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Department of Energy

Richland Operations Office
P.O. Box 550
Richland, Washington 99352

MAR 31 1994

94-RPS-180

Mr. Joseph S. Stohr
State of Washington
Department of Ecology
P.O. Box 47600
Olympia, Washington 98504-7600

Dear Mr. Stohr:

RESUBMITTAL OF THE STATE ENVIRONMENTAL POLICY ACT ENVIRONMENTAL CHECKLIST FOR VENTILATION UPGRADES, 241-AY AND 241-AZ TANK FARMS

Enclosed please find the revised State Environmental Policy Act (SEPA) Environmental Checklist for Ventilation Upgrades, 241-AY and 241-AZ Tank Farms. The SEPA Environmental Checklist was previously submitted to your office on March 2, 1994, however the certification statement was inadvertently unsigned. A minor page numbering change has also been made.

Should you have any questions, please contact me or Mr. S. D. Stites of my staff on (509) 376-8566.

Sincerely,

James D. Bauer
James D. Bauer, Program Manager
Office of Environmental Assurance,
Permits, and Policy

EAP:SDS

Enclosure

cc w/encl:
Administrative Records
J. Kalia, WHC
J. Luke, WHC

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Enclosure
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**STATE ENVIRONMENTAL POLICY ACT
ENVIRONMENTAL CHECKLIST**

FOR

**VENTILATION UPGRADES,
241-AY AND 241-AZ TANK FARMS**

REVISION 0

February 7, 1994

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

1 A. BACKGROUND
2
3

4 1. Name of proposed project, if applicable:

5 The name of this proposed project is Ventilation Upgrades, 241-AY and
6 241-AZ Tank Farms that would occur on the Hanford Site, Richland,
7 Washington. This *State Environmental Policy Act (SEPA) of 1971*
8 Environmental Checklist is being submitted concurrently with the
9 Ventilation Upgrades, 241-AY and 241-AZ Tank Farms Notice of Construction
10 (NOC).
11

12 2. Name of applicants:

13 U.S. Department of Energy, Richland Operations Office
14

15 3. Address and phone number of applicants and contact persons:
16

17 U.S. Department of Energy
18 Richland Operations Office
19 P.O. Box 550
20 Richland, Washington 99352
21
22

23 Contact:
24

25 J. D. Bauer, Program Manager
26 Office of Environmental Assurance,
27 Permits, and Policy
28 (509) 376-5441
29
30

31 4. Date checklist prepared:

32 February 1994
33
34

35 5. Agency requesting the checklist:

36 State of Washington
37 Department of Ecology
38 P.O. Box 47600
39 Olympia, Washington 98504-7600
40

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1 6. Proposed timing or schedule: (including phasing, if applicable):
2

3 This SEPA Environmental Checklist is being submitted concurrently with
4 the Ventilation Upgrades, 241-AY and 241-AZ Tank Farms NOC. The NOC is
5 submitted in accordance with the State of Washington Department of
6 Ecology (Ecology) *Controls for New Sources of Toxic Air Pollutants*,
7 Washington Administrative Code (WAC) 173-460, which requires submittal of
8 an NOC, and approval by Ecology prior to the state of construction of a
9 new toxic air pollution source.

10
11 7. Do you have any plans for future additions, expansion, or further
12 activity related to or connected with this proposal? If yes, explain.
13

14 Yes. This proposed demonstration of the capability of mixer pumps to
15 mobilize sludge at the bottom of the double-shell tank (DST) will
16 eventually allow the tank contents to be retrieved for treatment and
17 disposal. The ventilation portion of this proposed action is not
18 connected to any other action.
19

20 8. List any environmental information you know about that has been prepared,
21 or will be prepared, directly related to this proposal.
22

23 This SEPA Environmental Checklist is being submitted to Ecology
24 concurrently with the NOC for the Ventilation Upgrades, 241-AY and 241-AZ
25 Tank Farms. The original project number for this proposed action was
26 identified as Project W-E14, and has since been refined and updated by
27 subdividing into Projects W-151 (241-AZ-101 Process Test) and W-030
28 (Ventilation Upgrades to 241-AY and 241-AZ Tank Farms). In May of 1989,
29 a Memorandum-To-File (MTF) was received by Westinghouse Hanford Company
30 (WHC) from the U. S. Department of Energy, Richland Operations Office
31 (RL) for the "Tank Farm Ventilation Upgrade" portion of Project W-E14.
32 In August 1990, a MTF was received by Westinghouse Hanford Company (WHC)
33 from RL for the "241-AZ-101 Retrieval System Process Test" portion of
34 Project W-E14. In these MTFs, DOE-RL stated that no additional National
35 Environmental Policy Act (NEPA) documentation is required for these two
36 projects under Project W-E14 since the proposed action is within the
37 scope of the existing DOE EIS-0113, "Disposal of Hanford Defense High-
38 Level, Transuranic, and Tank Wastes," issued in 1987.
39

40 General information concerning the Hanford Facility environment can be
41 found in the *Hanford Site National Environmental Policy Act (NEPA)*
42 *Characterization*, PNL-6415, Revision 5, December 1992. This document is
43 updated annually by Pacific Northwest Laboratory (PNL), and provides
44 current information concerning climate and meteorology; ecology; history
45 and archeology; socioeconomics; land use and noise levels; and geology
46 and hydrology. These baseline data for the Hanford Site and its past
47 activities are useful for evaluating proposed activities and their
48 potential environmental impacts.
49

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

4
5 No applications to government agencies are known to be pending for this
6 proposed action.

7
8 10. List any government approvals or permits that will be needed for your
9 proposal, if known.

10 Approvals or permits that may be required at this time would include
11 those pursuant to the following regulations:

- 12 • Radioactive Air Emissions Program, administered by the State of
13 Washington Department of Health (DOH) according to WAC 246-247.
- 14 • National Emission Standards for Hazardous Air Pollutants, administered
15 by the U.S. Environmental Protection Agency (EPA) according to 40 Code
16 of Federal Regulations 61, Subpart H.

17
18 11. Give brief, complete description of your proposal, including the proposed
19 uses and the size of the project and site. There are several questions
20 later in this checklist that ask you to describe certain aspects of your
21 proposal. You do not need to repeat those answers on this page.

22 Tank Farms 241-AY and 241-AZ are located at adjacent sites in the
23 200 East Area of the Hanford Site. Each tank farm contain two DSTs and a
24 single system ventilates all four tanks with a common stack. Two
25 projects that have the potential to increase air emissions from these
26 farms are currently underway. Project W-151, 101-AZ Retrieval System,
27 will add two 300 horsepower mixer pumps to tank 241-AZ-101, to
28 demonstrate retrieval methods. Project W-030, Tank Farm Ventilation
29 Upgrade, will modify the existing ventilation system currently in use in
30 these tank farms. The modifications proposed under Project W-030 will
31 NOT result in an increase in air emission, and the project would be
32 proceeding even if Project W-151 would not be proposed. However, because
33 of the increased ventilation requirements due to Project W-151, Project
34 W-030 is being designed to meet any additional requirements. Due to the
35 additional heat load of the mixer pumps, and the agitation of the waste
36 by the pumps, emissions from the tank will potentially increase due to
37 Project W-151, although the potential impact to the public will decrease
38 when these proposed activities are complete. Although Project W-030,
39 individually, may not require approval prior to the start of
40 construction, both projects are included in this application, in an
41 effort to avoid the appearance that the Hanford Site is proceeding with
42 activities without all of the necessary approvals.

43
44 The ventilation system will contain a recirculation loop of 500 standard
45 cubic feet per minute (scfm) from each of the four tanks that will feed
46 into individual condenser and moisture separators. When the mixer pumps
47
48
49
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1 in Tank 241-AZ-101 are not operated, approximately 100 scfm will be split
2 from each of the four tank loops after treatment and combined together
3 for discharge to the atmosphere. The remaining 400 scfm for each tank
4 loop will be recirculated back into their respective tanks. When the
5 mixer pumps are operated, approximately 500 scfm will be drawn from
6 241-AZ-101, and 100 scfm from the other three tanks, for discharge to the
7 atmosphere. The remaining flow will be recirculated to the tanks. The
8 ventilation system will be operated 24 hours a day, 365 days a year.
9

- 10 12. Location of the proposal. Give sufficient information for a person to
11 understand the precise location of your proposed project, including a
12 street address, if any, and section, township, and range, if known. If a
13 proposal would occur over a range of area, provide the range or
14 boundaries of the site(s). Provide a legal description, site plan,
15 vicinity map, and topographic map, if reasonably available. While you
16 should submit any plans required by the agency, you are not required to
17 duplicate maps or detailed plans submitted with any permit applications
18 related to this checklist.
19

20 The proposed Ventilation Upgrades, 241-AY and 241-AZ Tank Farms would be
21 located in the 241-AY and 241-AZ Tank Farms in the 200 East Area on the
22 Hanford Site, approximately 30 miles (48 kilometers) northwest of the
23 City of Richland, Washington. The section, township, and range for the
24 area are as follows: Section 4, Township 12N, Range 27E.

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EVALUATION FOR

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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)?

The approximate slope of the land at the proposed Ventilation Upgrades, 241-AY and 241-AZ Tank Farms is less than two percent.

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

The soil types in the 200 East Area and around the proposed Ventilation Upgrades, 241-AY and 241-AZ Tank Farms consist mainly of eolian and fluvial sands, gravel, and crushed gravel. More detailed information concerning specific 200 East Area soil classifications can be found in the *Hanford Site National Environmental Policy Act (NEPA) Characterization*, PNL-6415, Revision 5, December 1992. Farming is not 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.

All filling or grading that may be required would be for ventilation modifications, and would take place within the existing 241-AY and 241-AZ Tank Farms.

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1 f. Could erosion occur as a result of clearing, construction,
2 or use? If so, generally describe.
3

4 Very minor erosion might occur temporarily during
5 ventilation modifications, however, good engineering
6 practices would take place to control any excess erosion.
7

8 g. About what percent of the site will be covered with
9 impervious surfaces after project construction (for
10 example, asphalt or buildings)?
11

12 None in addition to existing surfaces.
13

14 h. Proposed measures to reduce or control erosion, or other
15 impacts to the earth, if any:
16

17 The finished grade and the areas disturbed during upgrade
18 activities would be stabilized on completion of this
19 effort, while dust would be controlled by water sprinkling
20 equipment.
21

22 2. Air
23

24 a. What types of emissions to the air would result from the
25 proposal (i.e., dust, automobile, odors, industrial wood
26 smoke) during construction and when the project is
27 completed? If any, generally describe and give approximate
28 quantities, if known.
29

30 Minor amounts of exhaust and dust would be generated by
31 vehicles and construction personnel during the modification
32 phase of this project. On completion of the Ventilation
33 Upgrades, 241-AY and 241-AZ Tank Farms, vehicular traffic
34 would cease supporting this action.
35

36 Emissions from operation of the Ventilation Upgrades,
37 241-AY and 241-AZ Tank Farms, are expected to be similar in
38 magnitude and type as current emissions from the tank
39 farms. Of major concern are emissions of radionuclides and
40 toxic air pollutants. Radionuclide emissions, regulated
41 under 40 CFR 61 Subpart H, WAC 173-480, and WAC 246-247,
42 would be well below the standard of 10 millirem per year
43 listed in the regulations. Emissions from the Hanford Site
44 in calendar year 1991, were calculated to result in an
45 offsite dose of 0.007 millirem, and the Ventilation
46 Upgrades, 241-AY and 241-AZ Tank Farms, is not expected to
47 increase this value. Emissions of toxic air pollutants,

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1 regulated under WAC 173-460, are not expected to exceed
2 acceptable source impact levels. Criteria pollutants also
3 might be emitted, but the quantity is not expected to be
4 significant.
5

6 An airborne release could occur as a result of upset
7 conditions internally or externally to the tanks. Such a
8 release would not exceed immediately dangerous to life and
9 health concentrations outside the immediate area of the
10 potential spill or release.

11
12 **b. Are there any off-site sources of emissions or odors that**
13 **may affect your proposal? If so, generally describe.**
14

15 No.

16
17 **c. Proposed measures to reduce or control emissions or other**
18 **impacts to the air, if any?**
19

20 The portion of the stream that is to be discharged to the
21 atmosphere would flow through an emissions control system
22 consisting of a condenser, high efficiency mist eliminator
23 (HEME), heater, and two high efficiency particulate air
24 (HEPA) filters with a high efficiency gas adsorption unit
25 between the HEPAs.
26

27 Particulate emissions would be controlled with prefilters
28 and HEPA filters, which are being installed primarily to
29 control radionuclide pollutants. The HEPA filters are
30 rated to remove 99.95 percent of the particles that are
31 0.3 micro-meters (μm) and larger. A high efficiency gas
32 adsorption unit will also be used, therefore, particulate
33 emissions should not be of concern from this activity.
34

35 The stack would be equipped with sampling equipment
36 designed and operated in accordance with 40 CFR 61,
37 Subpart H, and all referenced requirements. Among other
38 design criteria, sample probes would be designed to obtain
39 representative samples, the location would be selected in
40 accordance with referenced standards, and sample line
41 length and bends would be minimized. The sampler for
42 particulates, iodine, and tritium would operate
43 continuously and would be calibrated and audited in
44 accordance with procedures currently used in tank farms.
45 Additionally, for operational purposes, the stack would
46 contain a monitor for beta and gamma radiation.
47

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1 3. Water

2
3 a. Surface

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

10 None.

- 11
12
13 2) Will the project require any work over, in, or adjacent
14 to (within 200 feet) the described waters? If yes,
15 please describe and attach available plans.

16 No.

- 17
18
19 3) Estimate the amount of fill and dredge material that
20 would be placed in or removed from surface water or
21 wetlands and indicate the area of the site that would
22 be affected. Indicate the source of fill material.

23 None.

- 24
25
26 4) Will the proposal require surface water withdrawals or
27 diversions? Give general description, purpose, and
28 approximate quantities if known.

29 No.

- 30
31
32 5) Does the proposal lie within a 100-year floodplain? If
33 so, note location on the site plan.

34
35 The proposed Ventilation Upgrades, 241-AY and 241-AZ
36 Tank Farms, is not within the 100- or 500-year
37 floodplains as described in the *Hanford Site National*
38 *Environmental Policy Act (NEPA) Characterization,*
39 *PNL-6415, Revision 5, December 1992).*

- 40
41 6) Does the proposal involve any discharges of waste
42 materials to surface waters? If so, describe the type
43 of waste and anticipated volume of discharge.

44 No.

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46

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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 groundwater would be withdrawn in support of this project, and water would not be discharged to the aquifer. In the vicinity of the proposed Ventilation Upgrades, 241-AY and 241-AZ Tank Farms, the depth to groundwater is over 240 feet (73 meters).

- 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 Facility receives only six to seven inches (15.2 to 17.8 centimeters) of annual precipitation. Precipitation collection from the small instrumentation buildings in 241-AY and 241-AZ Tank Farms would be controlled by channeling water flow run-off in accordance with existing Hanford Site procedures, as described in the Stormwater Pollution Prevention Plan. This precipitation does not reach the groundwater or surface waters. Precipitation would not come in contact with any of the liquid mixed waste contained by the proposed Ventilation Upgrades, 241-AY and 241-AZ Tank Farms.

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

3
4 Yes, if in the remote possibility that the liquid waste
5 stored in the tanks were to escape from both primary
6 and secondary containment equipment. Operation of
7 these sites would be monitored, and procedures would be
8 in place to prevent or respond to releases to the
9 ground or surface waters. Water run-off would not
10 reach groundwater or surface waters due to sound
11 engineering practices.

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

15
16 The disposal of surface drainage from storm water and
17 snow melt is through natural percolation. Finished
18 grading of the site would provide both run-on and run-
19 off control for the Ventilation Upgrades, 241-AY and
20 241-AZ Tank Farms, to prevent possible flooding. All
21 ventilation systems and associated piping would have
22 double containment to preclude any contact with water
23 run-off.

24
25 4. Plants

26
27 a. Check or circle the types of vegetation found on the site.

- 28
29 ___ deciduous tree: alder, maple, aspen, other
30 ___ evergreen tree: fir, cedar, pine, other
31 ___ shrubs
32 ___ grass
33 ___ pasture
34 ___ crop or grain
35 ___ wet soil plants: cattail, buttercup, bulrush, skunk
36 cabbage, other
37 ___ water plants: water lily, eelgrass, milfoil, other
38 ___ other types of vegetation

39
40
41 b. What kind and amount of vegetation will be removed or
42 altered?

43
44 There is no vegetation found in 241-AY and 241-AZ Tank
45 Farms as these sites are previously disturbed and are
46 presently being operated.
47

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- 1 c. List threatened or endangered species known to be on or
2 near the site.
3

4 The 241-AY and 241-AZ Tank Farms have been previously
5 disturbed and do not contain vegetation. No listed
6 threatened or endangered species are known to exist on or
7 near the 241-AY and 241-AZ Tank Farms. An updated
8 biological survey in the general vicinity of the proposed
9 project would be conducted before construction.
10

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

15 None.
16

17 5. Animals
18

- 19 a. Indicate (by underlining) any birds and animals which have
20 been observed on or near the site or are known to be on or
21 near the site:
22

23 birds: hawk, heron, eagle, songbirds,
24 other:.....

25 mammals: deer, bear, elk, beaver,
26 other:.....

27 fish: bass, salmon, trout, herring, shellfish,
28 other:.....
29

30 Raptors (burrowing owls, ferruginous, redtail, and
31 Swainson's hawks) are seen occasionally in the 200 East
32 Area. Small passerines (sparrows, starlings, finches) also
33 may be present in the general vicinity of the 241-AY and
34 241-AZ Tank Farms. Mule deer, rabbits, badgers, and
35 coyotes occasionally are seen in the general area.
36

- 37 b. List any threatened or endangered species known to be on or
38 near the site.
39

40 Two federal and state listed threatened or endangered
41 species have been identified on the 560 square mile
42 (1,450 square kilometer) Hanford Site along the Columbia
43 River; the bald eagle and peregrine falcon. In addition,
44 the state listed white pelican, sandhill crane, and
45 ferruginous hawk also occur on or migrate through the
46 Hanford Site. However, since this proposed action does not
47 disturb any natural habitat, none of these species will be

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1 impacted by the proposed Ventilation Upgrades, 241-AY and
2 241-AZ Tank Farms.

3
4 c. Is the site part of a migration route? If so, explain.

5
6 The Hanford Site is a part of the broad Pacific Flyway.

7
8 d. Proposed measures to preserve or enhance wildlife, if any:

9
10 This project contains no specific measures to preserve or
11 enhance wildlife.

12
13 **6. Energy and Natural Resources**

14
15 a. What kinds of energy (electric, natural gas, oil, wood
16 stove, solar) will be used to meet the completed project's
17 energy needs? Describe whether it will be used for
18 heating, manufacturing, etc.

19
20 Electricity and steam would be used for power, heating, and
21 ventilation at the proposed Ventilation Upgrades, 241-AY
22 and 241-AZ Tank Farms.

23
24 b. Would your project affect the potential use of solar energy
25 by adjacent properties? If so, generally describe.

26
27 No.

28
29 c. What kinds of energy conservation features are included in
30 the plans of this proposal? List other proposed measures
31 to reduce or control energy impacts, if any:

32
33 None.

34
35 **7. Environmental Health**

36
37 a. Are there any environmental health hazards, including
38 exposure to toxic chemicals, risk of fire and explosion,
39 spill, or hazardous waste, that could occur as a result of
40 this proposal? If so, describe.

41
42 Possible environmental health hazards to workers could
43 arise from the mixer pumps demonstration or installation of
44 the ventilation system for the proposed Ventilation
45 Upgrades, 241-AY and 241-AZ Tank Farms. The hazard could
46 come from exposure to radioactive, dangerous, and/or mixed
47 waste. A chemical spill, release, fire, or explosion could

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1 occur only as a result of a simultaneous breakdown in
2 multiple barriers or a catastrophic natural forces event.

- 3
4 1) Describe special emergency services that might be
5 required.

6
7 Hanford Site security, fire response, and ambulance
8 services are on call at all times in the event of an
9 onsite emergency. Hanford Site emergency services
10 personnel are specially trained to manage a variety of
11 circumstances involving chemical and/or radioactive
12 constituents and situations.

- 13
14 2) Proposed measures to reduce or control environmental
15 health hazards, if any:

16
17 Stringent administrative controls and engineered
18 barriers would be employed to minimize the probability
19 of even a minor incident and/or accident. All
20 personnel would be trained to follow proper procedures
21 during the mixer pumps demonstration and ventilation
22 upgrades to minimize potential exposure. The
23 Ventilation Upgrades, 241-AY and 241-AZ Tank Farms
24 would have systems for ventilation, radiation
25 monitoring, fire protection, and alarm capability. The
26 ventilation system would maintain a negative air
27 pressure on the 241-AY and 241-AZ tanks.

28
29 Chemical and radiological safety hazards would be
30 mitigated by preventing direct contact with the
31 residual chemical constituents; HEPA filtration of all
32 off-gas streams; and protective clothing, appropriate
33 training, and respiratory protection used by onsite
34 personnel as necessary.

35
36 **b. Noise**

- 37
38 1) What type of noise exists in the area which may affect:
39 your project (for example: traffic, equipment,
40 operation, other)?

41
42 While there is a minor amount of traffic, operation,
43 and equipment noise in the vicinity, it is not expected
44 to affect personnel at the proposed Ventilation
45 Upgrades, 241-AY and 241-AZ Tank Farms.
46

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EVALUATION FOR

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

Some amount of noise from grading equipment and construction would occur only during construction, and would cease upon completion of the Ventilation Upgrades, 241-AY and 241-AZ Tank Farms.

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

If Occupational Safety and Health Administration noise standards are exceeded, appropriate measures to protect workers would be employed.

8. Land and Shoreline Use

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

The proposed Ventilation Upgrades, 241-AY and 241-AZ Tank Farms is part of the U.S. Government-owned Hanford Site, which is used for the management of waste associated with the cleanup from past and/or present production of special nuclear materials, and for energy research. Commercial activities on the Hanford Site include a nuclear power plant and a Washington State administered low-level burial area operated by Ecology.

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

No portion of the 200 Areas on the Hanford Site has been used for agricultural purposes since 1943, if ever.

c. Describe any structures on the site.

The 241-AY and 241-AZ Tank Farms both have some piping and HEPA filters, along with a small instrument building.

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

No, however the present ventilation system will be upgraded.

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

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

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 Hanford Site may be used for "activities nuclear in nature". Nonnuclear 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?

No additional staff would be added as a result of the proposed Ventilation Upgrades, 241-AY and 241-AZ Tank Farms.

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

None.

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

Does not apply.

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

Refer to answer to checklist question B.8.f.

943221.3093

EVALUATION FOR

TO BE COMPLETED BY APPLICANT

AGENCY USE ONLY

1 9. Housing
2

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

5
6 None.

7
8 b. Approximately how many units, if any, would be eliminated?
9 Indicate whether high, middle, or low-income housing.

10
11 None.

12
13 c. Proposed measures to reduce or control housing impacts, if
14 any:

15 Does not apply.
16
17

18 10. Aesthetics
19

20 a. What is the tallest height of any proposed structure(s),
21 not including antennas; what is the principal exterior
22 building material(s) proposed?

23 The metal ventilation stack is 55 feet high.
24

25
26 b. What views in the immediate vicinity would be altered or
27 obstructed?

28 None.
29

30
31 c. Proposed measures to reduce or control aesthetic impacts,
32 if any:

33 None.
34
35

36 11. Light and Glare
37

38 a. What type of light or glare will the proposal produce?
39 What time of day would it mainly occur?

40 None.
41

42
43 b. Could light or glare from the finished project be a safety
44 hazard or interfere with views?

45 No.
46
47

9413220-3094

EVALUATION FOR

TO BE COMPLETED BY APPLICANT

AGENCY USE ONLY

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

3
4 None.

5
6 d. Proposed measures to reduce or control light and glare
7 impacts, if any:

8
9 None.

10
11 12. Recreation

12
13 a. What designated and informal recreational opportunities are
14 in the immediate vicinity?

15
16 None.

17
18 b. Would the proposed project displace any existing
19 recreational uses? If so, describe.

20
21 No.

22
23 c. Proposed measures to reduce or control impacts on
24 recreation, including recreation opportunities to be
25 provided by the project or applicant, if any?

26
27 None.

28
29 13. Historic and Cultural Preservation

30
31 a. Are there any places or objects listed on, or proposed for,
32 national, state, or local preservation registers known to
33 be on or next to the site? If so, generally describe.

34
35 At this time, no places or objects on or next to 241-AY and
36 241-AZ Tank Farms are under consideration for, or on, any
37 lists or registers.

38
39 b. Generally describe any landmarks or evidence of historic,
40 archaeological, scientific, or cultural importance known to
41 be on or next to the site.

42
43 None have been identified. Personnel from the PNL Hanford
44 Cultural Resources Laboratory will conduct a cultural
45 resources review prior to any activities for this proposed
46 Ventilation Upgrades, 241-AY and 241-AZ Tank Farms.
47

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TO BE COMPLETED BY APPLICANT

EVALUATION FOR
AGENCY USE ONLY

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

2
3 Does not apply.

4
5 14. Transportation

6
7 a. Identify public streets and highways serving the site, and
8 describe proposed access to the existing street system.
9 Show on site plans, if any.

10
11 The Hanford Site is not accessed by public streets or
12 highways, in addition, the proposed Ventilation Upgrades,
13 241-AY and 241-AZ Tank Farms will take place entirely
14 within the 200 East Area fenceline.

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

18
19 The proposed Ventilation Upgrades, 241-AY and 241-AZ Tank
20 Farms is not accessible to the public and is not served by
21 public transit.

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

25
26 None.

27
28 d. Will the proposal require any new roads or streets, or
29 improvements to existing roads or streets, not including
30 driveways? If so, generally describe (indicate whether
31 public or private).

32
33 No.

34
35 e. Will the project use (or occur in the immediate vicinity
36 of) water, rail, or air transportation? If so, generally
37 describe.

38
39 No.

40
41 f. How many vehicular trips per day would be generated by the
42 completed project? If known, indicate when peak volumes
43 would occur.

44
45 No extra vehicular trips would be generated by the proposed
46 Ventilation Upgrades, 241-AY and 241-AZ Tank Farms.
47

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EVALUATION FOR

TO BE COMPLETED BY APPLICANT

AGENCY USE ONLY

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

3
4 None.

5
6 15. Public Services

7
8 a. Would the project result in an increased need for public
9 services (for example: fire protection, police protection,
10 health care, schools, other)? If so, generally describe.

11
12 No.

13
14 b. Proposed measures to reduce or control direct impacts on
15 public services, if any:

16
17 None.

18
19 16. Utilities

20
21 a. Circle utilities currently available at the site:
22 electricity, natural gas, water, refuse service, telephone,
23 sanitary sewer, septic system, other:

24
25 The utilities that are currently available at the 241-AY
26 and 241-AZ Tank Farms include electricity, water, steam,
27 and telephone.

28
29 b. Describe the utilities that are proposed for the project,
30 the utility providing the service, and the general
31 construction activities on the site or in the immediate
32 vicinity which might be needed.

33
34 No new utilities are proposed for this project.
35

9443220-3097

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
10 James D. Bauer
11 James D. Bauer, Program Manager
12 Office of Environmental Assurance,
13 Permits, and Policy
14 U.S. Department of Energy
15 Richland Operations Office

3/31/99
Date

941322-509

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Subject: RESUBMITTAL OF THE STATE ENVIRONMENTAL POLICY ACT ENVIRONMENTAL
CHECKLIST FOR VENTILATION UPGRADES, 241-AY AND 241-AZ TANK FARMS

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