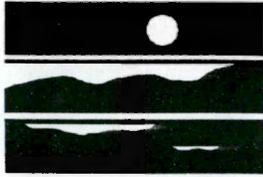


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WASHINGTON STATE
DEPARTMENT OF
E C O L O G Y

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Permit No. ST 4508

Issuance Date: MONTH XX, 1997
Effective Date: MONTH XX, 1997
Expiration Date: MONTH XX, 2002

STATE WASTE DISCHARGE PERMIT

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
KENNEWICK, WA 99336-6018

In compliance with the provisions of the
State of Washington Water Pollution Control Law
Chapter 90.48 Revised Code of Washington, as amended
and the Federal Water Pollution Control Act
(The Clean Water Act)
Title 33 United States Code, Section 1251 et seq.,
authorizes



U.S. Department of Energy
Richland Operations Office
P.O. Box 550
Richland, WA 99352

to discharge wastewater in accordance with the special and general conditions which follow.

Plant Location:
Hydrotest, Maintenance, and
Construction locations on the
Hanford Site, Richland, Washington

Discharge Location:
Hanford Site, Richland, Washington
(Only areas controlled by and discharges
of the U.S. Department of Energy)

SIC Code: 9999

Mike Wilson
Program Manager
Nuclear Waste Program
Department of Ecology

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SUMMARY OF SCHEDULED PERMIT REPORT SUBMITTALS

Permit Section	Submittal	Frequency	First Submittal Date
S5.A.	Draft Pollution Prevention and Best Management Practices Plan	1/permit cycle	180 days after effective date of permit
S5.A.	Final Pollution Prevention and Best Management Practices Plan	1/permit cycle	60 days after receiving Ecology comments on the draft Plan
S5.C.	Revisions to Pollution Prevention and Best Management Practices Plan	Upon Ecology request or voluntarily	Within 60 days of receiving a written request from Ecology or 30 days prior to desired implementation
S6.	Log of significant discharges	1/calendar year	February 15th of each year
S7.	Request for case by case additional permit coverage	As needed for rare cases where the flow will exceed permit condition S1.B.2.	At least 10 work days prior to desired discharge date
G5.	Application for permit renewal	1/permit cycle	At least 180 days before permit expiration
G11.	Noncompliance notification written report	As needed	Within 30 days (or sooner if requested by Ecology) upon discovery of noncompliance

SPECIAL CONDITIONS

S1. PERMIT COVERAGE

A. Types of Activities Covered

This categorical state waste discharge permit is designed to cover the wastewater discharges from the following activities of the U.S. Department of Energy-Richland Operations Office (Permittee) on the Hanford Site:

1. Hydrotesting discharges, which include hydrotesting of a system or component and development testing.
2. Maintenance discharges, which include drainage and flushing activities.
3. Construction discharges, which include concrete curing and pressure washing activities.

B. Conditions on Activities Covered

To be covered by this permit, each hydrotest, maintenance, and construction discharge must meet the following conditions, or be covered by Special Condition S7:

1. Each discharge must be less than 10 gallons per minute averaged annually. Annual average flow is calculated for each discharge as total gallons discharged in a calendar year, divided by the number of minutes in that year.
2. Each discharge must be less than 150 gallons per minute instantaneously.
3. Each discharge must meet WAC 173-200 Ground Water Quality Criteria (GWQC) unless the discharge is expected to have a contaminant that exceeds the GWQC solely because the source water has a contaminant that exceeds one or more of the GWQC. Also, discharges that exceed the GWQC at the effluent, but are prevented from impacting ground water quality, would be covered by this permit.

S2. DISCHARGE LIMITATIONS

All discharges and activities authorized by this permit shall be consistent with the terms and conditions of this permit. The discharge of any pollutant more frequently than, or at a

concentration in excess of, that authorized by this permit shall constitute a violation of the terms and conditions of this permit.

Beginning on the effective date and lasting through the expiration date of this permit, the Permittee is authorized to discharge to ground via infiltration, wastewater from hydrotest, maintenance, and construction operations on the Hanford Site, subject to the following limitations:

- A. The flow total of all discharges covered by this permit shall not exceed the maximum daily flow of 2,000,000 gallons. This condition will be considered to be met as long as the flow total of all measured significant discharges (as defined in Special Condition S6) is below 1,500,000 gallons per day.
- B. All discharges shall follow appropriate pollution prevention and Best Management Practices (BMPs) that are described in this permit or in required permit submittals. BMPs in required permit submittals are not required to be followed until the submittal is approved by Ecology. No sampling and analysis of the discharges is required as long as the proper pollution prevention and BMPs are followed.
- C. Contaminants in all discharges shall be below either the GWQC levels or shall be below 110% of the contaminant levels in the designated source water, unless discharge BMPs prevent impacts to ground water quality. Compliance with BMPs for a discharge is considered appropriate demonstration of compliance of this condition. Compliance with this condition may also be confirmed during compliance inspections by the use of sampling and analysis.

S3. SOURCE WATER LIMITATIONS

The only allowed source waters to be used by hydrotest, maintenance, and construction activities are raw Columbia River water, potable water (treated Columbia River water or groundwater), or demineralized water (treated potable water). The State Waste Discharge Permit Application for Hydrotest, Maintenance, and Construction Discharges (DOE/RL-95-93, Rev. 0) describes the quality of these source waters and lists potential contaminants contained in each source water. No sampling and analysis of the source water is required by this permit, however routine and effective operation of the potable water plants require monitoring of the source waters. If new contaminants or levels of previously identified contaminants are detected at or above the GWQC, or if the level of a contaminant increases by more than 10% for any contaminant in a source water, then the Permittee shall notify Ecology, and Ecology will evaluate if the water should still be used as source water.

S4. POLLUTION PREVENTION AND BMPs FOR ALL DISCHARGES

All hydrotesting, maintenance, and construction discharges covered by this permit shall implement the following minimum BMPs where appropriate:

- A. No discharge shall be allowed within a surface contaminated area (areas with dangerous waste and/or radioactive contaminants).
- B. No discharge shall be allowed within 300 feet horizontal radius of a known active or inactive crib, ditch, or trench used for disposal of dangerous and/or radioactive contaminants.
- C. No discharge shall be allowed to affect an ecologically sensitive area.
- D. Reasonable efforts shall be taken to prevent ponding due to discharge flow rates above the expected soil infiltration capacity.
- E. There shall be no discharges or runoff of wastewater to any surface waters of the state or to any land not owned by or under control of the Permittee.
- F. If the discharge meets the conditions of State Waste Discharge Permit ST 4502 for the 200 Area Treated Effluent Disposal Facility (TEDF), and the discharge is near a connection to the TEDF collection system, then all reasonable attempts should be made to discharge to the TEDF.
- G. Efforts should be made to recycle, store, and reuse all water.

S5. POLLUTION PREVENTION AND BMPs PLAN REQUIREMENTS**A. Plan Elements**

The Permittee shall develop and implement a pollution prevention and BMPs plan for all discharges covered by this permit. This plan shall provide guidance on appropriate handling of hydrotest, maintenance, and construction discharges on the Hanford Site and the plan shall incorporate all the terms and conditions of this permit. The plan should be usable as a training document for all employees responsible for hydrotest, maintenance and construction discharges. Recommendations and guidance for this plan may be taken from appropriate Ecology publications, industrial association publications (e.g., guidance from the Associated General Contractors of Washington), or other sources, with additional Hanford Site specific details added. For discharges where the

effluent is expected to exceed the GWQC or 110% of the contaminant level in the source water, the plan must specify how impacts to ground water quality will be prevented. Separate plans for each category covered by this permit (hydrotest, maintenance, and construction discharges) would also be acceptable.

The plan or plans should be broken down by categories and sub-categories so that each individual discharge covered by this permit can point to a specific section of the plan(s) for the appropriate pollution prevention and BMPs for the particular discharge. If an individual discharge cannot point to a specific section of the plan(s) for the appropriate pollution prevention and BMPs, then such a discharge is not covered by this permit until an appropriate section is added to the plan(s).

A draft of this plan(s) is due to Ecology within 180 days after the effective date of this permit. The final plan(s) will be due to Ecology 60 days after receiving Ecology written comments on the draft plan(s).

B. Plan Compliance

Upon completion and implementation of a pollution prevention and BMPs plan, any activity covered by this categorical permit must, at all times, comply with the terms and conditions of the pollution prevention and BMPs plan. The discharge of any wastewater not done as specified in the pollution prevention and BMPs plan shall constitute a violation of the terms and conditions of this permit. Every discharge shall have an assigned responsible person on site who is familiar with the section of the pollution prevention and BMPs plan that applies to the discharge. This responsible person should confirm compliance with the plan and be prepared to answer any Ecology questions in the event of an inspection.

C. Plan Revisions

If Ecology determines the need for revisions to the pollution prevention and BMPs plan, Ecology will send a written request for a revision to the Permittee. The Permittee must then complete the requested revision to the plan within 60 days of receiving the request. The revision will become effective when completed or not more than 60 days after the revision is requested by Ecology.

If the Permittee determines the need for revisions to the pollution prevention and BMPs plan (such as adding a discharge not previously covered by the plan), the Permittee must send a written request to Ecology at least 30 days prior to the desired implementation date of the revision. Ecology may approve, approve with modification, or disapprove the desired revision. If Ecology does not act within 30 days of receiving

the request for revision, the revision will become effective as written by the Permittee in the written request.

S6. MONITORING AND REPORTING REQUIREMENTS

Significant discharges covered by this permit shall be tracked. A significant discharge is any single discharge over 14,500 gallons in a 24 hour period or any single discharge over 50,000 gallons total in a calendar year. These significant discharges will be recorded in a log. Information required to be kept in this log includes type and date of discharge, source water, additives, total volume (gallons), discharge rate (gallons/minute), location, soil loading rate (gallons/minute/square feet), name of assigned responsible person (as described in Special Condition S5.B), and other pertinent information. The log for each calendar year shall be submitted to Ecology by the following February 15th, annually.

S7. ADDITIONAL PERMIT COVERAGE

A. Case by Case Additions

If a planned discharge meets permit Special Conditions S1.A, S1.B.1, and S1.B.3, but fails to meet permit Special Condition S1.B.2, the Permittee may submit to Ecology a written request that the planned discharge be covered under this permit. This request must be submitted at least 10 work days prior to the planned discharge. The request should give the type and expected date of discharge, the source water, additives, total volume, discharge rate, location, soil loading rate, name of assigned responsible person (see S5.B), specific section of the pollution prevention and BMPs plan that applies, reason why discharge should be covered by this permit, and any other pertinent information. If Ecology determines this permit and permit submittals are appropriate to regulate the planned discharge, then Ecology will give authorization to the Permittee to discharge the planned discharge under the terms and conditions of this permit. Some discharges may require a revision to the pollution prevention and BMPs plan before the discharge can be covered by this permit. Discharges over 1,000 gallons per minute or discharges that fall outside of the scope of this permit will not be covered by this permit and will need to apply for an one time/limited duration discharge permit.

B. Blanket Addition for Drinking Water Line Flushing

Drinking water line flushing done on the Hanford Site may exceed Special Condition S1.B.2 of this permit. These flushing activities are still appropriate to be covered by this permit as long as the activities are carried out according to all the other terms and

conditions of this permit and permit submittals. The proper pollution prevention and BMPs, as specified in this permit and permit submittals, should protect the environment from contaminants flushed from these lines. These flushing activities will be allowed to exceed the 150 gallons per minute limit for up to 20 minutes, and at no time will be allowed to exceed 1,000 gallons per minute.

GENERAL CONDITIONS

G1. SIGNATORY REQUIREMENTS

All applications, reports, or information submitted to Ecology shall be signed as follows:

- A. All permit applications shall be signed by either a principal executive officer or ranking elected official.
- B. All reports required by this permit and other information requested by Ecology shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - 1. The authorization is made in writing by the person described above and is submitted to Ecology at the time of authorization, and
 - 2. The authorization specifies either a named individual or any individual occupying a named position.
- C. Changes to authorization. If an authorization under paragraph B.2. above is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization must be submitted to Ecology prior to or together with any reports, information, or applications to be signed by an authorized representative.
- D. Certification. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and/or imprisonment for knowing violations."

G2. RIGHT OF ENTRY

Representatives of Ecology shall have the right to enter at all reasonable times in or upon any property, public or private, for the purpose of inspecting and investigating conditions relating to the pollution or the possible pollution of any waters of the state. Reasonable times shall include normal business hours; hours during which production, treatment, or discharge occurs; or times when Ecology suspects a violation requiring immediate inspection. Representatives of Ecology shall be allowed to have access to, and copy at reasonable cost, any records required to be kept under terms and conditions of the permit; and to sample the discharge, waste treatment processes, or internal waste streams.

G3. PERMIT ACTIONS

This permit shall be subject to modification, suspension, or termination, in whole or in part by Ecology for any of the following causes:

- A. Violation of any permit term or condition;
- B. Obtaining a permit by misrepresentation or failure to disclose all relevant facts;
- C. A material change in quantity or type of waste disposal;
- D. A material change in the condition of the waters of the state; or
- E. Nonpayment of fees assessed pursuant to RCW 90.48.465.

Ecology may also modify this permit, including the schedule of compliance or other conditions, if it determines good and valid cause exists, including promulgation or revisions of regulations or new information.

G4. COMPLIANCE WITH OTHER LAWS AND STATUTES

Nothing in the permit shall be construed as excusing the Permittee from compliance with any applicable federal, state, or local statutes, ordinances, or regulations.

G5. DUTY TO REAPPLY

The Permittee must reapply, for permit renewal, at least 180 days prior to the specified expiration date of this permit.

G6. PERMIT TRANSFER

This permit is automatically transferred to a new owner or operator if:

- A. A written agreement between the old and new owner or operator containing a specific date for transfer of the permit responsibility, coverage, and liability is submitted to Ecology; and
- B. Ecology does not notify the Permittee of the need to modify the permit.

Unless this permit is automatically transferred according to section A. above, this permit may be transferred only if it is modified to identify the new Permittee and to incorporate such other requirements as determined necessary by Ecology.

G7. REMOVED SUBSTANCES

Collected screenings, grit, solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall not be resuspended or reintroduced to the effluent stream for discharge.

G8. DISCHARGE VIOLATIONS

The Permittee shall at all times be responsible for continuous compliance with the terms and conditions of this permit. Failure to comply with the terms and conditions of this permit constitutes a violation of RCW 90.48.144. Such violations may result in orders, directives or penalties being issued by Ecology.

G9. PAYMENT OF PERMIT FEES

The Permittee shall pay the required wastewater discharge permit fees assessed in accordance with Chapter 173-224 WAC. Ecology may terminate this permit for nonpayment of fees or late-payment penalties.

G10. RECORD KEEPING REQUIREMENTS

The Permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three years. This period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the Permittee or when requested by the Director of Ecology.

For each measurement or sample taken, the Permittee shall record the following information: (1) the date, exact place, and time of sampling; (2) the dates the analyses were performed; (3) who performed the analyses; (4) the analytical techniques or methods used; (5) the results of the analyses reported to the Method Detection Limit; and (6) the name of the individual who performed the sampling or provided the measurement.

G11. NONCOMPLIANCE NOTIFICATION

In the event the Permittee, upon discovery of the circumstances, is unable to comply with any of the permit terms and conditions due to any cause, the Permittee shall:

- A. Immediately take action to stop, contain, and cleanup unauthorized discharges or otherwise stop the violation, and correct the problem;
- B. Immediately notify Ecology's designated water quality permit coordinator, Kennewick Office at (509) 735-7581 of the failure to comply; and
- C. Submit a detailed written report to Ecology within 30 days, unless requested earlier by Ecology, describing the nature of the violation, corrective action taken and/or planned, planned steps to prevent a recurrence, and any other pertinent information.

Compliance with these requirements does not relieve the Permittee from responsibility to maintain continuous compliance with the terms and conditions of this permit or the resulting liability for failure to comply.

If the Permittee is in compliance with the terms and conditions of this permit, but its activities have been shown to violate the groundwater protection provisions of WAC 173-200, Ecology is electing to precede any civil or criminal penalty with a compliance order or permit modification per the provisions of WAC 173-200-100(5).

G12. PENALTIES FOR VIOLATING PERMIT CONDITIONS

Any person who is found guilty of willfully violating the terms and conditions of this permit shall be deemed guilty of a crime, and upon conviction thereof shall be punished by a fine of up to ten thousand dollars and costs of prosecution, or by imprisonment in the discretion of the court. Each day upon which a willful violation occurs may be deemed a separate and additional violation.

Any person who violates the terms and conditions of a waste discharge permit shall incur, in addition to any other penalty as provided by law, a civil penalty in the amount of up to ten thousand dollars for every such violation. Each and every such violation shall be a separate and distinct offense, and in case of a continuing violation, every day's continuance shall be and be deemed to be a separate and distinct violation.