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**STATE ENVIRONMENTAL POLICY ACT (SEPA)
ENVIRONMENTAL CHECKLIST FORMS**

FOR

3718-F ALKALI METAL TREATMENT AND STORAGE FACILITY

CLOSURE PLAN

REVISION 1

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

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A. BACKGROUND

1. Name of proposed project, if applicable:

Closure of the 3718-F Alkali Metal Treatment and Storage Facility (3718-F Facility).

Within this checklist, "site" refers to the 3718-F Facility and "Hanford Site" refers to the entire Hanford Reservation.

2. Name of applicants:

U.S. Department of Energy, Field Office, Richland (DOE-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:

J. D. Bauer, Program Manager
Office of Environmental Assurance,
Permits and Policy
(509) 376-5441

R. E. Lerch, Deputy Director
Restoration and Remediation
(509) 376-5556

4. Date checklist prepared:

October 1992

5. Agency requesting the checklist:

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

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

Closure of the 3718-F facility will begin following notification by Ecology of closure plan approval. Closure would be scheduled to be completed in July, 1995.

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

There are no additions, expansions, or activities other than closure activities planned.

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

4 This SEPA Checklist is being submitted to the Washington State Department
5 of Ecology (Ecology) concurrently with a RCRA closure plan. RCRA Part A
6 and Part B (Alkali Metal Treatment and Storage Facilities) permit
7 applications were submitted to Ecology in November 1985. Revision 3 to
8 the Part A was submitted in December 1991. The permit application
9 designates the 3718-F Facility as a thermal treatment and storage
10 facility.
11

12 General Hanford Site information is found in *Hanford Site National*
13 *Environmental Policy Act (NEPA) Characterization*, PNL-6415 Rev. 3
14 Pacific Northwest Laboratory, 1990, Richland, Washington.
15

- 16 9. Do you know whether applications are pending for government approvals of
17 other proposals directly affecting the property covered by your proposal?
18 if yes, explain.
19

20 No.
21

- 22 10. List any government approvals or permits that will be needed for your
23 proposal, if known.
24

25 Ecology is the lead agency authorized to approve the Closure Plan
26 pursuant to the requirements of Washington Administrative Code, (WAC)
27 173-303-610 and 40 Code of Federal Regulations (CFR) Parts 270.1 and
28 265.381.
29

30 No other permits are known to be required at this time.
31

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

37 The proposed project is closure of the 3718-F Facility located in the 300
38 Area of the Hanford Site. The facility, which was used to store and
39 treat alkali metal wastes, is no longer in use and waste inventories have
40 been removed. The following background information is provided.
41

42 The 3718-F Facility consists of a single-story storage building with an
43 adjoining loading pad and adjoining concrete pad. A burn shed with
44 accompanying fume scrubber, two tanks for cleaning equipment, and a
45 safety shower are located on the adjoining concrete pad. The concrete
46 pad is bermed along two sides (south and north) and sloped towards a
47 third side (east), along the edge of which runs a deep grated trench.
48 The design of the concrete pad is intended to prevent run-off onto the
49 surrounding soils and channel drainage to a sump which, in turn, drains
50 to the 300 Area process sewer system.
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52 The storage building is made of corrugated steel and is equipped with
53 electric lights, electric space heaters, and window air conditioning

1 units. The building sits on a concrete pad. The northern half of the
2 building is used for storage and the southern half is a work area.
3

4 The burn shed has a wide roll-up door and there are small stirring ports
5 and 'bullet-proof' windows in the north and west sides. The fume
6 scrubber is a 125-m³/min (4,300-cfm) counter-flow water spray column.
7

8 The building, burn shed, and adjacent pads cover a total area of
9 approximately 223 square meters (2400 square feet).
10

11 The 3718-F Facility began treatment of alkali metal waste in 1968 and
12 ended in 1987. Storage activities also began in 1968 and continued until
13 1989. Waste sodium, lithium, and sodium potassium alloy were burned in
14 the burn shed. Equipment contaminated with alkali metals was cleaned
15 using baths of water, methanol, isopropyl alcohol, or 2-butoxy ethanol.
16 The 3718-F building also stored high purity sodium and sodium potassium
17 alloy for use in laboratories. Wastes generated at the 3718-F Facility
18 include alkali metal oxides, hydroxides, carbonates, and alcohol
19 solutions. However, the metal oxides have since transformed to
20 carbonates from exposure to air. There are no longer any dangerous
21 wastes stored at the 3718-F Facility.
22

23 To facilitate closure, the 3718-F Facility is viewed as consisting of
24 five components; the concrete pads and building floors, the burn shed and
25 scrubber system, the reaction tanks, the storage shed walls, and the
26 associated near-surface soils. These five components will be evaluated
27 separately. The on-site drain lines to the process sewer system will be
28 addressed under the 300-FF-3 operable unit CERCLA RI/FS process.
29

30 The proposed closure actions are described in detail in the closure plan
31 for the 3718-F Facility, and are summarized as follows:
32

- 33 • The burn shed, scrubber system, reaction tanks, and the concrete
34 floors and pads will be cleaned.
35
- 36 • Samples will be taken from the burn shed interior, the internal
37 surface areas of the scrubber system, the internal surface areas of
38 the reaction tanks, the internal surface area of the storage
39 building, and the concrete floors and pads.
40
- 41 • Samples will be taken from adjacent near-surface soils and soils
42 underlying the concrete pads.
43
- 44 • Samples will be analyzed and the data compared to the action levels
45 for closure options.
46
- 47 • If contamination levels (other than in soil) are below action
48 levels, the 3718-F Facility will be closed, scrubber equipment and
49 burn shed will be salvaged, and the storage building and concrete
50 pads will remain in place. If contamination levels are above action
51 levels, and further cleanup is not effective, the contaminated
52 components will be removed and disposed of in a RCRA approved
53 hazardous waste landfill.
54

- 1 • If soil contamination from 3718-F Facility derived constituents is
2 below action levels, the soil is clean with respect to 3718-F
3 Facility operations. If soil contamination from 3718-F Facility
4 derived constituents is greater than action levels the soil will be
5 remediated under the CERCLA RI/FS process as part of the 300-FF-3
6 operable unit. If soil contamination is above health based
7 standards, interim action will be taken.
8
- 9 • The boundaries of the closure area will be 5 centimeters (2 inches)
10 into the concrete pads and floors, the internal surfaces of the
11 walls and ceiling of the burn shed, the internal surfaces of the
12 scrubber system, and the internal surfaces of the reaction tanks.
13 The closure area will also extend 1 meter (39.4 inches) down into
14 the soil, 2 meters (78.7 inches) beyond the perimeter of the
15 concrete pads on the north and east sides, and 1 meter (39.4 inches)
16 down into the soil at the seam between the concrete pads.
17
- 18 • All equipment used in performing closure activities will be
19 decontaminated or disposed of at a RCRA-permitted facility.
20

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

31 The 3718-F Facility is located in the southeast portion of the Hanford
32 Site 300 Area, approximately 1.6 kilometers (one mile) north of the City
33 of Richland, Washington. The 3718-F Facility is located in Section 11, T
34 10 N, R 28 E. A location map, site plans and other details are provided
35 in the accompanying closure plan.
36
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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)

Approximately 1.5%.

- 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 site 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.

If the buildings and pads and contaminated soil are removed during closure, the site will be graded as necessary to provide a smooth surface. Filling will probably not be required.

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

No.

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

Approximately 90% of the site surface is covered with impervious materials. If the structures and pads are removed, up to 100 % of the site could eventually be uncovered.

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

No.

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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 cleanup 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

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.

The Columbia River is approximately 244 meters (800 feet) from the site.

- 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.

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- 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.

No.

- 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.

None.

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 15.2 centimeters (6 inches) to 17.8 centimeters (7 inches) of annual precipitation. Any precipitation that occurs at the site will run off the building and onto the concrete pad. The concrete pad is bermed along two sides (south and north) and sloped towards a third side (east), along the edge of which runs a deep grated trench. The design of the concrete pad is intended to prevent run-off onto the surrounding soils and channel drainage to a sump

1 which, in turn, drains to the 300 Area process sewer system.
2 No run-off will enter surface waters.
3

- 4 2) Could waste materials enter ground or surface waters? If so,
5 generally describe.
6

7 Liquid from the cleanup activities could reach the
8 process sewer system, enter the ground, and reach the water
9 table if not contained.
10

- 11 d. Proposed measures to reduce or control surface, ground, and run-off
12 water impacts, if any:
13

14 All water from the cleanup activities will be contained,
15 sampled, and disposed of appropriately.
16

17 4. Plants

- 18 a. Check or circle the types of vegetation found on the site.
19

20
21 deciduous tree: alder, maple, aspen, other
22 evergreen tree: fir, cedar, pine, other
23 shrubs
24 grass
25 pasture
26 crop or grain
27 wet soil plants: cattail, buttercup, bulrush, skunk cabbage,
28 other
29 water plants: water lily, eelgrass, milfoil, other
30 other types of vegetation
31

32 None.
33

- 34 b. What kind and amount of vegetation will be removed or altered?
35

36 None.
37

- 38 c. List threatened or endangered species known to be on or near the
39 site.
40

41 None.
42

- 43 d. Proposed landscaping, use of native plants, or other measures to
44 preserve or enhance vegetation on the site, if any:
45

46 None.
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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:.....

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. 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 site of the 3718-F 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.

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.

Electricity at the site would be used for closure activities.

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

No.

- 1 c. What kinds of energy conservation features are included in the plans
2 of this proposal? List other proposed measures to reduce or control
3 energy impacts, if any:
4

5 None.
6

7 **7. Environmental Health**
8

- 9 a. Are there any environmental health hazards, including exposure to
10 toxic chemicals, risk of fire and explosion, spill, or hazardous
11 waste, that could occur as a result of this proposal? If so,
12 describe.
13

14 The Facility will be closed by removing or cleaning all dangerous
15 waste and waste residues to appropriate levels. All proper
16 procedures will be followed during these operations to minimize
17 exposure to hazardous waste. The potential exists for exposure to
18 hazardous waste during sampling of the building and storage pads.
19 Procedures to prevent and manage hazards are presented in the
20 closure plan.
21

- 22 1) Describe special emergency services that might be required.
23

24 Hanford Site security, fire response, and ambulance services
25 are on call at all times in the event of an onsite emergency.
26

- 27 2) Proposed measures to reduce or control environmental health
28 hazards, if any:
29

30 Environmental health hazards are expected to be minimal.
31 Personnel will wear appropriate protective clothing and
32 equipment and follow established procedures for cleanup. Waste
33 from cleanup activities will be handled and disposed of
34 appropriately. Procedures to prevent and manage potential
35 hazards are presented in the closure plan.
36

37 **b. Noise**
38

- 39 1) What type of noise exists in the area which may affect your
40 project (for example: traffic, equipment, operation, other)?
41

42 None.
43

- 44 2) What types and levels of noise would be created by or
45 associated with the project on a short-term or a long-term
46 basis (for example: traffic, construction, operation, other)?
47 Indicate what hours noise would come from the site.
48

49 Minor amounts of noise from traffic and equipment are expected
50 on a short term basis during day shift hours.
51

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 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 also carried out.

The 3718-F Facility is not currently being used. There is no proposed use after closure.

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

No portion of the Hanford Site, including the site of the facility, has been used for agricultural purposes since 1943.

c. Describe any structures on the site.

The 3718-F Facility consists of a single-story storage building 6.1 m by 14.6 m (20 ft. by 48 ft.), an adjoining loading pad 3.7 m by 6.1 m (12 ft. by 20 ft.), and an adjoining concrete pad 7.6 m by 14.6 m (25 ft. by 48 ft.). A burn shed with accompanying fume scrubber, two tanks for cleaning equipment, and a safety shower are located on the adjoining concrete pad. The adjoining concrete pad is 15.2 cm (6 in.) thick and is bermed along two sides (south and north) and sloped towards a third side (east), along the edge of which runs a 7.6 cm (3 in.) wide by 7.6 cm (3 in.) deep grated trench. The design of the concrete pad is intended to prevent runoff onto the surrounding soils and channel drainage to a sump which, in turn, drains to the process sewer system.

The gabled ends, roof, and siding of the storage building are corrugated steel. The building has electric lights, electric space heaters, and window air conditioning units. The building sits on a concrete pad. The northern half of the building is the storage area and the southern half is a work area.

The burn shed is 3.0 m by 3.7 m (10 ft by 12 ft), with an 2.4-m- (8-ft-) wide roll-up door. There are small stirring ports [7.6-cm- (3-in.-) diameter] and 'bullet-proof' windows in the north and west sides. The fume scrubber is a 125-m³/min (4,300-cfm) counter-flow water spray column.

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- d. Will any structures be demolished? If so, what?
If contamination exceeds action levels for any component of the facility, excluding soil, the component will be demolished if necessary to complete closure.
- 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:
None.
- l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:
Does not apply. (See answer to checklist question B.8.f.)

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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:

None.

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?

Approximately 4.6 meters (15 Feet); corrugated steel and steel.

- 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.

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

3
4 None.

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6 **12. Recreation**

- 7
8 a. What designated and informal recreational opportunities are in the
9 immediate vicinity?

10
11 None.

- 12
13 b. the proposed project displace any existing recreational uses? If
14 so, describe.

15
16 No.

- 17
18 c. Proposed measures to reduce or control impacts on recreation,
19 including recreation opportunities to be provided by the project or
20 applicant, if any?

21
22 None.

23
24 **13. Historic and Cultural Preservation**

- 25
26 a. Are there any places or objects listed on, or proposed for,
27 national, state, or local preservation registers known to be on or
28 next to the site? If so, generally describe.

29
30 No places or objects listed on, or proposed for, national, state, or
31 local preservation registers are known to be on or next to the site.
32 Additional information on the Hanford Site environment can be found
33 in the environmental documents referred to in the answer to
34 Checklist question A.8.

- 35
36 b. Generally describe any landmarks or evidence of historic,
37 archaeological, scientific, or cultural importance known to be on or
38 next to the site.

39
40 There are no known archaeological, historical, or Native American
41 religious sites on or next to the facility. Additional information
42 on the Hanford Site environment can be found in the environmental
43 documents referenced in the answer to Checklist question A.8.

- 44
45 c. Proposed measures to reduce or control impacts, if any:

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47 None.

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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.

None.

- 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).

No.

- 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.

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

None.

16. Utilities

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

Electricity, water, and Telephone.

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.

James D. Bauer
J. D. Bauer, Program Manager
Office of Environmental Assurance,
Permits and Policy
U.S. Department of Energy
Field Office, Richland

11/16/92
Date

R. E. Lerch
R. E. Lerch, Deputy Director
Restoration and Remediation
Westinghouse Hanford Company

11-2-92
Date

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