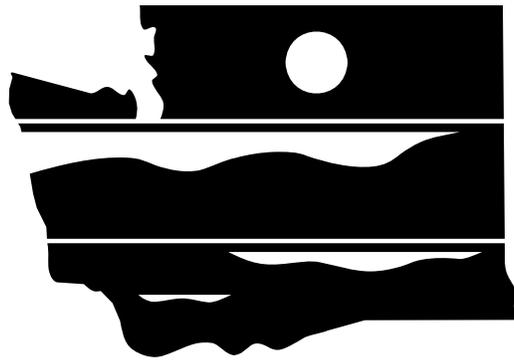


Replacing Emergency Diesel Pumps for Hanford's Water Supply

Responsiveness Summary



WASHINGTON STATE
DEPARTMENT OF
E C O L O G Y

Department of Ecology
Nuclear Waste Program
3100 Port of Benton Blvd.
Richland, WA 99354

June 28, 2007

Publication Number: 07-05-002

RESPONSIVENESS SUMMARY

Prepared by:

Doug Hendrickson, P.E.

Washington State Department of Ecology

Nuclear Waste Program

June 28, 2007

Publication Number: 07-05-002

If you need this publication in an alternate format, please call the Nuclear Waste Program at 509-372-7950. Persons with hearing loss can call 711 for Washington Relay Service. Persons with speech disability can call 877-833-6341.

Introduction

The Washington State Department of Ecology encouraged the public to comment on the permitting of new emergency-use diesels during a public comment period from May 14 through June 13, 2007.

The proposed permitting action regards the 100B Export Water Enhancements (Project L-626). The United States Department of Energy, Richland Operations Office wants to replace five old diesel engines with three new diesel engines. The engines support the water intake system at the Columbia River shoreline near the B Reactor. It is the water supply for the Hanford Site's Central Plateau. The water is for fire suppression, drinking, and various processes.

This responsiveness summary addresses public comments received during the public comment period. We received thirteen comments on the proposed permit approval. They focused on the following issues:

- The purpose and method of powering the project for which the engines were proposed.
- The reasoning as to why the engines are subject to permitting.
- The reasoning as to why the permitting of the engines is subject to public notice and comment.
- The technical clarifications requested by the permittee dealing with specific permit conditions including emissions estimates, emissions measurement, and reporting.

Responsiveness Summary

1. Comment: Has any consideration been given to using fuel cells instead?

Response: We offer the following explanation: The selection of equipment to be used within a process is the responsibility of a permittee. Ecology's scope and authority is to ensure air emissions from the equipment meets regulatory standards and do not adversely impact air quality standards.

2. Comment: No, as I look at this more, I think that diesel pumps would generate more horsepower than current fuel cell technology would be able to provide, likely making them a better choice for the heavy water pumping duties they need to fulfill.

Response: We agree. Thank you for your consideration of alternate means of providing power to the water pumps. These pumps do, indeed, have a high power demand which is not economically met with fuel cells.

3. Comment: A caller wished to determine the mode of operations and why the permitting of these engines were subject to public comment.

Response: Here is our explanation: These engines are proposed to replace old existing engines for Hanford Site water pumps. The new engines, as were the old engines, are for a back-up power supply if Hanford Site electrical power is lost. New engines proposed by the applicant are subject to New Source Review and permitting of Chapter 173-400 of the Washington Administrative Code (WAC) due to their diesel exhaust emissions.

The engines are also subject to standards of the United States Environmental Protection Agency (EPA) found at Title 40 Code of Federal Regulations, Part 60, *Standards of Performance for New Stationary Sources*, Subpart IIII—Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40 CFR 60.4200 *et seq.*). 40 CFR 60.4200 sets standards for emergency-use engines, which limit hours of operation of emergency-use engines. At present, WAC 173-400 does not incorporate standards of 40 CFR 60.4200. Without delegation of this EPA emergency-use designation, Washington may permit such engines based upon emissions from year-round operation or under the authority of WAC 173-400-091 which provides for voluntary limits in operation. If the engines were to operate full-time, year-round, the emissions would be of a magnitude to require permitting under Prevention of Significant Deterioration (PSD) (WAC 173-400-700).

The permit applicant chose to request a voluntary limit in lieu of the extensive ambient impact analysis requirements under PSD. WAC 173-400-171(x) requires that any proposed permit to be issued under the authority of WAC 173-400-091 must be subject to public notice and comment.

4. Drinking water for the workers in the 200 area is being drawn from the site mentioned? I am interested in:
 - a. the volume used by the workers
 - b. the volume of water used for other processes (water which, if run into the ground, will contribute to the washout of the vadose zone)

Response: We offer the following explanation: During the summer, between 500,000 and 800,000 gallons of untreated water goes to the 200 Areas on a typical day. The Filter Plant uses about 1/3 of this for drinking water. The remainder is for industrial use (dust suppression, cooling, etc...), with much of this drainage going to the Effluent Treatment Facility.

Water is not run onto the ground, except for those volumes that are accounted for in the Washington state permits, for example ST #4511.

5. Title--Suggest including "Criteria and Toxic" for consistency with recent documentation changes

Response: We agree. We will entitle the Approval ORDER "Criteria and Toxic Air Emissions Notice of Construction Approval ORDER Conditions and Restrictions."

6. Condition 1.2.6--it appears the cited emission limit for PAHs should be 4.8E-04 ug/m³ (instead of E-03) to match the corresponding ASIL in WAC 173-460-150(3)

Response: We agree. Thank you for identifying this error.

7. Condition 1.3.1--clarification is needed as to the required frequency for Tier 1 visible emission survey requirement per AOP. Currently, the AOP does not include a default frequency for Tier 1 and none is specified in this draft Order.

Response: We agree. The conditions of the ORDER will clarify that each engine will be subject to visible emissions survey with each maintenance and readiness testing startup, and daily during each emergency use exceeding or anticipated to exceed eight hours. The frequency of survey during maintenance and readiness testing is based upon manufacturer recommendations and operations and maintenance manuals for the engines. We expect such events two to four times yearly. We selected this frequency of survey in recognition of the requirement that Method 9 be conducted during daylight hours and the expected service staffing to be provided to the engines during an actual emergency. We are not setting visible emissions survey requirements for periods when the engines are not in operation, or for short, unanticipated, emergency-use.

In addition, your question highlighted federal standards for visible emission testing procedures under 40 CFR §86.884 required by 40 CFR §69.6402 and 40 CFR §89.113. The federal standards require that compliance, and the method of compliance demonstration, with the applicable emission standard be met by owners and operators. The federal standards do not establish this testing as either a performance test under 40 CFR §60.8 nor specify frequency of such testing. Ecology, to gap-fill, has established this optical instrument method of visible emission testing as an initial performance test and as required should we have reason to believe that visible emission standards are not being met by the owner and operator.

8. Condition 1.3.2--list of referenced conditions in introductory sentence should include 1.2.5 since it is addressed in 1.3.2.3, which is a sub-tier of 1.3.2.

Response: We offer the following: In view of the parallels in assessing compliance for toxic air pollutants by calculation between Conditions 1.3.2.3 and 1.3.3, we have removed Condition 1.3.2.3 as a subtended compliance demonstration from Condition 1.3.2, and it is now Condition 1.3.3. We have renumbered the rest of the Conditions accordingly. In this clarification, we removed Naphelene from Table 1 and encompassed it within Polyaromatic Hydrocarbon limitations of Condition 1.2.6. Compliance demonstration is under newly-renumbered Condition 1.3.4.

9. Conditions 1.3.2.3 and 1.3.3.2--clarification is needed (either here or in 1.6) on what frequency the calculation of TAP emissions needs to be performed. Also, the reference table 3.3-2 in AP 42 appears to only apply to the 450 hp engine (< 600 hp), so additional reference to AP 42 table 3.4-3 is needed for the two

planned 900 hp engines. In addition, table 3.4-3 for larger engines does not include an emission factor for 1,3-butadiene.

Response: We agree. We clarified frequency of emissions assessment in Condition 1.6, item 5, as semi-annually, in concert with operating hour assessment. The appropriate references for emission factors for Toxic Air Pollutants (TAPs) identified in Table 1 of the Order are to EPA's air pollution emission factors of AP 42, Table 3.3-2, for engines less than 600 HP and AP 42, Tables 3.4-3, for engines 600 HP and higher. Emission factors for polyaromatic hydrocarbons are in AP 42 Tables 3.3-2 and 3.4-4, respectively. Newly numbered conditions 1.3.3 and 1.3.4 reflect these clarifications. We clarified absence of 1,3-Butadiene from AP 42 Table 3.4-3 in the footnote associated with Condition 1.3.3, assigning an emission factor of zero for 1,3-Butadiene from engines 600 HP or larger.

10. Condition 1.3.3.1--would like to clarify that this means that if we show the TAP emissions for the eight listed in Table 1 are below their SQER, it is assumed that PAH emissions are considered compliant with standard in 1.2.6.

Response: We offer the following: Clarification and uniformity of presentation in newly numbered conditions 1.3.3 and 1.3.4 resulted in the removal of proposed Condition 1.3.3.1. The TAP emission limitation conditions 1.2.5 and 1.2.6, and their compliance demonstration methods reflected are discretely separated to clearly show that dispersion analysis is required to demonstrate compliance for carcinogenic TAPs that do not have a Small Quantity Emission Rate (SQER) due to their very low threshold of acceptable impact.

11. Condition 1.6--For Item 6, suggest that as additional alternatives to maintaining vendor's certification of diesel fuel quality, compliance with 1.2.7 pursuant to 1.3.4 can also be accomplished by either vendor documentation of fuel purchase from retail outlet(s) that comply with 40 CFR 80 or through annual fuel analyses.

Response: We agree and added clarifying text consistent with your recommendations.

12. Section 2.3--in 1st paragraph would like to clarify that submittal of "visible emission survey" records to Ecology per WAC 173-400-107 is only required if Method 9 test shows opacity levels above the 20% standard; not that Ecology wants records submitted each time a visible emission survey is conducted, regardless of results.

Response: We agree and added clarifying text. Only emissions that exceed approved standards are reported under the requirements of WAC 173-400-107.

13. Section 2.3--in 2nd paragraph, suggest rewording for consistency to reference "criteria and toxic" air emissions inventory report instead of "non-radioactive". Also, would like to clarify what specific pollutants Ecology wants reported

annually in that report, and whether or not Ecology will be amending the forms they supply us each year for that report to capture this new reporting requirement.

Response: We agree and added clarifying text to report emissions limited by this ORDER.

Summary of Public Involvement Actions

We mailed a focus sheet (legal notice) to approximately 900 highly interested members of the public. We sent an email to the Hanford Listserv to announce the comment period and direct readers to the Ecology website for more information. We placed a notice of the comment period in the Ecology events calendar. We placed a legal classified advertisement in the Tri-City Herald to announce the comment period. The advertisement ran on May 12, 2007. We sent the draft permit and focus sheet to the Hanford Information Repositories. We also announced the comment period in a number of meetings with regional stakeholders. We did not receive any requests for a hearing and did not schedule one.

Attachments

Comments Received

Public Announcement Classified Ad

Focus Sheet

Hanford-Info Listserv notice

Copies of final letter of decision and issued ORDER DE07NWP-002

Comments Received

1. Email Transmission

From: Doug@ngrc.com [mailto:Doug@ngrc.com]
Sent: Monday, May 14, 2007 1:53 PM
To: Wireman, Ginger (ECY)
Subject: Re: HANFORD PUBLIC COMMENT - 100B Export Water Enhancements

Has any consideration been given to using fuel cells instead?

2. Email Transmission

From: Doug Riggs [mailto:doug@ngrc.com]
Sent: Tuesday, May 15, 2007 7:09 AM
To: Wireman, Ginger (ECY)
Subject: Re: PUBLIC COMMENT - 100B Export Water Enhancements

No, as I look at this more, I think that diesel pumps would generate more horsepower than current fuel cell technology would be able to provide, likely making them a better choice for the heavy water pumping duties they need to fulfill.

Thanks for the response.

Doug

3. Telephone Call

5/16/2007 1:57:23 PM, Mr. Monte Crippen – 783-2962

Questions on why these need to be permitted when they are replacements.

1. Permitting – described legacy and new requirements
2. Operational mode – backup generator, voluntary restriction issues and required public comment

Does not need formal comment response.

4. Email Transmission

From: Charles/Sally Weems [mailto:floating@seanet.com]
Sent: Monday, May 14, 2007 5:34 PM
To: Wireman, Ginger (ECY)
Subject: Re: HANFORD PUBLIC COMMENT - 100B Export Water Enhancements

Hello and thanks for the note.
Please help me with the below:

Drinking water for the workers in the 200 area is being drawn from the site mentioned? I am interested in:

the volume used by the workers

the volume of water used for other processes (water which, if run into the ground, will contribute to the washout of the vadose zone)

Perhaps an unfair question to pose to you but then you might direct me to the right person.

Again thanks

Charlie Weems

floating@seanet.com

5. Email Transmission

From: Jarvis, Mary F [Mary_F_Jarvis@RL.gov]
Sent: Tuesday, June 12, 2007 7:29 PM
To: Hendrickson, Douglas (ECY)
Cc: Beam, Thomas G; Ortiz, Dickie J
Subject: Comments on Ecology's Draft Order for Project L-626

Importance: High

Doug,

Embedded in Tom Beam's forwarded e-mail (below) are comments on the draft Order for Project L-626.

DJ Ortiz also reviewed the draft Order.

We appreciate the opportunity to comment on the draft Order prior to Ecology's issuance of the approval.

Thanks!

Mary-Maria Jarvis, DOE-RL
Environmental Services
(509) 376-2256
Hanford Area Pager 85-6328
FAX (509) 372-2610
Mary_F_Jarvis@RL.GOV

From: Beam, Thomas G
Sent: Monday, June 11, 2007 3:11 PM
To: Jarvis, Mary F
Cc: Clement, Curt J; Peterson, Kirk A

Subject: FW: Draft Order on L-626

Mary,

FH staff have reviewed the draft Order for Project L-626 and have the following comments to offer. I am submitting them to you for review and transmittal to Doug Hendrickson at Ecology. I believe that Doug is targeting issuance of the final Order on Thursday, 6/14/07 (current 30-day public comment period ends 6/13/07), so he would probably need to receive these comments ASAP. Please call if there are any questions. Thanks.

Tom

Title--Suggest including "Criteria and Toxic" for consistency with recent documentation changes

Condition 1.2.6--it appears the cited emission limit for PAHs should be 4.8E-04 ug/m3 (instead of E-03) to match the corresponding ASIL in WAC 173-460-150(3)

Condition 1.3.1--clarification is needed as to the required frequency for Tier 1 visible emission survey requirement per AOP. Currently, the AOP does not include a default frequency for Tier 1 and none is specified in this draft Order.

Condition 1.3.2--list of referenced conditions in introductory sentence should include 1.2.5 since it is addressed in 1.3.2.3, which is a sub-tier of 1.3.2.

Conditions 1.3.2.3 and 1.3.3.2--clarification is needed (either here or in 1.6) on what frequency the calculation of TAP emissions needs to be performed. Also, the reference table 3.3-2 in AP 42 appears to only apply to the 450 hp engine (< 600 hp), so additional reference to AP 42 table 3.4-3 is needed for the two planned 900 hp engines. In addition, table 3.4-3 for larger engines does not include an emission factor for 1,3-butadiene.

Condition 1.3.3.1--would like to clarify that this means that if we show the TAP emissions for the eight listed in Table 1 are below their SQER, it is assumed that PAH emissions are considered compliant with standard in 1.2.6.

Condition 1.6--For Item 6, suggest that as additional alternatives to maintaining vendor's certification of diesel fuel quality, compliance with 1.2.7 pursuant to 1.3.4 can also be accomplished by either vendor documentation of fuel purchase from retail outlet(s) that comply with 40 CFR 80 or through annual fuel analyses.

Section 2.3--in 1st paragraph would like to clarify that submittal of "visible emission survey" records to Ecology per WAC 173-400-107 is only required if Method 9 test shows opacity levels above the 20% standard; not that Ecology wants records submitted each time a visible emission survey is conducted, regardless of results.

Section 2.3--in 2nd paragraph, suggest rewording for consistency to reference "criteria and toxic" air emissions inventory report instead of "non-radioactive". Also, would like to clarify what specific pollutants Ecology wants reported annually in that report, and whether or not Ecology will be amending the forms they supply us each year for that report to capture this new reporting requirement.

Classified Legals

CITY OF PASCO SUMMARY OF ORDINANCE NO. 3827
ORDINANCE NO. 3827, is an ordinance Authorizing a change in the Hydrant Meter Refundable Deposit amount and amending Chapter 3.07.160 of the Pasco Municipal Code entitled Water Use Fees. This ordinance is effective 5 days after approval and publication by law. The full text of Ordinance No. 3827, is available free of charge and will be mailed (electronically or via postal service) to any person who requests it from the City Clerk of the City of Pasco (509)545-3402, P.O. Box 293, Pasco, Washington 99301-0293.
 Sandy L. Kenworthy, Deputy City Clerk
 7888 5/12

NOTICE OF RESCHEDULED PUBLIC MEETING

Walla Walla County Community Development Department
 310 W. Poplar, Suite 200, Walla Walla, WA 99362
 (509) 527-3285
 FAX (509) 527-1892
WALLA WALLA COUNTY 2007 COMPREHENSIVE PLAN UPDATE
RESCHEDULED MAY 16TH PUBLIC WORKSHOP

Due to conflicts with other meetings and activities in Waukesha on May 16th, the Public Workshop meeting on the 2007 Walla Walla County Comprehensive Plan update to be held on May 16th at the Waukesha Elementary School Multi-Purpose Room has been rescheduled to Tuesday, June 5th at 7 PM.

This meeting is an informal workshop not a public hearing. Your comments will be noted and considered by staff in the staff's recommendations for updating the Vision Statement and goals and policies. They also will be transmitted to the Planning Commission and Board of County Commissioners as part of the staff's recommendations on updates to the County's Comprehensive Plan which will be considered at public meetings and hearings this summer and fall.

RESCHEDULED PUBLIC WORKSHOP INFORMATION:
 JUNE 5, 2007 from 7:00 p.m. to 9:00 p.m.
 Waukesha Elementary School Cafeteria/Multi Purpose Room
 184 Academy Street Waukesha, WA 99361

FOR MORE INFORMATION:
 Visit the Comprehensive Plan website at <http://www.wccoplan.com/> or contact Kathy Devlin, Assistant Planner at (509) 524-2634 7889 5/12

REFERENCE #1638118
GRANTOR(S) SCOTT G. ERDMAN single man
GRANTEE(S) WELLS FARGO HOME MORTGAGE, INC.
LEGAL DESCRIPTION:
 SEC 23, T9 N, R929E ASSESSOR'S TAX PARCEL ID#119-052-061
NOTICE OF TRUSTEE'S SALE
PURSUANT TO THE REVISED CODE OF WASHINGTON CHAPTER 61.24, ET. SEQ.
 TO: Scott Erdman, 4509 W. Livingston Road, Pasco Wa 99301
 To: Occupants, 4509 W. Livingston Road Pasco, WA 99301

THIS DOCUMENT IS SENT FOR THE PURPOSE OF COLLECTING A DEBT AND ANY INFORMATION OBTAINED WILL BE USED FOR THAT PURPOSE.

I, NOTICE IS HEREBY GIVEN that the undersigned Trustee will on the 15th day of June, 2007 at the hour of 10:00 a.m. on the steps outside the main entrance on the East side of the Franklin County Courthouse, 1016 North 4th Avenue, in the City of Pasco State of Washington, sell at public auction to the highest and best bidder, payable at the time of sale, the following described real property, situated in the County(ies) of Franklin State of Washington, to-wit: sec 23, T 9N, Rg29E (commonly known as 4509 W. Livingston Road, Pasco, Wa 99301), which is subject to that certain Deed of Trust dated 12/24/03, recorded 12/30/03, under Auditor's File No. 1638118, records of Franklin County, Washington, from Scott G. Erdman as Grantor, to Chicago Title Insurance Company as Trustee, to secure an obligation in favor of Wells Fargo Home Mortgage, Inc. as Beneficiary.

II. No action commenced by the Beneficiary of the Deed of Trust or the Beneficiary's successor is now pending to seek satisfaction of the obligation in any Court by reason of the Grantor's default on the obligation secured by the Deed of Trust.
III. The default(s) for which this foreclosure is made is/are as follows: (If default is

for other than payment of money, set forth the particulars)
 Failure to pay real estate taxes when due; Failure to maintain property insurance, if applicable; Failure to keep property unencumbered, if applicable; Failure to pay when due the following amounts which are now in arrears: Monthly payment \$1891.39

Various monthly payments (8/20/06-3/14/07). Late Charges: Various late charges for each monthly payment not made within 5 days of its due date. \$47.85
TOTAL MONTHLY PAYMENTS AND LATE CHARGES: \$1939.24

IV. The sum owing on the obligation secured by the Deed of Trust is: Principal \$28409.00, together with interest as provided in the note or other instrument secured from the 30th day of December, 2003 and such other costs and fees as are due under the note or other instrument secured, and as are provided by statute.

V. The above-described real property will be sold to satisfy the expense of sale and the obligation secured by the Deed of Trust as provided by statute. The sale will be made without warranty, express or implied, regarding title, possession, or encumbrances on the 15 day of June 2007. The default(s) referred to in paragraph III must be cured by the 4th day of June, 2007 to cause a discontinuance of the sale. The sale will be discontinued and terminated if at any time on or before the 4th day of June, 2007, the default(s) as set forth in paragraph III is/are cured and the Trustee's fees and costs are paid. The sale may be terminated any time after the 4th day of June, 2007 and before the sale by the Grantor or the Grantor's successor in interest or the holder of any recorded junior lien or encumbrance paying the entire principal and interest secured by the Deed of Trust, plus costs, fees, and advances, if any, made pursuant to the terms of the obligation and/or Deed of Trust, and curing all other defaults.

VI. A written notice of default was transmitted by the Beneficiary or Trustee to the Grantor or the Grantor's successor in interest at the following address: Name Scott Erdman, 4509 W. Livingston Road, Pasco Wa 99301.

Occupants, 4509 W. Livingston Road, Pasco, WA 99301.
 by both first class and either registered or certified mail on the 13 day of February, 2007, proof of which is in the possession of the Trustee; and the Grantor or the Grantor's successor in interest was personally served on the 13th day of February, 2007, with said written notice of default. The written notice of default was posted in a conspicuous place on the real property described in paragraph 1 above, and the Trustee has possession of proof of such service of posting.

VII. The Trustee whose name and address are set forth below will provide in writing to anyone requesting if, a statement of all costs and fees due at any time prior to the sale.
VIII. The effect of the sale will be to deprive the Grantor and all those who hold by, through or under the Grantor of all their interest in the above-described property.

IX. Anyone having any objections to the sale or any grounds whatsoever will be afforded an opportunity to be heard objection if the bring a lawsuit to restrain the sale pursuant to RCW 61.24.130. Failure to bring such a lawsuit may result in a waiver of any proper grounds for invalidating the Trustee's sale.
X. NOTICE TO OCCUPANTS OR TENANTS:
 The purchaser at the Trustee's Sale is entitled to possession of the property on the 20th day following the sale, as against the Grantor under the Deed of Trust (the owner) and any one having an interest junior to the Deed of Trust including occupants and tenants. After the 20th day following the sale, the purchaser has the right to evict occupants and tenant by summary proceedings under the unlawful detainer act, Chapter 59.12 RCW. Dated 3/14/07
 Bradley Boswell Jones
 Successor Trustee
 5440 California Ave. SW
 Seattle, WA 98136
 206-935-1501
 Fax 206-935-1505

On this day personally appeared before me Bradley B. Jones, to me known to be the individual described in and who executed this within and foregoing instrument, and acknowledged that he signed the same as his free and voluntary act and deed, for the uses and purposes therein mentioned.

GIVEN under my hand and official seal this 14 day of March 2007
 /s/ Wendy Popp
 Notary Public in and for the State of Washington residing at Pasco, WA 99301
 7887 5/12/07

Replacing emergency diesel pumps for Hanford water supply (Project L-626)
PUBLIC COMMENT PERIOD
 May 14 through June 13, 2007
 The Washington State Department of Ecology (Ecology) invites you to comment on a proposed Notice of Construction for the 3100B Export Water Enhancements (Project L-626)

The U.S. Department of Energy, Richland Operations Office wants to replace five old diesel engines with three new diesel engines. The engines support the water intake system at the Columbia River shoreline near the B Reactor. It is the water supply for the Hanford Site's Central Plateau. The water is for fire suppression, drinking, and various processes. The purpose of the project is to: Install and operate three diesel engines to pump water. Install one or two diesel fuel storage tanks at the 182B pump house and reservoir. Test and repair a diesel storage tank at the 181B pumping station. Install about 2,000 feet of water pipeline and two new fire hydrants. Install a sprinkler system for fire suppression in the pumping station.

The system in place now is more than 60 years old. The emergency backup system needs to be upgraded to ensure that it will work properly. These engines will only be used during a power outage, and for periodic testing. The engines will pump water from the Columbia River and from the holding reservoir to the site's water supply grid. One of the engines is the backup to pump river water to the reservoir. The other two engines are the backups to pump the water from the reservoirs to the Hanford water supply grid. The engines will be regulated as 3 emergency use 4 engines under the Federal Clean Air Act and Washington's implementing regulations (WAC 173-400 and 173-460). Two of the new engines will be less than 900 horsepower and the third

engine will be less than 450 horsepower. The new diesel engines meet 2007 Environmental Protection Agency emission standards and are much cleaner than the older diesels they replace. The construction should start in late June and end by December 2007.

The owner and operator is the U.S. Department of Energy, Richland Operations Office, P.O. Box 550, Richland, WA 99352.

How to learn more about the proposal
 The documents related to this proposal are available online at <http://www.ecy.wa.gov/programs/nwp/commentperiods.htm>. You can review the proposal at Ecology2s Nuclear Waste Program Resource Center. The address is 3100 Port of Benton Blvd, Richland. For a viewing appointment call 509.372.7920. You can also review the proposal at Hanford2s Public Information Repositories:

Portland
 Portland State University
 Brantford Price Millar Library
 1875 SW Park Ave.
 Attn: Don Frank
 503-725-4132
 Richland
 U.S. Department of Energy
 Reading Room
 Consolidated Information Center, Room 101-L
 2770 University Dr.
 Attn: Janice Parthree
 509-372-7443
 Spokane
 Gonzaga University
 Coley Center
 502 E. Boone Ave.
 Attn: Linda Pierce
 509-323-3834

Seattle
 University of Washington
 Suzzallo Library
 Government Publications Division
 Attn: Eleanor Chase
 206-543-4664

Ecology has not planned to hold a public hearing, but will all consider requests. If you have further questions, or to request a hearing, please contact Madeleine Brown, 509.372.7936 or mabr461@ecy.wa.gov. How do you make a comment?

Send all comments by Wednesday, June 13, 2007 to: Doug Hendrickson, P.E. Nuclear Waste Program Washington State Department of Ecology 3100 Port of Benton Blvd Richland Washington 99354
 Phone 509.372.7983
 Fax 509.372.7971
 Dohe461@ecy.wa.gov
 7855 5/12

To Place Your Legal Announcement, Call 582-1560

Replacing emergency diesel pumps for Hanford's water supply



Public Comment Period: May 14 through June 13, 2007

The purpose of the project:

Install and operate three diesel engines to pump water.

Install one or two diesel fuel storage tanks at the 182B pump house and reservoir.

Test and repair a diesel storage tank at the 181B pumping station.

Install about 2,000 feet of water pipeline and two new fire hydrants.

Install a sprinkler system for fire suppression in the pumping station.



Pump controls and water lines that take water from the river to Hanford's CentralPlateau. The new diesels provide backup power for pumps

The Washington State Department of Ecology (Ecology) invites you to comment on a proposed Notice of Construction for the "100B Export Water Enhancements (Project L-626)."

The U.S. Department of Energy, Richland Operations Office wants to replace five old diesel engines with three new diesel engines. The engines support the water intake system at the Columbia River shoreline near the B Reactor. It is the water supply for the Hanford Site's Central Plateau. The water is for fire suppression, drinking, and various processes.

The system in place now is more than 60 years old. The emergency backup system needs to be upgraded to ensure that it will work properly.

These engines will only be used during a power outage, and for periodic testing. The engines will pump water from the Columbia River and from the holding reservoir to the site's water supply grid. One of the engines is the backup to pump river water to the reservoir. The other two engines are the backups to pump the water from the reservoirs to the Hanford water supply grid. The engines will be regulated as "emergency use" engines under the Federal Clean Air Act and Washington's implementing regulations (WAC 173-400 and 173-460).

Two of the new engines will be less than 900 horsepower and the third engine will be less than 450 horsepower. The new diesel engines meet 2007 Environmental Protection Agency emission standards and are much cleaner than the older diesels they replace. The construction should start in late June and end by December 2007.

How to learn more about the proposal

The documents related to this proposal are available online at <http://www.ecy.wa.gov/programs/nwp/commentperiods.htm>. You can review the proposal at Ecology's Nuclear Waste Program Resource Center. For a viewing appointment call 509.372.7920. You can also review the proposal at Hanford's Public Information Repositories, listed on reverse

Ecology has not planned to hold a public hearing, but will consider all requests. If you have further questions, or to request a hearing, please contact Madeleine Brown, 509.372.7936 or mabr461@ecy.wa.gov.

How do you make a comment?

Send all comments by
Wednesday, June 13, 2007 to:

Doug Hendrickson, P.E.

Nuclear Waste Program
Washington State Department of Ecology
3100 Port of Benton Blvd
Richland Washington 99354
Phone 509.372.7983
Fax 509.372.7971
Dohe461@ecy.wa.gov

HANFORD PUBLIC INFORMATION REPOSITORIES

Richland

U.S. Department of Energy Reading Room
Consolidated Information Center, Room
101-L
2770 University Dr.
Attn: Janice Parthree 509-372-7443

Seattle

University of Washington
Suzzallo Library
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Unknown

From: Brown, Madeleine (ECY)
Sent: Wednesday, June 06, 2007 3:11 PM
To: Hendrickson, Douglas (ECY)
Subject: FW: HANFORD PUBLIC COMMENT - 100B Export Water Enhancements

Madeleine C. Brown
Washington State Department of Ecology
Nuclear Waste Program
(509) 372-7936
mabr461@ecy.wa.gov

From: Wireman, Ginger (ECY) [mailto:GWIR461@ECY.WA.GOV]
Sent: Monday, May 14, 2007 12:51 PM
To: HANFORD-INFO@LISTSERV.WA.GOV
Subject: HANFORD PUBLIC COMMENT - 100B Export Water Enhancements

Replacing emergency diesel pumps for Hanford's water supply

Public Comment Period: May 14 through June 13, 2007

The Washington State Department of Ecology (Ecology) invites you to comment on a proposed Notice of

Construction for the "100B Export Water Enhancements (Project L-626)."

The U.S. Department of Energy, Richland Operations Office wants to replace five old diesel engines with three new diesel engines.

The engines support the water intake system at the Columbia River shoreline near the B Reactor. It is the water supply

for the Hanford Site's Central Plateau. The water is for fire suppression, drinking, and various processes.

The system in place now is more than 60 years old. The emergency backup system needs to be

upgraded to ensure that it will work properly.

These engines will only be used during a power outage, and for periodic testing. The engines will pump water from the Columbia River and from the holding reservoir to the site's water supply grid. One of the engines is the backup to pump river water to the reservoir. The other two engines are the backups to pump the water from the reservoirs to the Hanford water supply grid. The engines will be regulated as "emergency use" engines under the Federal Clean Air Act and Washington's implementing regulations (WAC 173-400 and 173-460).

Two of the new engines will be less than 900 horsepower and the third engine will be less than 450 horsepower. The new diesel engines meet 2007 Environmental Protection Agency emission standards and are much cleaner than the older diesels they replace. The construction should start in late June and end by December 2007.

The facility's owner and operator is the U.S. Department of Energy, Richland Operations Office, PO. Box 550, Richland, WA 99352.

How to learn more about the proposal

The documents related to this proposal are available online at:

<http://www.ecy.wa.gov/programs/nwp/commentperiods.htm>.

You can review the proposal at Ecology's Nuclear Waste Program Resource Center. For a viewing appointment call 509.372.7920. You can also review the proposal at Hanford's Public

Information Repositories, listed below.

Ecology has not planned to hold a public hearing, but will consider all requests. If you have further questions, or to request a hearing, please contact Madeleine Brown, 509-372-7936 or

mabr461@ecy.wa.gov.

Portland - Portland State University Branford Price Millar Library 1875 SW Park Ave. Attn: Don Frank 503-725-4132

Richland - U.S. Department of Energy Reading Room Consolidated Information Center, Room 101-L 2770 University Dr. Attn: Janice Parthree 509-372-7443

Seattle - University of Washington Suzzallo Library Government Publications Division Attn: Eleanor Chase 206-543-4664

Spokane- Gonzaga University Foley Center 502 E. Boone Ave. Attn: Linda Pierce 509-323-3834

How do you make a comment?

Send all comments by Wednesday, June 13, 2007 to:

Doug Hendrickson, P.E.

Nuclear Waste Program -Washington State Department of Ecology

3100 Port of Benton Blvd

Richland Washington 99354

Phone 509-372-7983

Fax 509-372-7971

Dohe461@ecy.wa.gov



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

3100 Port of Benton Blvd • Richland, WA 99354 • (509) 372-7950

June 27, 2007

Mr. Michael J. Weis, Acting Manager
Richland Operations Office
United States Department of Energy
P.O. Box 550, MSIN: A7-50
Richland, Washington 99352

Re: Approval of Criteria and Toxic Air Emissions Notice of Construction (NOC)
Application, 100B Export Water Enhancements

- References:
1. USDOE-RL Letter 07-SED-0216, *Transmittal of Two Regulatory Documents for Review and Approval Related to Proposed Hanford Facility Project 100B Export Water Enhancements (Project L-626)*, dated April 10, 2007.
 2. Ecology Letter, *Determination of Complete Application, 100B Export Water Enhancements*, dated April 25, 2007

Dear Mr. Weis:

The United States Department of Energy-Richland Operations petitioned for approval of a Notice of Construction for the proposed 100B Export Water Enhancement (Reference 1). Ecology determined that your application was complete (Reference 2). This letter issues approval for the petitioned operations.

Enclosed is ORDER No. **DE07NWP-002**, authorizing the proposed operations. The ORDER was issued based upon voluntary limitations of Washington Administrative Code 173-400-091. The enclosed ORDER may be appealed. Appeal procedures are described in the ORDER. Administrative revision of the Hanford Air Operating Permit, to incorporate provisions of this ORDER as requested in Reference 1, will follow this issuance.

This authorization can be modified, suspended, or revoked, in whole or in part, if Ecology finds that, due to inaccuracies in the petition request, compliance with ambient air quality standards is not ensured.

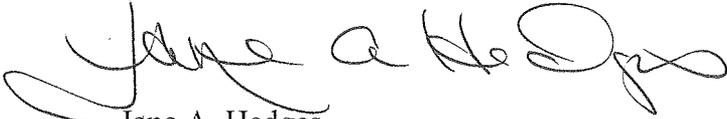
A public notice and comment period was held from May 14 through June 13, 2007, for the approval proposed by Ecology in Reference 2. Thirteen comments, including nine from your staff were received during the comment period. The Responsiveness Summary prepared to address comments is available upon the Ecology website at <http://www.ecy.wa.gov/programs/nwp/currentnews.htm>.



Mr. Michael J. Weis
June 27, 2007
Page 2

If you have any questions, contact Doug Hendrickson at 509-372-7983.

Sincerely,

A handwritten signature in black ink, appearing to read "Jane A. Hedges". The signature is fluid and cursive, with a large initial "J" and a long, sweeping underline.

Jane A. Hedges
Program Manager
Nuclear Waste Program

dh/pll
Enclosure

cc: Laurie Kral, EPA
Mary Jarvis, USDOE
Tom Beam, FH
Curt Clement, FH
Stuart Harris, CTUIR
Gabriel Bohnee, NPT
Russell Jim, YN
Susan Leckband, HAB
Ken Niles, ODOE
John Martell, WDOH
Administrative Record: AIR Permits
Environmental Portal

**CRITERIA AND TOXIC AIR EMISSIONS
NOTICE OF CONSTRUCTION APPROVAL ORDER
CONDITIONS AND RESTRICTIONS**

REGULATORY AUTHORITY:

Pursuant to the Washington State Department of Ecology *General Regulations for Air Pollution Sources*, Chapter 173-400 Washington Administrative Code (WAC), *Controls for New Sources of Toxic Air Pollutants*, Chapter 173-460 WAC, and New Source Performance Standards (NSPS) promulgated under Subpart IIII (Title 40 Code of Federal Regulations (CFR), Part 60.4200 *et. seq.*), and WAC 173-400-091, specifically, Ecology finds the following:

FINDINGS:

1. The United States Department of Energy proposes to modify their existing facility (Hanford) located in Richland, Washington.
2. A Notice of Construction (NOC) application was submitted on April 10, 2007. The application was found to be complete on April 23, 2007.
3. Hanford is an existing major stationary source that emits more than 250 tons of a regulated pollutant per year.
4. The proposed project consists of installing and operating three diesel engines to pump water and installing up to two diesel fuel storage tanks in the 100B Area of the Hanford Site. The water is intended for potable, process, and fire suppression uses.
5. The proposed project will install the three diesel engines as emergency use engines subject to Subpart IIII NSPS of 40 CFR §60.4200 *et seq.*
6. Hanford is located in a Class II Area designated as “attainment” for the purpose of NOC permitting for all pollutants.
7. Emissions of criteria pollutants from the proposed project are below the Prevention of Significant Deterioration Significant Emission Rates.
8. Criteria air pollutant emissions from the proposed project are below the *de minimus* levels in WAC 173-400-110(5)(d) with the exception of nitrogen oxides.
9. Toxic Air Pollutants (TAPs) from the proposed project are below the Small Quantity Emission Rates (SQERs) of WAC 173-460-080(2)(e).
10. The Best Available Control Technology (BACT) and Toxics-Best Available Control Technology (T-BACT) for this project have been determined to be the use of 40 CFR Part 89 compliant engines.
11. The proposed project, if constructed and operated as herein required, will provide BACT and T-BACT.

12. The proposed project, if operated as herein required, will be in accordance with applicable rules and regulations, as set forth in Chapter 173-400 WAC, Chapter 173-460 WAC, and NSPS Subpart IIII and the operation thereof will not result in ambient air quality standards being exceeded.
13. The project will have no significant impact on air quality.

THEREFORE, IT IS ORDERED that the project as described in said NOC application, and as detailed in emission estimates, and impact and control technology assessments submitted to Ecology in reference thereto, is approved for construction, installation, and operation, provided compliance with the conditions and restrictions described below. This ORDER will be identified as NOC ORDER **DE07NWP-002**.

1.0 SPECIFIC APPROVAL CONDITIONS

1.1 Effective Date

The effective date of this authorization will be that as signed in Section 3.0. All references to standards, procedures or test methods will be to those in effect as of the effective date of this ORDER.

1.2 Emission Limits

- 1.2.1 Visible emissions will not exceed:
- 1.2.1.1 Twenty percent during acceleration¹ mode [WAC 173-400-040(1), 40 CFR §60.4205(b), and 40 CFR §89.113(a)(1)].
 - 1.2.1.2 Fifteen percent during lugging mode [40 CFR §60.4205(b), and 40 CFR §89.113(a)(2)].
 - 1.2.1.3 Fifty percent during peak in either acceleration or lugging mode [WAC 173-400-040(1)(a), 40 CFR §60.4205(b), and 40 CFR §89.113(a)(3)].
- 1.2.2 Emissions of Nitrogen oxides (NO_x) and Non-methane Hydrocarbons (NMHC) will not exceed 14.2 tons per year [WAC 173-400-091, AP 42² emission factors for engines in NOC application operating 500 hours per year].
- 1.2.3 Emissions of Carbon Monoxide (CO) will not exceed five tons per year [WAC 173-400-110(5)(d)].
- 1.2.4 Emissions of particulate matter (PM) will not exceed 0.75 tons per year [WAC 173-400-110(5)(d)].
- 1.2.5 Emissions of Toxic Air Pollutants (TAPs), as identified within Table 1, will not exceed SQERs of WAC 173-460-080(2)(e).

Table 1: Project TAP SQERs

Pollutant	Chemical Abstracts Service Registry Number	TAP Class	SQER	
			Lb/yr	Lb/hr
Benzene	71-43-2	A	20	
Toluene	108-88-3	B		5

¹ The terms “acceleration” and “lugging” shall be defined as implemented in 40 CFR §86.884-7(2) and (3).

² **AP 42**, Fifth Edition, *Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources*, <http://www.epa.gov/ttn/chief/ap42/index.html>

Table 1: Project TAP SQERs

Pollutant	Chemical Abstracts Service Registry Number	TAP Class	SQER	
			Lb/yr	Lb/hr
Xylene	1330-20-7	B		5
1,3-Butadiene	106-99-0	A	0.5	
Formaldehyde	50-00-0	A	20	
Acetaldehyde	75-07-0	A	50	
Acrolein	107-02-8	B		0.02

- 1.2.6 Emissions of Polyaromatic Hydrocarbons (PAHs) will not result in ambient concentrations exceeding $4.8E-04 \mu\text{g}/\text{m}^3$ [WAC 173-460-080(3)].
- 1.2.7 Emissions of sulfur dioxide will not exceed two tons per year [WAC 173-400-110(5)(d)].
- 1.2.8 Emission rates of engines installed under this ORDER shall not exceed values identified in Table 2 [40 CFR §60.4205(b) and 40 CFR §89.112].

Table 2: Engine Emission Rate Limitations

Pollutant	Engine Rating	gram/kilowatt-hour (g/kW-hr)	pound/horsepower-hour (lb/HP-hr)
Carbon Monoxide	130≤kW≤560 (174≤HP≤751)	3.5	5.8E-03
Particulate Matter	130≤kW≤560 (174≤HP≤751)	0.2	3.3E-04
Non-methane Hydrocarbons and Nitrogen Oxides	130≤kW≤560 (174≤HP≤751)	4.0	6.6E-03
	kW>560 (HP>751)	6.4	1.1E-02

1.3 Compliance Demonstration

- 1.3.1 Compliance with Approval Condition 1.2.1 will be met by Tier 1 Visible Emissions Survey requirements of the Hanford Air Operating Permit unless otherwise defined. Each engine authorized by this ORDER shall be surveyed for visible emissions during maintenance and readiness testing and emergency-use based upon the following frequency or events.
- 1.3.1.1 During maintenance and readiness testing, a visible emissions survey shall be conducted with each readiness test startup.
- 1.3.1.2 During emergency-use operations exceeding, or anticipated to exceed, eight hours duration, a visible emissions survey shall be conducted daily.
- 1.3.1.3 Visible emissions of each engine shall be determined by procedures detailed in 40 CFR Part 86, Subpart I [40 CFR §86.884 *et seq.*] within 90 days of initial startup and as required by Ecology.
- 1.3.2 Compliance with Approval Conditions 1.2.2, 1.2.3, and 1.2.4 will be demonstrated by:
- 1.3.2.1 Engine Limitation
- 1.3.2.1.1 Installation of engines certified to meet emission limitations of 40 CFR Part 89 [40 CFR §60.4211(c)].

- 1.3.2.1.2 Installation of one engine rated no higher than 450 horsepower (HP) and two engines rated no higher than 900 HP.
- 1.3.2.2 Operational Limitation
 - 1.3.2.2.1 All recommended operation and equipment maintenance provisions supplied by the manufacturer(s) of the engine(s) will be current [40 CFR §60.4211(a)].
 - 1.3.2.2.2 Operational monitoring in accord with Approval Condition 1.5.
 - 1.3.2.2.3 Operational hours of use for each engine under this ORDER, for purposes of maintenance checks and readiness testing shall not exceed 100 hours per year unless approved by the Administrator of the United States Environmental Protection Agency [40 CFR §60.4211(e)].
 - 1.3.2.2.4 Operational hours of use during emergency conditions shall not be limited provided maintenance of records of emergency use defined in Approval Condition 1.6.
- 1.3.3 Compliance with Approval Condition 1.2.5 will be demonstrated by calculation of the sum of TAP emissions from all engines authorized under this ORDER employing air pollutant emission factors of AP 42³, Table 3.3-2, for engines less than 600 HP and AP 42, Table 3.4-3⁴, for engines 600 HP and higher.
- 1.3.4 Compliance with Approval Condition 1.2.6 will be demonstrated by calculation of the sum of PAH TAP emissions from all engines authorized under this ORDER employing PAH air pollutant emission factors of AP 42, Table 3.3-2, for engines less than 600 HP and AP 42, Table 3.4-4, for engines 600 HP and higher. Dispersion analysis shall demonstrate that calculated emissions comply with the standard of Approval Condition 1.2.6.
- 1.3.5 Compliance with Approval Condition 1.2.7 will be demonstrated by use of fuel containing:
 - 1.3.5.1 No greater than 0.05 weight percent sulfur (500 parts per million by weight) from installation to May 30, 2010 [40 CFR §60.4207(a), 40 CFR §80.510(a)].
 - 1.3.5.2 No greater than 0.015 weight percent sulfur (15 parts per million by weight) on and after June 1, 2010 [40 CFR §60.4207(b), 40 CFR §80.510(b)].
- 1.3.6 Compliance with Approval Condition 1.2.8 shall be demonstrated by:
 - 1.3.6.1 Procuring and installing only engines certified to emission standards of 40 CFR §60.4205(b) for the same model year and maximum engine rating [40 CFR §60.4211(c)].
 - 1.3.6.2 Operating and maintaining the stationary compression ignition internal combustion engines and control devices according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer [40 CFR §60.4211(a)].
 - 1.3.6.3 Installing and configuring the engines according to manufacturer specifications [40 CFR §60.4211(c)].
 - 1.3.6.4 Maintaining records of engine certification as detailed in Approval Condition 1.6 [40 CFR §60.4211(c)].

³ AP 42, Fifth Edition, *Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources*, <http://www.epa.gov/ttn/chief/ap42/index.html>

⁴ Table 3.4-3 of AP 42 does not estimate emissions of 1,3-Butadiene for larger engines. An emission factor of zero shall be applied to 1,3-Butadiene for engines 600 HP or larger.

1.4 Manuals

Operations and Maintenance (O&M) manuals for all equipment, procedures, and controls associated with the proposed activities that have the potential to affect emissions to the atmosphere will be followed. Manufacturer's instructions may be referenced but must be adhered consistent with Approval Condition 1.3.6.2. The O&M manuals will be updated to reflect any modifications of the process or operating procedures. Copies of the O&M manuals will be available to Ecology upon request.

1.5 Monitoring

A non-resettable hour meter will be installed and operated on each engine approved under this ORDER [40 CFR §60.4209(a)].

1.6 Recordkeeping

Specific records will be kept on the Hanford Site by the Permittee and made available for inspection by Ecology upon request. The records must be organized in a readily accessible manner and cover a minimum of the most recent 60 month period, except when otherwise specified. The records to be kept must include the following:

1. Visual Emission surveys and tests conducted pursuant to Approval Condition 1.3.1.
2. Manufacturer's engine certifications, required by Approval Conditions 1.3.2.1.1 and 1.3.6.1 will be retained from initial use through the ten year life of the engines [40 CFR §1039.101(g)(1)].
3. Maintenance records for maintenance conducted pursuant to Approval Condition 1.3.2.2.1.
4. Records of cumulative operating hours for each engine, calculated semi-annually, will be retained for a minimum of thirty-six months.
5. Calculations and dispersion analyses prepared pursuant to Approval Conditions 1.3.3 and 1.3.4, calculated semi-annually in concert with cumulative operating hour calculations, will be retained for a minimum of thirty-six months.
6. Diesel fuel quality, pursuant to Approval Condition 1.3.5, shall be documented by annual fuel analysis or vendor documentation of fuel purchases from retail outlet(s) that demonstrate compliance with diesel fuel quality standards of 40 CFR §80.510 for all purchases.
7. Records of emergency use operational duration and the basis of the emergency.

2.0 NOTIFICATIONS AND SUBMITTALS

2.1 Addressing

Any required notifications and reports required under these Approval Conditions must be sent to:

Program Manager
Washington State Department of Ecology
Nuclear Waste Program
3100 Port of Benton Boulevard
Richland, Washington 99354

2.2 Operational Notice

Operational notification will be made within 30 days following initial startup of the engines covered by this ORDER.

2.3 Reporting

Visible emission surveys, when conducted pursuant to Compliance Demonstration Requirement 1.3.1, and demonstrating visible emissions in excess of those allowed under Approval Condition 1.2.1, shall be submitted to Ecology in accordance with WAC 173-400-107 with an assessment of the cause of visible emissions and a report of the actions taken to prevent further excess visible emissions.

Visible emissions testing required under Approval Condition 1.3.1.3, shall be reported within 45 days after completing on-site testing.

Emissions of criteria and toxic pollutants from engines approved under this ORDER with limitations established within Approval Conditions 1.2.2 through 1.2.7 will be compiled into estimates and reported annually, beginning as part of the calendar year 2007 inventory of airborne emissions, pursuant to WAC 173-400-105.

3.0 APPROVAL ORDER AND RESTRICTIONS

This Authorization may be modified, suspended, or revoked in whole, or in part, for cause including, but not limited to, the following:

1. Violating any terms or conditions of this authorization.
2. Obtaining this authorization by misrepresentation, or failure to fully disclose all relevant facts.

The provisions of this authorization are severable. If any provision or application of any provisions of this authorization is held invalid, the application of such provision to their circumstances, and the remainder of this authorization, will not be affected thereby.

Any person aggrieved by this ORDER may obtain review thereof by application, within 30 days of receipt of this ORDER, to:

Pollution Control Hearings Board
P.O. Box 40903
Olympia, Washington 98504-0903

Concurrently, copies of the application must be sent to:

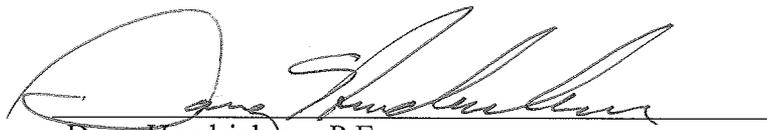
Washington State Department of Ecology
P. O. Box 47600
Olympia, Washington 98504-7600

Washington State Department of Ecology
3100 Port of Benton Boulevard
Richland, Washington 99354

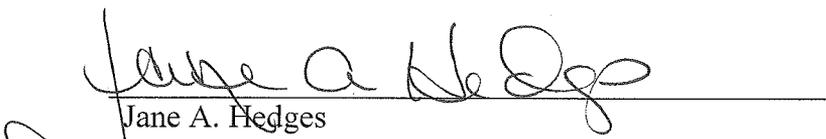
These procedures are consistent with the provisions of Chapter 43.21B RCW, and the rules and regulations adopted thereunder.

DATED at Richland, Washington, this 27th day of June 2007.

REVIEWED AND PREPARED BY:


Doug Hendrickson, P.E.

APPROVED BY:


Jane A. Hedges
Program Manager
Nuclear Waste Program
Washington State Department of Ecology

