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TO: Cliff Clark- Energy (509) 376-0306 4/13/93
FROM: Dan Duncan- EPA
Re: RD&D Permit Review:

1. The following comments are from of an initial review of the March 19, 1993 RD&D Permit Application submitted by Energy to EPA. I would like to discuss these comments as well as the RD&D Administrative Record and RD&D Permit Issuance Schedule at the 9:00 am meeting on April 14, 1993 in Richland, Washington. Attached is a DRAFT RD&D Permit Issuance Schedule for your information.

Figure 4-2:

- o Label TT-tk-1 and TT-tk-2 on Figure 4-2.
- o Label pH-lah on Figure 4-2.
- o Label KU-lah, KU-lds, KU-lde on Figure 4-2 (See APP T5B-3.1)
- o Change TT-VI-2 to "TT-vr-2" on Figure 4-2.
- o Change KL-CB to "KL-CB-2" on Receiving Tank, Figure 4-2.
- o Label VV-hepa, VV-dpah, VV-dpal, VV-pal and VV-dpis on Ventilation System on Figure 4-2. (See Maint Table 5B-1)

Figure 4-3

- o Label LK as LS (See Table 5B-1, APP T5B-1.2)
- o Label TI on Feed Pump as "TI-1"
- o Label TI on Perox-pure Module as "TI-2"
- o Label UV-pr on Figure 4-3 (See APP T5B-3.1)

Tables 5B-1 and 5B-2, APP T5B-1.2 thru APP T5B-2.2

- o Add KU-CB-1, KU-CB-2 and KL-CB on APP T5b-1.1, Function, Maintenance Requirement.
- o Verify Exclusion of RO-pi-13 thru 16 on APP T5B-1.2 (See Figure 4-6)
- o Add KU-lah to Figure 4-2 (See APP T5B-2.1)
- o Add pH-lah to Figure 4-2 (See APP T5B-2.2)

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Table 5B-3, APP T5B-3.1

- o KL-cb-1 : Under Item description change "inflatable berm" to "containment berm"
- o Kl-cb: Under Item Description change "inflatable berm" to "containment berm"
- o Verify KU-lde, KU-lds and KU-lah are labeled on Figure 4-2.
- o Verify LL-cb change to LL-cb-1,2 (See Table 4-4) and add to figure for catch basin at LERF
- o Verify PH-ls on Table 5B-3 vs pH-vsl (See Table 4-4)

TABLE 4-4 Control of Critical Parameters

- o LL LERF Trailer load/unload station: Change "inflatable berm" to "containment berm".
- o KU 1706-KE trailer unloading station: Change "inflatable berm" to "containment berm".
- o LF filtration module at LERF: Change "pressure switches" to "pressure indicators".
- o RO Reverse Osmosis Module: Add Pumps P-8, P-9 and P-10 under alarm setpoint and response.
- o PH-vsl verify nomenclature vs. PH-ls

FIGURE 4-11: LERF

- o Add LF-ps-1,2,5,6 and 7: pressure switches.

2. If any additional information is required please contact me on (206) 553-6693.

cc: Jan Fields- WHC FAX (509) 376-2816
Don Flyckt- WHC FAX (509) 372-2403
Bob King- Ecology FAX (206) 459-6859
Cathy Massimino- EPA

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From: DANIEL DUNCAN (DDUNCAN)
To: CLIFF CLARK (DOE-RL), BOB KING (ECOLOGY)
Date: Friday, April 9, 1993
Subject: RD&D Permit Issuance Schedule

Cliff and Bob:

The following is the issuance schedule for the RD&D Permit:

4/8 - 4/14/93 Complete Application Review

4/13/93 Public Involvement Planning Meeting
Conference Call: RD&D Permit

4/15/93 Meeting w/Ecology & Energy: Final Review of Process
Flow Diagram & Administrative Record/Index

4/22/93 Interim Final RD&D DRAFT Permit/ORC Review Complete
AR File & Index Complete

4/30/93 Final DRAFT RD&D Permit
Public Notice to Papers
AR & Fact Sheet Complete: Ready to Mail

5/03/93 DRAFT RD&D Permit, RD&D Application, AR Index,
& Fact Sheets: Mailed to Information Repositories
DRAFT RD&D Permit, RD&D Permit Application, AR
& Fact Sheet: Mailed/Delivered to Ecology.

5/17/93 Public Comment Period Starts

6/16/93 Public Hearing (Tentative/If Requested):
7:00 pm, Hawk Union Building,
Columbia Basin College, Pasco, WA

6/30/93 Public Comment Period Ends (45 Days)

7/30/93 RD&D Response to Comments Complete
RD&D Permit Issued (30 Days)
Joint Signature: EPA & Ecology

8/30/93 RD&D Permit Effective (30 Days)

Dan Phalen (EPA) will have a revised Fact Sheet, Public Notice by 4/14/93.

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DRAFT RESEARCH, DEVELOPMENT, AND DEMONSTRATION
HAZARDOUS WASTE TREATMENT PERMIT
US DEPARTMENT OF ENERGY, RICHLAND OPERATIONS OFFICE
EPA I.D. NO; WA 789000 8967

DRAFT

Purpose

The United States Environmental Protection Agency (EPA) and the Washington State Department of Ecology (Ecology) are seeking public comment on a proposed Research, Development and Demonstration Permit for the United States Department of Energy-Richland Field Office and Westinghouse Hanford Company (the Permittees). EPA and Ecology have made a tentative determination to issue a joint permit under the authority of 40 CFR Section 270.65 and WAC 173-303.

The purpose of the Permit is to allow for the initial operational test for the 242-A Evaporator/Purex Plant Condensate Treatment Facility. The permit is temporary in duration and limits quantities of hazardous mixed waste to be treated. (Mixed waste is defined as containing radioactive and hazardous constituents.) The Permit also includes stringent terms to protect public health and the environment.

The forty-five (45) day public comment period will begin on May 17, 1993 and will close on June 30, 1993.

Comments on the draft permit or a request that a public hearing be held should be submitted in writing to:

Daniel Duncan
Hanford RCRA Program Manager
US Environmental Protection Agency, Region 10, HW-106
1200 Sixth Avenue
Seattle, Washington 98101

or to

Toby Michelena
Nuclear and Mixed Waste Program, Section Supervisor
Washington State Department of Ecology
Post Office Box 47600
Olympia, Washington, 98504-47600

Comments should include all reasonably available references, factual grounds and supporting material.

A Public Hearing will be held:

7:00 PM
Wednesday, June, 16, 1993

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Hawk Union Building
Columbia Basin College
2600 North 20th Street
Pasco, Washington
(509) 547-0511

Prior to issuing the permit, EPA and Ecology will consider all written comments received during the public comment period, any oral or written statements received during the public hearing, the requirements of the hazardous waste regulations of 40 CFR Parts 124, 260-265, and 270, and the Agency's and State's permitting policies under WAC 173-303.

When EPA and Ecology make the final decision to issue or deny the permit, notice will be given to the applicant and each person who has submitted written comments or requested notice of the final decision. If no comments are requested a change in the draft permit, the final permit shall become effective immediately upon issuance.

* * * * *

This fact sheet has been developed jointly by EPA, Region 10, and Ecology in accordance with the Resource Conservation and Recovery Act (RCRA) and the requirements of 40 CFR § 124.8.

Overview

The treatment process which would be developed under this permit is a key element of the overall treatment system being developed to reduce the volume of mixed waste in as many as 200 underground storage tanks at Hanford's tank farms. The safety and cleanup of these tanks has been a major public concern for some time.

Liquids from the underground tanks contain mixed waste: water and hazardous substances including some low-level radioactive materials. The liquids are pumped from the underground tanks into Evaporator 242-A where water is removed by condensation within the evaporator, thus separating the water from the suspended solids in the liquid. The resulting water is contaminated with low level radionuclides and hazardous substances resulting in a mixed waste stream. Currently, this waste water is discharged in a large pond-like impoundment.

Under the Permit, the Permittees would use existing technologies to demonstrate a mixed waste treatment process for this mixed waste stream of water. The Permit is temporary and limits the quantities of mixed waste to be treated.

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The Permit includes stringent terms to protect public health and the environment. Filters are designed to prevent any contamination from being released into the atmosphere. It is possible that the treated water may still contain some contaminants. The treated water resulting from the operation will be returned to the holding pond. The final disposal of the treated water will be addressed separately from this permit.

This RD&D project is a key step in the design of a full scale treatment facility. The permitted RD&D activity would take place at two locations within the Hanford facility and is a critical step in the design of the full scale 242-A Evaporator/PUREX Plant Process Condensate Treatment Facility. In addition, this RD&D project will provide data to evaluate a petition for the delisting of the effluent from the 242-A evaporator under RCRA authority. This Research Demonstration and Development project is identified as milestone M 17-14 in the Hanford Federal Facility Agreement and Consent Order.

Facility Description:

This RD&D permit includes two areas within the Hanford Facility located in Richland, Washington, at (1) the Engineering and (2) the Environmental Demonstration Laboratory, Building 1706-KE and at the Liquid Effluent Retention Facility.

The Permittees will demonstrate a waste treatment process to decontaminate 242-A Evaporator Condensate Waste. This is a mixed waste containing both radioactive and dangerous materials (organic and inorganic contaminants as suspended and dissolved solids). This demonstration will utilize existing technology through pilot-scale treatability testing on pH adjustment, organic removal (granular activated carbon adsorption and ultraviolet light mediated oxidation), inorganic removal (ion exchange and reverse osmosis), and suspended solids removal (filtration). This demonstration and testing is required to support the design of the 242-A Evaporator/PUREX Plant Process Condensate Treatment Facility.

The purpose of the systems which make up the treatment train will be to treat the process condensate from the 242-A Evaporator. The 242-A Evaporator concentrates various liquid wastes generated on the Hanford Facility. The liquid waste is stored in underground double-shell tanks (DTSSs). The liquid waste in the DSTs will be piped to the 242-A Evaporator, concentrated through evaporation, and returned to the underground double-shelled storage tanks for storage until final disposal. The condensate derived from this evaporation process, called 242-A Evaporator process condensate, is the waste water that will be treated under this RD&D permit. The 242-A Evaporator process condensate will be stored in the

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pond-like Liquid Effluent Retention Facility (LERF) until a treatment unit is operational.

The 242-A Evaporator condensate is a dangerous waste as defined by WAC 173-303 because the waste is derived from listed dangerous waste as defined in WAC-173-303-080 and listed in WAC 173-303-9903 and 9904. This waste also qualifies as a toxic waste under the state of Washington criteria WAC 173-303-010 and 084(5) for toxicity.

The waste is designated dangerous due to the presence of nonhalogenated spent solvents [RCRA Waste Codes (F001, F1002, F003, F1004 and F005) as defined in WAC 173-303-070(2)] and because of the concentration of ammonia [State Waste Code (WT02) under WAC 173-303-084(5)]. Spent 1,1,1 trichloroethane (F001) and methylene chloride (F002) were used as solvents in decontamination activities and were discarded to Double Shelled Tanks (DSTs)

Spent acetone (F003) was generated by laboratories where it was is used to dry glassware and was discarded through drains to DSTs. Spent methyl isobutyl ketone (F003) was generated in the solvent extraction process and was discarded to Single Shell Tanks (SSTs) and eventually transferred to DSTs. Spent cresylic acid (F004) was used as a solvent in decontamination and was discarded to DSTs. Spent methyl ethyl ketone (F005) was generated in past chemical processing operations. The 242-A Evaporator condensate is also designated a state toxic dangerous waste (WT02) due to the concentration of ammonia.

Small levels of radioactive materials are also present in the waste stream, however radionuclides are not specifically regulated under the proposed permit. Radioactive materials in the waste stream are at or below levels requiring regulation under the Department of Energy or EPA.

Authority for Permitting Research and Development Activities

On November 4, 1984, the President signed into law the Hazardous and Solid Waste Amendments of 1984 (HSWA), which amended the Resource Conservation and Recovery Act (RCRA) to allow EPA to permit research, development, and demonstration (RD&D) activities utilizing an innovative and experimental technology or process for which permit standards have not been promulgated.

Key provisions of the law (Section 270.65 of HWSA) include:

an RD&D Permit shall provide for the receipt and treatment of only those types and quantities of mixed waste that are necessary to determine the efficacy and performance capabilities of the

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technology or process and its effects on human health and the environment.

An RD&D permit shall include any conditions that the Agency believes are necessary to protect human health and the environment, and such requirements the Agency may find necessary regarding testing and information with respect to facility operation.

an RD&D permit shall provide for the construction of the RD&D Activity and for its operation for a period not exceeding 365 operating days. Permits may be renewed up to three times, with each renewal not to exceed 365 operating days. (Note: 365 operating days may extend beyond one calendar year)

The permittees are required to submit to EPA and Ecology RD&D Test Plans which include a summary of the experiment, including quantities and types of mixed waste, date(s) of experimental results, and any operational problems encountered.

EPA and Ecology propose to issue a permit for this RD&D project. The wastes will be obtained from the 242-A Evaporator condensate waste stream. The wastes will be stored in the Liquid Effluent Retention Facility and the 1706-KE Facility. The experiments will be conducted at both these locations. The maximum amount of mixed waste to be received and treated under this permit will not exceed 5,000 gallons per week. This RD&D permit will be jointly issued by EPA and Ecology. Ecology will make a final determination.

Requirements and authorities established pursuant to HSWA will be enforced by EPA until the State of Washington receives authorization to administer and enforce such authorities and requirements. Washington has adopted RD&D Permitting, but the state is not yet authorized by EPA to enforce RD&D permits.

This RD&D permit will be jointly issued by EPA and Ecology. During the lifetime of the RD&D Permit the State of Washington may become authorized to issue and enforce Dangerous Waste Research, Development and Demonstration permits. This authorization will not change the conditions of the proposed RD&D permit. Any citations to federal statutes or regulations will become citations to the equivalent state statutes or regulations (references available upon request).

The EPA will maintain its oversight role of the state authorized program and will enforce any condition based on state requirements if EPA judges the state has not adequately enforced the RD&D permit conditions.

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Availability of Documents for Public Review

EPA's administrative record, including all data submitted by the applicant, the fact sheet, the draft permit and maps showing the exact location of the activity, may be reviewed at EPA and Ecology between the hours of 8:30 am and 4:30 pm, Monday through Friday at the following locations:

U.S. Environmental Protection Agency Region 10
Hazardous Waste Division
Region 10, 1200 Sixth Avenue
Seattle, Washington 98101

Washington State Department of Ecology
Nuclear and Mixed Waste Program
719 Slater Kenney Road #200
Lacey, Washington 98503-1138

A copying machine will be provided for public use at a charge of approximately 15 cents per page. Any person desiring further information, copies or portions of the administrative record, or an appointment to review the record should contact either Ms. Diane Richardson, Hazardous Waste Division, EPA at the above address or call 1-800-424-4EPA, or Ms. Marilyn Smith, Washington State Department of Ecology at the above address or call (206) 459-6453.

In addition, copies of the RD&D permit fact sheet, a listing of the RD&D permit administrative record, and the draft RD&D permit are available for public review at the following public information repositories:

University of Washington - Suzzalo Library
Mailstop FM-25 - Government Publications
Seattle, Washington 98915
(206) 543-4664

U.S. Department of Energy- Richland Field Office
Washington State University Library, Tri-Cities
100 Sprout Road, Room 210
Richland, Washington 99352
(509) 376-8583

Portland State University Library
Branfor Price Millar Library
Science and Engineering Floor
Corner of Harrison and Park
Portland, Oregon 97207
(503) 464-4617

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Gonzaga University
Foley Center
E. 502 Boone
Spokane, Washington 99258
(509) 328-4220, ext. 3125

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Detailed References

Permit Organization

The permit is divided into five sections and eleven (11) Attachments, as described below:

<u>Section</u>	<u>Topic</u>
Part I	Standard Conditions:
Part II	General Operating Conditions
Part III	Conditions for Storage in Containers
Part IV	Conditions for Storage in Tanks
Part V	Conditions for Treatment Units

<u>Attachment</u>	<u>Topic</u>
Attachment 1	<u>Facility Description and Maps of Facility Location</u>
Attachment 2	<u>Demonstration Plan</u>
Attachment 3	<u>Waste Analysis Plan</u>
Attachment 4	<u>Process Information</u>
Attachment 5	<u>Security Procedures</u>
Attachment 6	<u>Inspection Plan</u>
Attachment 7	<u>Prevention and Preparedness</u>
Attachment 8	<u>Contingency Plan</u>
Attachment 9	<u>Personnel Training Plan</u>
Attachment 10	<u>Closure Plan</u>
Attachment 11	<u>Quality Assurance Plan</u>

Parts I and II contain conditions which generally apply to all hazardous waste facilities. Certain conditions, described in the following summary, have been deleted, added or revised to fit this unique RD&D project. Parts III, IV and IV pertain specifically to

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the hazardous waste activities at the 1706-KE Facility and the Liquid Effluent Retention Facility in Richland, Washington.

Statutory References

This section provides a summary of the conditions in the draft permit. The column titled "Regulation" provides the regulatory authority for the permit condition specified in the column titled "Permit Condition". For convenience in reviewing the permit application, the column headed "Location in Application" is provided. The permit application cited in this section is the permit application dated 31 October 1991, as amended on 22 April 1992, and 19 March 1993.

**PART I
STANDARD CONDITIONS**

Part I of the draft permit sets forth the standard conditions that are applicable to all hazardous waste management facilities. All citations of the regulations refer to the regulations in Title 40 of the Code of Federal Regulations (40 CFR) and the Washington State Administrative Code (WAC) 173-303.

<u>Permit Condition</u>	<u>Subject</u>	<u>Regulation</u>		
		<u>(40 CFR)</u>	<u>WAC 173-303</u>	
I.A.	Effect of Permit	\$ 270.4	-810(8)	
		\$ 270.30(g)		
I.B.	General Permit Conditions	\$ 270.30	-810(8)	
		\$ 270.12	-040	
I.C.	Permit Actions	\$ 270.30(f)	-810(7)	
		\$ 270.41	-830(3)	
		\$ 270.42	-830(4)	
		\$ 270.43	-830(4)	
		\$ 270.65	-809	
I.C.3	Protection of Human Health and the Environment	\$ 270.65	-809(3)	
I.D.	Severability	\$ 124.16(a)	Standard Practice	
I.E.	Duties and Requirements			
		Duty to Comply	\$ 270.30(a)	-810(2) -804
		Duty to Reapply	\$ 270.10(h) \$ 270.30(b)	-810(3) -810(6)

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	Permit Expiration and Continuation	\$ 270.51	-810(3)
	Need to Halt or Reduce Activity not a Defense	\$ 270.30(c)	-810(4)
	Duty to Mitigate	\$ 270.30(d)	-810(5)
	Proper Operation and Maintenance	\$ 270.30(e)	-810(6)
	Duty to Provide Information	\$ 270.30(h)	-810(9)
	Inspection and Entry	\$ 270.30(i)	-810(10)
	Monitoring and Records	\$ 270.30(j)	-810(11)
I.F.	Monitoring, Records and Reporting	\$ 270.41 \$ 270.42 \$ 270.65 \$ 270.30(1) (6) \$ 264.56 (d) (1) and (j)	-830(3) -830(4) -809
I.G.	Compliance Not Constituting Defense	\$ 270.30(a)	-810(3)
I.H.	Transfer of Permit	\$ 270.40(b) \$ 270.41(b) (2) \$ 270.12(c)	-810(14) (c) -830(2) -290(2)
I.I.	Reports, Notifications, and Submissions to the Administrator and Director	\$ 270.65 \$ 270.30(1) (1)	-830(14) (f) -810(14)
I.J.	Signatory Requirements	\$ 270.11 \$ 270.30(k)	-810(12)
I.K.	Documents to be maintained at the Activity Site	\$ 264.13 \$ 264.16 (d) \$ 264.53(a) \$ 264.112(a) \$ 264.142(d) \$ 264.73 \$ 264.15(b)	-300(5) -330(2) -350(2) -610(3) -620(3) -380(1) -320(2)

PART II
GENERAL OPERATING CONDITIONS

Part II of the draft permit sets forth general operating conditions with which the Permittee must comply. All citations of the regulations refer to the regulations as codified in Title 40 of the Federal Regulations and the Washington State Administrative Code (WAC) 173-303.

<u>Permit Condition</u>	<u>Subject</u>	<u>Regulation (40 CFR) WAC 173-303</u>	<u>Location in Application</u>
II.A.	Design an Operation of RD&D Activity	§ 264.31 -340	Section 1.1 Section 1.5
II.B.	Authorization	§ 264.12(a) -290(2)	Section 1.2
II.C.	Demonstration Plan	§ 270.65(a) -290(2)	Section 2.0
I.D.	General Waste Analysis	§ 264.13(b) § 270.65(b)(2) -806(4)(a)(ii) -300(1)	Section 3.0
II.E.	Security	§ 264.14 -310(1) -310(2)	Section 5.1
II.F.	General Inspection Requirements	§ 264.15(c) § 264.15(d) -320(3) -320(2)	Section 5.2 Appendix 5
II.G.	Training Plan	§ 264.16 -330	Section 7.0
II.H.	Preparedness and Prevention	§ 264.32 § 264.33 § 264.34 § 264.35 § 264.37 -340(1) -340(2) -340(3) -340(4)	Section 6.0 Appendix 6A Appendix 6B Appendix 6C
II.I.	Contingency Plan	§ 264.50-56 -350(3) -360(2) -350(4) -350(5)	Section 6.0

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II.J.	Recordkeeping and Reporting	\$ 264.73 (b) (9) -380(1)	Section 1.6
	Test Plans and Reporting	\$ 270.65 (a) (3)	Section 2.1
II.K.	Closure	\$ 264.111-115 -610(2) -610(3) -830(3) -(4) -610(6) -610(5)	Section 8.0
II.L.	General Requirements for Ignitable, Reactive or Incompatible Waste	\$ 264.17 -630(8)	Section 4.0
II.M.	Equivalent Materials/ Information		

**PART III
CONDITIONS FOR STORAGE IN CONTAINERS**

Part III of the permit sets forth conditions for storage in containers with which the Permittee must comply. All citations of the regulations refer to the regulations as codified in Title 40 of the Code of Federal Regulations (40 CFR) and the Washington State Administrative Code (WAC) 173-303.

<u>Permit Condition</u>	<u>Subject</u>	<u>Regulation (40 CFR) WAC 173-303</u>	<u>Location Application</u>
III.A.	Unit Identification	\$ 264.31 -630	Section 4.1 Section 4.2
III.B.	Waste Identification	\$ 264.13 -300	Section 3.0
III.C.	Container Management	\$ 264.173 -630(5)	Section 4.3
III.D.	Containment	\$ 264.17 -630(7)	Section 4.3

**PART IV
CONDITIONS FOR STORAGE IN TANKS**

Part IV of the permit sets forth conditions for storage in tanks with which the Permittee must comply. All citations for the regulations refer to the regulations as codified in Title

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40 of the Federal Regulations (40 CFR) and the Washington State Administrative Code (WAC) 173-303.

<u>Permit Condition</u>	<u>Subject</u>	<u>Regulation (40 CFR) WAC 173-303</u>	<u>Location in Application</u>
IV.A.	Unit Identification	§ 264.31 -640(1)	Section 4.0
IV.B.	Waste Identification	§ 264.13 -300	Section 3.0
IV.C.	Design and Construction	§ 264.191 § 270.11(d) § 294.192(a) § 264.192(b) § 264.192(d) § 264.196 -810 -640(3) (a) -640(2) (c) -640(2) (e) -640(7)	Section 4.0
IV.D.	Tank Management	§ 270.65(a) § 264.192(b) § 264.198-199 -640(4) -640(5)	Section 4.1.2

**PART V
CONDITIONS FOR TREATMENT UNITS**

Part V of the draft permit sets forth conditions for the RD&D experiment with which the Permittee must comply. All citations of the regulations refer to the regulations as codified in Title 40 of the Federal Code of Regulations (40 CFR) and the Washington State Administrative Code (WAC) 173-303.

<u>Permit Condition</u>	<u>Subject</u>	<u>Regulation (40 CFR) WAC 173-303</u>	<u>Location in Application</u>
V.A.	Unit Identification	§ 264.31 -600	Section 4.1 Section 4.2 Figures 4-1 through 4-15
V.B.	Waste Identification	§ 265.13 -300	Section 4.1 Section 4.2
V.C.	Design and Construction	§ 264.191 § 270.11(d) § 270.65	Section 4.0

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V.D.

Treatment Unit
Management

§ 270.65
(a) (1)

Section 4.1
Section 4.2
Section 4.3

V.E.

Operating
Conditions

§ 270.65 Section 4.1.5
(a) (1)

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United States Environmental Protection Agency (EPA)
and
Washington State Department of Ecology (Ecology)

PUBLIC NOTICE AND OPPORTUNITY TO COMMENT

DRAFT RESEARCH, DEVELOPMENT, AND DEMONSTRATION
HAZARDOUS WASTE TREATMENT PERMIT
US DEPARTMENT OF ENERGY, RICHLAND OPERATIONS OFFICE
EPA I.D. NO; WA 789000 8967

DRAFT

Purpose:

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Public Participation:

A forty-five (45) day public comment period will begin on May 17, 1993 and will close on June 30, 1993.

Comments on the draft permit or a request that a public hearing be held should be submitted in writing to:

9 3 1 2 9 1 6 0 8 3 1

Daniel Duncan
Hanford RCRA Program Manager
US Environmental Protection Agency, Region 10, HW-106
1200 Sixth Avenue
Seattle, Washington 98101

or to

Toby Michelena
Nuclear and Mixed Waste Program, Section Supervisor
Washington State Department of Ecology
Post Office Box 47600
Olympia, Washington, 98504-47600

Comments should include all reasonably available references,
factual grounds and supporting material.

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Hazardous Waste Division
Region 10, 1200 Sixth Avenue
Seattle, Washington 98101

Washington State Department of Ecology
Nuclear and Mixed Waste Program
719 Slater Kenney Road #200
Lacey, Washington 98503-1138

In addition, copies of the RD&D permit fact sheet, a listing of
the RD&D permit administrative record, and the draft RD&D permit
are available for public review at the following public
information repositories:

93129360832

University of Washington - Suzzalo Library
Mailstop FM-25 - Government Publications
Seattle, Washington 98915
(206) 543-4664

U.S. Department of Energy- Richland Field Office
Washington State University Library, Tri-Cities
100 Sprout Road, Room 210
Richland, Washington 99352
(509) 376-8583

Portland State University
Branfor Price Millar Library
Science and Engineering Floor
Corner of Harrison and Park
Portland, Oregon 97207
(503) 464-4617

Gonzaga University
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Spokane, Washington 99258
(509) 328-4220, ext. 3125

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HAZARDOUS WASTE DIVISION
1200 SIXTH AVENUE
SEATTLE, WA 98101

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FTS: 8+ (206) 553-8283

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