HANFORD SITE AIR OPERATING PERMIT NO. 00-05-006
STANDARD TERMS AND GENERAL CONDITIONS

CHANGE CONTROL LOG

Change Control Logs ensure that changes to this permit are performed in a methodical, controlled, coordinated, and transparent manner. Each permit file will have its own change control log with a modification history table. The "**Modification Number**" represents Ecology's method for tracking the different versions of the permit. This log will serve as an up to date record of modifications and version history of the permit.

Modification History Table

Modification Date	Modification Number

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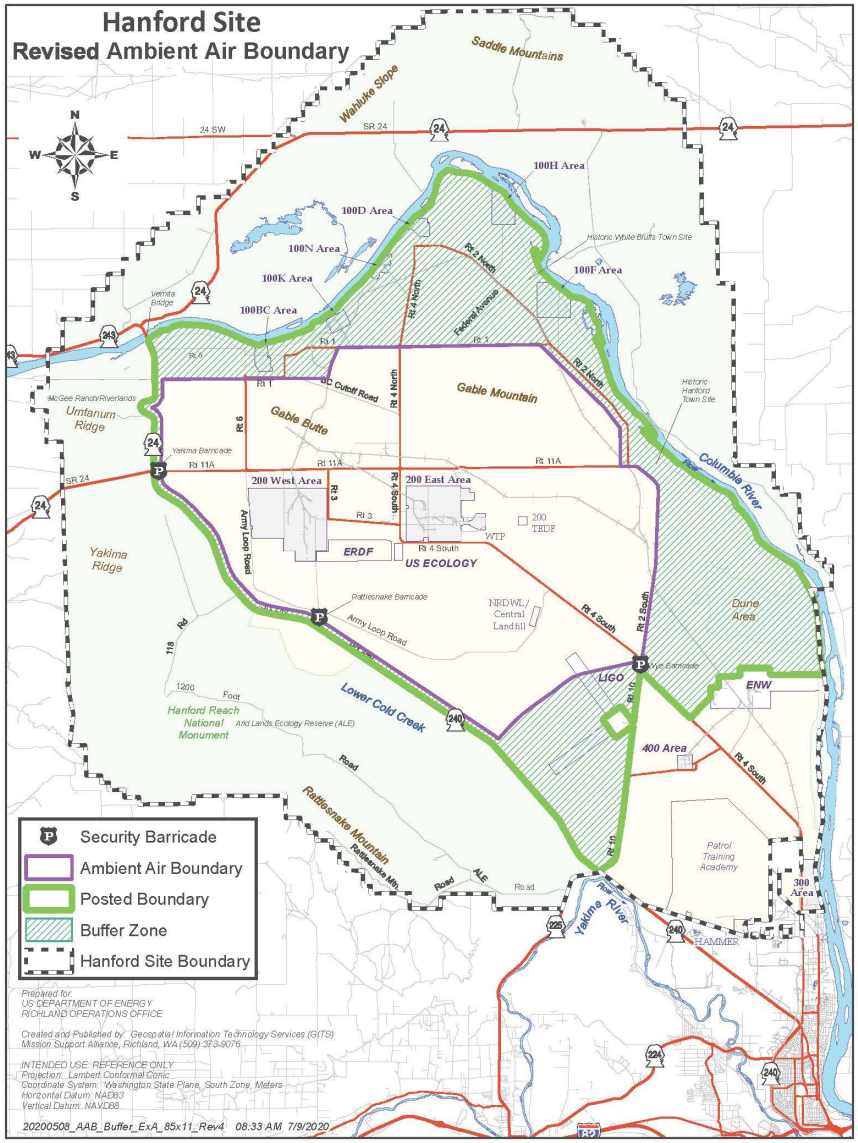
HANFORD SITE AIR OPERATING PERMIT NO. 00-05-006, RENEWAL 4 STANDARD TERMS AND GENERAL CONDITIONS



ATTENTION: The Hanford Site Air Operating Permit is broken into multiple documents and attachments/sections. Portions of this document are enforceable.

This Air Operating Permit is issued by the Washington State Department of Ecology in conjunction with the Washington State Department of Health and the Benton Clean Air Agency

For additional copies of this permit contact:

Washington State Department of Ecology
Nuclear Waste Program
3100 Port of Benton Boulevard
Richland, WA 99354-1670
(509) 372-7950

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For more information or if you have special accommodation needs, please contact the Nuclear Waste Program at (509) 372-7950.

Department of Ecology Headquarters telecommunications device for the deaf (TDD) number is: (360) 407-6006.

LIST OF ABBREVIATIONS FOR THE STANDARD TERMS AND GENERAL CONDITIONS

Ecology is establishing the following abbreviations for common terms used within the Standard Terms and General Conditions.

Whenever possible, the same abbreviations will be used in the other documents which make up this Air Operating Permit. Consistency will not always be possible, due to wide range of sources which establish applicable requirements for the Hanford Site. Please consult the appropriate List of Abbreviations for each document when reviewing.

AOP	Air Operating Permit
BCAA	Benton Clean Air Agency
CFR	Code of Federal Regulations
CO_2	Carbon dioxide
CO_2e	carbon dioxide equivalent
DOE	United States Department of Energy
DOE-HFO	Hanford Field Office
DOE-PNSO	Pacific Northwest Site Office
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
CAA	Clean Air Act, either Federal or Washington State
FF-01	State of Washington Department of Health Radioactive Air Emissions License
GHG	Greenhouse gas
HAP	Hazardous air pollutant
Health	Washington State Department of Health
HEPA	High-efficiency particulate air (filter)
mrem	millirem
MSW	Municipal solid waste
MVAC	Motor vehicle air conditioner
NAICS	North American Industrial Classification System
NESHAP	40 CFR Part 61 and 63, National Emission Standard for Hazardous Air Pollutants
NOC	Notice of Construction
NRC	U.S. Nuclear Regulatory Commission
PCHB	Pollution Control Hearings Board
PM	Particulate Matter
PM_{10}	PM with an aerodynamic diameter of 10 microns or less
$PM_{2.5}$	PM with an aerodynamic diameter of 2.5 microns or less
PNNL	Pacific Northwest National Laboratory
RACM	Regulated asbestos containing material
RACT	Reasonably Available Control Technology
RCW	Revised Code of Washington

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SIC	Standard Industrial Classification
SIP	State Implementation Plan, as approved by EPA in 40 CFR Part 52
Statement	Statement of Basis
STGC	Standard Terms and General Conditions
U.S.C.	United States Code
WAC	Washington Administrative Code

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AIR OPERATING PERMIT
STANDARD TERMS AND GENERAL CONDITIONS

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1.0 RESERVED

2.0 GENERAL HANFORD SITE INFOMATION

The Hanford Site was acquired by the federal government in 1943 and for many years was dedicated primarily to the production of plutonium for national defense and the management of the resulting waste. With the shutdown of the production facilities in the 1970s and 1980s, missions were redirected to decommission and site cleanup, and diversified to include research and development in the areas of energy, waste management, and environmental restoration. Decommissioned facilities or emission units are those that cannot be operated as is and are not planned to operate again. In the extremely unlikely event that a decommissioned facility or emission unit is reactivated, an applicable requirements assessment must be completed first.

The Hanford Site, located in south central Washington State, occupies about 1,450 square kilometers (approximately 580 square miles) of semi-arid shrub and grasslands just north of the confluence of the Snake and Yakima Rivers with the Columbia River. This land, with restricted public access, provides a buffer for the smaller areas historically used for the production of nuclear materials, waste storage, and waste disposal. The Hanford site is divided into the following five operational areas:

- 100 Area, including 100-B/C, 100-D, 100-DR, 100-F, 100-H, 100-K, and 100-N Areas, which lie along the south shore of the Columbia River in the northern portion.
- 200 Area, including 200 East and 200 West Areas, which lie in the center near the basalt outcrops of Gable Mountain and Gable Butte.
- 300 Area, near the southern border of the Hanford Site.
- 400 Area, between the 300 and 200 Areas.
- 600 Area, land not within the defined boundaries of the other operational areas.

Other areas and facilities that support Hanford Site activities can be found in the nearest cities (i.e., Richland, Kennewick, and Pasco). The facilities in these areas are not considered part of the Hanford Site major source because these areas are not considered contiguous or adjacent to the Hanford Site. These areas include, but are not limited to, the following facilities:

- 700 Area in Richland, i.e., 825 Building.
- Richland Central Area, i.e., Butler Loop facilities and the Hanford Technical Training Center.
- 1100 Area, Stevens Center, Evergreen Facilities, Cold Test Facility, various Pacific Northwest National Laboratory (PNNL)-operated facilities (as specified herein), Benton County Sheriff's Facilities including firing range and training course.

The Hanford Site Air Operating Permit (AOP), hereinafter referred to as 'permit,' specifically excludes facilities that do not meet the criteria for inclusion in a major source subject to the AOP regulation [i.e., Washington Administrative Code (WAC) 173-401-200(19)]; the exclusion criteria are described in the Statement. Examples of facilities excluded at the time of permit renewal are in the following:

- PermaFix Northwest Richland.
- Unitech Services, Inc. (doing business as Unifirst) laundry.
- PNNL operated by Battelle Memorial Institute.
- Energy Northwest Applied Process Engineering Laboratory.
- Laser Interferometer Gravitational-Wave Observatory.
- All Energy Northwest facilities not determined to be a support facility.
- All Port of Benton facilities not determined to be a support facility.

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- US Ecology, Inc. commercial low-level radioactive waste burial site.
- Kaiser Aluminum and Chemical Corporation extrusion press located in an 1100 Area Building.
- Framatome.
- Tri-City and Olympia Railroad, located in an 1100 Area Building.
- Oasis Physical Therapy located at the Stevens Center.
- Montessori School located at the Stevens Center.
- Bulk Vitrification Testing Facility located across from Hammer in Richland.

The Hanford Site is a government facility which may not strictly align with industrial classification systems used for certain regulatory applicability determinations. In accordance with WAC 173-401-510(2)(b), United States Department of Energy (DOE) has provided the following Standard Industrial Classification (SIC) codes as the most relevant for the processes on site:

- 1623 Water, Sewer, Pipeline, COMM & Power Line Construction.
- 8711 Engineering Services.
- 8999 Services, Not Elsewhere Classified.
- 8731 Commercial Physical & Biological Research.
- 4953 Refuse Systems (Includes Waste Treatment and Disposal).
- 1799 Special Trade Contractors, Not Elsewhere Classified.
- 9511 Air and Water Resource and Solid Waste Management.

Previous site analysis has included review for North American Industrial Classification System (NAICS) classification as well. A partial list of previously-identified NAICS codes includes:

- 541715 Research and Development in the Engineering and Life Sciences.
- 562211 Hazardous Waste Treatment and Disposal.
- 562910 Remediation Services.
- 924110 Administration of Air and Water Resource and Solid Waste Management Programs.
- 999999 Unclassified Establishments.

NAICS category 999999 is a placeholder generally used for businesses which have not, or cannot, be classified. When applicability of a requirement is based upon SIC or NAICS codes, Washington State Department of Ecology (Ecology) may assume that the lists above are incomplete and that site operations need to be reviewed for similarity to businesses which are subject before making a determination.

3.0 EMISSION UNITS IDENTIFICATION

Emission units subject to this permit are identified in Attachments 1 through 3.

4.0 PERMIT PROVISOS

4.1 Permit Shield

4.1.1 Compliance with the conditions of this permit must be deemed compliance with those applicable requirements that are specifically included in and identified in the permit as of the date of permit issuance. [WAC 173-401-640(1)]

4.1.2 The permit shield must not apply to any insignificant emissions unit or activity designated under WAC 173-401-530. [WAC 173-401-530(3)]

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4.2 Severability

If any provision of this permit is held to be invalid, all unaffected provisions of the permit must remain in effect and be enforceable. [WAC 173-401-620(2)(h); Revised Code of Washington (RCW) 70A.15.9004 (State-Only)]

4.3 Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege. [WAC 173-401-620(2)(d)]

4.4 Transfer of Ownership or Operation

A change of ownership or operational control of this source must be treated as an administrative permit amendment if no other changes in this permit are necessary and provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee has been submitted to Ecology, Washington State Department of Health (Health), and Benton Clean Air Agency (BCAA). DOE is considered the owner and operator of Hanford and contract changes to contractors to DOE are not considered changes in ownership or operational control. [WAC 173-401-720(1)(d)]

4.5 Emissions Trading

No permit revision must be required under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided in this permit. [WAC 173-401-620(2)(g)]

4.6 Enforceability

All terms and conditions are enforceable by the United States Environmental Protection Agency (EPA) and United States citizens unless specifically designated as not federally enforceable or listed as an inapplicable requirement in Table A-1 (WAC 173-401-625). Any paraphrasing of regulations or other applicable requirements is for the convenience of the reader. The underlying applicable requirement is the enforceable requirement.

4.7 General Obligation – Exclusions

Nothing in this permit alters or affect the following:

a. The provisions of Section 303 of the federal Clean Air Act (CAA) (emergency orders), including the authority of the administrator under that section;
b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the federal CAA;
d. The ability of EPA to obtain information from a source pursuant to Section 114 of the federal CAA; or
e. The ability of Ecology to establish or revise requirements for the use of Reasonably Available Control Technology (RACT) as provided in Chapter 252, Laws of 1993.

[WAC 173-401-640(4)]

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4.8 Reasonably Available Control Technology

Emission standards and other requirements contained in rules or regulatory orders in effect at the time of operating permit issuance or renewal must be considered RACT for purpose of permit issuance or renewal. This does not preclude RACT determinations under Section 8, Chapter 252, Laws of 1993, which must be incorporated into an operating permit as provided in WAC 173-401-730. [WAC 173-401-605(3) and RCW 70A.15.2230 (State-Only)]

4.9 Need to Halt or Reduce Activity Not a Defense

It must not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [WAC 173-401-620(2)(b)]

4.10 Permit Actions

This permit may be modified, revoked, reopened, reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [WAC 173-401-620(2)(c)]

4.11 Permit Continuance

This permit and all terms and conditions contained therein, including any permit shield provided under WAC 173-401-640, will not expire until renewal permit has been issued or denied if a timely and complete application has been submitted. An application shield granted pursuant to WAC 173-401-705(2) will remain in effect until the renewal permit has been issued or denied if a timely and complete application has been submitted. [WAC 173-401-620(2)(j)]

4.12 Permit Appeals

The permittee has the right to appeal this permit or any condition in the permit, including the Attachments or any conditions in the Attachments to the Pollution Control Hearings Board (PCHB) within 30 days of the date of receipt of this permit. The appeal process is governed by RCW 43.21B and WAC 371-08. "Date of receipt" is defined in RCW 43.21B.001(2).

To appeal, the permittee must do the following within 30 days of the date of receipt of this permit:

- File the appeal and a copy of this Order with the PCHB (see addresses below). Filing means actual receipt by the PCHB during regular business hours.
- Serve a copy of the appeal and this Order on Ecology - in paper form - by mail or in person (See addresses below). E-mail is not accepted.

The permittee must also comply with other applicable requirements in RCW 43.21B and WAC 371-08.

Address and location information:

Street Addresses	Mailing Addresses
Department of Ecology Attn: Appeals Processing Desk 300 Desmond Drive SE Lacey, WA 98503	Department of Ecology Attn: Appeals Processing Desk P.O. Box 47608 Olympia, WA 98504-7608
Pollution Control Hearings Board 1111 Israel RD SW STE 301 Tumwater, WA 98501	Pollution Control Hearings Board P.O. Box 40903 Olympia, WA 98504-0903

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This provision for appeal in this section is separate from and additional to any federal rights to petition and review under Section 505(b) of the federal CAA. [WAC 173-401-620(2)(i), RCW 70A.15.2530 (State-Only)]

5.0 PERMIT ADMINISTRATION

5.1 Duty to Comply

The permittee must comply with all conditions of this WAC 173-401 permit. Any permit noncompliance constitutes a violation of RCW 70A.15 and, for federally enforceable provisions, a violation of the federal CAA. Such violations are grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. [WAC 173-401-620(2)(a)]

5.2 Inspection and Entry

On presentation of appropriate credentials and equipped with appropriate personal protective equipment, the permittee must allow Ecology, Health, BCAA, and EPA to perform the following:

a. Enter upon the permittee's premises where a Chapter 401 source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit.
b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit.
c. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit. Health may require a demonstration of as low as RACT at any time. Where controlled access areas will be entered, Ecology, Health, or BCAA will provide a reasonable advance notice and enter in the presence of a facility representative.
d. As authorized by WAC 173-400-105 and the federal CAA, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit.

[WAC 173-401-630(2); RCW 70A.15.2500 (State-Only)]

5.2.1 Ecology may require the permittee to conduct stack and/or ambient air monitoring and report the results to Ecology. [WAC 173-400-105(2)]

5.2.2 Ecology may conduct or require that a test be conducted using approved EPA methods from 40 Code of Federal Regulation (CFR) Parts 51, 60, 61 and 63 or approved procedures contained in *Source Test Manual - Procedures for Compliance Testing*, Ecology Publication 25-02-001 (February 2025). The permittee may be required to provide platform and sampling ports. Ecology must be allowed to obtain a sample from any emissions unit. The permittee will be given the opportunity to observe the sampling and to obtain a sample at the same time. [WAC 173-400-105(4)]

5.2.3 The permittee must respond in writing in a timely manner, or within a time limit set by Health per WAC 246-247-080(11) (State-Only), to inspection results that require a facility to implement corrective actions or any other actions so directed by Health.

5.2.4 Nothing in this condition limits the ability of EPA to inspect or enter the premises of the permittee under Section 114 or other provisions of the federal CAA.

5.2.5 No person may obstruct, hamper, or interfere with any such authorized representative while in the process of carrying out their official duties. In the event the hazards associated with accessibility to a unit require training and/or restrictions or requirements for entry, the permittee must inform Ecology, Health, or BCAA before arrival of those restrictions or requirements. The permittee must be responsible for providing the necessary training, escorts, and support services to allow Ecology, Health, or BCAA to

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inspect. [WAC 173-401-630(2); WAC 246-247-080(1); WAC 246-247-080(9); and RCW 70A.15.2500]

5.3 Permit Fees

The permittee must pay fees as a condition of this permit in accordance with Ecology's fee schedule. Failure to pay fees in a timely fashion will subject the permittee to civil and criminal penalties as described in RCW 70A.15. Ecology may revoke this permit if the permit fees are not paid. [WAC 173-401-620(2)(f); RCW 70A.15.2270(1); and WAC 173-401-930(3)]

Per WAC 246-247-065, fees for all non-AOP airborne emissions of radioactive materials must be submitted in accordance with WAC 246-254-160. The permittee must pay costs associated with direct staff time of the air emissions program in accordance with WAC 246-254-120(1)(e). In any case where the permittee fails to pay a prescribed fee or actual costs incurred during a calendar quarter, Health (1) will not process an application and (2) may suspend or revoke any license or approval involved; or (3) may issue any order with respect to licensed activities as Health determines appropriate or necessary to carry out the provisions of WAC 246-254-170. [WAC 246-247-065 (State-Only); WAC 246-254-120 (1)(e) (State-Only); WAC 246-254-160 (State-Only); and WAC 246-254-170 (State-Only)]

5.4 Duty to Provide Information

The permittee must furnish to Ecology, within a reasonable time, any information that Ecology may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. On request, the permittee also must furnish to Ecology copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the administrator along with a claim of confidentiality. Ecology will maintain confidentiality of such information in accordance with RCW 70A.15.2510. [WAC 173-401-620(2)(e)]

[Note: the permittee must afford access to requested copies of records containing classified information provided the Ecology, Health, or BCAA representatives reviewing the documents possess (1) the appropriate access authorizations (security clearances) for the level and category of information involved, (2) all required formal access approval(s), and (3) a legitimate need-to-know. [WAC 246-247-080(10) (State-Only)]]

5.5 Submittals

When an underlying requirement identified in this permit requires submittals in a specific format or to a specific recipient, the permittee must meet those requirements whether or not they are identified in this permit.

This includes general updates to contact information or mailing addresses and specific rulemaking, such as addition of electronic reporting requirements to federal standards for engines in 40 CFR Parts 60 and 63.

Notwithstanding this, routine submittals associated with this permit must be submitted to the following addresses:

5.5.1 Reports, test data, monitoring data, notifications, and compliance certifications regarding nonradioactive air emissions, except open burning, must be submitted as specified in Attachment 1 to:

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

or other address as directed by Ecology.

5.5.2 Reports, test data, monitoring data, notifications, and compliance certifications regarding radioactive air emissions must be submitted as specified in Attachment 2 to:

Manager
State of Washington Department of Health
The Division of Environmental Health
The Office of Radiation Protection
Radioactive Air Emissions Section
309 Bradley Blvd, Suite 201
Richland, WA 99352

or other address as directed by Health.

5.5.3 Reports, test data, monitoring data, notifications, and compliance certifications required to be sent to the EPA must be submitted to:

ATTN: Air Permits Office AWT-07
U.S. EPA Region 10 Administrator
1200 Sixth Avenue, Suite 900
Seattle, WA 98101-3140

or other address as directed by the EPA.

5.5.4 Reports, notifications, and compliance certifications regarding regulated open burning activities must be submitted as specified in Attachment 3 to:

Control Officer
Benton Clean Air Agency
526 South Steptoe Street
Kennewick, WA 99336

or other address as directed by the BCAA.

5.5.5 Any application form, report, or compliance certification submitted to Ecology, Health, BCAA, or EPA pursuant to this permit must contain certification by a responsible official of truth, accuracy, and completeness. All certifications must state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. (WAC 173-401-520 and WAC 173-401-615)

5.5.6 No person may make any false material statement, representation or certification in any form, notice or report required under RCW 70A.15 or 70A.25, or any ordinance, resolution, regulation, permit or order in force pursuant thereto. [WAC 173-400-105(7)]

5.5.7 No person may render inaccurate any monitoring device or method required under RCW 70A.15 or 70A.25, or any ordinance, resolution, regulation, permit, or order in force pursuant thereto. [WAC 173-400-105(8)]

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5.6 Semiannual Reporting

5.6.1 Semiannual reports must be submitted by September 15th and by March 15th. Reports for January 1st through June 30th and July 1st through December 31st, are due September 15th and March 15th, respectively. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with WAC 173-401-520. [WAC 173-401-615(3)(a)]

5.6.2 Each semiannual report must contain the following information for the applicable reporting period.

a. Reference to reports submitted to the regulatory agencies as required by Section 5.16.

b. Reports of any required monitoring not previously submitted or reference to reports of required monitoring that were submitted previously during the reporting period.

c. A summary of any substantiated air emission complaint investigation(s) required in Table 1.1 of Attachment 1 and issued during the reporting period.

d. A summary for any emission unit which is temporarily shut down in a manner which prevented monitoring or recordkeeping during the reporting period in accordance with Section 5.8.1.2.

e. For all minor radioactive emission units (potential to emit <0.1 mrem to the maximally exposed individual listed in Attachment 2), a general statement confirming that any required monitoring was conducted to verify low emissions during the reporting period for those emission units with specific periodic monitoring required during that period. For all emission units with continuous monitoring, a general statement will be provided stating that required monitoring operated continuously.

f. Emission unit(s) that operated for any part of the calendar year, and were not closed per WAC 246-247-080(6) (reference to FF-01 Attachment 2), will have monitoring data reported in the annual National Emission Standard for Hazardous Air Pollutants (NESHAP report) (Section 5.11). Diffuse and Fugitive minor emission units listed in Attachment 2 are not required to be reported on except annually as a composite portion of the annual NESHAP report.

g. List any new regulatory orders, (e.g., Notice of Construction [NOC]) imposed during the reporting period by Ecology or Health.

[WAC 173-401-615(3)(a)]

5.6.3 Submittal of the information required in Section 5.11 Annual NESHAPs Report will meet the semiannual reporting requirements of non-point and fugitive sources in Table 2-1 of Attachment 2 and point source emission unit specific information (i.e., height, diameter, velocity, temperature, and operational status) of the FF-01 License.

5.7 Recordkeeping

5.7.1 Permittee must keep records of required monitoring information that includes, where applicable, the following:

a. The date, place, and time of sampling or measurements;

b. The date(s) analyses were performed;

c. The company or entity that performed the analyses;

d. The analytical techniques or methods used;

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e. The results of such analyses; and

f. The operating conditions as existing at the time of sampling or measurement.

[WAC 173-401-615(2)(a)]

5.7.2 Permittee must keep records describing changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes. [WAC 173-401-615(2)(b)]

5.7.3 Permittee must retain records of all required monitoring data and support information for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings from continuous monitoring instrumentation, and copies of all reports required by this permit. [WAC 173-401-615(2)(c)]

5.8 Monitoring and Recordkeeping for Emission Units without Continuous Operation

5.8.1 Emission Units with Nonradioactive Air Emission Conditions

The permittee is not required to conduct the monitoring and associated recordkeeping for any emission unit if the emission unit did not operate at any time between required monitoring events (e.g., if the monitoring requires recording pressure drop daily, such readings would not be required on any full day in which the emission unit did not operate), provided the following conditions are met.

5.8.1.1 Permanent shutdown of the emission unit:

a. The permittee makes a contemporaneous record in a log or file maintained on site of the date and time that the emission unit ceased operation and,

b. The permittee must provide written notice to Ecology within a reasonable time.

5.8.1.2 Temporary shutdown of the emission unit:

a. The permittee makes a contemporaneous record in a log or file maintained on site of the date and time that the emission unit ceased operation and the reason why the emission unit did not operate;

b. The permittee makes a contemporaneous record in a log or file maintained on site of the date and time that the emission unit resumed operation; and

c. The periodic report of monitoring required by Section 5.6 and/or the specific permit condition includes a summary of the period or periods when the emission unit did not operate.

5.8.2 Emission Units with Radioactive Air Emission Conditions

The permittee is not required to conduct the monitoring and associated recordkeeping for any emission unit if the emission unit did not operate at any time between required monitoring events (e.g., if the monitoring requires continuous sampling, such readings would not be required on any full day in which the emission unit did not operate), provided the following conditions are met.

Note: These conditions do not apply to temporary radioactive emissions units (e.g., High Efficiency Particulate Air [HEPA] vacuums or portable/temporary radioactive air emission units, etc.).

5.8.2.1 Permanent shut down of an emission unit.

5.8.2.1.1 The permittee must complete the monitoring and associated recordkeeping for the period before the shutdown.

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5.8.2.1.2 The facility must file a report of closure with Health whenever operations producing emissions of radioactive material are permanently ceased at any emission unit (except temporary radioactive emission units) regulated under WAC 246-247. The closure report must indicate whether, despite cessation of operations, there is still a potential for radioactive air emissions and a need for an active or passive ventilation system with emission control and/or monitoring devices. If decommissioning is planned and will constitute a modification, an NOC is required, as applicable, in accordance with WAC 246-247-080(6).

5.9 Annual Air Emission Inventory

The permittee must, upon notification by the director of Ecology, maintain records on the type and quantity of emissions from the source and other information deemed necessary to determine whether the source is in compliance with applicable emission limitations and control measures. When submittal of an emission inventory is requested by Ecology, the emissions inventory must be submitted, in the format specified by Ecology, no later than April 15th of the year following the calendar year for the inventory, unless that date falls upon a weekend. In that case, the deadline is the next business day after April 15th. The annual air emissions inventory report must contain, at a minimum, the following information on air emissions:

a. For emission unit composites, as requested and listed in the permit Attachment 1, Section 1.4 and,
b. For other emission units as directed by Ecology in the format specified by Ecology to the permittee.

[WAC 173-400-105]

5.10 Annual Compliance Certification

5.10.1 Annual compliance certification will be certified consistent with WAC 173-401-520 requirements, and submitted by July 31st for the previous calendar year. The report is to be certified for truth, accuracy, and completeness by a Responsible Official [WAC 173-401-200(29)]. The compliance certification will consist of the following:

a. Each emission unit-specific term or condition listed in Attachments 1, 2, and 3, pursuant to the source's or emission unit's operational portion of the calendar year. Source(s) or emission unit(s) closed per request letter (Ecology) or pursuant to WAC 246-247-080(6) (Health), prior to January 1st of the reporting period will not be included in the calendar year certification report;
b. The compliance status;
c. Whether compliance was continuous, intermittent, or not applicable;
d. The method(s) used to determine the compliance status of the source over the reporting period consistent with WAC 173-401-615(3)(a); and
e. Such other facts as Ecology, Health, or BCAA may require in order to determine the compliance status of the source.

5.10.2 All compliance certifications must be submitted to Ecology, Health, or BCAA with a copy to EPA at the address shown in Section 5.5 by July 31st of the following calendar year.

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5.10.3 Submittal of the information required in Section 5.11 Annual NESHAPs Report will meet the annual compliance certification requirements of diffuse and fugitive sources in Table 2-1 of Attachment 2 and point source emission unit specific information (i.e., height, diameter, velocity, temperature, and operational status) of the FF-01 License.

[WAC 173-401-520, WAC 173-401-630 and WAC 246-247]

5.11 Annual National Emission Standard for Hazardous Air Pollutants Reporting

Submit an annual NESHAPs report that must consist of the annual Radionuclide Air Emissions Report for the Hanford Site required by 40 CFR 61.94.

5.11.1 Compliance with this standard must be determined by calculating the highest effective dose equivalent to any member of the public at any offsite point where there is a residence, school, business, or office. The owners or operators of each facility must submit an annual report to both EPA headquarters and the appropriate regional office by June 30th which includes the results of the monitoring as recorded in DOE's Effluent Information System and the dose calculations required by 40 CFR 61.93(a) for the previous calendar year.

5.11.2 The annual report must include:

a. Name and location of the facility;
b. List of the radioactive materials used at the facility;
c. Descriptions of the handling and processing that the radioactive materials undergo at the facility;
d. List of the stacks or vents or other points where radioactive materials are released to the atmosphere;
e. Description of the effluent controls used on each stack, vent, or other release point and an estimate of the efficiency of each device;
f. Distances from the point(s) of release to the nearest residence, school, business or office and the nearest farms producing vegetables, milk, and meat;
g. Values for all other user supplied input parameters for computer models (e.g., meteorological data) and sources of these data; and
h. Brief description of all construction and modifications completed in the calendar year for which the report is prepared, but for which the requirement to apply for approval to construct or modify was waived under 40 CFR 61.96 and associated documentation developed by DOE to support the waiver. EPA reserves the right to require that DOE send to EPA all the information that normally would be required in an application to construct or modify, following receipt of the description and supporting documentation.

5.11.3 The annual report must also include:

a. Results of emission measurements for those emission units subject only to periodic confirmatory measurements;
b. Wind rose or joint frequency table;
c. Annual average ambient temperature;
d. Annual average emission unit gas temperature, if available;
e. Annual total rainfall;

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f. Annual average emission unit flow rate and total volume of air released during the calendar year; and

g. If additional information is available in another annual report, the permittee may provide a copy of that report along with the listed information requirements.

[WAC 246-247-080(3)(State-Only)]

5.11.4 Each report must be signed and dated by a corporate officer or public official in charge of the facility and contain the following declaration immediately above the signature line:

> 'I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. See 18 U.S.C. 1001.

Note: The certification language (including the 18 U.S.C. 1001) comes directly from 40 CFR 61.94(b)(9) and is an applicable requirement for the annual report. The report is to be submitted to both the EPA as well as the Health.

5.12 Environmental Surveillance Program

Under the requirements of WAC 246-247-075(9), Health may conduct an environmental surveillance program to ensure that radiation doses to the public from emission units are in compliance with applicable standards. Health may require the operator of an emission unit to conduct stack sampling, ambient air monitoring, or other testing as necessary to demonstrate compliance with the standards in 40 CFR 61.92 and WAC 246-247-040.

5.13 Emission Standards and Controls for Sources Emitting Gasoline Vapors

Stage 1 requirements are applicable to 20 eastern Washington counties with new gasoline dispensing facilities greater than 10,000 gallons storage capacity. Hanford is located in one of these 20 eastern counties (Benton County). Total annual throughput records must be maintained for the most recent 2-year period. (WAC 173-491)

5.14 Accidental Release Prevention Requirements

Should this stationary source, as defined in 40 CFR Section 68.3, become subject to the accidental release prevention regulations in Part 68, then the owner or operator must submit a risk management plan by the date specified in Section 68.10 and must certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 CFR Part 70. (40 CFR 68.10).

5.15 Approval Order Terms and Conditions that Become Irrelevant During Permit Term

Nothing herein must be construed to preclude the permittee from making changes consistent with WAC 173-401 that would render existing permit compliance terms and conditions irrelevant.

[WAC 173-401-725(4)(a)]

5.16 Permit Deviation Reporting

The permittee must report deviations from permit conditions, including those attributable to upset conditions as defined below, the probable cause of such deviations, and any corrective actions or preventative measures taken.

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5.16.1 Potential Threats to Human Health or Safety

Deviations, which represent a potential threat to human health or safety, must be reported promptly or as soon as possible. Promptly, as defined here, means as soon as possible following discovery,[1] but in no case later than 12 hours after discovery[1] of a potential threat to human health or safety. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. This notice fulfills the immediate reporting requirements of WAC 173-401-615(3)(b), WAC 173-400-108(1) (State-Only) and WAC 246-247-080(5) (State-Only).

5.16.2 Non-Health or Safety Related Deviations

5.16.2.1 Other deviations from permit requirements or excess emissions must be reported within 30 days after the end of the month during which the deviation is discovered or as part of routine emission monitoring reports. [WAC 173-401-615(3)(b) and WAC 173-400-108(1) (State-Only)]

5.16.2.2 Additional written reports may be required by either Ecology or Health, according to the requirements of WAC 173-400-108 (State-Only) or WAC 246-247-080(5) (State-Only) respectively.

5.16.2.3 Notification must be given to Health within 24 hours (or during the course of the next normal business day) from the time of discovery of the condition or emission that would require notification pursuant to WAC 246-247-080(5) (State-Only). Such notification is required for other than normal operations when a potential or actual release of radionuclides to the air is due to any one or more of the following:

a. Non-routine bypass or failure of required abatement control technology identified in Attachment 2.
b. Non-routine and/or unexpected operational changes resulting in increased emissions.
c. An excess of the dose standard of 10 mrem/year for the Hanford Site.
d. Emission in excess of emission limits or conditions in a regulatory order (e.g., NOC, enforcement actions, or License).

5.16.3 Reserved

5.16.4 Unavoidable Excess Emissions

5.16.4.1 Excess emissions determined to be unavoidable under the procedures and criteria in WAC 173-400-108 and -109 are violations of the applicable statute, rule, permit, or regulatory order, but are not subject to civil penalty under WAC 173-400-230(2).

5.16.4.2 The permittee has the burden of proving to Ecology that excess emissions were unavoidable using the criteria and requirements of WAC 173-400-108 and -109.

5.16.4.3 Excess emissions which represent a potential threat to human health or safety must be reported to Ecology as soon as possible, but not later than 12 hours after the excess emissions were discovered. Other excess emissions must be reported within 30 days after the end of the month during which the event occurred or as part of the routine emission monitoring reports.

[WAC 173-400-108 and -109 (State-Only)]

[1]Qualitative determination that a potential threat to public health or safety exists or existed after an evaluation of pertinent information.

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5.17 Reporting of Greenhouse Gases

If the permittee emits 10,000 metric tons of Greenhouse Gases (GHGs) or more per calendar year on a Carbon dioxide equivalent (CO_2e) basis, as defined under WAC 173-441-020(1)(d) and (k), reporting of GHGs to Ecology is mandatory. [Note: WAC 173-441-030(6) details reporting requirements for facilities which exceed the threshold in 2012 or later years, but subsequently have lower annual CO_2e emissions].

[WAC 173-441 (State-Only)]

Reports must meet the requirements of WAC 173-441-050 and include the annual emissions of the GHGs listed in WAC 173-441-040 from source categories listed in WAC 173-441-120. The annual GHG report must be submitted electronically in accordance with the requirements of WAC 173-441-050 and 173-441-060 and in a format specified by Ecology. The GHG report is due to Ecology by October 31st of each year for the previous calendar year, unless the facility is also required to submit a GHG report to EPA. If required to report to EPA, the GHG report is due to Ecology March 31st.

All requests, notifications, and communications to Ecology pursuant to GHG emissions reporting, other than submittal of the annual GHG report, must be submitted to GHGreporting@ecy.wa.gov or the following address:

Greenhouse Gas Report
Climate Pollution Reduction Program
Department of Ecology
P.O. Box 47600
Olympia, WA 98504-7600

If GHG emissions exceed 10,000 metric tons of GHGs, on a CO_2e basis, the permittee must develop a written GHG monitoring plan in accordance with WAC 173-441-050(6)(e). The permittee must revise the GHG monitoring plan as needed to reflect changes in processes, monitoring instrumentation, and quality assurance procedures; or to improve procedures for the maintenance and repair of monitoring systems to reduce the frequency of monitoring equipment downtime.

5.18 Permit Renewal, Amendment, Modification, and Expiration

Except in the case of emergencies for General Condition 5.20.1, the permittee must use Ecology's online Notification/File Request Form to provide basic information on planned site changes prior to a formal submittal for WAC 173-401-710, -720, -722, -724, or -725. Based upon this, Ecology will assign a permit change number for administrative records and provide copies of current permit files (if needed) to propose edits in redline. For certain AOP change types, an informal review may be required by Ecology prior to formal submittal of the application or notification.

All formal application and notification submittals to Ecology may be submitted to one the following addresses (email preferred):

Physical mail:

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

Email, with appropriate electronic signatures:

NWPMail@ecy.wa.gov

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Where formal submittals for this permit are also required to Health and BCAA, these submittals must be made to the following mailing addresses or an updated address (potentially including email with electronic signature) provided by the appropriate agency:

Physical mail to Health:

Manager
State of Washington, Department of Health
The Division of Environmental Health
The Office of Radiation Protection
Radioactive Air Emissions Section
309 Bradley Blvd, Suite 201
Richland, WA 99352

Physical mail to BCAA:

Control Officer
Benton Clean Air Agency
526 South Steptoe Street
Kennewick, WA 99336

5.18.1 **Duty to supplement or correct application**: The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, must promptly submit such supplementary facts or corrected information. The permittee must also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete renewal application was submitted but prior to release of a draft permit. [WAC 173-401-500(6)]

5.18.2 **Permit Renewal (WAC 173-401-710)**: This permit is issued for a fixed term of five years. The permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least 6 months, but no earlier than 18 months, before the date of permit expiration. On receipt of a timely and complete application for renewal, this source may continue to operate subject to final action by Ecology on the renewal application. This protection ceases to apply if, subsequent to a completeness determination, the applicant fails to submit by the deadline specified in writing by Ecology any additional information identified as being needed to process the renewal application. The application for renewal must provide all information required pursuant to WAC 173-401-510 and must include the current permit number, description of permit revisions and off-permit changes that occurred during the permit term, any applicable requirements that were promulgated and not incorporated into the permit during the permit term and must provide a compliance schedule therefore, and information listed in the renewal application sent to the applicant. [WAC 173-401-610, WAC 173-401-710(1), WAC 246-247-060(6) (State-Only)]

5.18.2.1 The formal submittal for a renewal application must be sent to Ecology, Health, and BCAA. For Ecology, Health, and BCAA communication requirements see General Condition 5.18 above.

5.18.3 **Amendment (WAC 173-401-720)**: The permittee may request correction of typographical errors, updates to contact information for a person identified in this permit, or increases in monitoring/reporting frequency as an administrative amendment. The permittee may implement an associated change immediately upon formal submittal and the WAC 173-401-640 permit shield applies upon Ecology granting the administrative amendment request. [WAC 173-401-720(1), (3), and (4)]

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5.18.3.1 Parallel processing may be used to incorporate terms, conditions, and provisions of an approval order issued for New Source Review, addressed in Section 5.22 below, as an administrative amendment for this permit. Parallel processing must meet procedural and compliance requirements substantially equivalent to those of WAC 173-401 for a modification. [WAC 173-401(1)(e)]

5.18.3.2 The permittee may implement an associated change immediately upon formal submittal and the WAC 173-401-640 permit shield applies upon Ecology granting the request.

5.18.4 **Permit Modification (WAC 173-401-725)**: For AOP changes which cannot be accomplished as administrative amendments, the permittee must submit a formal application for a minor or significant permit modification. As addressed further below, the procedures, public notice requirements, and permit shield applicability vary between the modification types. [WAC 173-401-725(1)]

5.18.4.1 Minor modifications must not:

a. Violate any applicable requirement;

b. Involve significant changes to existing monitoring, reporting, or recordkeeping in the AOP;

c. Require or change a case-by-case determination of an emission limit or standard, source-specific determination for a temporary source of ambient impacts, or a visibility or increment analysis;

d. Establish or change a permit term or condition for which there is no corresponding underlying applicable requirement which has been used to avoid an applicable requirement to which the permittee would otherwise be subject; or,

e. Be a modification under any provision of Title 1 of the federal CAA. [WAC 173-401-725(2)(a)]

5.18.4.2 The permittee may implement changes associated with a minor modification immediately upon formal submittal, but the WAC 173-401-640 permit shield does not apply. [WAC 173-401-725(2)(f)]

5.18.4.3 Group processing of minor modifications is only allowed under the criteria established in WAC 173-401-725(3)(a).

5.18.4.4 Significant permit modification procedures must be used for any modification application that does not qualify as a minor modification. Every significant change in existing monitoring and every relaxation of reporting or recordkeeping in this permit must be considered significant. The permittee is not precluded from making changes rendering existing permit compliance terms and conditions irrelevant, provided they are consistent with WAC 173-401. [WAC 173-401-725(4)(a)]

5.18.4.5 The formal submittal for a minor modification application must be submitted to Ecology with notification forms for EPA and affected states. The formal submittal for a significant modification application must be sent to Ecology, Health, and BCAA. For Ecology, Health, and BCAA communication requirements see General Condition 5.18 above.

5.18.4.6 Where existing conditions of this permit prohibit construction or change in operation associated with a significant modification, the permittee must obtain a permit revision before commencing operation. [WAC 173-401-500(3)(c)]

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5.19 Off-permit Changes (Washington Administrative Code 173-401-724)

5.19.1 The permittee will be allowed to make changes not specifically addressed or prohibited by the permit terms and conditions without requiring a permit revision, provided that the proposed changes do not weaken the enforceability of the existing permit conditions. Any change that is a Title I modification or is a change subject to the acid rain requirements under Title IV of the federal CAA must be submitted as a permit modification.

5.19.2 Each such change must meet all applicable requirements and must not violate any existing permit term or condition.

5.19.3 The permittee must provide contemporaneous formal notice to Ecology and EPA of each such change. For Ecology communication requirements, see Section 5.18 above. Communication for EPA must be in accordance with guidance "Submitting Air Permits to EPA Region 10," EPA Region 10, February 12, 2024, or any updated guidance provided by EPA.

Such written notice must describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change.

5.19.4 The change will not qualify for the permit shield under WAC 173-401-640.

5.19.5 The permittee must keep a record describing changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.

5.19.6 A source making a change under this section must comply with applicable preconstruction review requirements established pursuant to RCW 70A.15.2210.

[WAC 173-401-724]

5.20 Changes Not Requiring Permit Revisions (Washington Administrative Code 173-401-722)

5.20.1 The Permittee is authorized to make the changes described in Sections 5.20.2 and 5.20.3 without a permit revision, providing the following conditions are met:

a. The proposed changes are not Title I modifications;

b. The proposed changes do not result in emissions which exceed those allowable under the permit, whether expressed as a rate of emissions, or in total emissions;

c. The proposed changes do not alter permit terms that are necessary to enforce limitations on emissions from units covered by the permit; and

d. The permittee provides the administrator and Ecology with formal notification at least seven days prior to making the proposed changes except that formal notification of a change made in response to an emergency must be provided as soon as possible after the event. For Ecology communication requirements, see Section 5.18 above. Communication for EPA must be in accordance with guidance "Submitting Air Permits to EPA Region 10," EPA Region 10, February 12, 2024, or any updated guidance provided by EPA.

The permittee and Ecology must attach each notice to their copy of the relevant permit. [WAC 173-401-722(1)(b)]

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5.20.2 The permittee is authorized to make Title V Section 502(b)(10) changes, as defined in WAC 173-401-200(30), without a permit revision. In addition to General Condition 5.20.1, the following also apply:

5.20.2.1 Ecology must concur that the change satisfies EPA guidance on what is allowable under Section 502(b)(10) of the federal CAA, which is Section 4.8 of *Questions and Answers on the Requirements of Operating Permits Program Regulations*, EPA, July 7, 1993, or any updated guidance provided by EPA.

5.20.2.2 For each such change, the written notification required must include a brief description of the change, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

5.20.2.3 The WAC 173-401-640 permit shield will not apply to Section 502(b)(10) changes.

5.20.3 WAC 173-401 sources are authorized to trade increases and decreases in emissions with the Hanford Site, where the Washington State Implementation Plan (SIP) provides for such emissions trades without requiring a permit revision. This provision is available in those cases where the permit does not already provide for such emissions trading. In addition to General Condition 5.20.1, the following also apply:

5.20.3.1 Written notification must include such information as may be required by the provision in the Washington SIP authorizing the emissions trade, including at a minimum, when the proposed change will occur, a description of each such change, any change in emissions, the permit requirements with which the source will comply using the emissions trading provisions of the Washington SIP, and the pollutants emitted subject to the emissions trade. The notice must also refer to the provisions with which the source will comply in the applicable SIP and that provide for the emissions trade.

5.20.3.2 The WAC 173-401-640 permit shield will not extend to any change made for emissions trades. Compliance with the permit requirements that the source will meet using the emissions trade will be determined according to requirements of the applicable SIP authorizing the emissions trade.

5.20.3.3 Upon the request of the permittee, Ecology will issue permits that contain terms and conditions, including all terms required under WAC 173-401-600 through 173-401-630 to determine compliance, allowing for the trading of emissions increases and decreases in the WAC 173-401 source solely for the purpose of complying with a federally enforceable emissions cap that is established in the permit independent of otherwise applicable requirements. The permittee must include in its application proposed replicable procedures and permit terms that ensure the emissions trades are quantifiable and enforceable. The emissions trading provisions must not be applied to any emissions units for which emissions are not quantifiable or for which there are no replicable procedures to enforce the emissions trades.

5.20.3.4 Written notification must state when the change will occur and must describe the changes in emissions that will result and how these increases and decreases in emissions will comply with the terms and conditions of the permit.

5.20.3.5 The WAC 173-401-640 permit shield will extend to terms and conditions that allow such increases and decreases in emissions.

5.20.4 A source making a change under this section must comply with applicable preconstruction review requirements established pursuant to RCW 70A.15.2210.

[WAC 173-401-722]

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5.21 Reopening for Cause (Washington Administrative Code 173-401-730)

5.21.1 This permit will be reopened and revised under any of the following circumstances:

a. Additional applicable requirements become applicable to the permittee when the remaining permit term is three years or more. Such a reopening must be completed no later than 18 months after promulgation of the applicable requirements. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to WAC 173-401-620(2)(j);

b. Ecology, or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or

c. Ecology or the administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

5.21.2 Proceedings to reopen and issue a permit will follow the same procedures as they apply to initial permit issuance and will affect only those parts of the permit for which cause to reopen exists. Such reopening will be made as expeditiously as practicable.

5.21.3 All permit conditions remain in effect until such time as Ecology takes final action. Respective regulatory agencies may take temporary corrective measures in cases of material mistakes or potential negative impact to public health.

5.21.4 Reopenings under this section will not be initiated before a notice of such intent is provided to the permittee at least 30 days in advance of the date that the permit is to be reopened, except that Ecology may provide a shorter time period in the case of an emergency.

[WAC 173-401-730]

5.22 New Source Review

The permittee must not construct new sources or make modifications required to be reviewed under WAC 173-400-110, WAC 173-400-112, WAC 173-400-113, WAC 173-400-114, WAC 173-400-560, WAC 173-400-720, WAC 173-400-820, WAC 173-460, or the equivalent regulations currently in effect, before the permittee:

a. Obtains written final approval from Ecology in accordance with those regulations;

b. Pays the appropriate fees required by WAC 173-455-120; and

c. Pays the cost of supplemental public notice, if conducted, described in WAC 173-400-171.

(WAC 173-400-110; WAC 173-400-171; WAC 173-400-560; WAC 173-400-720; WAC 173-400-820; WAC 173-455-120 [State only]; WAC 173-460 [State only]; and RCW 70A.15.2210 [State only])

5.23 Replacement or Substantial Alteration of Emission Control Technology

Prior to replacing or substantially altering emission control technology subject to review under WAC 173-400-114, the permittee must file for and obtain approval from Ecology according to that regulation. The permittee must pay the appropriate fees required by WAC 173-455-100 prior to commencing construction. (WAC 173-400-114, [State-Only]; WAC 173-455-100 [State-Only], RCW 70A.15.2220 [State-Only])

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5.24 Nonroad Engines

Prior to installation or operation of a nonroad engine, as defined in WAC 173-400-030(56), the permittee must meet the requirements of WAC 173-400-035, as applicable. If the nonroad engine(s) has a cumulative maximum rated brake horsepower greater than 500, a notification of intent to operate will be submitted to Ecology. If the nonroad engine(s) has a cumulative maximum rated brake horsepower greater than 2,000, the permittee will not operate the engine(s) unless Ecology issues written approval to operate. (WAC 173-400-035 [State-Only])

5.25 Asbestos Demolition/Renovation Requirements

5.25.1 The permittee must comply with the applicable requirements of 40 CFR Part 61, Subpart M. This includes annual notifications of predicted amounts of regulated asbestos containing material (RACM) to be disturbed or removed site-wide, notifications for individual demolition or renovation operations, procedures for emission control, and requirements for asbestos-containing waste material generated by a demolition or renovation.

The following conditions identify requirements for these short-term operations related to RACM. For requirements related to long-term or permanent operations, such as those which apply to the Hanford Site Asbestos Landfill (Discharge Point 1.4.35), see Attachment 1, Section 1.4.

5.25.2 Demolition through intentional burning, addressed with specific removal requirements in 40 CFR 61.145(c)(10), is not authorized at the Hanford Site unless a specific, case-by-case authorization is received from Ecology, Health, and the BCAA to ensure that all requirements for radiological air emissions and open burning are satisfied.

5.25.3 For renovations site-wide each calendar year, the permittee must predict the amount of RACM to be removed or disturbed and submit a notification in accordance with 40 CFR 615(a)(4)(iii) if the total exceeds 80 linear meters on pipes, 16 square meters on other facility components, and less than 1 cubic meter off facility components where length or area could not be measured previously.

5.25.4 Prior to any individual demolition or renovation, requirement applicability must be determined by a thorough inspection in accordance with 40 CFR 61.145(a). Materials to be disturbed or removed may be assumed to be RACM as an alternative to testing for asbestos content.

5.25.5 If RACM to be disturbed or removed in any individual demolition or renovation is less than 80 linear meters on pipes, 16 square meters on other facility components, and less than 1 cubic meter off facility components where length or area could not be measured previously:

a. For demolitions, notification in accordance with 40 CFR 61.145(a)(2) is required.
b. For renovations, a notification is only required if the total estimated asbestos predicted in the annual site-wide notification has changed by at least 20 percent. This must be submitted as an update for the annual notification with a brief description of the individual renovation operation(s) which caused the change in the annual estimate. The update must be provided at least one working day prior to the triggering renovation.

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5.25.6 Both notification and emission control requirements of 40 CFR 61.145(b) and (c) apply to individual demolition and renovation operations if RACM to be disturbed or removed is at least 80 linear meters on pipes, 16 square meters on other facility components, and less than 1 cubic meter off facility components where length or area could not be measured previously.

5.25.7 For notifications, the following general requirements apply unless 40 CFR Part 61, Subpart M, has exceptions or more specific requirements:

a. Required information is identified in 40 CFR 61.145(b)(4), except that certain notifications do not require all data elements. The EPA Notification of Demolition and Renovation form is the preferred notification format.

b. Notifications must be submitted to Ecology at least 10 working days prior to the start of on-site stripping, removal, or other asbestos-disturbing activities. Working days are defined as Monday through Friday, including any holidays that fall on these days.

c. Notifications must be updated when the amount of asbestos affected changes by at least 20 percent or the anticipated start date changes.

d. Notifications may be submitted by U.S. Postal Service, commercial delivery service, or hand delivery. Ecology considers a digitally signed notification submitted to NWPMail@ecy.wa.gov to be an acceptable commercial delivery service for this purpose.

e. When the start date for a notification changes, the requirements of 40 CFR 61.145(b)(3)(iv) must be followed.

5.25.8 If asbestos emission control is required, the following general requirements apply, unless 40 CFR Part 61, Subpart M, has exceptions or more specific requirements:

5.25.8.1 Remove all RACM from a facility being demolished or renovated before any activity that would disturb the material or preclude access for later removal unless one of the following applies:

a. It is Category 1 nonfriable asbestos-containing material which is in good condition.

b. It is encased in concrete or similar material and kept adequately wet once exposed.

c. It was inaccessible, not discovered prior to demolition, and unsafe to remove due to demolition. In this case, the RACM and contaminated debris must be treated as asbestos-containing waste material must be kept adequately wet at all times until disposal.

d. It is Category II nonfriable and the probability is low that the materials will become crumbled, pulverized, or reduced to powder during demolition.

5.25.8.2 Ensure RACM and asbestos-containing waste material are adequately wet during stripping, cutting, disjoining, or any other activity which might release asbestos fibers unless one or more of the specific exceptions identified in 40 CFR 61.145(c)(3)-(8) applies. Any recordkeeping (e.g., temperature records in freezing conditions) or labeling requirements (e.g., on leak-tight wrapping for large facility components) must be followed. If wetting is required for asbestos-containing waste materials, they must be kept adequately wet throughout collection and disposal.

5.25.8.3 Carefully lower RACM to the ground or floor without dropping, throwing, sliding, or otherwise damaging the material. RACM removed or stripped more than 50 feet above ground must be transported via leak-tight chutes or containers if it was not removed in units or sections.

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5.25.8.4 At least one individual, trained in accordance with 40 CFR 61.145(c)(8), must be present for activities which handle or disturb RACM.

5.25.9 When asbestos-containing waste material is generated, it must be handled and disposed of at an authorized facility in accordance with 40 CFR 61.150. This includes preventing the discharge of visible emissions to the outside air, disposal as soon as practical, marking of vehicles, and additional requirements if this material is transported off the Hanford Site.

5.26 Federal Chlorofluorocarbon Requirements

5.26.1 The permittee must comply with the following standards for recycling and emissions reductions pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVAC) in Subpart B:

a. Persons conducting maintenance, service, repair, or disposing must follow the prohibitions pursuant to 40 CFR 82.154.

b. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.157.

c. Equipment used during the maintenance, service, repair, or disposal must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

d. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

e. Persons disposing of small appliances, MVACs, and MVAC-like appliances (as that term is defined in 40 CFR 82.152) must comply with recordkeeping requirements pursuant to 40 CFR 82.166.

f. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156.

g. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep servicing records documenting the date and type of service, as well as the quantity of refrigerant added. The owner/operator must keep records of refrigerant purchased and added to such appliances in cases where owners add their own refrigerant, pursuant to 40 CFR 82.166.

5.26.2 If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR 82, *Subpart A - Production and Consumption Controls*.

5.26.3 If the permittee performs service, maintenance, repair, or disposal of air conditioners in MVACs and MVAC-like appliances (as that term is defined in 40 CFR 82.152) that involves refrigerant as defined in 40 CFR 82.32(f), the permittee is subject to the applicable requirements in 40 CFR 82, *Subpart B - Servicing of Motor Vehicle Air Conditioners*.

5.26.4 The permittee will be allowed to switch from any ozone depleting substance to any alternative that is listed in the Significant New Alternative Program promulgated pursuant to 40 CFR 82, *Subpart G - Significant New Alternatives Policy Program*.

(40 CFR 82; RCW 70A.60.070 [State-Only]; RCW 70A.60.080 [State-Only])

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5.27 Federal Site Remediation Requirements

5.27.1 While the Hanford Site meets the applicability criteria identified in 40 CFR 63.7881, the permittee must comply with the requirements of 40 CFR Part 63, Subpart GGGGG. If requirements are limited due to the total quantity of subject Hazardous Air Pollutants (HAPs) in remediation material, annual records must be prepared in accordance with 40 CFR 63.7881(c).

5.27.2 Certain equipment may meet specific exceptions or exemptions from requirements, such as remediation material management units used for cleanup of radioactive mixed waste that is subject to the applicable regulations, directives, and other requirements under the Atomic Energy Act, the Nuclear Waste Policy Act, or the Waste Isolation Pilot Plant Land Withdrawal Act, as identified in 40 CFR 63.7886(c).

5.27.3 Unless exempted, subject remediation activities in the following categories must meet all applicable requirements:

5.27.3.1 For process vents, the affected source is the entire group of process vents associated with the in-situ and ex-situ remediation processes used to remove, destroy, degrade, transform, or immobilize hazardous substances in the remediation material subject to remediation. Examples of such in-situ remediation processes include, but are not limited to, soil vapor extraction and bioremediation processes. Examples of such ex-situ remediation processes include but are not limited to, thermal desorption, bioremediation, and air stripping processes.

5.27.3.2 Remediation Material Management Unit means a tank, surface impoundment, container, oil-water separator, organic-water separator, or transfer system, as defined in 40 CFR 63.7957, and is used at your site to manage remediation material. The affected source is the entire group of remediation material management units used for the site remediations. A tank or container that is also equipped with a vent that serves as a process vent, as defined in 40 CFR 63.7957, is not a remediation material management unit, but instead this unit is considered to be a process vent affected source.

5.27.3.3 For equipment leaks, the affected source is the entire group of equipment components (pumps, valves, etc.) used to manage remediation materials where both of the following are true:

a. The equipment component contains or contacts remediation material having a concentration of total subject HAPs equal to or greater than 10 percent by weight.

b. The equipment component is intended to operate for 300 hours or more during a calendar year in remediation material service, as defined in 40 CFR 63.7957.

5.27.3.4 For pressure relief devices, the affected source is any pressure relief device in remediation material service, as defined in 40 CFR 63.7957. Pressure relief devices meeting the specifications of equipment leaks are also part of an equipment leaks affected source.

5.28 Inapplicable Requirements

Ecology has determined that the Hanford Site, including all sources, is not subject to certain requirements. In accordance with the provisions of WAC 173-401-640(2), inapplicable requirements at the time of permit issuance are shown in Table A-1 of the Standard Terms and General Conditions (STGC) Statement. The permit shield will apply to these inapplicable requirements. [WAC 173-401-640(2)]

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6.0 STATEMENT OF BASIS

The Statement is issued by Ecology as a separate supporting reference document to this permit. This Statement is non-enforceable and sets forth the legal and factual basis for permit conditions. The Statement includes references to the applicable statutory or regulatory provisions, technical supporting information on specific emission units, and clarifications of specific requirements.

[WAC 173-401-700(8)]

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