



0065107

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

05-AMCP-0240

MAY 2 2005

Mr. Michael A. Wilson, Program Manager  
Nuclear Waste Program  
State of Washington  
Department of Ecology  
3100 Port of Benton Boulevard  
Richland, Washington 99354

RECEIVED  
MAY 10 2005

EDMC

Dear Mr. Wilson:

TRANSMITTAL OF STATE ENVIRONMENTAL POLICY ACT ENVIRONMENTAL  
CHECKLIST FOR THE 216-U-12 CRIB TREATMENT, STORAGE, AND/OR DISPOSAL  
UNIT CLOSURE, REVISION 0

Attached for your use is a "State Environmental Policy Act Environmental Checklist for the 216-U-12 Crib Treatment, Storage, and/or Disposal Unit Closure, DOE/RL-2005-29, Revision 0." This checklist is being transmitted in support of preparation of the Resource Conservation and Recovery Act of 1976 (RCRA) treatment, storage, and/or disposal unit closure plan. The RCRA closure of the 216-U-12 Crib is being coordinated with the disposition of 33 waste sites within the U Plant Area. The waste sites within the U Plant Area are being dispositioned as a response action under the Comprehensive Environmental Response, Compensation and Liability Act of 1980.

If you have any questions, please contact me, or your staff may contact Matt McCormick, Assistant Manager for the Central Plateau, on (509) 373-9971.

Sincerely,

Keith A. Klein  
Manager

AMCP:KDL

Attachment

cc: See page 2

Mr. Michael A. Wilson  
05-AMCP-0240

-2-

MAY 02 2005

cc w/attach:

G. Bohnee, NPT  
N. Ceto, EPA  
L. J. Cusack, Ecology  
A. A. Hamar, Ecology  
S. Harris, CTUIR  
R. Jim, YN  
T. Martin, HAB  
K. Niles, ODOE  
J. B. Price, Ecology  
D. Steffeck, HNRTC

Administrative Record

Environmental Portal, LMSI

cc w/o attach:

K. B. Allison, FFS  
L. D. Crass, FHI  
L. G. Dusek, FHI  
R. H. Gurske, DFSH  
J. S. Hertzell, FHI  
M. B. Lackey, FHI  
E. J. Murphy-Fitch, FHI  
W. E. Toebe, FHI

**STATE ENVIRONMENTAL POLICY ACT  
ENVIRONMENTAL CHECKLIST**

**FOR THE**

**216-U-12 CRIB TREATMENT,  
STORAGE, AND/OR DISPOSAL UNIT CLOSURE**

**DOE/RL-2005-29  
REVISION 0**

**April 2005**

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



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

3 The *Hanford Facility Dangerous Waste Part A Permit Application*, DOE/RL-88-21, contains the Part A  
4 permit application for the 216-U-12 Crib in Section 4.2.3.8.

5  
6 The *Proposed Plan for the 200-UW-1 Operable Unit*, DOE/RL-2003-24, addressing a response action for  
7 33 waste sites in the U Plant Area, is being prepared under appropriate *Comprehensive Environmental*  
8 *Response, Compensation, and Liability Act (CERCLA) of 1980* regulations. The Proposed Plan supports  
9 selection of a final remedy or remedies that will be documented in a CERCLA record of decision (ROD).

10 In addition, the proposed plan identifies the closure strategy for the 216-U-12 Crib, a past-practice  
11 RCRA disposal unit. The closure performance standards for this TSD unit are contained within the  
12 CERCLA documentation for the soil waste sites.

13  
14 Closure alternatives and requirements were evaluated in the *Focused Feasibility Study for*  
15 *200-UW-1 Operable Unit*, DOE/RL-2003-23 (Sections 5.0 through 7.0).

16  
17 A closure schedule was provided in the *200-PW-2 Uranium-Rich Process Waste Group Operable Unit*  
18 *RI/FS Work Plan and RCRA TSD Unit Sampling Plan*, DOE/RL-2000-60.

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

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.

31  
32 **10. List any government approvals or permits that will be needed for your proposal, if known.**

33 DOE-RL and Ecology approval of the 216-U-12 Crib closure plan and compliance schedule will be  
34 needed. In addition, a CERCLA ROD and RDR/RAWP addressing preferred remedies for the U Plant  
35 Area waste sites will be needed.

36  
37 **11. Give brief, complete description of your proposal, including the proposed uses and the size of**  
38 **the project and site. There are several questions later in this checklist that ask you to describe**  
39 **certain aspects of your proposal. You do not need to repeat those answers on this page.**

40 The closure plan describes planned activities and performance standards for closing the 216-U-12 Crib, a  
41 past-practice RCRA disposal unit. The crib is a process condensate disposal unit located south of the  
42 221-U Facility (U Plant) in the 200 West Area of the Hanford Facility. The 216-U-12 Crib measures  
43 approximately 46 m by 18 m. The 216-U-12 Crib was used for the percolation of corrosive U Plant  
44 process condensate until January 1987. The preferred alternative implemented for closure of this unit  
45 will be determined by a CERCLA ROD for the response action for the U Plant Area waste sites.

1 Postclosure activities will be conducted in accordance with the U Plant Area Operations and  
2 Maintenance Plan and will integrate the monitoring needs of the 216-U-12 Crib with other closure  
3 projects in the U Plant Area. Because the 216-U-12 Crib can not be clean closed in accordance with  
4 WAC 173-303-610 (2)(b), the TSD will be closed as a landfill in accordance with WAC 173-303-665(6);  
5 the land-disposal unit closure requirements of the *Hanford Federal Facility Agreement and Consent*  
6 *Order*, Section 6.3.2, and requirements in Sections 5.3 and 5.5; and the landfill closure requirements of  
7 Condition II.K.4 of WA7890008967, *Hanford Facility RCRA Permit*.

8  
9 The U Plant Area cribs were used to inject or percolate wastewater into the soil column. Cribs were  
10 shallow excavations that were either backfilled with permeable material, or contained voids created by  
11 wooden or concrete structures. Cribs typically received low-level radioactive waste for disposal and  
12 most were designed to receive liquid until a specific soil-retention volume or radionuclide capacity was  
13 met (DOE/RL-92-05).

14  
15 Waste streams to U Plant Area cribs included aqueous and organic solvent extraction wastes from  
16 uranium-recovery operations of original bismuth-phosphate/lanthanum fluoride separation-process  
17 wastes, process drainage, process distillate drainage, and miscellaneous off-gas condensates from the  
18 291-U-1 Stack, waste treatment condensers, nitric acid and solvent recoveries, the 241 Vault (waste  
19 treatment/storage), and 224-U storm drainage waste streams.

20  
21 **12. Location of the proposal. Give sufficient information for a person to understand the precise**  
22 **location of your proposed project, including a street address, if any, and section, township,**  
23 **and range, if known. If a proposal would occur over a range of area, provide the range or**  
24 **boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic**  
25 **map, if reasonably available. While you should submit any plans required by the agency, you**  
26 **are not required to duplicate maps or detailed plans submitted with any permit applications**  
27 **related to this checklist.**

28 The 216-U-12 Crib is located approximately 610 m south of U Plant in the 200 West Area. Beneath the  
29 216-U-12 Crib, depth to groundwater measures approximately 78 m. Greater detail of the stratigraphy  
30 beneath the crib may be found in WHC-SD-EN-AP-108, *Interim-Status Groundwater Quality Assessment*  
31 *Plan for the 216-U-12 Crib*.

**TO BE COMPLETED BY APPLICANT**

**EVALUATIONS FOR  
AGENCY USE ONLY**

1 **B. ENVIRONMENTAL ELEMENTS**

2 **1. Earth**

3 **a. General description of the site: Flat, rolling, hilly, steep slopes,**  
4 **mountainous, other \_\_\_\_\_.**

5 The 216-U-12 Crib is located in the 200 West Area. The 200 West  
6 Area is relatively flat and ranges in elevation from approximately  
7 205 m to 217 m above mean sea level.  
8

9 **b. What is the steepest slope on the site (approximate percent**  
10 **slope)?**

11 The approximate slope of the land is less than 2 percent.  
12

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

16 Soil types consist mainly of eolian and fluvial sands and gravel.  
17 More detailed information concerning specific soil classifications  
18 can be found in the *Hanford Site National Environmental Policy Act*  
19 *(NEPA) Characterization*, PNL-6415, Revision 16, September 2004.  
20 Farming is not permitted on the Hanford Site.  
21

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

24 No.  
25

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

28 No filling or grading is required.  
29

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

32 Yes, wind erosion may occur during closure activities. Soil  
33 stabilizers and/or water may be used to control wind erosion until  
34 closure activities are complete. Once the engineered barrier is in  
35 place, the surface will be revegetated to prevent wind erosion.  
36

**TO BE COMPLETED BY APPLICANT**

**EVALUATIONS FOR  
AGENCY USE ONLY**

- 1 **g. About what percent of the site will be covered with impervious**  
2 **surfaces after project construction (for example, asphalt or**  
3 **buildings)?**

4 An engineered surface barrier will completely cover the  
5 216-U-12 Crib. The size of the barrier will be determined as part of  
6 the Remedial Design Report. An engineered barrier (e.g.,  
7 evapotranspiration barrier) is built over the contaminated site, thus  
8 "capping" the site to prevent or limit water from infiltrating into the  
9 waste and to prevent intrusion by human or ecological receptors.  
10 This barrier would be monitored to evaluate its performance. This  
11 performance monitoring (e.g., moisture monitoring within the  
12 engineered barrier) will allow for corrective measures (e.g., cap  
13 thickening or run-on prevention) to be planned and implemented  
14 before any increased impact to the environment. Institutional  
15 controls (e.g., deed restrictions, land-use zoning, and excavation  
16 permits) will be required to minimize the potential for exposure to  
17 contamination or compromising the effectiveness of the barrier.

- 18  
19 **h. Proposed measures to reduce or control erosion, or other**  
20 **impacts to the earth, if any:**

21 Revegetation of the site, once the engineered barrier is in place, will be  
22 performed to control soil erosion.

23  
24 **2. Air**

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

29 Routine closure activities would generate dust. Dust will be controlled  
30 during closure activities by applying water spray or a suitable soil fixative.  
31 Revegetation of the site, once the engineered barrier is in place, will be  
32 performed to control soil erosion.

33  
34 Construction vehicle exhaust will also contribute to air emissions  
35 during the construction phase of closure. Once closure activities are  
36 complete, this source of emissions will be greatly reduced.

37  
38 An airborne radiological release could occur as a result of upset  
39 conditions. Such a release would not exceed immediately dangerous  
40 to life and health concentrations outside the immediate area of the  
41 spill/release because of the small quantity of material that is  
42 available for release.

**TO BE COMPLETED BY APPLICANT**

**EVALUATIONS FOR  
AGENCY USE ONLY**

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34

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

No.

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

Good engineering practices would be followed, such as dust control, and actions would comply with onsite procedures designed to protect the environment and personnel safety and health.

**3. Water**

**a. Surface**

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

No. The 216-U-12 Crib is over 7 kilometers from the Columbia River.

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

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

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

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

**TO BE COMPLETED BY APPLICANT**

**EVALUATIONS FOR  
AGENCY USE ONLY**

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

4           The water supply for the 200 West Area is pumped from the  
5           Columbia River. The 216-U-12 Crib closure activities would  
6           use relatively little of this overall withdrawal. The estimated  
7           amounts are insignificant compared to normal daily water use in  
8           the 200 West Area. The majority of water used during closure  
9           activities would be for dust control.

- 10  
11           **5) Does the proposal lie within a 100-year floodplain? If so,**  
12           **note location on the site plan.**

13           The 216-U-12 Crib is not within the 100-year or 500-year  
14           floodplain [*Hanford Site National Environmental Policy Act*  
15           (*NEPA*) *Characterization*, PNL-6415, Revision 16,  
16           September 2004].

- 17  
18           **6) Does the proposal involve any discharges of waste materials**  
19           **to surface waters? If so, describe the type of waste and**  
20           **anticipated volume of discharge.**

21           No.

22  
23           **b. Ground**

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

27           No groundwater would be withdrawn in support of this project,  
28           and water would not be discharged to the aquifer.

- 29  
30           **2) Describe waste material that will be discharged into the**  
31           **ground from septic tanks or other sources, if any (for**  
32           **example: Domestic sewage; industrial, containing the**  
33           **following chemicals...; agricultural; etc.). Describe the**  
34           **general size of the system, the number of such systems, the**  
35           **number of houses to be served (if applicable), or the number**  
36           **of animals or humans the system(s) are expected to serve.**

37           None.  
38

**TO BE COMPLETED BY APPLICANT**

**EVALUATIONS FOR  
AGENCY USE ONLY**

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

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

6 The Hanford Facility receives only 15.2 to 17.8 centimeters of  
7 annual precipitation. Precipitation runs off the existing  
8 buildings and seeps into the soil near the buildings. This  
9 precipitation does not reach the groundwater or surface waters.

10  
11 2) Could waste materials enter ground or surface waters? If  
12 so, generally describe.

13 Waste materials would not enter ground or surface waters. All  
14 waste materials would be contained.

15  
16 d. Proposed measures to reduce or control surface, ground, and  
17 run-off water impacts, if any:

18 No surface, ground, or run-off water impacts are expected.

19  
20 **4. Plants**

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

- 22  deciduous tree: alder, maple, aspen, other  
23  evergreen tree: fir, cedar, pine, other  
24  shrubs  
25  grass  
26  pasture  
27  crop or grain  
28  wet soil plants: cattail, buttercup, bulrush, skunk cabbage,  
29 other  
30  water plants: water lily, eelgrass, milfoil, other  
31  other types of vegetation

32  
33 The most common vegetation community in the 200 West Area is  
34 sagebrush/cheatgrass or Sandberg's bluegrass.

35  
36 b. What kind and amount of vegetation will be removed or  
37 altered?

38 It is anticipated that vegetation would be altered during  
39 216-U-12 closure activities, specifically during construction of the

**TO BE COMPLETED BY APPLICANT**

**EVALUATIONS FOR  
AGENCY USE ONLY**

1 engineered barrier. Vegetation removed or altered would include  
2 those species most commonly found in the 200 West Area,  
3 specifically sagebrush/cheatgrass or Sandberg's bluegrass. The  
4 amount of vegetation removed or altered is dependent on the size of  
5 the engineered barrier. This information will be presented in the  
6 Remedial Design Report.

7  
8 **c. List threatened or endangered species known to be on or near**  
9 **the site.**

10 No federal and state listed threatened or endangered plant  
11 species found on the Hanford Facility are known to be on or  
12 near the 216-U-12 Crib. The Hanford Facility contains some  
13 federal and state listed threatened and endangered plant species.  
14 Additional information on species can be found in *Hanford Site*  
15 *National Environmental Policy Act (NEPA) Characterization*,  
16 PNL-6415 (Revision 16, September 2004).

17  
18 **d. Proposed landscaping, use of native plants, or other measures to**  
19 **preserve or enhance vegetation on the site, if any:**

20 Native species of a Hanford genotype will be used for a majority of  
21 revegetation efforts. Sandberg's bluegrass and needle-and-thread  
22 grass (*Stipa comata*) have been collected on the Hanford Site and  
23 grown as an agricultural crop to provide a large quantity of seeds for  
24 revegetation. Seeds of other native plants, such as sagebrush, yarrow  
25 (*Achillea millefolium*), Carey's balsamroot (*Balsamorhiza*  
26 *careyana*), pine bluegrass (*Poa scabrella*), and snow buckwheat  
27 (*Eriogonum niveum*), may also be collected on the Hanford Site and  
28 will be added to the planting mixture as available and as appropriate  
29 to each site. Additional species that may be collected include scurf  
30 pea (*Psoralea lanceolata*) rhizomes and seeds of sand dropseed  
31 (*Sporobolus cryptandrus*) for use at sandy sites. Additional seeds of  
32 other species may be provided by the Tribes and Trustees and  
33 combined with the species described above.

34  
35 **5. Animals**

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

39 birds: Raptors (burrowing owls, ferruginous, redtail, and Swainson's  
40 hawks) eagles, songbirds,  
41 mammals: deer, elk, coyotes, rabbits, rodents, badgers.

**TO BE COMPLETED BY APPLICANT**

**EVALUATIONS FOR  
AGENCY USE ONLY**

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39

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

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

No federal and state listed threatened or endangered animal species found on the Hanford Facility are known to be on or near the 216-U-12 Crib. One federal and state listed threatened or endangered species has been identified on the 1,517 square kilometer Hanford Site along the Columbia River (the bald eagle) and two in the Columbia River (steelhead and spring-run chinook salmon). In addition, the state listed white pelican, sandhill crane, and ferruginous hawk also occur on or migrate through the Hanford Site.

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

The Hanford Site is a part of the broad Pacific Flyway. However, the 216-U-12 Crib is not known as a haven for migratory birds.

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

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

**6. Energy and Natural Resources**

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

None.

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

No.

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

None.

**TO BE COMPLETED BY APPLICANT**

**EVALUATIONS FOR  
AGENCY USE ONLY**

1 **7. Environmental Health**

2 **a. Are there any environmental health hazards, including exposure**  
3 **to toxic chemicals, risk of fire and explosion, spill, or hazardous**  
4 **waste that could occur as a result of this proposal? If so,**  
5 **describe.**

6 Possible environmental health hazards to personnel could arise from  
7 closure activities at the 216-U-12 Crib associated with exposure to  
8 radioactive and chemical waste. Stringent administrative controls  
9 and barriers will be used to minimize the probability of even a minor  
10 incident and/or accident.

11  
12 **1) Describe special emergency services that might be required.**

13 Hanford Site security, fire response, and ambulance services are  
14 on call at all times in the event of an onsite emergency. Hanford  
15 Site emergency services personnel are trained specially to  
16 manage a variety of circumstances involving chemical and/or  
17 mixed waste constituents and situations.

18  
19 **2) Proposed measures to reduce or control environmental**  
20 **health hazards, if any:**

21 All personnel are trained to follow proper procedures during  
22 closure operations to minimize potential exposure.

23  
24 Chemical and radiological safety hazards would be mitigated by  
25 preventing direct contact with the residual chemical  
26 constituents; and protective clothing, appropriate training, and  
27 respiratory protection used by onsite personnel as necessary. As  
28 low as reasonably achievable (ALARA) principles would be  
29 applied during construction and operations.

30  
31 **b. Noise**

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

34 Minor amounts of noise from traffic exist during day shift hours  
35 for operations in the 200 West Area.  
36

**TO BE COMPLETED BY APPLICANT**

**EVALUATIONS FOR  
AGENCY USE ONLY**

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

5           There will be traffic, operation, and equipment noise associated  
6           with the construction of the engineered barrier over the  
7           216-U-12 Crib during closure efforts.

- 8  
9           3) **Proposed measures to reduce or control noise impacts, if**  
10          **any:**

11          In the unlikely event that Occupational Safety and Health  
12          Administration noise standards would be exceeded, appropriate  
13          measures to protect personnel would be employed.

14  
15   **8. Land and Shoreline Use**

- 16          **a. What is the current use of the site and adjacent properties?**

17          The Hanford Facility is a single RCRA facility identified by the  
18          U.S. Environmental Protection Agency (EPA)/State Identification  
19          Number WA7890008967 that consists of over 70 TSD units  
20          conducting dangerous waste management activities. These TSD  
21          units are included in the *Hanford Facility Dangerous Waste Part A*  
22          *Permit Application* (DOE/RL-88-21). The Hanford Facility consists  
23          of all contiguous land, and structures, other appurtenances, and  
24          improvements on the land, used for recycling, reusing, reclaiming,  
25          transferring, storing, treating, or disposing of dangerous waste,  
26          which, for the purposes of the RCRA, are owned by the  
27          U.S. Government and operated by the DOE-RL (excluding lands  
28          north and east of the Columbia River, river islands, lands owned or  
29          used by the Bonneville Power Administration, lands leased to  
30          Energy Northwest, and lands owned by or leased to Washington  
31          State).

- 32  
33          **b. Has the site been used for agriculture? If so, describe.**

34          No portion of the 200 West Area has been used for agricultural  
35          purposes since 1943.

- 36  
37          **c. Describe any structures on the site.**

38          None, other than the 216-U-12 Crib.  
39

**TO BE COMPLETED BY APPLICANT**

**EVALUATIONS FOR  
AGENCY USE ONLY**

- 1        **d. Will any structures be demolished? If so, what?**  
2            None.  
3  
4        **e. What is the current zoning classification of the site?**  
5            Does not apply. The site is located on Federal lands and as such is  
6            not subject to the Growth Management Act (State of Washington  
7            land use authority). However, for completeness, the Hanford Site is  
8            currently included in the Benton County Comprehensive Plan (June  
9            22, 1998) as the undesignated "Hanford Sub-Area."  
10  
11       **f. What is the current comprehensive plan designation of the site?**  
12           The Federal land management decision process has determined  
13           through NEPA [*Hanford Comprehensive Land-Use Plan*  
14           *Environmental Impact Statement Record of Decision* (64 FR 61615,  
15           November 12, 1999)] that the Central Plateau (200 Areas)  
16           geographic area, which includes the 216-U-12 Crib in the 200 West  
17           Area, is designated Industrial-Exclusive.  
18  
19       **g. If applicable, what is the current shoreline master program**  
20       **designation of the site?**  
21           Does not apply.  
22  
23       **h. Has any part of the site been classified as an "environmentally**  
24       **sensitive" area? If so, specify.**  
25           No.  
26  
27       **i. Approximately how many people would reside or work in the**  
28       **completed project?**  
29           No one will reside in/on the completed project. Minimal staff would  
30           provide appropriate operations and maintenance of the 216-U-12  
31           Crib after closure in conjunction with the overall U Plant Area  
32           operations and maintenance activities.  
33  
34       **j. Approximately how many people would the completed project**  
35       **displace?**  
36           None.  
37

**TO BE COMPLETED BY APPLICANT**

**EVALUATIONS FOR  
AGENCY USE ONLY**

1 k. Proposed measures to avoid or reduce displacement impacts, if  
2 any:

3 Does not apply.

4  
5 l. Proposed measures to ensure the proposal is compatible with  
6 existing and projected land uses and plans, if any:

7 Does not apply (refer to Section 8.f.).  
8

9 **9. Housing**

10 a. Approximately how many units would be provided, if any?  
11 Indicate whether high, middle, or low-income housing.

12 None.

13  
14 b. Approximately how many units, if any, would be eliminated?  
15 Indicate whether high, middle, or low-income housing.

16 None.

17  
18 c. Proposed measures to reduce or control housing impacts, if any:

19 Does not apply.  
20

21 **10. Aesthetics**

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

25 The 216-U-12 Crib is level within a few feet of the surface  
26 elevation.  
27

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

30 None.

31  
32 c. Proposed measures to reduce or control aesthetic impacts, if  
33 any:

34 None.  
35

**TO BE COMPLETED BY APPLICANT**

**EVALUATIONS FOR  
AGENCY USE ONLY**

1 **11. Light and Glare**

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

4 None.

5

6

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

9 No.

10

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

13 None.

14

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

17 None.

18

19 **12. Recreation**

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

22 None.

23

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

26 No.

27

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

31 None.

32

**TO BE COMPLETED BY APPLICANT**

**EVALUATIONS FOR  
AGENCY USE ONLY**

1 **13. Historic and Cultural Preservation**

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

5 The impacts of deactivation on the cultural and historical resources  
6 identified within the U Plant Area have been documented within  
7 Cultural Resource Reviews and associated responses from the  
8 Washington State Historic Preservation Officer (SHPO). The  
9 Cultural Resources Review conducted for this project ensured  
10 compliance with the requirements of the *National Historic*  
11 *Preservation Act of 1966* (as amended) and the Programmatic  
12 Agreement Among the U.S. Department of Energy, Richland  
13 Operations Office, the Advisory Council on Historic Preservation,  
14 and the Washington State Historic Preservation Office for the  
15 Maintenance, Deactivation, Alteration, and Demolition of the Built  
16 Environment on the Hanford Site, Washington (PA)  
17 (DOE/RL-96-77).

18  
19 The 216-U-12 Crib is not listed on or proposed for, national, state, or  
20 local preservation registers known to be on or next to the site.

- 21  
22 **b. Generally describe any landmarks or evidence of historic,**  
23 **archaeological, scientific, or cultural importance known to be on**  
24 **or next to the site.**

25 See response to B.13.a.

- 26  
27 **c. Proposed measures to reduce or control impacts, if any:**

28 See response to B.13.a.

29  
30 **14. Transportation**

- 31 **a. Identify public streets and highways serving the site, and**  
32 **describe proposed access to the existing street system. Show on**  
33 **site plans, if any.**

34 Does not apply.

- 35  
36 **b. Is site currently served by public transit? If not, what is the**  
37 **approximate distance to the nearest transit stop?**

38 The 216-U-12 Crib is not accessible to the public and is not served  
39 by public transit.

**TO BE COMPLETED BY APPLICANT**

**EVALUATIONS FOR  
AGENCY USE ONLY**

- 1  
2     **c. How many parking spaces would the completed project have?**  
3     **How many would the project eliminate?**
- 4     Not applicable.
- 5  
6     **d. Will the proposal require any new roads or streets, or**  
7     **improvements to existing roads or streets, not including**  
8     **driveways? If so, generally describe (indicate whether public or**  
9     **private).**
- 10    No.
- 11  
12    **e. Will the project use (or occur in the immediate vicinity of)**  
13    **water, rail, or air transportation? If so, generally describe.**
- 14    No.
- 15  
16    **f. How many vehicular trips per day would be generated by the**  
17    **completed project? If known, indicate when peak volumes**  
18    **would occur.**
- 19    A minimal number of vehicular trips per year will occur as a result  
20    of monitoring activities during postclosure.
- 21  
22    **g. Proposed measures to reduce or control transportation impacts,**  
23    **if any:**
- 24    None.
- 25  
26    **15. Public Services**
- 27    **a. Would the project result in an increased need for public services**  
28    **(for example: fire protection, police protection, health care,**  
29    **schools, other)? If so, generally describe.**
- 30    No.
- 31  
32    **b. Proposed measures to reduce or control direct impacts on public**  
33    **services, if any:**
- 34    Does not apply.
- 35

**TO BE COMPLETED BY APPLICANT**

**EVALUATIONS FOR  
AGENCY USE ONLY**

1 **16. Utilities**

2 **a. List utilities currently available at the site: electricity, natural**  
3 **gas, water, refuse service, telephone, sanitary sewer, septic**  
4 **system, other:**

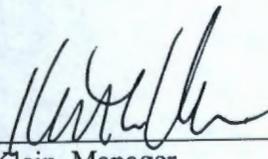
5 Electricity, non-potable water, refuse service, telephone, and a  
6 sanitary sewer system are available in the 200 West Area.

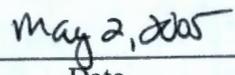
7  
8 **b. Describe the utilities that are proposed for the project, the utility**  
9 **providing the service, and the general construction activities on**  
10 **the site or in the immediate vicinity which might be needed.**

11 None.

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

14 \_\_\_\_\_  
15 Date