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STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

1315 W. 4th Avenue • Kennewick, Washington 99336-6018 • (509) 735-7581

October 9, 2002

Mr. Allan Conklin
Air Emissions & Defense Waste Section
Division of Radiation Protection
Washington State Department of Health
P.O. Box 47827
Olympia, Washington 93504-7820

RECEIVED
10/05 2002

EDMC

Dear Mr. Conklin:

Re: Pre-Determination Review of State Environmental Policy Act Environmental Checklist for the 222-S Laboratory Complex

On September 30, 2002, Washington State Department of Ecology (Ecology) received a State Environmental Policy Act (SEPA) environmental checklist in support of a United States Department of Energy, Richland Operations application for a Resource Conservation and Recovery Act/Washington Dangerous Waste Permit for the 222-S Laboratory Complex. Ecology is requesting Washington State Department of Health's (DOH) assistance in reviewing the checklist in support of Ecology's threshold determination as to whether an Environmental Impact Statement is required prior to our agency issuing the 222-S Laboratory permit to treat and store dangerous waste. Ecology is considering adding the 222-S Laboratory permit into the Dangerous Waste portion of the *Hanford Facility Resource Conservation and Recovery Act Permit for the Treatment, Storage and Disposal of Dangerous Waste* as part of its next revision.

Ecology must make a threshold determination of the environmental impacts of operating the 222-S Laboratory Complex as a facility that treats and stores dangerous and mixed waste, per Washington Administrative Code 197-11-310(3). To complete all SEPA actions before issuing the permit, Ecology must make its threshold determination promptly; therefore, I am requesting that comments be transmitted to me by October 31, 2002.

Please contact me at (509) 736-3027 if you have any questions concerning this request.

Sincerely,

Melinda J. Brown
Nuclear Waste Program

cc: Roy Evans, DOH
Ken Nifes, OOE
Administrative Record



Mr. Allan Conklin
October 9, 2002

bcc: Rick Bond, Ecology
Tracy Gao, Ecology
Max Power, Ecology
Laura Ruud, Ecology
Ron Skinnarland, Ecology
Joy Turner, Ecology
NWP Reader File
NWP Central File: 222-S Laboratory Complex



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

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SEP 20 2002

Department of Ecology
NWP-Kennewick

02-RCA-0575

SEP 25 2002

COPY FOR YOUR
INFORMATION

Mr. Michael A. Wilson, Program Manager
Nuclear Waste Program
State of Washington
Department of Ecology
1315 W. Fourth Avenue
Kennewick, Washington 99336

Dear Mr. Wilson:

UPDATED STATE ENVIRONMENTAL POLICY ACT (SEPA) ENVIRONMENTAL
CHECKLIST FOR THE 222-S LABORATORY COMPLEX

In reference to the email from Tracy Gao, Ecology, to Lucinda Borneman, Fluor Hanford, Inc., "SEPA Checklist," dated July 11, 2002, enclosed is a copy of the updated 222-S Laboratory Complex SEPA Environmental Checklist. If you have any questions, please contact Paul F. X. Dunigan, Jr., of my staff, on (509) 376-6667.

Sincerely,

A handwritten signature in black ink that reads "Joel Hebdon".

Joel B. Hebdon, Director
Regulatory Compliance and Analysis Division

RCA:PFXD

cc w/encl:

L. E. Borneman, FHI
N. Ceto, EPA
R. H. Engelmann, FHI
T. Gao, Ecology
R. Gay, CTUIR
R. H. Gurske, FHI
M. T. Jansky, FHI
R. Jim, YN
P. Sobotta, NPT
Environmental Portal, LMSI

**STATE ENVIRONMENTAL POLICY ACT
ENVIRONMENTAL CHECKLIST**

FOR

222-S LABORATORY COMPLEX

REVISION 1

AUGUST 2002

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

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1 **A. BACKGROUND**

2 **1. Name of proposed project, if applicable:**

3 The 222-S Laboratory Complex is located in the 200 West Area on the Hanford Site. The 222-S
4 Laboratory Complex provides treatment and storage for dangerous and/or mixed waste, in accordance
5 with Washington Administrative Code (WAC) 173-303 requirements.
6

7 **2. Name of applicants:**

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

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

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

16 **Contact:**

17
18 Keith A. Klein, Manager
19 Richland Operations Office
20 (509) 376-7395
21

22 **4. Date checklist prepared:**

23 August 2002.
24

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

26 Washington State Department of Ecology
27 1315 W. 4th Avenue
28 Kennewick, Washington 99336-6018
29

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

31 The Washington State Department of Ecology (Ecology) reviewed the State Environmental Policy Act
32 (SEPA) Environmental Checklist, *222-S Laboratory Complex* (dated November 1, 1991), and a
33 subsequent supplement (Supplement 1, dated May 1995). Ecology has determined that the
34 aforementioned SEPA Environmental Checklist information provided is outdated, and has requested an
35 updated SEPA Environmental Checklist.
36

37 This revised SEPA Environmental Checklist supports inclusion of the 222-S Laboratory Complex into
38 the Hanford Facility *Resource Conservation and Recovery Act* (RCRA) Dangerous Waste Permit (Permit

*E-mail, Tracy Gao, Ecology, to Lucinda Borneman, Fluor Hanford, July 11, 2002.

1 No. WA7890008967). The Hanford Facility RCRA Permit, Dangerous Waste Portion, includes
2 operating conditions for 222-S Laboratory Complex.

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

6 No.

7
8 **8. List any environmental information you know about that has been prepared, or will be**
9 **prepared, directly related to this proposal.**

10 • A SEPA Environmental Checklist (dated November 1, 1991) was submitted to Ecology concurrently
11 with the Notice of Intent to operate the 222-S Laboratory Complex.

12
13 • A SEPA Environmental Checklist Supplement (Supplement 1, dated May 1995) was submitted to
14 Ecology.

15
16 • The 222-S Laboratory Complex Part A, Form 3, Permit Application (Revision 0) was submitted to
17 Ecology in November 1987. Nine revisions of the Part A, Form 3, Permit Application have been
18 submitted to date.

19
20 • The *Hanford Facility Dangerous Waste Permit Application, General Information Portion*
21 *(DOE/RL-91-28)* contains information pertaining to the entire Hanford Facility.

22
23 • DOE/EA-0383, *Hanford Environmental Compliance Project Environmental Assessment,*
24 *March 1992.* A Finding Of No Significant Impact was issued March 11, 1992.

25
26 • DOE/RL-91-27 (Draft), *Hanford Facility Dangerous Waste Permit Application, 222-S Laboratory*
27 *Complex,* was submitted to Ecology March 8, 2001, for approval, via inclusion into the Hanford
28 Facility RCRA Dangerous Waste Permit, Dangerous Waste Portion.

29
30 General information concerning the onsite environment can be found in the *Hanford Site National*
31 *Environmental Policy Act (NEPA) Characterization* (PNNL-6415, Revision 13, September 2001).
32 Pacific Northwest National Laboratory (PNNL) updates this document annually, and provides current
33 information concerning climate and meteorology, ecology, history and archeology, socioeconomic, land
34 use and noise levels, and geology and hydrology. These baseline data for the Hanford Site and past
35 activities are useful for evaluating proposed activities and potential environmental impacts.

36
37 **9. Do you know whether applications are pending for government approvals of other proposals**
38 **directly affecting the property covered by your proposal? If yes, explain.**

39 Yes; refer to Item 11 text.

40
41 **10. List any government approvals or permits that will be needed for your proposal, if known.**

42 Ecology is the lead regulatory agency authorized to approve the Hanford Facility RCRA Permit,
43 Dangerous Waste Portion, pursuant to the requirements of WAC 173-303.

1 The 222-S Laboratory Complex has permits in place allowing radioactive air emissions (Hanford Site Air
2 Operating Permit, Number 00-05-006).

3
4 No other permits are known to be required at this time.

5
6 **11. Give brief, complete description of your proposal, including the proposed uses and the size of**
7 **the project and site. There are several questions later in this checklist that ask you to describe**
8 **certain aspects of your proposal. You do not need to repeat those answers on this page.**

9 The existing 222-S Laboratory Complex, located in the 200 West Area of the Hanford Site provides for
10 the treatment and storage of dangerous and/or mixed waste generated from within the geographical
11 boundary of the 222-S Laboratory Complex and from the other waste management units on the Hanford
12 Facility or from offsite generators. A more detailed discussion of the 222-S Laboratory Complex
13 boundary, waste types, and known characteristics of the waste are provided in the Hanford Facility
14 Dangerous Waste Permit Application document (Part B) for the 222-S Laboratory Complex¹. Although
15 the treatment and storage of radioactive waste is not within the scope of the aforementioned permit
16 application, the information is provided for general knowledge.

17
18 222-S Laboratory Complex structures (e.g., buildings, storage modules) provide space for waste
19 treatment and storage. A topographic map and site plans for the 222-S Laboratory Complex are included
20 in the Hanford Facility RCRA Permit, Dangerous Waste Portion. Storage structures with physical
21 features that provide for segregated storage areas are operated to maintain appropriate separation
22 between arrays of incompatible waste (incompatibility is defined in WAC 173-303-395).

23
24 As mentioned previously, activities do occur in the 222-S Laboratory Complex that are not associated
25 with the storage, treatment, or disposal of dangerous or mixed waste (i.e., non-RCRA activities). Such
26 activities include the aforementioned treatment and storage of radioactive waste.

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

35 The 222-S Laboratory Complex is located in the southeastern corner on the 200 West Area of the
36 Hanford Site. The 222-S Laboratory Complex is located in Section 1, Township 12N, Range 25E.
37 Approximately 10 hectares have been allocated for the 222-S Laboratory Complex. As stated in
38 Section A.11, a topographic map and site plans for the 222-S Laboratory Complex are included in the
39 Hanford Facility RCRA Permit, Dangerous Waste Portion.

¹ Letter, J. Hebdon, DOE-RL, to M. Wilson, Ecology, "Transmittal of the Hanford Facility Dangerous Waste Part B Permit Application Documentation, 222-S Laboratory Complex, DOE/RL-91-27 (TSD: TS-2-1)," dated March 8, 2001 (DOE/RL-91-27).

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 PNNL-6415, Revision 13. Farming is not permitted
17 on the Hanford Site.

- 18
19 **d. Are there surface indications or history of unstable soils in the**
20 **immediate vicinity? If so, describe.**

21 No.

- 22
23 **e. Describe the purpose, type, and approximate quantities of any**
24 **filling or grading proposed. Indicate source of fill.**

25 No excavation presently is planned; excavation would be required
26 for any future construction. Excavated material would be stockpiled
27 for use as backfill. This material also would be used, as required,
28 for finish grading to blend with the existing flat topography and to
29 provide drainage away from all buildings.

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

33 No.

- 34
35 **g. About what percent of the site will be covered with impervious**
36 **surfaces after project construction (for example, asphalt or**
37 **buildings)?**

38 Approximately 80 percent of the site is covered with impervious
39 surfaces. These surfaces include waste management areas
40 (structures and pads), support structures (offices and administrative
41 buildings), parking areas, and roadways.

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

3 Paved access roadways and graveled parking areas are provided to
4 minimize erosion and dust due to vehicular traffic. Native
5 vegetation replanting and other soil stabilization activities are
6 conducted to mitigate the effects of the 2000 Hanford Site fire.
7

8 **2. Air**

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

13 Routine excavation and maintenance activities generate dust. Minor
14 amounts of exhaust are generated by vehicles used by personnel
15 during 222-S Laboratory Complex operations.
16

17 An airborne release could occur as a result of upset conditions
18 internally or externally. Such a release would not exceed
19 immediately dangerous to life and health concentrations outside the
20 immediate area of the spill/release because of the small quantity of
21 material that is available for release.
22

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

25 No.
26

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

29 Good engineering practices are followed, and actions comply with
30 onsite procedures designed to protect the environment and personnel
31 safety and health, and comply with permits allowing radioactive and
32 toxic air emissions.
33

34 **3. Water**

35 **a. Surface**

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

41 No. The 222-S Laboratory Complex is over 7 kilometers from the
42 Columbia River.
43

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

4 No.

5
6 3) Estimate the amount of fill and dredge material that would
7 be placed in or removed from surface water or wetlands and
8 indicate the area of the site that would be affected. Indicate
9 the source of fill material.

10 None.

11
12 4) Will the proposal require surface water withdrawals or
13 diversions? Give general description, purpose, and
14 approximate quantities if known.

15 The water supply for the 200 West Area is pumped from the
16 Columbia River. The 222-S Laboratory Complex activities use
17 relatively little of this overall withdrawal. The estimated
18 amounts are small compared to normal daily water use in the
19 200 West Area.

20
21 5) Does the proposal lie within a 100-year floodplain? If so,
22 note location on the site plan.

23 The 222-S Laboratory Complex is not within the 100-year or
24 500-year floodplain (PNNL-6415, Revision 13).

25
26 6) Does the proposal involve any discharges of waste materials
27 to surface waters? If so, describe the type of waste and
28 anticipated volume of discharge.

29 No.

30
31 b. Ground

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

35 No.

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

8 Sanitary waste from the 222-S Laboratory Complex is routed to
9 an existing sanitary septic system. The existing system has a
10 maximum capacity of approximately 60,000 liters per day. The
11 sanitary sewer system is designed to receive flows based on
12 occupant loads from three work shifts operating 24 hours per
13 day, 7 days per week. The flows are estimated to average
14 0.18 liter per second.

15 Laboratory waste water, primarily from heating and cooling
16 systems, is transferred to the existing Hanford Site's Treated
17 Effluent Disposal Facility in the 200 East Area.

18
19
20 **c. Water Run-off (including storm water)**

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

25 The Hanford Site receives only 15.2 to 17.8 centimeters of
26 annual precipitation. Precipitation runs off the existing
27 buildings and seeps into the soil near the buildings. Storm water
28 from parking areas, paved roads and the waste storage pad
29 drains into an engineered storm drain system that diverts the
30 storm water to subsurface gravel pits. This precipitation, within
31 the 222-S Laboratory Complex, is not expected to reach the
32 groundwater or surface waters.

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

36 No. All waste materials are contained.

37
38 **d. Proposed measures to reduce or control surface, ground, and**
39 **run-off water impacts, if any:**

40 No surface, ground, or run-off water impacts are expected. The site
41 is graded to provide for surface run-off and to direct storm water to
42 storm drains and/or depressions. Work areas, roadways, and parking
43 lots are crowned or sloped to drain to storm drains and percolate into
44 the ground.

1 4. Plants

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

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

13
14 The most common vegetation community in the 200 West Area is
15 sagebrush/cheatgrass or Sandberg's bluegrass.

16
17 b. What kind and amount of vegetation will be removed or
18 altered?

19 Currently, there are no plans to remove or alter vegetation; however,
20 future excavations would have minimal impacts on vegetation.
21 There is no native vegetation within the 222-S Complex (as
22 identified in Section A.11 of this Environmental Checklist). Repair
23 and/or replacement of ancillary support structures (e.g., sanitary
24 sewer, water and power distribution lines) may affect areas of
25 mature sage-steppe habitat. Mitigation via habitat replacement
26 would be conducted consistent with the *Hanford Site Biological*
27 *Resources Management Plan* (DOE/RL-96-32) and the *Hanford Site*
28 *Biological Resources Mitigation Strategy* (DOE/RL-96-88). A
29 minimum mitigation ratio of 1:1 via rectification or compensation
30 would be expected.

31
32 c. List threatened or endangered species known to be on or near
33 the site.

34 The Hanford Site contains some federal and state listed threatened
35 and endangered plant and animal species. No species are known to
36 reside at the 222-S Laboratory Complex. Additional information on
37 species can be found in PNNL-6415, Revision 13.

38
39 d. Proposed landscaping, use of native plants, or other measures to
40 preserve or enhance vegetation on the site, if any:

41 Measures to preserve or enhance vegetation on the site are consistent
42 with the aforementioned mitigation activities (Section B.4.b; and
43 DOE/RL-96-32 and DOE/RL-96-88).
44

1 5. Animals

- 2 a. Indicate (by underlining) any birds and animals which have
3 been observed on or near the site or are known to be on or near
4 the site:

5 birds: Raptors (burrowing owls, ferruginous, redtail, and Swainson's
6 hawks), eagles, songbirds,
7 mammals: deer, elk, coyotes, rabbits, rodents.

8
9 Additional information on animals can be found in PNNL-6415,
10 Revision 13.

- 11
12 b. List any threatened or endangered species known to be on or
13 near the site.

14 There are no threatened or endangered species at the 222-S
15 Laboratory Complex. One federal and state listed threatened or
16 endangered specie has been identified on the 1,517 square kilometer
17 Hanford Site along the Columbia River: the bald eagle. In addition,
18 the state listed white pelican, sandhill crane, and ferruginous hawk
19 also occur on or migrate through the Hanford Site.

- 20
21 c. Is the site part of a migration route? If so, explain.

22 The Hanford Site is a part of the broad Pacific Flyway.

- 23
24 d. Proposed measures to preserve or enhance wildlife, if any:

25 No specific measures to preserve or enhance wildlife are associated
26 with 222-S Laboratory Complex operations.

27
28 6. Energy and Natural Resources

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

32 Electricity is used at 222-S Laboratory Complex for heating,
33 ventilation, cooling, operation of equipment and instrumentation,
34 and lighting of support and waste management structures and for
35 perimeter lighting. Steam heating is provided by a diesel-fueled
36 packaged boiler (adjacent to the 222-S Laboratory Complex). Diesel
37 fuel and gasoline also are used for transport vehicles, and a standby
38 exhaust fan is powered by a diesel engine.

- 39
40 b. Would your project affect the potential use of solar energy by
41 adjacent properties? If so, generally describe.

42 No.

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

4 Energy consumption is small, and energy conservation features are
5 not readily applicable to 222-S Laboratory Complex.
6

7 **7. Environmental Health**

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

12 Possible environmental health hazards to personnel could arise from
13 activities at 222-S Laboratory Complex under upset conditions. The
14 hazard could come from exposure to dangerous and/or mixed waste,
15 and chemicals used as part of laboratory operations. Stringent
16 administrative controls and engineered barriers are used to minimize
17 the probability of even a minor incident and/or accident. A chemical
18 spill, release, fire, or explosion could occur only as a result of a
19 simultaneous breakdown in multiple barriers or a catastrophic
20 natural forces event.
21

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

23 Hanford Site security, fire response, and ambulance services are
24 on call at all times in the event of an onsite emergency. Hanford
25 Site emergency services personnel are trained specially to
26 manage a variety of circumstances involving chemical and/or
27 mixed waste constituents and situations.
28

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

31 All personnel are trained to follow proper procedures to
32 minimize potential exposure. The 222-S Laboratory Complex
33 has systems for radiation monitoring, fire protection and alarm.
34

35 Chemical and radiological safety hazards are mitigated by
36 avoiding direct contact with the residual chemicals or samples,
37 training as appropriate, and using protective clothing and
38 respiratory protection by onsite personnel, as necessary. As low
39 as reasonably achievable (ALARA) principles are applied at the
40 222-S Laboratory Complex.
41

1 **b. Noise**

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

4 While there is a minor amount of traffic, operation, and
5 equipment noise in the vicinity, there is minimal effect to
6 personnel at 222-S Laboratory Complex.

7
8 **2) What types and levels of noise would be created by or**
9 **associated with the project on a short-term or a long-term**
10 **basis (for example: traffic, construction, operation, other)?**
11 **Indicate what hours noise would come from the site.**

12 Relatively low level of noise from traffic and equipment are
13 generated during day shift hours for operations.

14
15 **3) Proposed measures to reduce or control noise impacts, if**
16 **any:**

17 In the unlikely event that Occupational Safety and Health
18 Administration noise standards would be exceeded, appropriate
19 personnel protective equipment would be required.

20
21 **8. Land and Shoreline Use**

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

23
24 The 222-S Laboratory Complex provides treatment and storage for
25 dangerous and/or mixed waste.

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

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

2 No portion of the 200 West Area has been used for agricultural
3 purposes since 1943.
4

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

6 Existing structures at 222-S Laboratory Complex are described in
7 Hanford Facility Dangerous Waste Permit Application,
8 222-S Laboratory Complex (DOE/RL-91-27),
9

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

11 No structures will be demolished until closure of 222-S Laboratory
12 Complex.
13

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

15 The Hanford Site currently is included in Public Lands designation
16 in the Benton County Comprehensive Plan (June 22, 1998) (internet
17 address: <http://206.61.210.104/pl/compplan/forward.htm>). The Plan
18 is being revised, and will address the Hanford Site as a separate
19 geographic component, or "Sub-Area" with its own Land Use Plan
20 (under development as Chapter 13 in the aforementioned Benton
21 County Comprehensive Plan).
22

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

24 *The Hanford Comprehensive Land-Use Plan Environmental Impact*
25 *Statement Record of Decision* (64 FR 61615, November 12, 1999)
26 stated that the Central Plateau (200 Areas) geographic area is
27 designated Industrial-Exclusive.
28

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

31 Does not apply.
32

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

35 No.
36

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

39 The 222-S Laboratory Complex workforce is approximately
40 150 personnel during full operation.
41

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

3 None.

4

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

7 Does not apply.

8

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

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

12

13 **9. Housing**

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

16 None.

17

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

20 None.

21

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

23 Does not apply.

24

25 **10. Aesthetics**

26 a. **What is the tallest height of any proposed structure(s), not**
27 **including antennas; what is the principal exterior building**
28 **material(s) proposed?**

29 The 202-S Building is approximately 23 meters above grade; typical
30 structures at 222-S Laboratory Complex are constructed of metal and
31 concrete.

32

33 b. **What views in the immediate vicinity would be altered or**
34 **obstructed?**

35 None.

36

37 c. **Proposed measures to reduce or control aesthetic impacts, if**
38 **any:**

39 None.

40

1 **11. Light and Glare**

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

4 Nighttime lighting provides a continuous operations environment
5 and meets necessary security requirements.
6

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

9 No.

10
11 c. **What existing off-site sources of light or glare may affect your**
12 **proposal?**

13 None.

14
15 d. **Proposed measures to reduce or control light and glare impacts,**
16 **if any:**

17 None.
18

19 **12. Recreation**

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

22 None.
23

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

26 No.
27

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

31 None.
32

33 **13. Historic and Cultural Preservation**

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

37 The 222-S Laboratory Building has been determined to be eligible
38 for the National Register of Historic Places as a contributing
39 property in the Manhattan Project/Cold War Historic District.

1 Additional information concerning Hanford Site cultural resources
2 can be found in PNNL-6415, Revision 13.
3

- 4 **b. Generally describe any landmarks or evidence of historic,
5 archaeological, scientific, or cultural importance known to be on
6 or next to the site.**

7 None.
8

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

10 None. The 222-S Laboratory Complex will not be changed
11 substantially. Existing and historic conditions have been recorded.
12

13 **14. Transportation**

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

17 Does not apply.
18

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

21 The 222-S Laboratory Complex is not accessible to the public and is
22 not served by public transit.
23

- 24 **c. How many parking spaces would the completed project have?
25 How many would the project eliminate?**

26 Parking is provided with space for approximately 100 automobiles,
27 motorcycles, and handicapped parking.
28

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

33 No.
34

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

37 No.
38

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

4 Less than 500 vehicular trips per day are generated by operational
5 activities. Peak volumes occur during daylight hours Monday
6 through Friday.

7
8 g. Proposed measures to reduce or control transportation impacts,
9 if any:

10 None.

11
12 **15. Public Services**

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

16 No.

17
18 b. Proposed measures to reduce or control direct impacts on public
19 services, if any:

20 Does not apply.

21
22 **16. Utilities**

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

26 Electricity, potable water, refuse service, telephone, and a sanitary
27 sewer system are available at the 222-S Laboratory Complex.

28
29 Power and telephone lines are extended from aerial lines through
30 underground concrete-encased conduits to a centrally located
31 distribution point. Electrical power is supplied to 222-S Laboratory
32 Complex (by an aerial 13.3-kilovolt power line) for all lighting, fire
33 sprinkler equipment, and convenience receptacles. Steam heating is
34 provided by a diesel-fueled packaged boiler.

35
36 Potable water and fire protection water for 222-S Laboratory
37 Complex are provided via tie-in to existing 200 West Area systems.

38
39
40 b. Describe the utilities that are proposed for the project, the utility
41 providing the service, and the general construction activities on
42 the site or in the immediate vicinity which might be needed.

43 None.

1
2 **SIGNATURES**
3

4 The above answers are true and complete to the best of my knowledge. I understand that the lead agency
5 is relying on them to make its decision.
6
7
8

9
10 Paul F. X. Dunigan, Jr.

9/25/02
Date

11 Paul F. X. Dunigan, Jr.
12 NEPA Compliance Officer
13 U.S. Department of Energy
14 Richland Operations Office
15

16
17 Richard H. Gurske

26 Sept 02
Date

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20 Richard H. Gurske, Director
21 Environment and Regulation
22 Fluor Hanford, Inc.
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