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**STATE ENVIRONMENTAL POLICY ACT  
ENVIRONMENTAL CHECKLIST**

**FOR THE**

**HANFORD FACILITY,  
216-A-37-1 CRIB CLOSURE**

**REVISION 0**

**RECEIVED**  
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**MARCH 2006**

**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, 216-A-37-1 Crib. This area will be closed with respect to dangerous  
5 waste contamination that resulted from disposal operations as a *Resource Conservation and Recovery Act*  
6 (RCRA) of 1976 treatment, storage, and/or disposal (TSD) unit.  
7

8 **2. Name of applicants:**

9 U.S. Department of Energy, Richland Operations Office (DOE-RL).  
10

11 **3. Address and phone number of applicants and contact persons:**

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

17 **Contact:**

18  
19 Keith A. Klein, Manager  
20 Richland Operations Office  
21 (509) 376-7395  
22

23 **4. Date checklist prepared:**

24 March 2006.  
25

26 **5. Agency requesting the checklist:**

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

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

32 This SEPA Environmental Checklist is being submitted concurrently with a closure plan [DOE/RL-2005-  
33 88, *Closure Plan for the 216-A-37-1 Crib* (Draft)] prepared in accordance with Washington  
34 Administrative Code (WAC) 173-303 Dangerous Waste Regulations. The closure plan will be submitted  
35 to the Washington State Department of Ecology (Ecology) by April 30, 2006.  
36

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

39 No. The aforementioned closure plan is being submitted in accordance with the *Hanford Federal*  
40 *Facility Agreement and Consent Order* (Tri-Party Agreement) Milestone M-020-33 that requires  
41 submittal of a closure plan for the 216-A-37-1 Crib RCRA TSD unit by April 30, 2006.

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

4 This SEPA Environmental Checklist is being submitted to Ecology to address the 216-A-37-1 Crib  
5 closure activities. Environmental information that has been prepared directly related to this proposal is  
6 contained in DOE/RL-2005-88, *Closure Plan for the 216-A-37-1 Crib* (Draft); DOE/RL-2004-025,  
7 *Remedial Investigation Report for the 200-PW2 Uranium-Rich Process Waste Group and the 200-PW-4*  
8 *General Process Condensate Group Operable Units*; DOE/RL-2000-60, *Uranium-Rich/General Process*  
9 *Condensate and Process Waste Group Operable Unit RI/FS Work Plan and RCRA TSD Unit Sampling*  
10 *Plan – Includes: 200-PW-2 and 200-PW-4 Operable Units*; and groundwater data contained in the  
11 Hanford Environmental Information System (HEIS). Non-TSD unit constituents will be addressed  
12 through the *Comprehensive Environmental Response, Compensation, and Liability Act of 1980* past  
13 practice processes identified in the Tri-Party Agreement (Section 7.2) for the consolidated 200-PW-2 and  
14 200-PW-4 Operable Units.

15 General information concerning the Hanford Facility environment can be found in the *Hanford Site*  
16 *National Environmental Policy Act (NEPA) Characterization*, PNL-6415, Revision 17, September 2005.  
17 This document is updated annually by Pacific Northwest National Laboratory (PNNL), and provides  
18 current information concerning climate and meteorology, ecology, history and archeology,  
19 socioeconomic, land use and noise levels, and geology and hydrology. These baseline data for the  
20 Hanford Site and past activities are useful for evaluating proposed activities and their potential  
21 environmental impacts.

22  
23 **9. Do you know whether applications are pending for government approvals of other proposals**  
24 **directly affecting the property covered by your proposal? If yes, explain.**

25 No other applications are pending. However, see response to A8 regarding physical activities necessary  
26 to complete remediation of non-TSD unit constituents.

27  
28 **10. List any government approvals or permits that will be needed for your proposal, if known.**

29 DOE-RL forwards the aforementioned 216-A-37-1 Crib closure plan (DOE/RL-2005-88) to Ecology for  
30 approval.

31  
32 **11. Give brief, complete description of your proposal, including the proposed uses and the size of**  
33 **the project and site. There are several questions later in this checklist that ask you to describe**  
34 **certain aspects of your proposal. You do not need to repeat those answers on this page.**

35 The DOE-RL proposes clean closure for the 216-A-37-1 Crib TSD unit that includes soils and crib piping  
36 and materials.

37 The 216-A-37-1 Crib began operations in March 1977 for percolation of 242-A Evaporator process  
38 condensate to the soil column. Discharge of the evaporator process condensate to the crib was  
39 terminated on April 12, 1989, when evaporator process condensate was determined to contain potentially  
40 dangerous waste regulated under WAC 173-303. The crib has been out of service since April 1989.

41 No concentration of TSD unit constituents exceeds clean closure levels established in accordance with  
42 WAC 173-303-610 for constituents or materials remaining at the unit after closure.

1 No physical activities are required for clean closure. After closure, appearance of the land will be  
2 consistent with land use determinations of the Hanford Facility.

3  
4 **12. Location of the proposal. Give sufficient information for a person to understand the precise**  
5 **location of your proposed project, including a street address, if any, and section, township,**  
6 **and range, if known. If a proposal would occur over a range of area, provide the range or**  
7 **boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic**  
8 **map, if reasonably available. While you should submit any plans required by the agency, you**  
9 **are not required to duplicate maps or detailed plans submitted with any permit applications**  
10 **related to this checklist.**

11 The 216-A-37-1 Crib is an engineered, subsurface liquid effluent disposal facility (landfill) that was  
12 constructed to dispose of 242-A Evaporator process condensate. The 216-A-37-1 Crib is located outside  
13 the 200 East Area perimeter fence about 610 m (2,000 ft) east of the 202-A Building. The gravel-filled  
14 crib is 213 m (700 ft) long and 3 m (10 ft) wide at the bottom. When actively receiving effluent, the crib  
15 was about 2.4 m to 4.3 m (8 to 14 ft) deep. A 25.4-m (10-in.) diameter perforated, galvanized steel  
16 distribution pipe was placed 2 m (7 ft) belowgrade near the top of the coarse gravel fill and along the  
17 centerline of the crib. The pipe was covered with finer gravel, membrane barrier (generally thin gauge  
18 plastic sheeting), and sand before being backfilled with clean material to the surface elevation. A valve  
19 station is located outside the crib perimeter fence at the south end of the crib and a vent is located at the  
20 north end. The crib is surrounded by a light chain barricade. The crib surface is not radiologically  
21 contaminated.  
22

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**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**  
13 **of 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 17, September 2005.  
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 Does not apply. No construction is proposed as part of this project.

36

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**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        None. No physical activities are required to support closure of the  
11        216-A-37-1 Crib.

12

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

15        No.

16

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

19        None since no emissions are anticipated for the closure of the 216-  
20        A-37-1 Crib.

21

22

23        **3. Water**

24        **a. Surface**

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

30        No. The 216-A-37-1 Crib is over 7 kilometers from the  
31        Columbia River.

32

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

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

38

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

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

- 7  
8           **4) Will the proposal require surface water withdrawals or**  
9           **diversions? Give general description, purpose, and**  
10           **approximate quantities if known.**

11           No surface water withdrawal or diversion would be required.

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

15           The 216-A-37-1 Crib is not within the 100-year or 500-year  
16           floodplain [*Hanford Site National Environmental Policy Act*  
17           (*NEPA*) *Characterization*, PNL-6415, Revision 17,  
18           September 2005].

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

23           No.

24  
25           **b. Ground**

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

29           No.

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

38           None.

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**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 on and 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 No waste materials can enter ground or surface waters as a result  
14 of closure.

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

18 No measures are proposed to reduce or control surface, ground, and  
19 run-off impacts.

20  
21 **4. Plants**

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

- 23  deciduous tree: alder, maple, aspen, other  
24  evergreen tree: fir, cedar, pine, other  
25  shrubs  
26  grass  
27  pasture  
28  crop or grain  
29  wet soil plants: cattail, buttercup, bulrush, skunk cabbage,  
30 other  
31  water plants: water lily, eelgrass, milfoil, other  
32  other types of vegetation  
33

34 The most common vegetation community in the 200 East Area is  
35 sagebrush/cheatgrass or Sandberg's bluegrass. Native vegetation  
36 resides in the immediate vicinity of the 216-A-37-1 Crib.  
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1       **b. What kind and amount of vegetation will be removed or**  
2       **altered?**

3       No vegetation would be removed or altered during 216-A-37-1 Crib  
4       closure activities.

5  
6       **c. List threatened or endangered species known to be on or near**  
7       **the site.**

8       No known threatened or endangered species are known to be on or  
9       near the 216-A-37-1 Crib. Additional information on species can be  
10      found in *Hanford Site National Environmental Policy Act (NEPA)*  
11      *Characterization*, PNL-6415 (Revision 17, September 2005).

12  
13      **d. Proposed landscaping, use of native plants, or other measures to**  
14      **preserve or enhance vegetation on the site, if any:**

15      None.

16  
17      **5. Animals**

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

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

24  
25      Additional information on animals can be found in *Hanford Site*  
26      *National Environmental Policy Act (NEPA) Characterization*,  
27      PNL-6415 (Revision 17, September 2005).

28  
29  
30      **b. List any threatened or endangered species known to be on or**  
31      **near the site.**

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

38

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

2            The Hanford Site is a part of the broad Pacific Flyway. However,  
3            the 216-S-7 Pond and Ditch location is not known as a haven for  
4            migratory birds.

5  
6        **d. Proposed measures to preserve or enhance wildlife, if any:**

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

9  
10       **6. Energy and Natural Resources**

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

14            None.

15  
16       **b. Would your project affect the potential use of solar energy by**  
17       **adjacent properties? If so, generally describe.**

18            No.

19  
20       **c. What kinds of energy conservation features are included in the**  
21       **plans of this proposal? List other proposed measures to reduce**  
22       **or control energy impacts, if any:**

23            None.

24  
25       **7. Environmental Health**

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

30            No.

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

33            No special emergency services are known to be required.

34  
35       **2) Proposed measures to reduce or control environmental**  
36       **health hazards, if any:**

37            None.

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**EVALUATIONS FOR  
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**b. Noise**

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

None is anticipated.

**2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)?**

**Indicate what hours noise would come from the site.**

None is anticipated.

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

None.

**8. Land and Shoreline Use**

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

The 216-A-37-1 Crib site is not in use. Adjacent properties are industrial/research.

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

No portion of the 200 East Area has been used for agricultural purposes since 1943.

**c. Describe any structures on the site.**

There are no structures at the 216-A-37-1 Crib site.

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

Does not apply. There are no structures on the site (refer to Section B.8.c).

**e. What is the current zoning classification of the site?**

Does not apply. The site is located on Federal lands and as such is not subject to the Growth Management Act (State of Washington land use authority). However, for completeness, the Hanford Site is

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**EVALUATIONS FOR  
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1 currently included in the Benton County Comprehensive Plan (June  
2 22, 1998) as the undesignated "Hanford Sub-Area".

3  
4 **f. What is the current comprehensive plan designation of the site?**

5 The Federal land management decision process has determined  
6 through NEPA [*Hanford Comprehensive Land-Use Plan*  
7 *Environmental Impact Statement Record of Decision* (64 FR 61615,  
8 November 12, 1999)] that the 200 East Area geographic area, which  
9 includes the 216-A-37-1 Crib, is designated Industrial-Exclusive.

10  
11 **g. If applicable, what is the current shoreline master program**  
12 **designation of the site?**

13 Does not apply.

14  
15 **h. Has any part of the site been classified as an "environmentally**  
16 **sensitive" area? If so, specify.**

17 No.

18  
19 **i. Approximately how many people would reside or work in the**  
20 **completed project?**

21 Does not apply.

22  
23 **j. Approximately how many people would the completed project**  
24 **displace?**

25 None.

26  
27 **k. Proposed measures to avoid or reduce displacement impacts, if**  
28 **any:**

29 Does not apply.

30  
31 **l. Proposed measures to ensure the proposal is compatible with**  
32 **existing and projected land uses and plans, if any:**

33 Does not apply (refer to Section B.8.f.).

34  
35 **9. Housing**

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

38 None.

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**EVALUATIONS FOR  
AGENCY USE ONLY**

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

None.

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

Does not apply.

**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.

- 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.

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

3        None.

4

5        **12. Recreation**

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

8        None.

9

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

12       No.

13

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

17       None.

18

19       **13. Historic and Cultural Preservation**

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

23       No places or objects listed on, or proposed for, national, state, or  
24       local preservation registers are known to be on or next to the 216-A-  
25       37-1 Crib.

26

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

30       There are no known archaeological, historical, or Native American  
31       religious sites on or near the 216-A-37-1 Crib.

32

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

34       None.

35

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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  
10 50 kilometers, located at Washington State University Tri-Cities.  
11

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

14 Does not apply.  
15

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

20 No.  
21

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

24 No.  
25

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

29 No additional vehicular traffic will be required.  
30

31 **g. Proposed measures to reduce or control transportation impacts,**  
32 **if any:**

33 None.  
34

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**EVALUATIONS FOR  
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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 No utilities currently are available at the 216-A-37-1 Crib.

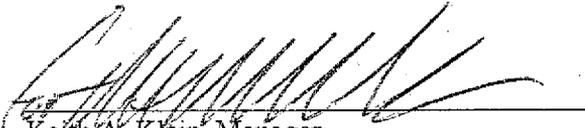
16  
17 b. **Describe the utilities that are proposed for the project, the utility**  
18 **providing the service, and the general construction activities on**  
19 **the site or in the immediate vicinity which might be needed.**

20 No utilities are proposed supporting closure of the 216-A-37-1 Crib.

1 **SIGNATURES**

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



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

4/26/06  
Date