ADDENDUM

Nuclear Waste Program

Environmental Checklist Staff Comments

DATE: June 7, 1995

PROJECT: 304 Concretion Facility Closure

RESPONSIBLE OFFICIAL: Mike Wilson, Program Manager

STAFF CONTACT: Geoff Tallent, (360) 407-7112

APPLICANT: U.S. Department of Energy

The following staff amendments, comments, and additions correspond to sections of the environmental checklist submitted by the Applicant. These amendments are attached to, and become part of the checklist.

A.6 The reference to the Closure Plan is changed to reference DOE-RL-90-03, Revision 2A for this section and the remainder of the checklist. Closure will begin within 30 days after approval of the Closure Plan by incorporation into the Hanford Facility Permit, and will be completed within 180 days.

A.10 Reference to WAC 173-303-400 and 40 CFR 265 subpart G, are changed to WAC 173-303-610 and 40 CFR 264 subpart G.

B.1.g The current plans for the 304 Concretion facility closure are to remove all buildings and pads. It is unlikely that there is sufficient soil contamination to justify leaving the pads in place. However, if dangerous waste contamination is greater than anticipated, or there is radiological contamination that must be covered, the pads may be left in place pending remediation of the soil under the corresponding CERCLA Record of Decision.

STATE ENVIRONMENTAL POLICY ACT (SEPA)

ENVIRONMENTAL CHECKLIST FORMS

FOR

304 CONCRETION FACILITY

RCRA CLOSURE PLAN

REVISION 1

OCTOBER, 1991

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

A. BACKGROUND

1. Name of proposed project, if applicable:

   RCRA Closure of the 304 Concretion Facility.

   Information contained in this State Environmental Policy Act (SEPA) Checklist pertains only to the portion of the Hanford Site 300 Area which contains the 304 Concretion Facility.

2. Name of applicants:

   U.S. Department of Energy, Field Office, Richland (RL); and
   Westinghouse Hanford Company (WHC)

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

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

   Westinghouse Hanford Company
   P.O. Box 1970
   Richland, Washington 99352

   Contact Persons:

   E. A. Bracken, Director
   Environmental Restoration Division
   (509) 376-7277

   R. E. Lerch, Manager
   Environmental Division
   (509) 376-5556

4. Date checklist prepared:

   October 3, 1991

5. Agency requesting checklist:

   State of Washington
   Department of Ecology
   Mail Stop PV-11
   Olympia, Washington 98504-8711

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

   A closure plan (DOE/RL-90-03 Revision 1) is being submitted for the closure of the 304 Concretion Facility. The schedule for closure has not been determined at this time.

   Closure activities will begin when notification is received of approval of the closure plan by the State of Washington Department of Ecology (Ecology) and by the United States Environmental Protection Agency (EPA) and will require approximately 61 weeks after approval.

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

Clean closure is proposed for the 304 Concretion Facility. If clean closure is not practical, final disposition of the 304 Concretion Facility will be determined through the Remedial Investigation and Feasibility Study (RI/FS) process in conjunction with the 300 Area Operable Units, 300-FF-3 and 300-FF-5, under the Comprehensive Environmental Response, Compensation and Liability Act of 1980, (CERCLA) and the Hanford Federal Facility Agreement and Consent Order.

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

This SEPA Checklist is being submitted to the Washington State Department of Ecology (Ecology) concurrently with a RCRA Closure Plan (DOE/RL-90-03 Revision 1) for the 304 Concretion Facility. A RCRA Part A Permit Application was submitted to Ecology and EPA on August 1, 1986. A RI/FS and NEPA documentation are planned for the 300-FF-3 Operable Unit.

ERDA-1538 contains environmental information on radioactive waste operations at the Hanford Site, including the 300 Area.

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

No applications are known to be pending.

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

Ecology is the lead agency authorized to approve the Closure Plan for the 304 Concretion Facility pursuant to the requirements of Washington Administrative Code, (WAC) 173-303-400 and 40 Code of Federal Regulations (CFR) Part 265 subpart G.

No other permits are known to be required at this time.

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

The proposed project is the final closure of the 304 Concretion Facility. Clean closure is proposed as the condition for final closure of the facility. Clean closure is contingent on verification that all wastes and contaminants are removed to accepted action levels and that all equipment, structures, liners, soils and/or other materials containing dangerous wastes or waste residues are removed from the 304 Concretion Facility.

The facility consists of a metal building with a concrete floor, an attached change room building, and an outside concrete pad surrounded by asphalt. The facility covers an area of about 2000 square feet. The facility is not now in use and all dangerous waste inventories have been removed.

All equipment and fixtures will be decontaminated, removed, and appropriately disposed of. The buildings, floors, and the concrete pad will be decontaminated to appropriate action levels with one or more of the following methods:

- o Damp wipe downs
- o Vacuum assisted mechanical removal
- o Sandblasting
- o High-pressure steam and suction

The buildings, floors, concrete storage pad and underlying shallow soils will be sampled to determine the levels of remaining contamination and the requirements for additional decontamination. Clean closure will be achieved when sampling shows that the remaining contamination is below acceptable action levels as defined in the closure plan. If decontamination procedures do not meet these action levels, the buildings will be decommissioned and the concrete pad demolished. The building and pad will be appropriately disposed of. Any contaminated soil will be remediated under the CERCLA RI/FS process.

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

The 304 Concretion Facility is located in the northwest portion of the Hanford Site 300 Area approximately one mile north of the City of Richland, Washington in Section 11, T 10 N, R 28 E. A location map and 304 Concretion Facility plans are included in the closure plan.

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site (circle one): Flat, rolling, hilly, steep slopes, mountainous, other_____.

Flat.

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

The approximate slope of the land at the 304 Concretion Facility is less than two percent.

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

The soil at the 304 Concretion Facility consists of compacted sand and gravel fill material underlain by sandy gravel with excellent drainage characteristics. No farming is permitted on the Hanford Site.

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

No.

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

No fill or grading will be required for clean closure. If the buildings and pad are removed, an impervious cover will be placed until closure under CERCLA.

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

Minor wind erosion could occur if the buildings and concrete pad are removed.

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

100% The existing buildings and pad will be left in place after clean closure. If clean closure is not achieved, buildings and pad will be removed and an impervious cover will be placed until closure under CERCLA.

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

None at this time.

2. Air

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

Minor amounts of dust, vapors, and vehicle exhaust will be generated by vehicles and equipment during decontamination and sampling activities, and by removal of the buildings and pad if necessary.

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?

None at this time.

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 closest body of water is the Columbia River approximately one-half mile from the 304 Concretion Facility.

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.

No.

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.

None.

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

No.

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

No.

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

No.

b. Ground

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

Insignificant amounts of water will be discharged to the soil by steam cleaning and concrete coring activities

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

Does not apply.

c. Water Run-off (including storm water)

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

The Hanford Site receives 6 inches to 8 inches of annual precipitation. Any precipitation that occurs at the 304 Concretion Facility will run off the buildings and pad and seep into the soil on and near the facility. No run-off will enter surface waters.

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

Slightly contaminated runoff from the pads could enter the soil during closure and is unlikely to reach the groundwater. The quantity would be very minor because of the dry climate and evapotranspiration from the soil. No materials will enter surface waters.

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

None are proposed at this time.

4. Plants

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

___ deciduous tree: alder, maple, aspen, other
___ evergreen tree: fir, cedar, pine, other
___ shrubs
_x_ grass
___ pasture
___ crop or grain
___ wet soil plants: cattail, buttercup, bulrush, skunk cabbage, other
___ water plants: water lily, eelgrass, milfoil, other
_x_ other types of vegetation

Small quantities of forbes and grasses may be seasonally found.

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

Small amounts of forbes and grasses.

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

None. Additional information on the Hanford Site environment can be found in the environmental document referred to in the answer to checklist question A.8.

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

None at this time.

5. Animals

a. Circle any birds and animals which have been observed on or near the site or are known to be on or near the site:

birds: hawk, heron, eagle, songbirds, other:
mammals: deer, bear, elk, beaver, other:
fish: bass, salmon, trout, herring, shellfish, other:

Starlings, lagomorphs and pigeons have been observed at the 304 Concretion Facility. Additional information on the Hanford Site environment can be found in the environmental document referenced in the answer to checklist question A.8.

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

The Bald Eagle and the White Pelican are sometimes seen on the Hanford Site and possibly may be seen near the 300 Area.

The 304 Concretion Facility is not known to be used by any threatened or endangered species. However, additional information concerning endangered and threatened species on the Hanford Site can be found in the environmental document referred to in the answer to checklist question A.8.

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

No: however, the adjacent Columbia River is part of the broad Pacific Flyway for waterfowl migration and other birds also migrate along the river.

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

None at this time.

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.

7. Environmental Health

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

The 304 Concretion Facility will be clean closed by removing or decontaminating all dangerous waste and waste residues to accepted action levels. All proper procedures will be followed during these operations to minimize exposure to hazardous waste. The potential exists for exposure to hazardous waste during sampling of the building and storage pad. Procedures to prevent and manage hazards are presented in the closure plan.

1) Describe special emergency services that might be required.

Hanford Site security, fire response, and ambulance services are on call at all times in the event of an onsite emergency.

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

Environmental health hazards are expected to be minimal. Procedures to prevent and manage potential hazards are presented in the closure plan.

b. Noise

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

None.

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.

Minor amounts of noise from traffic and equipment are expected on a short term basis during day shift hours.

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

Vehicles and equipment will meet manufacturer's requirements for noise suppression.

8. Land and Shoreline Use

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

The Hanford Site houses reactors, chemical separation systems, waste management facilities, and related facilities used for the production of special nuclear materials. Other scientific and engineering programs are carried out.

The 304 Concretion Facility is not currently in use.

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

No portion of the Hanford Site, including the 304 Concretion Facility, has been used for agricultural purposes since 1943.

c. Describe any structures on the site.

The 304 Concretion Facility consists of a metal building, 46 feet-10 inches by 25 feet and a change room building 21 feet by 18 feet in

floor plan. There is a small outside concrete slab used as a storage pad.

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

The buildings and concrete pad if necessary.

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

The Hanford Site is zoned by Benton County as an Unclassified Use (U) district.

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

The 1985 Benton County Comprehensive Land Use Plan designates the Hanford Site as the "Hanford Reservation." Under this designation, land on the Site may be used for "activities nuclear in nature." Non-nuclear activities are authorized "if and when DOE approval for such activities is obtained."

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

Does not apply.

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

No.

i. Approximately how many people would reside or work in the completed project?

None.

j. Approximately how many people would the completed project displace?

None.

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

Does not apply.

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

See answer to checklist question B.8.f.

9. Housing

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

None.

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?

Does not apply.

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:

Does not apply.

12. Recreation

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

None.

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?

Does not apply.

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 site. Additional information on the Hanford Site environment can be found in the environmental document referred to in the answer to checklist question A.8.

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 on or next to the facility. Additional information on the Hanford Site environment can be found in the environmental document referenced in the answer to Checklist question A.8.

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

Does not apply.

14. Transportation

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

Does not apply.

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

The facility is not publicly accessible and, therefore, is not served by public transit.

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

None.

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

None.

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

No.

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

None.

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

None.

15. Public Services

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

No.

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

Does not apply.

16. Utilities

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

Electricity and water.

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

None.

SIGNATURES

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

R. D. Izatt, Program Manager
Office of Environmental Assurance,
Permits and Policy
U.S. Department of Energy
Field Office, Richland

10/3/91
Date

R. E. Lerch, Manager
Environmental Division
Westinghouse Hanford Company

10-28-91
Date