

START

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STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

Mail Stop PV-11 • Olympia, Washington 98504-8711 • (206) 459-6000

RECEIVED
R. H. ENGELMAN

November 18, 1993

DEC 01 1993

Dear Interested Citizen:

ACTION:
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ROUTE:
FILE:

Enclosed for your review and comment is a Determination of Nonsignificance and Environmental Checklist prepared under the State Environmental Policy Act (SEPA) on the construction of the Waste Receiving and Processing Facility Module 1. A SEPA determination is used by the lead regulatory agency to decide whether a proposed action will have significant or nonsignificant adverse environmental impacts.

The Waste Receiving and Processing Facility Module 1 will be used to examine, treat, and certify various contact-handled wastes at Hanford. The facility will provide primary and secondary confinement in order to prevent the release of the radioactive and hazardous wastes.

In accordance with SEPA, Ecology is accepting comments on this determination until December 6, 1993. Please address any comments to:

Geoff Tallent
Nuclear and Mixed Waste Management Program
Department of Ecology
P.O. Box 47600
Olympia, Washington 98504-7600

For more information, or to request copies of any supporting documents, please contact Geoff Tallent at (206) 407-7112, or call Hanford Cleanup toll-free at 1-800-321-2008.

Thank you for your interest in this matter.

Sincerely,

Dru Butler
Program Manager
Nuclear and Mixed Waste Management

DB/GT:md
Enclosures (2)



DETERMINATION OF NONSIGNIFICANCE

Description of proposal RCRA Permitting of the Waste Receiving and Processing Facility Module 1 (WRAP). WRAP Module 1 will characterize, treat, and certify radioactive and mixed wastes.

Proponent U.S. Department of Energy and Westinghouse Hanford Co.

Location of proposal, including street address if any The 200 West expansion area west of Dayton Avenue and south of 23rd Street of the Hanford Site (SW 1/4, SW 1/4, NW 1/4, Section 1, T12N, R25E).

Lead agency Department of Ecology, Nuclear and Mixed Waste Management Program

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

- There is no comment period for this DNS.
- This DNS is issued under WAC 197-11-340(2); the lead agency will not act on this proposal for 15 days from the date below. Comments must be submitted by 12/6/93.

Responsible official Dru Butler

Position/title Program Manager, Nuclear and Mixed Waste Management

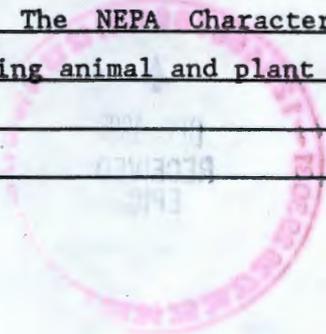
Address Department of Ecology, P.O. Box 47600, Olympia, Washington 98504-7600

Date 11-18-93 Signature Dru Butler

The following information is incorporated by reference into this DNS under WAC 197-11-635 and, upon request to the address above, is available for review during the comment period:

Document: Hanford Site National Environmental Policy Act Characterization (PNL-6415) Rev. 4

Relevant Content: The NEPA Characterization describes the Hanford Site environment including animal and plant species and historical sites.



9413149.0140

STATE ENVIRONMENTAL POLICY ACT
ENVIRONMENTAL CHECKLIST

FOR

THE WASTE RECEIVING AND PROCESSING FACILITY MODULE 1

REVISION 0

MAY 23, 1991

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

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B

A. BACKGROUND

1
2
3
4 1. Name of proposed project if applicable:
5

6 Permitting of the Waste Receiving and Processing Facility Module 1
7 (WRAP Module 1). This *State Environmental Policy Act (SEPA) of 1971*
8 Checklist is being submitted concurrently with the *Notice of Intent for*
9 *Construction of the Waste Receiving and Processing Facility*. Information
10 contained in this checklist pertains only to the WRAP Module 1. In the
11 context of this document, 'site' refers to only the area covered by the
12 physical structure of the unit, whereas 'Site' refers to the Hanford
13 Site.
14

15 2. Name of applicants:
16

17 U.S. Department of Energy-Richland Operations (DOE-RL); and Westinghouse
18 Hanford Company (Westinghouse Hanford)
19

20 3. Address and phone number of applicant and contact person:
21

22 U.S. Department of Energy	Westinghouse Hanford Company
23 Richland Operations Office	P.O. Box 1970
24 P.O. Box 550	Richland, Washington 99352
25 Richland, Washington 99352	

26
27 Contact Persons:
28

29 E. A. Bracken, Director	R. E. Lerch, Manager
30 Environmental Restoration Division	Environmental Division
31 (509) 376-7277	(509) 376-5556

32
33 4. Date checklist prepared:
34

35 May 23, 1991
36

37 5. Agency requesting the checklist:
38

39 Washington State
40 Department of Ecology
41 Mail Stop PV-11
42 Olympia, WA 98504-8711
43

44 6. Proposed timing or schedule (including phasing, if applicable):
45

46 There are three main phases to this project: Design, procurement, and
47 construction. Design started on January 31, 1991 and will be completed
48 on May 1, 1993. Procurement will begin January 1, 1993 and end
49 September 31, 1994. Construction is scheduled to start on May 1, 1993
50 and will be completed on March 31, 1996. The conclusion of all these
51 phases will lead to a project closing date of March 31, 1997.
52

1 7. Do you have any plans for future additions, expansion, or further
2 activity related to or connected with this proposal? If yes, explain.
3

4 Yes. The WRAP Facility will treat and certify radioactive waste and/or
5 radioactively contaminated dangerous waste (mixed waste) that cannot be
6 treated by the waste generator for disposal. The current strategy is to
7 split the scope of the WRAP Facility into two modules because the
8 technology necessary for handling and treatment varies widely according
9 to the characteristics of individual waste types. Module 1 will provide
10 characterization, treatment, and certification, and Module 2 will provide
11 waste treatment.
12

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

15 • This SEPA Checklist is being submitted concurrently with the *Notice of*
16 *Intent for Construction of the Waste Receiving and Processing*
17 *Facility.*
18

19 • A Part A Dangerous Waste Permit Application for the Hanford Central
20 Waste Complex was submitted to the State of Washington Department of
21 Ecology (Ecology) in May 1988. Revision 1 of the Part A permit
22 application was submitted in October 1990, and Revision 2 is in
23 process.
24

25 • The WRAP Facility Part B Permit Application is being prepared that
26 will contain specific information pertaining to WRAP Module 1.
27

28 • Permit applications for air emissions from WRAP Module 1 will be
29 developed as necessary.
30

31 Environmental information on the Hanford Site, in general, can be found
32 in the following references: (1) *Final Environmental Impact Statement -*
33 *Disposal of Hanford Defense High-Level, Transuranic and Tank Wastes,*
34 *DOE/EIS-0113 (U.S. Department of Energy, 1987, Richland, Washington),*
35 *(2) Hanford Site National Environmental Policy Act (NEPA)*
36 *Characterization, PNL-6415 (Revision 3, Pacific Northwest Laboratory,*
37 *1990, Richland, Washington), and (3) Draft Environmental Impact Statement*
38 *-Decommissioning of Eight Surplus Production Reactors at the Hanford*
39 *Site, Richland, Washington, DOE/EIS-0119D (U.S. Department of Energy,*
40 *1989, Washington, D.C.).*
41

42
43 9. Do you know whether applications are pending for government approvals of
44 other proposals directly affecting property covered by your proposal? If
45 yes, explain.
46

47 No other applications that would affect property associated with the WRAP
48 Module 1 are known to be pending government approval.
49
50
51

- 1 10. List any government approvals or permits that will be needed for your
2 proposal, if known.
3

4 Ecology is the lead agency authorized to approve the WRAP Facility
5 Dangerous Waste Permit Application pursuant to the requirements of
6 Washington Administrative Code 173-303-400 and 40 Code of Federal
7 Regulations Part 265 subpart G.
8

9 Permit applications for air emissions from WRAP Module 1 will be
10 developed as necessary and submitted to the appropriate regulatory
11 agencies for approval.
12

13 No other permits are known to be required at this time.
14

- 15 11. Give a brief, complete description of your proposal, including the
16 proposed uses and the size of the project and site.
17

18 The proposed action is the operation of the WRAP Module 1. Operation is
19 proposed as part of the Hanford Central Waste Complex. Operation is
20 contingent on verification that three distinct and separate areas will be
21 provided: A process area, a process support area, and an office
22 administration/reception area.
23

24 The WRAP Module 1, excluding parking areas, circulation, air locks,
25 stairways, and other similar areas, occupies an area of 49,000 square
26 feet (4,550 square meters). The process area will be 14,400 square feet
27 (1,340 square meters), the process support area will be 20,800 square
28 feet (1,930 square meters) and the administration area will be
29 9,700 square feet (900 square meters). The WRAP Module 1 will provide
30 the ability to examine, treat, and certify contact-handled transuranic
31 waste, contact-handled low-level waste, and contact-handled mixed waste
32 in 55-gallon drums. The WRAP Module 1 incoming waste will consist of
33 newly generated drums and 37,700 drums retrieved from storage. Some
34 waste could be returned to storage if WRAP Module 1 cannot provide the
35 proper treatment.
36

37 The WRAP Module 1 will contain radioactive and/or mixed waste that, if
38 released, have the potential of exposing offsite personnel beyond
39 established limits. Thus, the WRAP Module 1 will have a confinement
40 system that will provide primary and secondary confinement of the
41 radioactive and/or mixed waste.
42

- 43 12. Give the location of the proposal. Give sufficient information for a
44 person to understand the precise location of the proposed project,
45 including a street address, if any, and section, township, and range, if
46 known. If a proposal would occur over a range of area, provide the range
47 or boundaries of the site(s). Provide a legal description, site plan,
48 vicinity map, and topographic map, if reasonably available.
49

50 The WRAP Module 1 will be located in the 200 West expansion area west of
51 Dayton Avenue and south of 23rd Street of the Hanford Site, approximately
52 25 miles (40 kilometers) north of Richland, Washington. Maps and plans

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1 of the 200 Area and the WRAP Module 1 are contained in the *Notice of*
2 *Intent for Construction of the Waste Receiving and Processing Facility*
3 with which this SEPA Checklist is being submitted. The WRAP Module 1 is
4 located in the SW 1/4, SW 1/4, NW 1/4, Section 1, T12N, R25E.
5
6

7 **B. ENVIRONMENTAL ELEMENTS**
8

9 **1. Earth**
10

- 11 a. General description of the site (indicate one): Flat, rolling, hilly,
12 steep, mountainous, other.

13 Flat.
14

- 15 b. What is the steepest slope on the site (approximate percent slope)?
16

17 The approximate slope of the land at the WRAP Module 1 is less than
18 two percent.
19

- 20 c. What general types of soils are found on the site (for example, clay,
21 sand, gravel, peat, muck)? If you know the classification of
22 agricultural soils, specify them and note any prime farmland.
23

24 The soil at the WRAP Module 1 consists primarily of silty, sandy
25 gravel.
26

- 27 d. Are there surface indications or history of unstable soils in the
28 immediate vicinity? If so, describe.
29

30 No.
31

- 32 e. Describe the purpose, type, and approximate quantities of any filling
33 or grading proposed. Indicate the source of the fill.
34

35 Excavation will be required for the WRAP Facility modules, and
36 trenching will be required for the underground utilities. Excavated
37 material will be stockpiled for use as backfill. This excavation
38 material also will be used, as required, for finish grading to blend
39 the materials into the existing flat topography and to provide
40 drainage away from all buildings.
41

- 42 f. Could erosion occur as a result of clearing, construction, or use? If
43 so, generally describe.
44

45 Erosion due to wind and/or precipitation may occur during the
46 construction period. No erosion will occur after construction of the
47 WRAP Module 1 is complete.
48
49
50
51
52

- 1 g. Approximately what percent of the site will be covered with impervious
2 surfaces after project construction (for example, asphalt or
3 buildings)?
4

5 Approximately 80 percent of the WRAP Facility will be covered with
6 impervious surfaces.
7

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

10 To control the amount of dust generated by construction activities,
11 water trucks will be available to periodically spray the affected
12 area. Paved access roadways and graveled parking areas will be
13 provided to minimize erosion because of vehicular traffic.
14

15
16 2. Air

- 17
18 a. What types of emissions to the air would result from the proposal
19 (i.e., dust, automobile, odors, industrial wood smoke) during
20 construction and when the project is completed? If any, generally
21 describe and give approximate quantities if known.
22

23 Minor amounts of vehicular exhaust will be generated by construction
24 equipment and vehicles used by building personnel to gain access to
25 the site. Minor amounts of these items are expected because these are
26 conditions experienced on current exposed excavation sites. Some dust
27 will be generated during the construction phase. When the project is
28 complete plant air emissions will result.
29

- 30 b. Are there any off-site sources of emissions or odors that may affect
31 your proposal? If so, generally describe.
32

33 No.
34

- 35 c. Proposed measures to reduce or control emissions or other impacts to
36 the air, if any?
37

38 To control the amount of dust generated by construction activities,
39 water trucks will be available onsite to periodically spray affected
40 areas. Within the WRAP Module 1, a complex and sophisticated plant
41 ventilation system will use airlocks, pressure and temperature
42 differentials, continuous air monitoring and surveillance equipment,
43 and air scrubbers and filters to ensure that air emissions remain
44 within applicable regulatory limits and guidelines at all times.
45
46
47
48
49
50
51
52

1 3. Water

2
3 a. Surface:

- 4
5 1) Is there any surface water body on or in the immediate vicinity of
6 the site (including year-round and seasonal streams, saltwater,
7 lakes, ponds, wetlands)? If yes, describe type and provide names.
8 If appropriate, state what stream or river it flows into.

9
10 Yes. The ephemeral Cold Creek is within 10 miles
11 (16.1 kilometers) of the site.

- 12
13 2) Will the project require any work over, in, or adjacent to [within
14 200 feet (61 meters) of] the described waters? If yes, please
15 describe and attach available plans.

16
17 Does not apply.

- 18
19 3) Estimate the amount of fill and dredge material that would be
20 placed in or removed from surface water or wetlands and indicate
21 the area of the site that would be affected. Indicate the source
22 of fill material.

23
24 None.

- 25
26 4) Will the proposal require surface water withdrawals or diversions?
27 Give general description, purpose, and approximate quantities if
28 known.

29
30 No.

- 31
32 5) Does the proposal lie within a 100-year floodplain? If so, note
33 location on the site plan.

34
35 No.

- 36
37 6) Does the proposal involve any discharges of waste materials to
38 surface waters? If so, describe the type of waste and anticipated
39 volume of discharge.

40
41 No.

42
43 b. Ground:

- 44
45 1) Will ground water be withdrawn, or will water be discharged to
46 ground water? Give general description, purpose, and approximate
47 quantities, if known.

48
49 No.

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

8
9 A septic tank and drain field will be provided to receive sanitary
10 waste from the restrooms, changerooms, showers, and lunchroom.
11 The septic system will be designed to accommodate a building
12 occupancy of 60 personnel. The septic tank will have the
13 capability to contain 2,700 gallons (10,200 liters).

14
15 The WRAP Module 1 will provide the means to collect all liquid
16 waste, retain the waste, sample the waste, and transfer any
17 radioactive and/or mixed liquid waste to other Hanford liquid
18 treatment and disposal systems. The WRAP Module 1 will not
19 dispose of any contaminated liquids to the Hanford Site soil
20 column.

21
22 c. Water run-off (including storm water):

- 23
24 1) Describe the source of run-off (including storm water) and method
25 of collection and disposal, if any (include quantities, if known).
26 Where will this water flow? Will this water flow into other
27 waters? If so, describe.

28
29 Precipitation run-off in the shipping/receiving area will drain to
30 a sump, via floor drains. Liquid collected in the sump will be
31 tested, and if contaminated, will be pumped to the liquid waste
32 collection system.

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

36
37 Nonradioactive, nondangerous waste will be released to the soil
38 column via the septic system and a system of floor drains leading
39 from the shipping/receiving areas. The WRAP Module 1 will be
40 designed to preclude the release of radioactive and/or mixed waste
41 to ground or surface waters. Although a spill of this waste is
42 highly improbable, if released to the soil this waste could
43 eventually enter the groundwater approximately 150 feet (50
44 meters) below the WRAP Module 1.

45
46 d. Proposed measures to reduce or control surface, ground, and run-off
47 water impacts, if any:

48
49 The WRAP Module 1 will include liquid containment systems to prevent
50 surface, ground, and run-off water impacts.
51
52

1 4. Plants

2
3 a. Check the types of vegetation found on the site:

- 4
5 deciduous tree: alder, maple, aspen, other
6 evergreen tree: fir, cedar, pine, other
7 shrubs
8 grass
9 pasture
10 crop or grain
11 wet soil plants: cattail, buttercup, bulrush, skunk cabbage,
12 other
13 water plants: water lily, eelgrass, milfoil, other
14 other types of vegetation

15
16 The vegetation on the site consist of sagebrush, forbs, and other
17 common central Washington desert plant species.

18
19 b. What kind and amount of vegetation will be removed or altered?

20
21 Grasses, shrubs, and forbs will be removed from building sites and
22 areas to be paved.

23
24 c. List threatened or endangered species known to be on or near the site.

25
26 None. However, additional information concerning endangered and
27 threatened plants on the Hanford Site can be found in the
28 environmental documents referred to in the answer to Checklist
29 Question A.8.

30
31 d. Proposed landscaping, use of native plants, or other measures to
32 preserve or enhance vegetation on the site, if any:

33
34 The area north and east of the WRAP Facility between Dayton Avenue,
35 23rd Street, and the new building will be landscaped. The landscaped
36 areas will be provided with an irrigation system that will assist in
37 preserving vegetation.

38
39 5. Animals

40
41 a. Indicate (by underlining) any birds and animals which have been
42 observed on or near the site or are known to be on or near the site:

43
44 birds: hawk, heron, eagle, songbirds, other
45 mammals: deer, bear, elk, beaver, other
46 fish: bass, salmon, trout, herring, shellfish, other

47
48 A variety of insects, birds, and mammals common to the Hanford Site,
49 including pigeons, passerine birds, rodents, and lagomorphs have been
50 observed at the proposed WRAP Module 1 site. Larger mammals commonly
51 seen in the vicinity include deer and coyote. Additional information
52 on birds and animals on the Hanford Site can be found in the

1 environmental documents referred to in the answer to Checklist
2 Question A.8.

- 3
4 b. List any threatened or endangered species known to be on or near the
5 site.

6
7 None. However, additional information concerning endangered and
8 threatened species on the Hanford Site can be found in the
9 environmental documents referred to in the answer to Checklist
10 Question A.8.

- 11
12 c. Is the site part of a migration route? If so, explain.

13
14 No.

- 15
16 d. Proposed measures to preserve or enhance wildlife, if any:

17
18 None.

19
20 6. Energy and Natural Resources

- 21
22 a. What kinds of energy (electric, natural gas, oil, wood stove, solar)
23 will be used to meet the completed project's energy needs? Describe
24 whether it will be used for heating, manufacturing, etc.

25
26 Diesel fuel, gasoline, oil, and electrical power will be used to
27 operate construction and operation equipment, to power building
28 ventilation and lighting systems, and to provide process heating.

- 29
30 b. Would your project affect the potential use of solar energy by
31 adjacent properties? If so, generally describe.

32
33 No.

- 34
35 c. What kinds of energy conservation features are included in the plans
36 of this proposal? List other proposed measures to reduce or control
37 energy impacts, if any:

38
39 Energy conservation guidelines outlined in the U.S. Department of
40 Energy Order 6430.1A, "General Design Criteria," will be incorporated
41 in the design. Each area will be subject to the air in-leakage
42 depressurization test. The test will be done in accordance with
43 American Society of Testing Materials E 779-87, "Standard Test Method
44 for Determining Air Leakage Rate by Fan Pressurization". Only the
45 depressurization test will need to be performed, and will demonstrate
46 whether the building envelope meets the design specification for air
47 tightness.

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.

Yes. Review part 2 of this question for further details.

1) Describe special emergency services that might be required.

Hanford Site security, fire response, and ambulance services are on call 24 hours a day, 7 days a week, in the event of an onsite emergency.

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

The building will provide primary and secondary confinement barriers to prevent the release of radioactive and/or mixed waste. Primary confinement will prevent direct physical contact between the radioactive and/or mixed waste and personnel and will be provided by the process enclosures and the ventilation systems. Secondary confinement will prevent release of radioactive and/or mixed waste to the environment and will be provided by the building enclosing the process enclosures and their ventilation system. The building will be designed to withstand design-basis accidents as required by the U.S. Department of Energy Order 6430.1A.

A liquid waste collection system will be provided consisting of a series of tanks used to collect liquid waste from washdown operations or spills in the process enclosures and the floor drains in the process areas. Liquid waste collected in these tanks will be treated as necessary for transfer to the Double-Shell Tank System for storage. All tanks will have appropriate instrumentation to indicate liquid levels and to ensure safe operating levels.

The heating, ventilation, and air conditioning systems will be designed to meet the various operating requirements during the normal mode of operation. In the process area, including the shipping/receiving areas, the purpose of the heating, ventilation, and air conditioning systems will be to confine airborne contamination particulates generated by the waste treatment processes, and also provide for a safe and comfortable working indoor environment within the as low as reasonably achievable (ALARA) guidelines. These areas will be kept at a negative ambient air pressure with respect to the outdoors.

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1 Fire protection systems for the WRAP Module 1 will be designed in
2 accordance with U.S. Department of Energy standards and other
3 applicable codes and standards. The building will be constructed
4 with noncombustible materials. The glovebox enclosures will be
5 constructed of noncombustible materials with glass windows, and
6 will contain inlet and outlet exhaust filters. The enclosures
7 will prevent release of contamination.

8
9 b. Noise

10
11 1) What types of noise exist in the area which may affect your
12 project (for example: traffic, equipment, operation, other)?

13 None.

14
15
16 2) What types and levels of noise would be created by or associated
17 with the project on a short-term or a long-term basis (for
18 example: traffic, construction, operation, other)? Indicate what
19 hours noise would come from the site.

20
21 Excavation, construction, and operation of the WRAP Module 1 will
22 increase noise levels in the immediate vicinity of the site.
23 However, the remote location of the 200 West Area will prevent any
24 detectable increase in noise levels off the Hanford Site. The
25 primary sources of noise will be heavy equipment during the
26 construction phase and exhaust systems during the operational
27 phase.

28
29 3) Proposed measures to reduce or control noise impacts, if any:

30
31 Excavation, construction, and operational equipment will meet
32 manufacturer's requirements for noise suppression.

33
34 8. Land and Shoreline Use

35
36 a. What is the current use of the site and adjacent properties?

37
38 The WRAP Module 1 is a part of the U.S. Government-owned Hanford Site,
39 which is used for the management of waste associated with the
40 production of special nuclear materials.

41
42 b. Has the site been used for agriculture? If so, describe.

43
44 No portion of the Hanford Site, including the site of the WRAP
45 Module 1, has been used for agricultural purposes since 1943.

46
47 c. Describe any structures on the site.

48
49 Paved roads exist at the northern, southern and eastern perimeters of
50 the proposed site. No other structures presently exist on the site.

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

2
3 No.

4
5 e. What is the current zoning classification of the site?

6
7 The Hanford Site is zoned by Benton County as an Unclassified Use (U)
8 district.

9
10 f. What is the current comprehensive plan designation of the site?

11
12 The 1985 Benton County Comprehensive Land Use Plan designates the
13 Hanford Site as the "Hanford Reservation". Under this designation,
14 land on the Hanford Site may be used for "activities nuclear in
15 nature." Nonnuclear activities are authorized "if and when DOE
16 approval for such activities is obtained."
17

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

20
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
26 No.

27
28 i. Approximately how many people would reside or work in the completed
29 project?

30
31 No personnel will reside in the WRAP Module 1. The facility is
32 designed for an occupancy of 60 full-time personnel.
33

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

35
36 None.

37
38 k. Proposed measures to avoid or reduce displacement impacts, if any:

39
40 Does not apply.

41
42 l. Proposed measures to ensure the proposal is compatible with existing
43 and projected land uses and plans, if any:

44
45 Does not apply. (Refer to Checklist Question B.8.f.)
46

47 9. Housing

48
49 a. Approximately how many units would be provided, if any? Indicate
50 whether high-, middle-, or low-income housing.

51
52 None.

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

3
4 None.

5
6 c. Proposed measures to reduce or control housing impacts, if any:

7
8 Does not apply.
9

10 **10. Aesthetics**

11
12 a. What is the tallest height of any proposed structure(s), not
13 including antennas; what is the principal exterior building
14 material(s) proposed?

15
16 The WRAP Module 1 facility has a maximum height of approximately
17 50 feet (15 meters). The building exterior will consist of concrete,
18 steel, and metal.

19
20 b. What views in the immediate vicinity would be altered or obstructed?

21
22 None.

23
24 c. Proposed measures to reduce or control aesthetic impacts, if any:

25
26 None.
27

28 **11. Light and Glare**

29
30 a. What type of light or glare will the proposal produce? What time of
31 day would it mainly occur?

32
33 None.

34
35 b. Could light or glare from the finished project be a safety hazard or
36 interfere with views?

37
38 No.
39

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

42
43 None.
44

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

47
48 Does not apply.
49
50
51
52

1 12. Recreation

2
3 a. What designated and informal recreational opportunities are in the
4 immediate vicinity?

5
6 None.

7
8 b. Would the proposed project displace any existing recreational uses?
9 If so, describe.

10
11 Does not apply.

12
13 c. Proposed measures to reduce or control impacts on recreation,
14 including recreation opportunities to be provided by the project or
15 applicant, if any?

16
17 Does not apply.

18
19 13. Historic and Cultural Preservation

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

24
25 No places or objects listed on, or proposed for, national, state, or
26 local preservation registers are known to be on or next to the WRAP
27 Module 1. Additional information on the Hanford Site environment can
28 be found in the environmental documents referred to in the answer to
29 Checklist Question A.8.

30
31 b. Generally describe any landmarks or evidence of historic,
32 archaeological, scientific, or cultural importance known to be on or
33 next to the site.

34
35 There are no known archaeological, historical, or native American
36 religious sites at or next to the WRAP Module 1. Additional
37 information on the Hanford Site environment can be found in the
38 environmental documents referred to in the answer to Checklist
39 Question A.8.

40
41 NOTE: The DOE-RL recently resubmitted a Request For Determination of
42 Eligibility for the White Bluffs Road with the State Historic
43 Preservation Office. If the road is found eligible, it might be
44 necessary to determine if the WRAP Facility will have an effect on
45 the historic property. Because the proposed site of the WRAP
46 Facility is some distance from the road, it is not likely
47 construction will impact the area to be preserved.

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

2
3 Where appropriate, a cultural resource review will provide the
4 vehicle for necessary approvals required under the *National Historic*
5 *Preservation Act of 1966*.
6

7 **14. Transportation**

- 8
9 a. Identify public streets and highways serving the site, and describe
10 proposed access to the existing street system. Show on site plans,
11 if any.
12

13 Does not apply.
14

- 15 b. Is site currently served by public transit? If not, what is the
16 approximate distance to the nearest transit stop?
17

18 The site is not publicly accessible, and, therefore, is not served by
19 public transportation.
20

- 21 c. How many parking spaces would the completed project have? How many
22 would the project eliminate?
23

24 A paved lot with 60 spaces for WRAP Module 1 personnel will be
25 available, with spaces for automobiles, motorcycles, and handicapped
26 parking.
27

- 28 d. Will the proposal require any new roads or streets, or improvements
29 to existing roads or streets, not including driveways? If so,
30 generally describe (indicate whether public or private).
31

32 Some paved access roads are already in existence at the northern,
33 southern and eastern perimeters of the proposed site. Additional
34 paving will be required for access to individual buildings. The
35 roads will not be publicly accessible.
36

- 37 e. Will the project use (or occur in the immediate vicinity of) water,
38 rail, or air transportation? If so, generally describe.
39

40 No.
41

- 42 f. How many vehicular trips per day would be generated by the completed
43 project? If known, indicate when peak volumes would occur.
44

45 Peak traffic volumes will occur at the beginning and end of regular
46 8-hour working shifts. Many employees, however, will use the Hanford
47 Site shuttle bus system that will transport employees from northern
48 Richland to the site.
49
50
51

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- 1 g. Proposed measures to reduce or control transportation impacts, if
2 any:
3

4 Proper codes, standards, regulations and accepted safety practices
5 will be followed while transporting waste to mitigate human exposure.
6

7 **15. Public Services**
8

- 9 a. Would the project result in an increased need for public services
10 (for example: fire protection, police protection, health care,
11 schools, other)? If so, generally describe.
12

13 No.
14

- 15 b. Proposed measures to reduce or control direct impacts on public
16 services, if any:
17

18 Does not apply.
19

20 **16. Utilities**
21

- 22 a. List utilities currently available at the site (electricity, natural
23 gas, water, refuse service, telephone, sanitary sewer, septic system,
24 other):
25

26 Currently, there is an existing 13.8 kV electrical line and a 12-inch
27 sanitary water line adjacent to the site.
28

- 29 b. Describe the utilities that are proposed for the project, the utility
30 providing the service, and the general construction activities on the
31 site or in the immediate vicinity which might be needed.
32

33 Electricity, sanitary water supplies, a sanitary sewer system, and
34 telephone service will be provided. New electrical feeder lines will
35 be brought from a new electrical substation. New pipelines extending
36 from existing water mains and transfer pipes will provide sanitary
37 water, and necessary steam supplies. The sanitary sewer system will
38 include a septic tank and drain field to discharge sanitary waste to
39 the soil column.
40
41
42
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52

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1 SIGNATURES

2
3 The above answers are true and complete to the best of my knowledge. I
4 understand that the lead agency is relying on them to make its decision.
5
6
7

8
9 Robert S. Holt for
10 E. A. Bracken, Director
11 Environmental Restoration Division
12 U.S. Department of Energy
13 Richland Operations Office
14

6/04/91
Date

15
16
17 R E Lerch
18 R. E. Lerch, Manager
19 Environmental Division
20 Westinghouse Hanford Company
21
22
23

5-24-91
Date

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ADDENDUM

Nuclear and Mixed Waste Management Program
Environmental Checklist Staff Comments

DATE: November 18, 1993

PROJECT: Waste receiving and Processing Facility Module 1

RESPONSIBLE
OFFICIAL: Dru Butler, Manager, Nuclear and Mixed Waste Management Program

STAFF
CONTACT: Geoff Tallent, (206) 407-7112

APPLICANT: U.S. Dept. of Energy and Westinghouse Hanford Co.

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.

- 9413149.0159
- A.6 The date to begin construction has been changed to May 1, 1994.
- A.7 The latest strategy for the WRAP facility is to split it into three modules instead of two.
- A.10 A Notice of Construction Permit will be issued by Ecology for air emissions.
- A.11 The WRAP Unit is no longer proposed as part of the Hanford Central Waste Complex. Both Units will be issued separate Ecology permits. However, WRAP will be constructed adjacent to the Central Waste Complex.
- B.2.a Air emissions of 1.8 tons per year of Volatile Organic Compounds and 6.7 pounds per year of particulate are expected. These emissions will be permitted by Ecology.
- B.3.a.1) Cold Creek is approximately two miles from the proposed site.
- B.7.a.2) ¶2 The liquid Waste Collection System, as described, is no longer part of the proposal. Instead, washdown waste, spills, and run-off in the process areas will be collected in a sump. The wastewater will be sampled and, if necessary, stored in drums pending treatment or disposal in accordance with all applicable state and federal regulations.

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Dru Butler, Ecology	Interested Citizen	Incoming: 9308809

Subject: DETERMINATION OF NONSIGNIFICANCE AND ENVIRONMENTAL CHECKLIST

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