing building, which is approximately 14 meters tall.

b. What views in the immediate vicinity would be altered or obstructed?

None.

c. Proposed measures to reduce or control aesthetic impacts, if any:

None.

11. Light and Glare

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

None.

b. Could light or glare from the finished project be a safety hazard or interfere with views?

No.

c. What existing off-site sources of light or glare may affect your proposal?

None.

d. Proposed measures to reduce or control light and glare impacts, if any:

None.

12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity?

None.

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**EVALUATIONS FOR
AGENCY USE ONLY**

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b. Would the proposed project displace any existing recreational uses? If so, describe.

No.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any?

None.

13. Historic and Cultural Preservation

a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.

No places or objects listed on, or proposed for, national, state, or local preservation registers are known to be on or next to the 324 Building. The 324 Building is listed in the Programmatic Agreement among the U.S. Department of Energy Richland Operations Office, the Advisory Council on Historic Preservation, and the Washington State Historic Preservation Office for the Maintenance, Deactivation, Alteration, and Demolition of the Built Environment on the Hanford Site (Programmatic Agreement, DOE/RL-96-77, Rev. 0). The 324 Building is eligible for inclusion in the National Register of Historic Places under criterion A as a contributing property within the Hanford Site Manhattan Project and Cold War Era Historic District with no individual documentation required as stipulated in Appendix C, Table 3, of the Programmatic Agreement. A final walkthrough of the 324 Building will be conducted by staff of the Hanford Cultural Resources Laboratory before closure activities are completed.

b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.

There are no known archaeological, historical, or Native American religious sites in the 324 Building area.

c. Proposed measures to reduce or control impacts, if any:

None.

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**EVALUATIONS FOR
AGENCY USE ONLY**

1 **14. Transportation**

2 **a. Identify public streets and highways serving the site, and**
3 **describe proposed access to the existing street system. Show on**
4 **site plans, if any.**

5 Does not apply.
6

7 **b. Is site currently served by public transit? If not, what is the**
8 **approximate distance to the nearest transit stop?**

9 No. The distance to the nearest public transit stop is approximately 5
10 kilometers. That transit stop is located at Washington State
11 University Tri-Cities.
12

13 **c. How many parking spaces would the completed project have?**
14 **How many would the project eliminate?**

15 Not applicable.
16

17 **d. Will the proposal require any new roads or streets, or**
18 **improvements to existing roads or streets, not including**
19 **driveways? If so, generally describe (indicate whether public or**
20 **private).**

21 No.
22

23 **e. Will the project use (or occur in the immediate vicinity of) water,**
24 **rail, or air transportation? If so, generally describe.**

25 No.
26

27 **f. How many vehicular trips per day would be generated by the**
28 **completed project? If known, indicate when peak volumes**
29 **would occur.**

30 Some added vehicular traffic could be expected when the USDOE's
31 contractors transport waste removed from the 324 Building to
32 disposal sites on the Hanford Site. After the waste is dispositioned,
33 no additional vehicular traffic will be required.
34

35 **g. Proposed measures to reduce or control transportation impacts,**
36 **if any:**

37 None.
38

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**EVALUATIONS FOR
AGENCY USE ONLY**

1 **15. Public Services**

2 a. **Would the project result in an increased need for public services**
3 **(for example: fire protection, police protection, health care,**
4 **schools, other)? If so, generally describe.**

5 No.

6
7 b. **Proposed measures to reduce or control direct impacts on public**
8 **services, if any:**

9 Does not apply.

10

11 **16. Utilities**

12 a. **Circle utilities currently available at the site: electricity, natural**
13 **gas, water, refuse service, telephone, sanitary sewer, septic**
14 **system, other:**

15 Electricity, non-potable water, potable water, Local Area Network
16 (LAN), refuse service, telephone, and a sanitary sewer system are
17 available at the 324 Building.

18

19 b. **Describe the utilities that are proposed for the project, the utility**
20 **providing the service, and the general construction activities on**
21 **the site or in the immediate vicinity which might be needed.**

22 Existing utilities at the 324 Building would be used to support the
23 closure activities.

1 **SIGNATURES**

2

3 The above answers are true and complete to the best of my knowledge. I understand that the lead agency
4 is relying on them to make its decision.

5

6

7

8

9

10 _____
11 Keith A. Klein, Manager
12 U.S. Department of Energy
13 Richland Operations Office

_____ Date

13

14

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