

AR TARGET SHEET

The following document was too large to scan as one unit, therefore, it has been divided into sections.

EDMC#: 0073854
SECTION: 3 OF 4

DOCUMENT #: DOE/RL-2007-04 Rev0

TITLE: Hanford Site Air Operating Permit
Annual Compliance Certification
Report for Period January 1, 2006
through December 31, 2006

Requirement	Compliance Status	Compliance Determination Method
<p>Records must be readily (promptly) available for this unit. Those records must be maintained onsite, and must be retained for at least five years (WAC 246-247-080(8)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: The NOC serves as a contingency approval for implementation in the event that soil contamination is discovered during WTP excavation activities. Full implementation of the NOC Approval has not occurred because the routine soil surveys have not detected contamination.</p>
<p>The owner/operator must inform the Department of Health whenever the activity associated with this NOC or any of the Conditions or Limitations contained in this approval are completed, abandoned, or otherwise made obsolete.</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: The NOC serves as a contingency approval for implementation in the event that soil contamination is discovered during WTP excavation activities. Full implementation of the NOC Approval has not occurred because the routine soil surveys have not detected contamination.</p>
<p>These Conditions and Limitations must be proceduralized prior to starting the radiological activities by including these requirements within the appropriate activity work packages and associated radiological work permits.</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: The NOC serves as a contingency approval for implementation in the event that soil contamination is discovered during WTP excavation activities. Full implementation of the NOC Approval has not occurred because the routine soil surveys have not detected contamination.</p>
<p>No more than 250 cubic yards of contaminated soils shall be excavated using the radiologically controlled guzzler.</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: The NOC serves as a contingency approval for implementation in the event that soil contamination is discovered during WTP excavation activities. Full implementation of the NOC Approval has not occurred because the routine soil surveys have not detected contamination.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>If the radiologically controlled guzzler is used to excavate soil, these activities shall meet the conditions, controls, monitoring requirements and limitations of the latest approved version of the guzzler NOC. All source term work performed under this activity shall be tracked against the Annual Possession Quantity for this NOC.</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: The NOC serves as a contingency approval for implementation in the event that soil contamination is discovered during WTP excavation activities. Full implementation of the NOC Approval has not occurred because the routine soil surveys have not detected contamination.</p>
<p>Prior to permanent shut down of an emission unit or completion of an activity, the permittee shall file a report of closure with the Department of Health. The report of closure shall include the date of the shutdown and indicate whether, despite cessation of operation, there is still a potential for radioactive air emissions and a need for any active or passive ventilation system with emission control and/or monitoring devices. An emission unit or activity will not be considered permanently shut down or completed until a report of closure is received and approved by Health. Once an emission unit is permanently shut down or an activity is completed, thereby rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the shutdown or completion, to meet any monitoring, record keeping, and reporting requirements which are no longer applicable for that emission unit or activity. All records, relating to the shut down emission unit or completion of an activity, generated while the emission unit or activity was in operation, shall be kept in accordance with (WAC 246-247-080(8)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: The NOC serves as a contingency approval for implementation in the event that soil contamination is discovered during WTP excavation activities. Full implementation of the NOC Approval has not occurred because the routine soil surveys have not detected contamination.</p>

Sitewide HEPA Vac at ETF
WDOH Emission Unit ID : 455
Page in AOP : H-0266

Requirement	Compliance Status	Compliance Determination Method
No active Abatement Controls in the AOP for this certification period.		
No active Monitoring in the AOP for this certification period.		
<p align="center">Permit: AIR 03-1217 Issue Date:12-23-03 Effective Date:01-08-04 Obsolete Date: 07-05-06 NOC: HEPA Filtered Vacuum Radioactive Air Emission Units (HVU) WDOH NOC ID: 410 Date In AOP: 04-11-05 Page in AOP: H-0266</p>		
Requirement	Compliance Status	Compliance Determination Method
The U.S. Department of Energy shall comply with all Conditions and Limitations of this license (WAC 246-247-060(5)).	Continuous	<p>CDM: For this approval order, in compliance with all approval conditions. Comment: none</p>
The total abated emission limit for this Notice of Construction is limited to 2.50E-05 mrem/year to the Maximally Exposed Individual (WAC 246-247-040(5)).	Continuous	<p>CDM: The annual "Radionuclide Air Emissions Report for Hanford Site Calendar Year 2006". Controlled by work packages, procedures, and operations logs maintained in work packages. Comment: The abated dose is limited by tracking and maintaining the possession quantities below permit levels.</p>
<p>This approval applies only to those activities described below. No additional activities or variations on the approved activities that constitute a "modification" to the emission unit, as defined in WAC 246-247-030(16), may be conducted. The use of specified HVUs located and operated on the Hanford Site, and represents establishment of unregistered, portable and temporary, insignificant emission units. For the purposes of estimating (modeling) offsite exposures for this application, all applicable HVU emissions at an individual facility (e.g., B Plant Complex, C Tank Farm, SX Tank Farm, T Plant Complex, 100-K East Basin, 100-K West Basin, 324 Building, 340 Complex, etc.) or activity (e.g., D&D of a building) will be considered as a single emission point for that facility. HVUs are portable cleaners with exhaust flow rates ranging from 50 to 300 cubic feet per minute. The units control radionuclide emissions by providing filtered vacuuming for surfaces that radioactively are contaminated. HVUs fall into two categories of use, those used for the reduction of smearable contamination and those used to reduce fixed contamination. For smearable contamination, the use of HVUs is limited to reduction of contamination on hard surfaces (e.g., concrete, permanently installed metal equipment such as risers, ventilation system components, piping, etc.). Soil matrices are excluded from this NOC. Smearable contamination on these hard surfaces will not exceed limits established in DOE/RL-96-109. These limits, if exceeded, require the affected are to be posted as a high contamination area. The limits are 2,000 disintegrations per minute per 100 square centimeters (dpm/100 cm²) alpha contamination and 100,000 dpm/100 cm² beta/gamma contamination. An exception to these limits is restricted to spot surface contamination areas found during outdoor radiological field surveys, and to</p>	Continuous	<p>CDM: The annual "Portable/Temporary Radioactive Air Emissions Unit and HEPA Filtered Emissions Unit Annual Report for Calendar Year 2006." Work planning, work controls, working documents, and procedures. Comment: The exhaust flow rates of HVUs are in the annual report. Work documents check contamination levels before work begins.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>clean up localized, radiologically contaminated material (e.g., dust, dirt, bird droppings, animal feces, insects, spider webs, tumbleweed fragments, etc.). These types of materials could have beta/gamma contamination levels exceeding 1 million dpm/100 cm², but are very localized (i.e., a few square meters, rather than hundreds of square meters) and could occur in contamination areas, buffer zones, and clean zones. This exception does not apply to areas normally posted as high contamination areas. The second category of use is for reduction of fixed contamination, involving the removal and/or penetration of contaminated surfaces. This category of use includes using HVUs and associated shrouded tools for sanding, stripping, spalling, drilling, and cutting operations. Limits in areas of fixed contamination to ensure compliance will be established before these tools are used.</p>		
<p>The PTE for this project as determined under WAC 246-247-030(21)(a-e) [as specified in the application] is 4.97E-02 mrem/year. Approved are the associated potential release rates (Curies/year) of: Alpha 0 2.29E-04 Liquid/Particulate Solid WAC 246-247-030(21)(a) Alpha release rate for 300 Area, emission calculation will assume Pu-239/240. Alpha 0 3.44E-03 Liquid/Particulate Solid WAC 246-247-030(21)(a) Alpha release rate for 400 East Area, emission calculation will assume Pu-239/240 Alpha 0 4.57E-03 Liquid/Particulate Solid WAC 246-247-030(21)(a) Alpha release rate for 200 East Area, emission calculation will assume Pu-239/240 Alpha 0 7.70E-03 Liquid/Particulate Solid WAC 246-247-030(21)(a) Alpha release rate for 200 West Area, emission calculation will assume Pu-239/240 Alpha 0 3.09E-03 Liquid/Particulate Solid WAC 246-247-030(21)(a) Alpha release rate for 100 Areas, emission calculations will assume Pu-239/240 B/G 0 1.16E-02 Liquid/Particulate Solid WAC 246-247-030(21)(a) B/G release rate for 300 Area, emission calculations will assume Sr-90. B/G 1.74E-01 0 Liquid/Particulate Solid WAC 246-247-030(21)(a) B/G release rate for 400 Area, emission calculations will assume Sr-90. B/G 0 1.56E-01 Liquid/Particulate Solid WAC 246-247-030(21)(a) B/G release rate for 100 Areas, emission calculations will assume Sr-90. B/G 0 2.30E-01 Liquid/Particulate Solid WAC 246-247-030(21)(a) B/G release rate for 200 East Area, emission calculations will assume Sr-90. B/G 0 3.88E-01 Liquid/Particulate Solid WAC 246-247-030(21)(a) B/G release rate for 200 West Area, emission calculations will assume Sr-90. The radioactive isotopes identified for this emission unit are (no quantities specified): Pu 239/240 Sr 90 The potential release rates described in this Condition were used to determine control technologies and monitoring requirements for this approval. DOE must notify the Department of a "modification" to the emission unit, as defined in WAC 246-247-030(16). DOE must notify the Department of any changes to a NESHAP major emission unit when a specific isotope is newly identified as contributing greater than 10% of the potential TEDE to the MEI, or greater than 25% of the TEDE to the MEI after controls. WAC 246-247-110(9). DOE must notify the Department of any changes to potential release rates as required by state or federal regulations including changes that would constitute a significant modification to the Air Operating Permit under WAC 173-401-725(4). Notice will be provided according to the particular regulation under which notification is required. If the applicable regulation(s) does not address manner and type of notification, DOE will provide the Department with advance written notice by letter or electronic mail but not solely by copies of documents.</p>	<p>Continuous</p>	<p>CDM: The annual "Radionuclide Air Emissions Report for Hanford Site Calendar Year 2006". Work planning, work controls, and work procedures. Comment: The potential release rates are determined based on possession quantities recorded in the work documents.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility shall notify the department at least seven calendar days prior to any planned preoperational tests of new or modified emission units that involve emissions control, monitoring, or containment systems of the emission unit(s). The department reserves the right to witness or require preoperational tests involving the emissions control, monitoring, or containment systems of the emissions unit(s) (WAC 246-247-060(4)).</p>	<p>Not Applicable</p>	<p>CDM: Ecology and WDOH have determined that the licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency. Also, no preoperational tests occurred during the compliance period. Comment: none</p>
<p>If this emission unit is not in compliance with the standards in WAC 246-247-040 during construction or operation, the department reserves the right to require modifications to bring it into compliance (WAC 246-247-040-(5) and WAC 246-247-060-(5)).</p>	<p>Not Applicable</p>	<p>CDM: Ecology and WDOH have determined that the licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency. Comment: none</p>
<p>The department may require an ALARACT demonstration at any time (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: Ecology and WDOH have determined that the licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency. Comment: none</p>
<p>The required controls are described as follows: The HVU's must be field tested annually requiring an aerosol test/efficiency test or equivalent pass/fail criteria of 95.95% using an aerosol defined in ASME N510 or approved equivalent. In addition, the HVU's filtration systems are to be tested whenever the configuration is modified and/or the filtration system is opened. A smear of the exhaust port shall be conducted before and after each use of HVU's. If the exhaust port smear is positive, the unit shall be tagged and removed from service.</p>	<p>Continuous</p>	<p>CDM: Filter test results on file with facility. Work planning, work controls, and work procedures. Comment: Smear of exhaust ports are recorded in work procedures.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility must meet all reporting and record keeping requirements of 40 CFR 61, Subpart H (WAC 246-247-080(2)).</p>	<p>Continuous</p>	<p>CDM: Reporting is satisfied by the annual "Radionuclide Air Emissions Report for Hanford Site Calendar Year 2006". Log sheets are documented in annual "Portable/Temporary Radioactive Air Emissions Unit and HEPA Filtered Emissions Unit Annual Report for Calendar Year 2006." Facility specific procedures and records management. Comment: none</p>
<p>The facility shall make available in a timely manner, all documents requested by the department for review. The facility shall allow the department to review documents in advance of an inspection. The facility shall allow access to classified documents by representatives of the department with the appropriate security clearance and a demonstrable need-to-know. (WAC 246-247-080(10)).</p>	<p>Continuous</p>	<p>CDM: Records maintained per facility specific procedures and records management. Comment: none</p>
<p>The facility shall ensure all emissions units are fully accessible to department inspectors. In the event the hazards associated with accessibility to a unit require training and/or restrictions or requirements for entry, the facility owner or operator shall inform the department, prior to arrival, of those restrictions or requirements. The owner or operator shall be responsible for providing the necessary training, escorts, and support services to allow the department to inspect the facility. At a minimum for unannounced inspections, such requirements or restrictions must be told to inspectors to provide an opportunity for inspectors to provide an opportunity for inspectors to meet those requirements prior to the inspection (WAC 246-247-080(9)).</p>	<p>Not Applicable</p>	<p>CDM: Ecology and WDOH have determined that the licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency. Comment: none</p>
<p>The department retains the right to conduct stack sampling, environmental monitoring or other testing around this unit to assure compliance. If directed by the department, the facility must make provision for such testing (WAC 246-247-075(9) and (10)).</p>	<p>Not Applicable</p>	<p>CDM: Ecology and WDOH have determined that the licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency. Comment: none</p>
<p>The facility must be able to demonstrate that workers associated with this emission unit are adequately trained in the use and maintenance of emission control and monitoring systems, and in the performance of associated test and emergency response procedures (WAC 246-247-075(12)).</p>	<p>Continuous</p>	<p>CDM: Facility specific training records and procedures. Comment: none</p>

Requirement	Compliance Status	Compliance Determination Method
The facility shall notify the department within twenty-four hours of any shutdown, or of any transient abnormal condition lasting more than four hours or other change in facility operations which, if allowed to persist, would result in emissions of radioactive material in excess of applicable standards or license requirements (WAC 246-247-080(5)).	Not Applicable	CDM: No reports were required. Comment: none
All facilities must be able to demonstrate the reliability and accuracy of the radioactive air emissions monitoring data (WAC 246-247-075(13)).	Continuous	CDM: Quality assurance program, records, and procedures. Comment: Sample data is covered by lab quality assurance. Smears using rad instruments and HEPA filter tests are covered by maintenance quality assurance.
The department reserves the right to inspect and audit all construction activities, equipment, operations, documents, data and other records related to compliance with the requirements of this chapter (WAC 246-247-080(1)).	Not Applicable	CDM: Ecology and WDOH have determined that the licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency. Comment: none
The facility shall maintain readily (promptly) retrievable storage areas (on site) for all records and documents related to and which may help establish compliance with, the requirements of this chapter. The facility shall keep these records available for department inspection for at least five years (WAC 246-247-080(8)).	Continuous	CDM: Records maintained per facility specific procedures. Comment: none
Monitoring requirements are as follows: In the event that the exhauster is used on different emission units, the Department of Health reserves the right to request a nondestructive analysis/assay (NDA) after each exhaust job assignment (WAC 246-247-075(3)). The monitoring includes: emission estimates to include the methodology, all monitoring measurement results taken during the operation, copy of all logs kept on site and the summary submitted to the department on June 30th. Log sheets will include the following information: Results of smears on the exhaust ports; Maximum contamination level encountered or analysis results, area cleaned, and air emission source constituents if other than plutonium 239 and strontium 90 potential radionuclide releases.	Continuous	CDM: No NDA requested. Log sheets are submitted in annual "Portable/Temporary Radioactive Air Emissions Unit and HEPA Filtered Emissions Unit Annual Report for Calendar Year 2006." Facility specific procedures that govern monitoring. Comment: none

Requirement	Compliance Status	Compliance Determination Method
<p>The approved process is as follows: The HVU's fall into two categories. The first category is the use of the HVU's for the reduction of smearable contamination (including the special cases listed in Appendix C) and the other is to reduce fixed contamination. Soil matrices are excluded from this NOC.</p>	<p>Continuous</p>	<p>CDM: Facility specific procedures, work control, and work planning documents. Comment: none</p>
<p>All HEPA vacuum logs shall be submitted to the department on a quarterly basis (beginning with the first quarter of 2002). This submittal shall be to the department 30 days after the end of each quarter.</p>	<p>Continuous</p>	<p>CDM: HEPA vacuum logs submitted to WDOH. Comment: none</p>
<p>This NOC shall be revised no later than September 1, 2002. Revision 2 was received in September, 2002. The NOC application was determined to be incomplete, a new NOC application shall be submitted.</p>	<p>Not Applicable</p>	<p>CDM: Ecology and WDOH have determined that the licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency. Comment: none</p>
<p>The facility must be able to demonstrate that it has a quality assurance program compatible with applicable national standards (WAC 246-247-075(6)).</p>	<p>Continuous</p>	<p>CDM: Quality assurance program, procedures, and records. Comment: Sample data is covered by lab quality assurance. Smears using rad instruments and HEPA filter tests are covered by maintenance quality assurance.</p>
<p>The facility shall report all measured or calculated emissions annually (WAC 246-247-080(3)).</p>	<p>Continuous</p>	<p>CDM: The annual "Radionuclide Air Emissions Report for Hanford Site Calendar Year 2006". Comment: none</p>
<p>The facility shall file a report of closure with the department whenever operations producing emissions of radioactive material are permanently ceased at any emission unit (except temporary emission units) regulated under this chapter. The closure report shall 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, a NOC is required, as applicable, in accordance with WAC 246-247-060. (WAC 246-247-080(6))</p>	<p>Not Applicable</p>	<p>CDM: Ecology and WDOH have determined that the licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency. Comment: none</p>

LERF Basin #42
WDOH Emission Unit ID : 148
Page in AOP : H-0867

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Charcoal filter Required Units : 1 Add'l Description:	Continuous	CDM: As-built drawings and facility walkdowns. Comment:
Required Sampling: Environment Sampling Sampling Frequency: The near field monitors called out under condition 22 must operate continuously and the samples will be collected every two weeks consistent with the provisions of condition 22 Radionuclide Requiring Measurement: TOTAL ALPHA TOTAL BETA	Continuous	CDM: Review of ABCASH data. Comment:
Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4)(i) & WAC 246-247-075(3) Permit Monitoring and Testing Procedure: Appendix B, Method 114(3)	Continuous	CDM: "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions" (HNF-EP-0528) specifies both hardware and methods used for air sampling, and methods used to analyze the sample in the laboratory. Comment:
Permit: AIR 04-101 Issue Date: 01-05-04 Effective Date: 01-14-04 Obsolete Date: 07-05-06 NOC: Operation of the Liquid Effluent Retention Facility and the 200 Area Effluent Treatment Facility WDOH NOC ID: 562 Date In AOP: 04-11-05 Page in AOP: H-0867		
Requirement	Compliance Status	Compliance Determination Method
The U.S. Department of Energy shall comply with all Conditions and Limitations of this license (WAC 246-247-060(5)).	Not Applicable	CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.
The total abated emission limit for this Notice of Construction is limited to 4.59E-02 mrem/year to the Maximally Exposed Individual (WAC 246-247-040(5)).	Continuous	CDM: Tracking radionuclide data as specified in administrative procedures. Comment: The abated dose is limited by tracking and maintaining the potential-to-emit below the amounts specified by the conditions below.

Requirement	Compliance Status	Compliance Determination Method
<p>This approval applies only to those activities described below. No additional activities or variations on the approved activities that constitute a "modification" to the emission unit, as defined in WAC 246-247-030(16), may be conducted. The operation of the Liquid Effluent Retention Facility/200Area Effluent Treatment Facility (LERF/ETF), which includes the load-in station and load-in station filter skid. Incoming wastewater can be added directly to the ETF process or received at the LERF or the load-in station. The LERF is allowed to receive wastewaters via underground pipelines from generator facilities, via pipeline from the load-in station, or directly through a series of access ports located at each basin. The load-in station accommodates wastewater receipt via container (e.g., drums, carboys, tankers, etc.). The ETF wastewater treatment process shall be comprised of a main treatment train and a secondary treatment train. The main treatment train shall provide for the removal or destruction of dangerous and radioactive contaminants from incoming wastewater. After treatment, the effluent shall be transferred to the verification tanks where it is sampled then discharged. Treated effluent is comparable to deionized water and contains tritium, which cannot be economically removed. Contaminants removed in the main treatment train are concentrated in the secondary treatment train. The contaminants shall be heated and dried to a powder form or removed as sludge and dried by the addition of absorbents. These residues shall be containerized and disposed onsite as radioactive waste. Additional approval of the process for this activity is contained in the following Conditions/Limitations.</p>	<p>Continuous</p>	<p>CDM: Review of facility and procedure change documents as specified in administrative procedures. Comment: Facility design and procedure changes require documentation that includes environmental reviews to determine if the change is a modification of the emission unit.</p>
<p>The PTE for this project as determined under WAC 246-247-030(21)(a-e) [as specified in the application] is 8.48E-02 mrem/year. Approved are the associated potential release rates (Curies/year) of: Alpha-0 4.45E-04 Liquid/Particulate Solid WAC 246-247-030(21)(a) Alpha release rate is assumed to be Pu-239/240. The release rate assumes two full basins and the addition of waste water equivalent to ETF's annual operating capacity. In addition to the isotopes specifically listed as approved under this NOC, other radionuclides may be encountered and are approved so long as they are conservatively represented by the total alpha and total beta-gamma constituents. Am-241 Liquid/Particulate Solid WAC 246-247-030(21) (a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. B/G-0 2.95E+00 Liquid/Particulate Solid WAC 246-247-030(21) (a) Beta/Gamma release rate is assumed to be Sr-90/Cs-137. The release rate assumes two full basins and the addition of waste water equivalent to ETF's annual operating capacity. In addition to the isotopes specifically listed as approved under this NOC, other radionuclides may be encountered and are approved so long as they are conservatively represented by the total alpha and total beta-gamma constituents. C-14 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Ce-144 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Cm-244 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Co-60 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Cs-134 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1</p>	<p>Continuous</p>	<p>CDM: Tracking radionuclide data as specified in administrative procedures. Comment: The quantities of individual radionuclides are tracked based on sample results, flowrates, and process knowledge. The MEI dose and potential-to-emit are calculated and the results are placed in the facility record.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Eu-154 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Eu-155 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. H-3 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. I-129 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. K-40 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Mn-54 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Na-22 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Nb-94 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Np-237 Liquid/Particulate Solid WAC 246-247-030(21)(a) . Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Pu-238 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Pu-241 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Ra-226 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Ru-106 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Sb-125 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Se-79 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Tc-99 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. U-233 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. U-234 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. U-235 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. U-236 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. U-238 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Zn-65 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Zr-95 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. The radioactive isotopes identified for this emission unit are (no quantities specified): Am-241 C-14 Ce-144 Cm-244 Co-60 Cs-134 Cs-137 Eu-154 Eu-155 H-3 I-129 K-40 Mn-54 Na-22 Nb-94 Np-237 Pu-238</p>		

Requirement	Compliance Status	Compliance Determination Method
<p>Pu-239/240 Pu-241 Ra-226 Ru-106 Sb-125 Se-79 Sr-90 Tc-99 U-233 U-234 U-235 U-236 U-238 Zn-65 Zr-95 The potential release rates described in this Condition were used to determine control technologies and monitoring requirements for this approval. DOE must notify the Department of a "modification" to the emission unit, as defined in WAC 246-247-030(16). DOE must notify the Department of any changes to a NESHAP major emission unit when a specific isotope is newly identified as contributing greater than 10% of the potential TEDE to the MEI, or greater than 25% of the TEDE to the MEI after controls. WAC 246-247-110(9). DOE must notify the Department of any changes to potential release rates as required by state or federal regulations including changes that would constitute a significant modification to the Air Operating Permit under WAC 173-401-725(4). Notice will be provided according to the particular regulation under which notification is required. If the applicable regulation(s) does not address manner and type of notification, DOE will provide the Department with advance written notice by letter or electronic mail but not solely by copies of documents.</p>		
<p>The LERF is approved to provide temporary storage, as well as flow and pH equalization, for wastewaters prior to treatment at ETF. The LERF shall consist of three high-density polyethylene double-lined basins, each with an operating capacity of 29.5 million liters. Each basin has a leachate collection system located between the primary and secondary composite liner systems and is also equipped with a floating low-density polyethylene cover firmly attached to the sidewalls to prevent unwanted material from entering the basins and to avoid evaporation of wastewater. To prevent the buildup of gas, each basin is passively vented through vent pipes. Gases exiting through a vent pipe shall be channeled through a carbon adsorption filter.</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>If this emission unit is not in compliance with the standards in WAC 246-247-040 during construction or operation, the department reserves the right to require modifications to bring it into compliance (WAC 246-247-040-(5) and WAC 246-247-060-(5)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>The facility shall notify the Department at least seven calendar days prior to any planned preoperational tests of new or modified emission units that involve emissions control, monitoring, or containment systems of the emission unit(s). The department reserves the right to witness or require preoperational tests involving the emissions control, monitoring, or containment systems of the emissions unit(s) (WAC 246-247-060(4)).</p>	<p>Not Applicable</p>	<p>CDM: N/A. No preoperational tests were conducted. Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>The facility must be able to demonstrate that it has a quality assurance program compatible with applicable national standards (WAC 246-247-075(6)).</p>	<p>Continuous</p>	<p>CDM: "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions" (HNF-EP-0528). Comment:</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The department retains the right to conduct stack sampling, environmental monitoring or other testing around this unit to assure compliance. If directed by the department, the facility must make provision for such testing (WAC 246-247-075(9) and (10)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>The facility must be able to demonstrate workers associated with this emission unit are trained in the use and maintenance of control and monitoring systems, and in the performance of associated tests and emergency procedures (WAC 246-247-075(12)).</p>	<p>Continuous</p>	<p>CDM: Review of facility personnel certification training and On-the-Job-Training records. Comment: Records of certification training courses and OJT training are placed in the facility record.</p>
<p>All facilities must be able to demonstrate the reliability and accuracy of emissions monitoring data (WAC 246-247-075(13)).</p>	<p>Continuous</p>	<p>CDM: Review of ABCASH data. Comment: The required reliability and accuracy are established by written agreement with the monitoring laboratory. See "Statement of Work for Services Provided by the WSCF for the Effluent & Environmental Monitoring Program" (HNF-EP-0835).</p>
<p>The Department reserves the right to inspect and audit all construction activities, equipment, operations, documents, data and other records related to compliance with the requirements of this chapter (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>The department may require an ALARACT demonstration at any time (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility must meet all reporting and record keeping requirements of 40 CFR 61, Subpart H (WAC 246-247-080(2)).</p>	<p>Continuous</p>	<p>CDM: Reporting: annual "Radionuclide Air Emissions Report for Hanford Site Calendar Year 2006". Recordkeeping: review of ABCASH data and facility records. Comment: Reporting requirements are given in the annual report. Recordkeeping includes ABCASH and radionuclide tracking data, which are in the facility record.</p>
<p>The facility shall report all measured or calculated emissions annually (WAC 246-247-080(3)).</p>	<p>Continuous</p>	<p>CDM: Annual "Radionuclide Air Emissions Report for Hanford Site, Calendar Year 2006". Comment:</p>
<p>The facility shall notify the department within twenty-four hours of any shutdown, or of any transient abnormal condition lasting more than four hours or other change in facility operations which, if allowed to persist, would result in emissions of radioactive material in excess of applicable standards or license requirements (WAC 246-247-080(5)).</p>	<p>Not Applicable</p>	<p>CDM: N/A. No such transient abnormal conditions occurred. Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>The licensee 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: In the case of permanent shutdown of the emission unit: (i) the licensee completes the monitoring and associated recordkeeping for that period prior to the shutdown. (ii) the licensee files a report of closure with the Department of Health in accordance with WAC 246-247-080(6). An emission unit will not be considered to be permanently shut down or completed until a report of closure is received by the Department of Health (WAC 246-247-080(6)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>The facility shall maintain readily (promptly) retrievable storage areas (on site) for all records and documents related to, and which may help establish compliance with, the requirements of this chapter. The facility shall keep these records available for department inspection for at least five years (WAC 246-247-080(8)).</p>	<p>Continuous</p>	<p>CDM: Review of ABCASH and radionuclide tracking data in the facility record. Records are maintained in the facility record as specified by administrative procedures. Comment:</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility shall ensure all emissions units are fully accessible to department inspectors. In the event the hazards associated with accessibility to a unit require training and/or restriction or requirements for entry, the facility owner or operator shall inform the department, prior to arrival, of those restrictions or requirements. The owner or operator shall be responsible for providing the necessary training, escorts, and support services to allow the department to inspect the facility. At a minimum for unannounced inspections, such requirements or restrictions must be told to inspectors to provide an opportunity for inspectors to meet those requirements prior to the inspection (WAC 246-247-080(9)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>The facility shall make available, in timely manner, all documents requested by the department for review. The facility shall allow the department to review documents in advance of an inspection. The facility shall allow access to classified documents by representatives of the department with the appropriate security clearance and a demonstrable need-to-know (WAC 246-247-080(10)).</p>	<p>Continuous</p>	<p>CDM: Review of ABCASH and radionuclide tracking data in the facility record. Records are maintained in the facility record as specified by administrative procedures. Comment:</p>
<p>Diffuse/Fugitive emissions shall be monitored using the 200 Area near-field ambient air monitors. Sample collection and analysis shall follow that of the near field monitoring program. Analytical results shall be reported in the Annual Air Emissions Report. Any change to this near-field ambient monitoring program must be approved by the department.</p>	<p>Continuous</p>	<p>CDM: Review of ABCASH data. Reporting: annual "Radionuclide Air Emissions Report for Hanford Site Calendar Year 2006". Comment:</p>
<p>The emissions for this activity from the all LERF basins and diffuse/fugitive emissions are limited to 4.59E-02 mrem/year unabated and abated.</p>	<p>Continuous</p>	<p>CDM: Tracking radionuclide data as specified in administrative procedures. Comment: The unabated dose is limited by tracking and maintaining the potential-to-emit below the amounts specified by the conditions above.</p>

LERF Basin #43
WDOH Emission Unit ID : 147
Page in AOP : H-0861

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Charcoal filter Required Units : 1 Add'l Description:	Continuous	CDM: As-built drawings and facility walkdowns. Comment:
Required Sampling: Environment Sampling Sampling Frequency: The near field monitors called out under condition 22 must operate continuously and the samples will be collected every two weeks consistent with the provisions of condition 22 Radionuclide Requiring Measurement: TOTAL ALPHA TOTAL BETA	Continuous	CDM: Review of ABCASH data. Comment:
Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4)(i) & WAC 246-247-075(3) Permit Monitoring and Testing Procedure: Appendix B, Method 114(3)	Continuous	CDM: "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions" (HNF-EP-0528) specifies both hardware and method used to sample and analytical methods used in the laboratory. Comment:
Permit: AIR 04-101 Issue Date: 01-05-04 Effective Date: 01-14-04 Obsolete Date: 07-05-06 NOC: Operation of the Liquid Effluent Retention Facility and the 200 Area Effluent Treatment Facility WDOH NOC ID: 562 Date In AOP: 04-11-05 Page in AOP: H-0861		
Requirement	Compliance Status	Compliance Determination Method
The U.S. Department of Energy shall comply with all Conditions and Limitations of this license (WAC 246-247-060(5)).	Not Applicable	CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.
The total abated emission limit for this Notice of Construction is limited to 4.59E-02 mrem/year to the Maximally Exposed Individual (WAC 246-247-040(5)).	Continuous	CDM: Tracking radionuclide data as specified in administrative procedures. Comment: The abated dose is limited by tracking and maintaining the potential-to-emit below the amounts specified by the conditions below.

Requirement	Compliance Status	Compliance Determination Method
<p>This approval applies only to those activities described below. No additional activities or variations on the approved activities that constitute a "modification" to the emission unit, as defined in WAC 246-247-030(16), may be conducted. The operation of the Liquid Effluent Retention Facility/200 Area Effluent Treatment Facility (LERF/ETF), which includes the load-in station and load-in station filter skid. Incoming wastewater can be added directly to the ETF process or received at the LERF or the load-in station. The LERF is allowed to receive wastewaters via underground pipelines from generator facilities, via pipeline from the load-in station, or directly through a series of access ports located at each basin. The load-in station accommodates wastewater receipt via container (e.g., drums, carboys, tankers, etc.). The ETF wastewater treatment process shall be comprised of a main treatment train and a secondary treatment train. The main treatment train shall provide for the removal or destruction of dangerous and radioactive contaminants from incoming wastewater. After treatment, the effluent shall be transferred to the verification tanks where it is sampled then discharged. Treated effluent is comparable to deionized water and contains tritium, which cannot be economically removed. Contaminants removed in the main treatment train are concentrated in the secondary treatment train. The contaminants shall be heated and dried to a powder form or removed as sludge and dried by the addition of absorbents. These residues shall be containerized and disposed onsite as radioactive waste. Additional approval of the process for this activity is contained in the following Conditions/Limitations.</p>	<p>Continuous</p>	<p>CDM: Review of facility and procedure change documents as specified in administrative procedures. Comment: Facility design and procedure changes require documentation that includes environmental reviews to determine if the change is a modification of the emission unit.</p>
<p>The PTE for this project as determined under WAC 246-247-030(21)(a-e) [as specified in the application] is 8.48E-02 mrem/year. Approved are the associated potential release rates (Curies/year) of: Alpha-0 4.45E-04 Liquid/Particulate Solid WAC 246-247-030(21)(a) Alpha release rate is assumed to be Pu-239/240. The release rate assumes two full basins and the addition of waste water equivalent to ETF's annual operating capacity. In addition to the isotopes specifically listed as approved under this NOC, other radionuclides may be encountered and are approved so long as they are conservatively represented by the total alpha and total beta-gamma constituents. Am-241 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. B/G-0 2.95E+00 Liquid/Particulate Solid WAC 246-247-030(21)(a) Beta/Gamma release rate is assumed to be Sr-90/Cs-137. The release rate assumes two full basins and the addition of waste water equivalent to ETF's annual operating capacity. In addition to the isotopes specifically listed as approved under this NOC, other radionuclides may be encountered and are approved so long as they are conservatively represented by the total alpha and total beta-gamma constituents. C-14 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Ce-144 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Cm-244 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Co-60 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Cs-134 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Eu-154 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Eu-155 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. H-3 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. I-129 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and</p>	<p>Continuous</p>	<p>CDM: Tracking radionuclide data as specified in administrative procedures. Comment: The quantities of individual radionuclides are tracked based on sample results, flowrates, and process knowledge. The MEI dose and potential-to-emit are calculated and the results are placed in the facility record.</p>

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<p>represents less than 25% of the abated dose. K-40 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Mn-54 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Na-22 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Nb-94 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Np-237 Liquid/Particulate Solid WAC 246-247-030(21)(a) . Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Pu-238 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Pu-241 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Ra-226 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Ru-106 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Sb-125 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Se-79 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Tc-99 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. U-233 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. U-234 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. U-235 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. U-236 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. U-238 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Zn-65 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Zr-95 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. The radioactive isotopes identified for this emission unit are (no quantities specified): Am-241 C-14 Ce-144 Cm-244 Co-60 Cs-134 Cs-137 Eu-154 Eu-155 H-3 I-129 K-40 Mn-54 Na-22 Nb-94 Np-237 Pu-238 Pu-239/240 Pu-241 Ra-226 Ru-106 Sb-125 Se-79 Sr-90 Tc-99 U-233 U-234 U-235 U-236 U-238 Zn-65 Zr-95 The potential release rates described in this Condition were used to determine control technologies and monitoring requirements for this approval. DOE must notify the Department of a "modification" to the emission unit, as defined in WAC 246-247-030(16). DOE must notify the Department of any changes to a NESHAP major emission unit when a specific isotope is newly identified as contributing greater than 10% of the potential TEDE to the MEI, or greater than 25% of the TEDE to the MEI after controls. WAC 246-247-110(9). DOE must notify the Department of any changes to potential release rates as required by state or federal regulations including changes that would constitute a significant modification to the Air Operating Permit under WAC 173-401-725(4).</p>		

Requirement	Compliance Status	Compliance Determination Method
<p>Notice will be provided according to the particular regulation under which notification is required. If the applicable regulation(s) does not address manner and type of notification, DOE will provide the Department with advance written notice by letter or electronic mail but not solely by copies of documents.</p>		
<p>The LERF is approved to provide temporary storage, as well as flow and pH equalization, for wastewaters prior to treatment at ETF. The LERF shall consist of three high-density polyethylene double-lined basins, each with an operating capacity of 29.5 million liters. Each basin has a leachate collection system located between the primary and secondary composite liner systems and is also equipped with a floating low-density polyethylene cover firmly attached to the sidewalls to prevent unwanted material from entering the basins and to avoid evaporation of wastewater. To prevent the buildup of gas, each basin is passively vented through vent pipes. Gases exiting through a vent pipe shall be channeled through a carbon adsorption filter.</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>If this emission unit is not in compliance with the standards in WAC 246-247-040 during construction or operation, the department reserves the right to require modifications to bring it into compliance (WAC 246-247-040-(5) and WAC 246-247-060-(5)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>The facility shall notify the department at least seven calendar days prior to any planned preoperational tests of new or modified emission units that involve emissions control, monitoring, or containment systems of the emission unit(s). The department reserves the right to witness or require preoperational tests involving the emissions control, monitoring, or containment systems of the emissions unit(s) (WAC 246-247-060(4)).</p>	<p>Not Applicable</p>	<p>CDM: N/A. No preoperational tests were conducted. Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>The facility must be able to demonstrate that it has a quality assurance program compatible with applicable national standards (WAC 246-247-075(6)).</p>	<p>Continuous</p>	<p>CDM: "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions" (HNF-EP-0528). Comment:</p>
<p>The department retains the right to conduct stack sampling, environmental monitoring or other testing around this unit to assure compliance. If directed by the department, the facility must make provision for such testing (WAC 246-247-075(9) and (10)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility must be able to demonstrate workers associated with this emission unit are trained in the use and maintenance of control and monitoring systems, and in the performance of associated tests and emergency procedures (WAC 246-247-075(12)).</p>	<p>Continuous</p>	<p>CDM: Review of facility personnel certification training and On-the-Job-Training records. Comment: Records of certification training courses and OJT training are placed in the facility record.</p>
<p>All facilities must be able to demonstrate the reliability and accuracy of emissions monitoring data (WAC 246-247-075(13)).</p>	<p>Continuous</p>	<p>CDM: Review of ABCASH data. Comment: The required reliability and accuracy are established by written agreement with the monitoring laboratory. See "Statement of Work for Services Provided by the WSCF for the Effluent & Environmental Monitoring Program" (HNF-EP-0835).</p>
<p>The Department reserves the right to inspect and audit all construction activities, equipment, operations, documents, data and other records related to compliance with the requirements of this chapter (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>The department may require an ALARACT demonstration at any time (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>The facility must meet all reporting and record keeping requirements of 40 CFR 61, Subpart H (WAC 246-247-080(2)).</p>	<p>Continuous</p>	<p>CDM: Reporting: annual "Radionuclide Air Emissions Report for Hanford Site Calendar Year 2006". Recordkeeping: review of ABCASH data and facility records. Comment: Reporting requirements are given in the annual report. Recordkeeping includes ABCASH and radionuclide tracking data, which are in the facility record.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility shall report all measured or calculated emissions annually (WAC 246-247-080(3)).</p>	<p>Continuous</p>	<p>CDM: Annual "Radionuclide Air Emissions Report for Hanford Site Calendar Year 2006". Comment:</p>
<p>The facility shall notify the department within twenty-four hours of any shutdown, or of any transient abnormal condition lasting more than four hours or other change in facility operations which, if allowed to persist, would result in emissions of radioactive material in excess of applicable standards or license requirements (WAC 246-247-080(5)).</p>	<p>Not Applicable</p>	<p>CDM: N/A. No such transient abnormal conditions occurred. Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>The licensee 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: In the case of permanent shutdown of the emission unit: (i) the licensee completes the monitoring and associated record keeping for that period prior to the shutdown. (ii) the licensee files a report of closure with the Department of Health in accordance with WAC 246-247-080(6). An emission unit will not be considered to be permanently shut down or completed until a report of closure is received by the Department of Health (WAC 246-247-080(6)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>The facility shall maintain readily (promptly) retrievable storage areas (on site) for all records and documents related to, and which may help establish compliance with, the requirements of this chapter. The facility shall keep these records available for department inspection for at least five years (WAC 246-247-080(8)).</p>	<p>Continuous</p>	<p>CDM: Review of ABCASH and radionuclide tracking data in the facility record. Records are maintained in the facility record as specified by administrative Comment:</p>
<p>The facility shall ensure all emissions units are fully accessible to department inspectors. In the event the hazards associated with accessibility to a unit require training and/or restriction or requirements for entry, the facility owner or operator shall inform the department, prior to arrival, of those restrictions or requirements. The owner or operator shall be responsible for providing the necessary training, escorts, and support services to allow the department to inspect the facility. At a minimum for unannounced inspections, such requirements or restrictions must be told to inspectors to provide an opportunity for inspectors to meet those requirements prior to the inspection (WAC 246-247-080(9)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>

Requirement	Compliance Status	Compliance Determination Method
The facility shall make available, in timely manner, all documents requested by the department for review. The facility shall allow the department to review documents in advance of an inspection. The facility shall allow access to classified documents by representatives of the department with the appropriate security clearance and a demonstrable need-to-know (WAC 246-247-080(10)).	Continuous	CDM: Review of ABCASH and radionuclide tracking data in the facility record. Records are maintained in the facility record as specified by administrative procedures. Comment:
Diffuse/Fugitive emissions shall be monitored using the 200 Area near-field ambient air monitors. Sample collection and analysis shall follow that of the near field monitoring program. Analytical results shall be reported in the Annual Air Emissions Report. Any change to this near-field ambient monitoring program must be approved by the department.	Continuous	CDM: Review of ABCASH data. Reporting: annual "Radionuclide Air Emissions Report for Hanford Site Calendar Year 2006". Comment:
The emissions for this activity from the all LERF basins and diffuse/fugitive emissions are limited to 4.59E-02 mrem/year unabated and abated.	Continuous	CDM: Tracking radionuclide data as specified in administrative procedures. Comment: The unabated dose is limited by tracking and maintaining the potential-to-emit below the amounts specified by the conditions above.

LERF Basin #44
WDOH Emission Unit ID : 146
Page in AOP : H-0855

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Charcoal filter Required Units : 1 Add'l Description:	Continuous	CDM: As-built drawings and facility walkdowns. Comment:
Required Sampling: Environment Sampling Sampling Frequency: The near field monitors called out under condition 22 must operate continuously and the samples will be collected every two weeks consistent with the provisions of condition 22 Radionuclide Requiring Measurement: TOTAL ALPHA TOTAL BETA	Continuous	CDM: Review of ABCASH data. Comment:
Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4)(i) & WAC 246-247-075(3) Permit Monitoring and Testing Procedure: Appendix B, Method 114(3)	Continuous	CDM: "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions" (HNF-EP-0528) specifies both hardware and method used to sample and analytical methods used in the laboratory.

Requirement	Compliance Status	Compliance Determination Method
Comment:		
Permit: AIR 04-101 Issue Date:01-05-04 Effective Date:01-14-04 Obsolete Date: 07-05-06 NOC: Operation of the Liquid Effluent Retention Facility and the 200 Area Effluent Treatment Facility WDOH NOC ID: 562 Date In AOP: 04-11-05 Page in AOP: H-0855		
Requirement	Compliance Status	Compliance Determination Method
<p>The U.S. Department of Energy shall comply with all Conditions and Limitations of this license (WAC 246-247-060(5)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>The total abated emission limit for this Notice of Construction is limited to 4.59E-02 mrem/year to the Maximally Exposed Individual (WAC 246-247-040(5)).</p>	<p>Continuous</p>	<p>CDM: Tracking radionuclide data as specified in administrative procedures. Comment: The abated dose is limited by tracking and maintaining the potential-to-emit below the amounts specified by the conditions below.</p>
<p>This approval applies only to those activities described below. No additional activities or variations on the approved activities that constitute a "modification" to the emission unit, as defined in WAC 246-247-030(16), may be conducted. The operation of the Liquid Effluent Retention Facility/200 Area Effluent Treatment Facility (LERF/ETF), which includes the load-in station and load-in station filter skid. Incoming wastewater can be added directly to the ETF process or received at the LERF or the load-in station. The LERF is allowed to receive wastewaters via underground pipelines from generator facilities, via pipeline from the load-in station, or directly through a series of access ports located at each basin. The load-in station accommodates wastewater receipt via container (e.g., drums, carboys, tankers, etc.). The ETF wastewater treatment process shall be comprised of a main treatment train and a secondary treatment train. The main treatment train shall provide for the removal or destruction of dangerous and radioactive contaminants from incoming wastewater. After treatment, the effluent shall be transferred to the verification tanks where it is sampled then discharged. Treated effluent is comparable to deionized water and contains tritium, which cannot be economically removed. Contaminants removed in the main treatment train are concentrated in the secondary treatment train. The contaminants shall be heated and dried to a powder form or removed as sludge and dried by the addition of absorbents. These residues shall be containerized and disposed onsite as radioactive waste. Additional approval of the process for this activity is contained in the following Conditions/Limitations.</p>	<p>Continuous</p>	<p>CDM: Review of facility and procedure change documents as specified in administrative procedures. Comment: Facility design and procedure changes require documentation that includes environmental reviews to determine if the change is a modification of the emission unit.</p>
<p>The PTE for this project as determined under WAC 246-247-030(21)(a-e) [as specified in the application] is 8.48E-02 mrem/year. Approved are the associated potential release rates (Curies/year) of: Alpha-0 4.45E-04 Liquid/Particulate Solid WAC 246-247-030(21)(a) Alpha release rate is assumed to be Pu-239/240. The release rate assumes two full basins and the addition of waste water equivalent to ETF's annual operating capacity. In addition to the isotopes specifically listed as approved under this NOC, other radionuclides may be encountered and are approved so long as they are</p>	<p>Continuous</p>	<p>CDM: Tracking radionuclide data as specified in administrative procedures. Comment: The quantities of individual radionuclides are tracked based on sample results,</p>

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<p>conservatively represented by the total alpha and total beta-gamma constituents. Am-241 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. B/G-0 2.95E+00 Liquid/Particulate Solid WAC 246-247-030(21)(a) Beta/Gamma release rate is assumed to be Sr-90/Cs-137. The release rate assumes two full basins and the addition of waste water equivalent to ETF's annual operating capacity. In addition to the isotopes specifically listed as approved under this NOC, other radionuclides may be encountered and are approved so long as they are conservatively represented by the total alpha and total beta-gamma constituents. C-14 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. 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The MEI dose and potential-to-emit are calculated and the results are placed in the facility record.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>represents less than 25% of the abated dose. U-233 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. U-234 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. U-235 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. U-236 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. U-238 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Zn-65 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Zr-95 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. The radioactive isotopes identified for this emission unit are (no quantities specified): Am-241 C-14 Ce-144 Cm-244 Co-60 Cs-134 Cs-137 Eu-154 Eu-155 H-3 I-129 K-40 Mn-54 Na-22 Nb-94 Np-237 Pu-238 Pu-239/240 Pu-241 Ra-226 Ru-106 Sb-125 Se-79 Sr-90 Tc-99 U-233 U-234 U-235 U-236 U-238 Zn-65 Zr-95 The potential release rates described in this Condition were used to determine control technologies and monitoring requirements for this approval. DOE must notify the Department of a "modification" to the emission unit, as defined in WAC 246-247-030(16). DOE must notify the Department of any changes to a NESHAP major emission unit when a specific isotope is newly identified as contributing greater than 10% of the potential TEDE to the MEI, or greater than 25% of the TEDE to the MEI after controls. WAC 246-247-110(9). DOE must notify the Department of any changes to potential release rates as required by state or federal regulations including changes that would constitute a significant modification to the Air Operating Permit under WAC 173-401-725(4). Notice will be provided according to the particular regulation under which notification is required. If the applicable regulation(s) does not address manner and type of notification, DOE will provide the Department with advance written notice by letter or electronic mail but not solely by copies of documents.</p>		
<p>The LERF is approved to provide temporary storage, as well as flow and pH equalization, for wastewaters prior to treatment at ETF. The LERF shall consist of three high-density polyethylene double-lined basins, each with an operating capacity of 29.5 million liters. Each basin has a leachate collection system located between the primary and secondary composite liner systems and is also equipped with a floating low-density polyethylene cover firmly attached to the sidewalls to prevent unwanted material from entering the basins and to avoid evaporation of wastewater. To prevent the buildup of gas, each basin is passively vented through vent pipes. Gases exiting through a vent pipe shall be channeled through a carbon adsorption filter.</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>If this emission unit is not in compliance with the standards in WAC 246-247-040 during construction or operation, the department reserves the right to require modifications to bring it into compliance (WAC 246-247-040-(5) and WAC 246-247-060-(5)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility shall notify the department at least seven calendar days prior to any planned preoperational tests of new or modified emission units that involve emissions control, monitoring, or containment systems of the emission unit(s). The department reserves the right to witness or require preoperational tests involving the emissions control, monitoring, or containment systems of the emissions unit(s) (WAC 246-247-060(4)).</p>	<p>Not Applicable</p>	<p>CDM: N/A. No preoperational tests were conducted. Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>The facility must be able to demonstrate that it has a quality assurance program compatible with applicable national standards (WAC 246-247-075(6)).</p>	<p>Continuous</p>	<p>CDM: "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions" (HNF-EP-0528). Comment:</p>
<p>The department retains the right to conduct stack sampling, environmental monitoring or other testing around this unit to assure compliance. If directed by the department, the facility must make provision for such testing (WAC 246-247-075(9) and (10)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>The facility must be able to demonstrate that workers associated with this emission unit are trained in the use and maintenance of control and monitoring systems, and in the performance of associated tests and emergency procedures (WAC 246-247-075(12)).</p>	<p>Continuous</p>	<p>CDM: Review of facility personnel certification training and On-the-Job-Training records. Comment: Records of certification training courses and OJT training are placed in the facility record.</p>
<p>All facilities must be able to demonstrate the reliability and accuracy of emissions monitoring data (WAC 246-247-075(13)).</p>	<p>Continuous</p>	<p>CDM: Review of ABCASH data. Comment: The required reliability and accuracy are established by written agreement with the monitoring laboratory. See "Statement of Work for Services Provided by the WSCF for the Effluent & Environmental Monitoring Program" (HNF-EP-0835).</p>
<p>The Department reserves the right to inspect and audit all construction activities, equipment, operations, documents, data and other records related to compliance with the requirements of this chapter (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The department may require an ALARACT demonstration at any time (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>The facility must meet all reporting and record keeping requirements of 40 CFR 61, Subpart H (WAC 246-247-080(2)).</p>	<p>Continuous</p>	<p>CDM: Reporting: annual "Radionuclide Air Emissions Report for Hanford Site Calendar Year 2006". Recordkeeping: review of ABCASH data and facility records. Comment: Reporting requirements are given in the annual report. Recordkeeping includes ABCASH and radionuclide tracking data, which are in the facility record.</p>
<p>The facility shall report all measured or calculated emissions annually (WAC 246-247-080(3)).</p>	<p>Continuous</p>	<p>CDM: Annual "Radionuclide Air Emissions Report for Hanford Site Calendar Year 2006". Comment:</p>
<p>The facility shall notify the department within twenty-four hours of any shutdown, or of any transient abnormal condition lasting more than four hours or other change in facility operations which, if allowed to persist, would result in emissions of radioactive material in excess of applicable standards or license requirements (WAC 246-247-080(5)).</p>	<p>Not Applicable</p>	<p>CDM: N/A. No such transient abnormal conditions occurred. Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>The licensee 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: In the case of permanent shutdown of the emission unit: (i) the licensee completes the monitoring and associated recordkeeping for that period prior to the shutdown. (ii) the licensee files a report of closure with the Department of Health in accordance with WAC 246-247-080(6). An emission unit will not be considered to be permanently shut down or completed until a report of closure is received by the Department of Health (WAC 246-247-080(6)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility shall maintain readily (promptly) retrievable storage areas (on site) for all records and documents related to, and which may help establish compliance with, the requirements of this chapter. The facility shall keep these records available for department inspection for at least five years (WAC 246-247-080(8)).</p>	<p>Continuous</p>	<p>CDM: Review of ABCASH and radionuclide tracking data in the facility record. Records are maintained in the facility record as specified by administrative procedures. Comment:</p>
<p>The facility shall ensure all emissions units are fully accessible to department inspectors. In the event the hazards associated with accessibility to a unit require training and/or restriction or requirements for entry, the facility owner or operator shall inform the department, prior to arrival, of those restrictions or requirements. The owner or operator shall be responsible for providing the necessary training, escorts, and support services to allow the department to inspect the facility. At a minimum for unannounced inspections, such requirements or restrictions must be told to inspectors to provide an opportunity for inspectors to meet those requirements prior to the inspection (WAC 246-247-080(9)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>The facility shall make available, in timely manner, all documents requested by the department for review. The facility shall allow the department to review documents in advance of an inspection. The facility shall allow access to classified documents by representatives of the department with the appropriate security clearance and a demonstrable need-to-know (WAC 246-247-080(10)).</p>	<p>Continuous</p>	<p>CDM: Review of ABCASH and radionuclide tracking data in the facility record. Records are maintained in the facility record as specified by administrative procedures. Comment:</p>
<p>Diffuse/Fugitive emissions shall be monitored using the 200 Area near-field ambient air monitors. Sample collection and analysis shall follow that of the near field monitoring program. Analytical results shall be reported in the Annual Air Emissions Report. Any change to this near-field ambient monitoring program must be approved by the department.</p>	<p>Continuous</p>	<p>CDM: Review of ABCASH data. Reporting: annual "Radionuclide Air Emissions Report for Hanford Site Calendar Year 2006". Comment:</p>
<p>The emissions for this activity from the all LERF basins and diffuse/fugitive emissions are limited to 4.59E-02 mrem/year unabated and abated.</p>	<p>Continuous</p>	<p>CDM: Tracking radionuclide data as specified in administrative procedures. Comment: The unabated dose is limited by tracking and maintaining the potential-to-emit below the amounts specified by the conditions above.</p>

NOC: Construction of (WTP) HLW Vitrification Plant

Permit: AIR 03-1012 Issue Date: 10-22-03 Effective Date: 10-22-03 Obsolete Date: 07-08-05
WDOH NOC ID: 509 Date In AOP: 04-11-05 Page in AOP: H-0489

Emission Unit	WDOH EU ID	Page in AOP
(200E) HV-S3A	551	H-0489
(200E) HV-S4	552	H-0502
(200E) HV-C2	553	H-0511
(200E) HV-S1	554	H-0519
(200E) HV-S2	555	H-0527
(200E) HV-S3B	753	H-0538
(200E) IHLW-S1	754	H-0551

Condition	Compliance Status	Compliance Determination Method
Conditions and Limitations for construction activities must be documented in an established procedure matrix or commitment matrix database within 90 days after full construction authorization is received from WDOH. The procedure matrix or commitment matrix database for operational conditions shall be completed no later than 180 days before receipt of radioactive waste into the WTP to start Hot Commissioning and identify the specific procedures which will satisfy the Conditions and Limitations. The requirement may be satisfied for such of these Conditions and Limitations as are related only to the operational phase of radioactive waste processing (as opposed to the construction of the facility) by description of specific procedures which will be completed no later than 90 days prior to the hot commissioning of the facility. [WAC 246-247-040(5); WAC 246-247-060(5); WAC 246-247-075(6); ASME NQA-1-1997]	Continuous	CDM: Recordkeeping. Comment:
All other conditions for all emission units	Not applicable	CDM: N/A Comment: WTP under construction during reporting period; therefore this condition did not apply.

NOC: Construction of (WTP) Laboratory

Permit: AIR 03-1013 Issue Date: 10-22-03 Effective Date: 10-22-03 Obsolete Date: 07-21-05
WDOH NOC ID: 510 Date In AOP: 04-11-05 Page in AOP: H-0558

Emission Unit	WDOH EU ID	Page in AOP
(200E) LB-C2	557	H-0558
(200E) LB-S1	558	H-0565
(200E) LB-S2	559	H-0573

Condition	Compliance Status	Compliance Determination Method
<p>Conditions and Limitations for construction activities must be documented in an established procedure matrix or commitment matrix database within 90 days after full construction authorization is received from WDOH. The procedure matrix or commitment matrix database for operational conditions shall be completed no later than 180 days before receipt of radioactive waste into the WTP to start Hot Commissioning and identify the specific procedures which will satisfy the Conditions and Limitations. The requirement may be satisfied for such of these Conditions and Limitations as are related only to the operational phase of radioactive waste processing (as opposed to the construction of the facility) by description of specific procedures which will be completed no later than 90 days prior to the hot commissioning of the facility. [WAC 246-247-040(5); WAC 246-247-060(5); WAC 246-247-075(6); ASME NQA-1-1997]</p>	<p>Continuous</p>	<p>CDM: Recordkeeping. Comment:</p>
<p>All other conditions for all emission units</p>	<p>Not applicable</p>	<p>CDM: N/A Comment: WTP under construction during reporting period; therefore this condition did not apply.</p>

NOC: Construction of (WTP) LAW Vitrification Plant

Permit: AIR 03-1014 **Issue Date:** 10-22-03 **Effective Date:** 10-22-03 **Obsolete Date:** 07-21-05
WDOH NOC ID: 511 **Date in AOP:** 04-11-05 **Page in AOP:** H-0581

Emission Unit	WDOH EU ID	Page in AOP
(200E) LV-S3	547	H-0581
(200E) LV-C2	548	H-0591
(200E) LV-S1	549	H-0599
(200E) LV-S2	550	H-0607
(200E) ILAW-C2	752	H-0614

Condition	Compliance Status	Compliance Determination Method
<p>Conditions and Limitations for construction activities must be documented in an established procedure matrix or commitment matrix database within 90 days after full construction authorization is received from WDOH. The procedure matrix or commitment matrix database for operational conditions shall be completed no later than 180 days before receipt of radioactive waste into the WTP to start Hot Commissioning and identify the specific procedures which will satisfy the Conditions and Limitations. The requirement may be satisfied for such of these Conditions and Limitations as are related only to the operational phase of radioactive waste processing (as opposed to the construction of the facility) by description of specific procedures which will be completed no later than 90 days prior to the hot commissioning of the facility. [WAC 246-247-040(5); WAC 246-247-060(5); WAC 246-247-075(6); ASME NQA-1-1997]</p>	Continuous	<p>CDM: Recordkeeping. Comment:</p>
All other conditions for all emission units	Not applicable	<p>CDM: N/A Comment: WTP under construction during reporting period; therefore this condition did not apply.</p>

NOC: Construction of (WTP) Pretreatment Plant

Permit: AIR 03-1015 **Issue Date:** 10-22-03 **Effective Date:** 10-22-03 **Obsolete Date:** 07-21-05
WDOH NOC ID: 512 **Date In AOP:** 04-11-05 **Page in AOP:** H-0621

Emission Unit	WDOH EU ID	Page in AOP
(200E) PT-S3	534	H-0621
(200E) PT-S4	543	H-0635
(200E) PT-C2	544	H-0645
(200E) PT-S1	545	H-0653
(200E) PT-S2	546	H-0661

Condition	Compliance Status	Compliance Determination Method
Conditions and Limitations for construction activities must be documented in an established procedure matrix or commitment matrix database within 90 days after full construction authorization is received from WDOH. The procedure matrix or commitment matrix database for operational conditions shall be completed no later than 180 days before receipt of radioactive waste into the WTP to start Hot Commissioning and identify the specific procedures which will satisfy the Conditions and Limitations. The requirement may be satisfied for such of these Conditions and Limitations as are related only to the operational phase of radioactive waste processing (as opposed to the construction of the facility) by description of specific procedures which will be completed no later than 90 days prior to the hot commissioning of the facility. [WAC 246-247-040(5); WAC 246-247-060(5); WAC 246-247-075(6); ASME NQA-1-1997]	Continuous	CDM: Recordkeeping. Comment:
All other conditions for all emission units	Not applicable	CDM: N/A Comment: WTP under construction during reporting period; therefore this condition did not apply.

P-2025E ETF
WDOH Emission Unit ID : 301
Page in AOP : H-0873

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Building Ventilation System Abatement Technology : Fan Required Units : 2 Add'l Description: Serves both areas	Continuous	CDM: As-built drawings and facility walkdowns. Comment:
Zone or Area : Building Ventilation System Abatement Technology : HEPA Required Units : 2 Add'l Description: 3 parallel flowpaths each with 1 filter and 1 fan; minimum 2 in operation.	Continuous	CDM: As-built drawings and facility walkdowns. Comment:
Zone or Area : Vessel Off-Gas System Abatement Technology : Fan Required Units : 1 Add'l Description:	Continuous	CDM: As-built drawings and facility walkdowns. Comment:
Zone or Area : Vessel Off-Gas System Abatement Technology : HEPA Required Units : 3 Add'l Description: 1 heater and 2 filters in series, with 2 parallel fans (minimum of 1 in operations). VOG discharges into Building Ventilation	Continuous	CDM: As-built drawings and facility walkdowns. Comment:

Requirement	Compliance Status	Compliance Determination Method
<p>Required Sampling: Monitoring stations N498, N499, N972, and N999 Sampling Frequency: 4 week samples / year Radionuclide Requiring Measurement: TOTAL ALPHA TOTAL BETA</p>	Continuous	<p>CDM: Review of ABCASH data. Comment:</p>
<p>Federal and State Regulatory Requirement: 40 CFR 61.93 (b)(4)(i)& WAC 246-247-075(3) Permit Monitoring and Testing Procedure: 40 CFR 61, Appendix B, Method 114(3) [see AIR 05-303 for clarification details]</p>	Continuous	<p>CDM: "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions" (HNF-EP-0528) specifies both hardware and method used to sample and analytical methods used in the laboratory. Comment:</p>
<p align="center">Permit: AIR 04-101 Issue Date:01-05-04 Effective Date:01-14-04 Obsolete Date: 07-05-06 NOC: Operation of the Liquid Effluent Retention Facility and the 200 Area Effluent Treatment Facility WDOH NOC ID: 562 Date In AOP: 04-11-05 Page in AOP: H-0873</p>		
Requirement	Compliance Status	Compliance Determination Method
<p>The U.S. Department of Energy shall comply with all Conditions and Limitations of this license (WAC 246-247-060(5)).</p>	Not Applicable	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>The total abated emission limit for this Notice of Construction is limited to 4.59E-02 mrem/year to the Maximally Exposed Individual (WAC 246-247-040(5)).</p>	Continuous	<p>CDM: Tracking radionuclide data as specified in administrative procedures. Comment: The abated dose is limited by tracking and maintaining the potential-to-emit below the amounts specified by the conditions below.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>This approval applies only to those activities described below. No additional activities or variations on the approved activities that constitute a "modification" to the emission unit, as defined in WAC 246-247-030(16), may be conducted. The operation of the Liquid Effluent Retention Facility/200 Area Effluent Treatment Facility (LERF/ETF), which includes the load-in station and load-in station filter skid. Incoming wastewater can be added directly to the ETF process or received at the LERF or the load-in station. The LERF is allowed to receive wastewaters via underground pipelines from generator facilities, via pipeline from the load-in station, or directly through a series of access ports located at each basin. The load-in station accommodates wastewater receipt via container (e.g., drums, carboys, tankers, etc.). The ETF wastewater treatment process shall be comprised of a main treatment train and a secondary treatment train. The main treatment train shall provide for the removal or destruction of dangerous and radioactive contaminants from incoming wastewater. After treatment, the effluent shall be transferred to the verification tanks where it is sampled then discharged. Treated effluent is comparable to deionized water and contains tritium, which cannot be economically removed. Contaminants removed in the main treatment train are concentrated in the secondary treatment train. The contaminants shall be heated and dried to a powder form or removed as sludge and dried by the addition of absorbents. These residues shall be containerized and disposed onsite as radioactive waste. Additional approval of the process for this activity is contained in the following Conditions/Limitations.</p>	<p>Continuous</p>	<p>CDM: Review of facility and procedure change documents as specified in administrative procedures. Comment: Facility design and procedure changes require documentation that includes environmental reviews to determine if the change is a modification of the emission unit.</p>
<p>The PTE for this project as determined under WAC 246-247-030(21)(a-c) [as specified in the application] is 8.48E-02 mrem/year. Approved are the associated potential release rates (Curies/year) of: Alpha-0 4.45E-04 Liquid/Particulate Solid WAC 246-247-030(21)(a) Alpha release rate is assumed to be Pu-239/240. The release rate assumes two full basins and the addition of waste water equivalent to ETF's annual operating capacity. In addition to the isotopes specifically listed as approved under this NOC, other radionuclides may be encountered and are approved so long as they are conservatively represented by the total alpha and total beta-gamma constituents. Am-241 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. B/G-0 2.95E+00 Liquid/Particulate Solid WAC 246-247-030(21)(a) Beta/Gamma release rate is assumed to be Sr-90/Cs-137. The release rate assumes two full basins and the addition of waste water equivalent to ETF's annual operating capacity. In addition to the isotopes specifically listed as approved under this NOC, other radionuclides may be encountered and are approved so long as they are conservatively represented by the total alpha and total beta-gamma constituents. C-14 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Ce-144 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Cm-244 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Co-60 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Cs-134 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Eu-154 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Eu-155 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. H-3 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. I-129 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and</p>	<p>Continuous</p>	<p>CDM: Tracking radionuclide data as specified in administrative procedures. Comment: The quantities of individual radionuclides are tracked based on sample results, flowrates, and process knowledge. The MEI dose and potential-to-emit are calculated and the results are placed in the facility record.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>represents less than 25% of the abated dose. K-40 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Mn-54 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Na-22 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Nb-94 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Np-237 Liquid/Particulate Solid WAC 246-247-030(21)(a) . Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Pu-238 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Pu-241 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Ra-226 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Ru-106 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Sb-125 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Se-79 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Tc-99 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. U-233 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. U-234 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. U-235 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. U-236 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. U-238 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Zn-65 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. Zr-95 Liquid/Particulate Solid WAC 246-247-030(21)(a) Contributes less than 0.1 mrem/yr to the MEI, and represents less than 10% of the unabated PTE and represents less than 25% of the abated dose. The radioactive isotopes identified for this emission unit are (no quantities specified): Am-241 C-14 Ce-144 Cm-244 Co-60 Cs-134 Cs-137 Eu-154 Eu-155 H-3 I-129 K-40 Mn-54 Na-22 Nb-94 Np-237 Pu-238 Pu-239/240 Pu-241 Ra-226 Ru-106 Sb-125 Se-79 Sr-90 Tc-99 U-233 U-234 U-235 U-236 U-238 Zn-65 Zr-95 The potential release rates described in this Condition were used to determine control technologies and monitoring requirements for this approval. DOE must notify the Department of a "modification" to the emission unit, as defined in WAC 246-247-030(16). DOE must notify the Department of any changes to a NESHAP major emission unit when a specific isotope is newly identified as contributing greater than 10% of the potential TEDE to the MEI, or greater than 25% of the TEDE to the MEI after controls. WAC 246-247-110(9). DOE must notify the Department of any changes to potential release rates as required by state or federal regulations including changes that would constitute a significant modification to the Air Operating Permit under WAC 173-401-725(4).</p>		

Requirement	Compliance Status	Compliance Determination Method
<p>Notice will be provided according to the particular regulation under which notification is required. If the applicable regulation(s) does not address manner and type of notification, DOE will provide the Department with advance written notice by letter or electronic mail but not solely by copies of documents.</p>		
<p>The following activities are approved for the 296-E-1 Emission Unit Point-Source Emissions: -ETF operations and maintenance. -Containerized wastewater additions to the ETF process. -Leaks into the ETF secondary containment. - Secondary waste packaging and storage.</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>If this emission unit is not in compliance with the standards in WAC 246-247-040 during construction or operation, the department reserves the right to require modifications to bring it into compliance (WAC 246-247-040-(5) and WAC 246-247-060-(5)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>The facility shall notify the department at least seven calendar days prior to any planned preoperational tests of new or modified emission units that involve emissions control, monitoring, or containment systems of the emission unit(s). The department reserves the right to witness or require preoperational tests involving the emissions control, monitoring, or containment systems of the emissions unit(s) (WAC 246-247-060(4)).</p>	<p>Not Applicable</p>	<p>CDM: N/A. No preoperational tests were conducted. Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>The facility must be able to demonstrate that it has a quality assurance program compatible with applicable national standards (WAC 246-247-075(6)).</p>	<p>Continuous</p>	<p>CDM: "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions" (HNF-EP-0528). Comment:</p>
<p>The department retains the right to conduct stack sampling, environmental monitoring or other testing around this unit to assure compliance. If directed by the department, the facility must make provision for such testing (WAC 246-247-075(9) and (10)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility must be able to demonstrate workers associated with this emission unit are trained in the use and maintenance of control and monitoring systems, and in the performance of associated tests and emergency procedures (WAC 246-247-075(12)).</p>	<p>Continuous</p>	<p>CDM: Review of facility personnel certification training and On-the-Job-Training records. Comment: Records of certification training courses and OJT training are placed in the facility record.</p>
<p>All facilities must be able to demonstrate the reliability and accuracy of emissions monitoring data (WAC 246-247-075(13)).</p>	<p>Continuous</p>	<p>CDM: Review of ABCASH data. Comment: The required reliability and accuracy are established by written agreement with the monitoring laboratory. See "Statement of Work for Services Provided by the WSCF for the Effluent & Environmental Monitoring Program" (HNF-EP-0835).</p>
<p>The Department reserves the right to inspect and audit all construction activities, equipment, operations, documents, data and other records related to compliance with the requirements of this chapter (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>The department may require an ALARACT demonstration at any time (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>The facility must meet all reporting and record keeping requirements of 40 CFR 61, Subpart H (WAC 246-247-080(2)).</p>	<p>Continuous</p>	<p>CDM: Reporting: annual "Radionuclide Air Emissions Report for Hanford Site Calendar Year 2006". Recordkeeping: review of ABCASH data and f Comment: Reporting requirements are given in the annual report. Recordkeeping includes ABCASH and radionuclide tracking data, which are in the facility record.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility shall report all measured or calculated emissions annually (WAC 246-247-080(3)).</p>	<p>Continuous</p>	<p>CDM: Annual "Radionuclide Air Emissions Report for Hanford Site Calendar Year 2006". Comment:</p>
<p>The facility shall notify the department within twenty-four hours of any shutdown, or of any transient abnormal condition lasting more than four hours or other change in facility operations which, if allowed to persist, would result in emissions of radioactive material in excess of applicable standards or license requirements (WAC 246-247-080(5)).</p>	<p>Not Applicable</p>	<p>CDM: N/A. No such transient abnormal conditions occurred. Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>The licensee 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: In the case of permanent shutdown of the emission unit: (i) the licensee completes the monitoring and associated recordkeeping for that period prior to the shutdown. (ii) the licensee files a report of closure with the Department of Health in accordance with WAC 246-247-080(6). An emission unit will not be considered to be permanently shut down or completed until a report of closure is received by the Department of Health (WAC 246-247-080(6)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>
<p>The facility shall maintain readily (promptly) retrievable storage areas (on site) for all records and documents related to, and which may help establish compliance with, the requirements of this chapter. The facility shall keep these records available for department inspection for at least five years (WAC 246-247-080(8)).</p>	<p>Continuous</p>	<p>CDM: Review of ABCASH, radionuclide tracking data, and maintenance data in the facility record. Records are maintained in the facility record as specified by administrative procedures. Comment:</p>
<p>The facility shall ensure all emissions units are fully accessible to department inspectors. In the event the hazards associated with accessibility to a unit require training and/or restriction or requirements for entry, the facility owner or operator shall inform the department, prior to arrival, of those restrictions or requirements. The owner or operator shall be responsible for providing the necessary training, escorts, and support services to allow the department to inspect the facility. At a minimum for unannounced inspections, such requirements or restrictions must be told to inspectors to provide an opportunity for inspectors to meet those requirements prior to the inspection (WAC 246-247-080(9)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined the licensee need not certify conditions which provide information, convey a right, pertain to future actions, or pertain to agency actions.</p>

Requirement	Compliance Status	Compliance Determination Method
The facility shall make available, in timely manner, all documents requested by the department for review. The facility shall allow the department to review documents in advance of an inspection. The facility shall allow access to classified documents by representatives of the department with the appropriate security clearance and a demonstrable need-to-know (WAC 246-247-080(10)).	Continuous	CDM: Review of ABCASH, radionuclide tracking data, and maintenance data in the facility record. Records are maintained in the facility record as specified by administrative Comment:
The emissions for this activity from the 296-E-1 stack are limited to 3.89E-02 mrem/year unabated and 1.95E-05 mrem/year abated.	Continuous	CDM: Review of ABCASH records and tracking radionuclide data as specified in administrative procedures. Comment: The abated dose is determined using ABCASH data and is included in annual "Radionuclide Air Emissions Report for Hanford Site Calendar Year 2006". The unabated dose is limited by tracking and maintaining the potential-to-emit below the amounts specified by the conditions above.

P-241C104-001
WDOH Emission Unit ID : 716
Page in AOP : H-0695

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : HEPA Required Units : 1 Add'l Description: Single Passive HEPA Filter	Continuous	CDM: Field interviews. Comment: None
Required Sampling: PCM will be a smear survey on the inside surface of the ducting and downstream of the HEPA filter or on the outside of the screen covering the outlet of the vent. Sampling Frequency: 1 per year Radionuclide Requiring Measurement: Levels below 10,000 dpm/100cm ² beta/gamma and 200 dpm/cm ² alpha will verify low emissions.	Continuous	CDM: Field interviews. Comment: Annual Radiological Surveillance Task, Radiological Survey Reports, and field interviews.
Federal and State Regulatory Requirement: WAC 246-247-075(3)	Continuous	CDM: Near Field Monitoring program. Comment: None

P-241C105-001
WDOH Emission Unit ID : 717
Page in AOP : H-0699

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : HEPA Required Units : Add'l Description: Single Passive HEPA Filter	Continuous	CDM: Field interviews. Comment: None
Required Sampling: PCM will be a smear survey on the inside surface of the ducting and downstream of the HEPA filter or on the outside of the screen covering the outlet of the vent. Sampling Frequency: 1 per year. Radionuclide Requiring Measurement: Levels below 10,000 dpm/100cm ² beta/gamma and 200 dpm/cm ² alpha will verify low emissions.	Continuous	CDM: Field interviews. Comment: Annual Radiological Surveillance Task, Radiological Survey Reports, and field interviews.
Federal and State Regulatory Requirement: WAC 246-247-075(3)	Continuous	CDM: Near Field Monitoring Program. Comment: None

P-241C106
WDOH Emission Unit ID : 712
Page in AOP : H-0691

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : HEPA Required Units : 1 Add'l Description: Single Passive HEPA Filter	Continuous	CDM: Field interviews. Comment: None
Required Sampling: PCM will be a smear survey on the inside surface of the ducting and downstream of the HEPA filter or on the outside of the screen covering the outlet of the vent. Sampling Frequency: 1 per year Radionuclide Requiring Measurement: Levels below 10,000 dpm/100cm ² beta/gamma and 200 dpm/100 cm ² alpha will verify low emissions.	Continuous	CDM: Field interviews. Comment: Annual Radiological Surveillance Task, Radiological Survey Reports, and field interviews.
Federal and State Regulatory Requirement: WAC 246-247-075(3)	Continuous	CDM: Near Field Monitoring Program. Comment: None

P-242A-001
WDOH Emission Unit ID : 141
Page in AOP : 2-110

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Fan Required Units : 1 Add'l Description: 2 parallel flow paths (Minimum 1 parallel path in operation)	Continuous	CDM: Field interviews, engineering drawing, CH2M HILL notification procedure, and notification logbook. Comment: Drawing H-2-69294. Exhauster shut down once during the reporting period and an unplanned switch between fans K1-5-3 to K1-5-2 occurred once; reported per the CH2M HILL notification procedure.
Zone or Area : Abatement Technology : HEPA Required Units : 2 Add'l Description: 2 parallel flow paths with 2 HEPAs in series	Continuous	CDM: Field interviews. Comment: Drawing H-2-69294
Zone or Area : Abatement Technology : Prefilter Required Units : 1 Add'l Description: 2 parallel flow paths with 1 prefilter	Continuous	CDM: Field interviews. Comment: Drawing H-2-69294
Zone or Area : Abatement Technology : Prefilter Required Units : 1 Add'l Description: 2 parallel flow paths with 1 bank per flow path	Continuous	CDM: Field interviews. Comment: Drawing H-2-69294
Required Sampling: Record Sample Sampling Frequency: 4 week sample/ year Radionuclide Requiring Measurement: TOTAL ALPHA TOTAL BETA	Continuous	CDM: ABCASH program. Comment: ABCASH EDP code number E645.
Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4)(i) & WAC 246-247-075(3) Permit Monitoring and Testing Procedure: Appendix B, Method 114(3)	Continuous	CDM: CH2M HILL NESHAP quality assurance program. Comment: None
No active NOC approvals in the AOP for this certification period.		

P-291A001-001
WDOH Emission Unit ID : 369
Page in AOP : 2-042

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Fan Required Units : 2 Add'l Description: In parallel, one operating, one back-up	Continuous	CDM: Fans are in place. Visual inspection and drawing H-2-58540. Comment:
Zone or Area : Abatement Technology : HEPA Required Units : 2 Add'l Description: In series	Continuous	CDM: Filters are in place. Visual inspection, drawings H-2-75975 and H-2-75976. Comment:
Zone or Area : Abatement Technology : Fiberglass Filter Required Units : 1 Add'l Description: (Deep Bed Fiberglass filter)	Continuous	CDM: Filters are in place. Drawing H-2-58540 and visual inspection. Comment:
Required Sampling: Record Sample Sampling Frequency: Continuous Radionuclide Requiring Measurement: 239/240Pu, 241 Am	Continuous	CDM: Effluent stream passes through a filter media. Filter is removed and analyzed. Analytical results are in ABCASH. Samples taken per procedure. Comment: "Continuous compliance" means collection of all monitoring data required by the permit under the data collection frequency specified in the permit, with no deviations, and no other information that indicates deviations, except for planned shutdowns, upsets, or malfunctions during which compliance is not required.
Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4)(i) & WAC 246-247-075(2) Permit Monitoring and Testing Procedure: 40 CFR 60, Appendix A, Method 2; 40 CFR 61, Appendix B, Method 114; 61.93(b)(2)(ii) ANSI N13.1	Continuous	CDM: Stack airflow test and maintenance procedures satisfy facility specific portion of this monitoring requirement. "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions" (HNF-EP-0528) specifies both hardware used to sample and analytical methods used in the laboratory. Comment:
No active NOC approvals in the AOP for this certification period.		

P-296A018-001
WDOH Emission Unit ID : 217
Page in AOP : 2-104

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Heater Required Units : 1 Add'l Description:	Continuous	CDM: Field interviews. Comment: None
Zone or Area : Abatement Technology : Fan Required Units : 1 Add'l Description: Annulus exhauster AY 101, intermittent operations.	Continuous	CDM: Field interviews. Comment: None
Zone or Area : Abatement Technology : HEPA Required Units : 2 Add'l Description: In series	Continuous	CDM: Field interviews. Comment: None
Required Sampling: Record Sample Sampling Frequency: 4 week sample/ year Radionuclide Requiring Measurement: TOTAL ALPHA TOTAL BETA	Continuous	CDM: ABCASH program. Comment: ABCASH EDP code number E060.
Federal and State Regulatory Requirement: 40 CFR 61.93[b][4][i] WAC 246-247-075[3] Permit Monitoring and Testing Procedure: Appendix B, Method 114(3) [see AIR 05-303 for clarification details]	Continuous	CDM: CH2M HILL NESHAP quality assurance program. Comment: None
No active NOC approvals in the AOP for this certification period.		

P-296A019-001
WDOH Emission Unit ID : 218
Page in AOP : 2-105

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Heater Required Units : 1 Add'l Description:	Continuous	CDM: Field interviews, engineering drawings, and operating procedures. Comment: None
Zone or Area : Abatement Technology : Fan Required Units : 1 Add'l Description: Annulus exhauster	Continuous	CDM: Field interviews, engineering drawings, and operating procedures. Comment: None

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : HEPA Required Units : 2 Add'l Description: In series	Continuous	CDM: Field interviews, engineering drawings, and operating procedures. Comment: None
Required Sampling: Record Sample Sampling Frequency: 4 week sample/ year Radionuclide Requiring Measurement: TOTAL ALPHA TOTAL BETA	Continuous	CDM: ABCASH program. Comment: ABCASH EDP code number E061.
Federal and State Regulatory Requirement: 40 CFR 61.93[b][4][i] WAC 246-247-075[3] Permit Monitoring and Testing Procedure: Appendix B, Method 114(3)	Continuous	CDM: CH2M HILL NESHAP quality assurance program. Comment: None
No active NOC approvals in the AOP for this certification period.		

P-296A020-001
 WDOH Emission Unit ID : 174
 Page in AOP : H-0391

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Tank 241-AZ-101 Abatement Technology : HEPA Required Units : 1 Add'l Description: 2 HEPA's in series	Continuous	CDM: Field interviews, CH2M HILL notification procedure and notification logbook. Comment: Annual calibration of HEPA differential pressure gauges performed late; reported per the CH2M HILL notification procedure. This emission unit was not utilized for construction activities.
Zone or Area : Tank 241-AZ-102 Abatement Technology : HEPA Required Units : 1 Add'l Description: 2 HEPA's in series	Continuous	CDM: Field interviews, CH2M HILL notification procedure and notification logbook. Comment: Annual calibration of HEPA differential pressure gauges performed late; reported per the CH2M HILL notification procedure. This emission unit was not utilized for construction activities.
Zone or Area : 241-AZ Abatement Technology : Fan Required Units : 1 Add'l Description:	Continuous	CDM: Field interviews. Comment: This emission unit was not utilized for construction activities.

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : 241-AZ Abatement Technology : Radial Damper Required Units : 1 Add'l Description: Set to allow only 2,000 CFM (1,000 CFM per annulus)	Continuous	CDM: Field interviews. Comment: This emission unit was not utilized for construction activities.
Required Sampling: Record Sample Sampling Frequency: 4 week sample/ year Radionuclide Requiring Measurement: TOTAL ALPHA TOTAL BETA	Continuous	CDM: ABCASH program. Comment: ABCASH EDP code number E197. This emission unit was not utilized for construction activities.
Federal and State Regulatory Requirement: 40 CFR 61.93[b][4][i] WAC 246-247-075[3] Permit Monitoring and Testing Procedure: Appendix B, Method 114(3) [see AIR 05-303 for clarification details]	Continuous	CDM: CH2M HILL NESHAPs quality assurance program. Comment: This emission unit was not utilized for construction activities.

P-296A028-001
 WDOH Emission Unit ID : 156
 Page in AOP : 2-103

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Heater Required Units : 2 Add'l Description: 1 for each train	Continuous	CDM: Field interviews, engineering drawings, and operating procedures. Comment: None
Zone or Area : Abatement Technology : De-entrainer Required Units : 2 Add'l Description: 1 for each train	Continuous	CDM: Field interviews, engineering drawings, and operating procedures. Comment: None
Zone or Area : Abatement Technology : Fan Required Units : 2 Add'l Description: 1 for each train	Continuous	CDM: Field interviews, CH2M HILL notification procedure, and notification logbook. Comment: Exhauster shut down once during the reporting period; reported per the CH2M HILL notification procedure.
Zone or Area : Abatement Technology : HEPA Required Units : 4 Add'l Description: In series (1 stack ventilates 2 mirror trains of abatement systems)	Continuous	CDM: Field interviews, engineering drawings, and operating procedures. Comment: None

Requirement	Compliance Status	Compliance Determination Method
Required Sampling: Record Sample Sampling Frequency: 4 week sample/ year Radionuclide Requiring Measurement: TOTAL ALPHA TOTAL BETA	Continuous	CDM: ABCASH program, CH2M HILL notification procedure, and notification logbook. Comment: ABCASH EDP code number E272. CAM and record sampler shut down once; reported per the CH2M HILL notification procedure.
Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4)(i) & WAC 246-247-075(3) Permit Monitoring and Testing Procedure: Appendix B, Method 114(3)	Continuous	CDM: CH2M HILL NESHAP quality assurance program. Comment: None
No active NOC approvals in the AOP for this certification period.		

P-296A030-001
 WDOH Emission Unit ID : 228
 Page in AOP : 2-096

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Heater Required Units : 2 Add'l Description: 1 in each train	Continuous	CDM: Field interviews. Comment: None
Zone or Area : Abatement Technology : Deentrainer Required Units : 2 Add'l Description: 1 in each train	Continuous	CDM: Field interviews. Comment: None
Zone or Area : Abatement Technology : HEPA Required Units : 4 Add'l Description: 1 stack ventilates 2 mirror trains of abatement systems	Continuous	CDM: Field interviews. Comment: None
Zone or Area : Abatement Technology : Fan Required Units : 2 Add'l Description: 1 in each train (one in operation at a time)	Continuous	CDM: Field interviews. Comment: None

Requirement	Compliance Status	Compliance Determination Method
Required Sampling: Record Sample Sampling Frequency: 4 week sample/ year Radionuclide Requiring Measurement: TOTAL ALPHA TOTAL BETA	Continuous	CDM: ABCASH program, CH2M HILL notification procedure, and notification logbook. Comment: ABCASH EDP code number E903. Annulus record sampler calibration missed during the reporting period; reported per the CH2M HILL notification procedure.
Federal and State Regulatory Requirement: 40 CFR 61.93 (b)(4)(i)& WAC 246-247-075(3) Permit Monitoring and Testing Procedure: 40 CFR 61, Appendix B, Method 114(3)	Continuous	CDM: CH2M HILL NESHAP quality assurance program. Comment: None
No active NOC approvals in the AOP for this certification period.		

P-296A041-001
WDOH Emission Unit ID : 205
Page in AOP : 2-101

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Fan Required Units : 1 Add'l Description: 2 parallel flow paths, minimum of 1 in operation at a time; annulus exhauster	Continuous	CDM: Field interviews, CH2M HILL notification procedure and notification logbook. Comment: Exhauster shut down once during the reporting period; reported per the CH2M HILL notification procedure.
Zone or Area : Abatement Technology : HEPA Required Units : 2 Add'l Description: 2 parallel flow paths with 2 HEPAs in series	Continuous	CDM: Field interviews. Comment: None
Zone or Area : Abatement Technology : Heater Required Units : 1 Add'l Description: 2 parallel flow paths with 1 heater	Continuous	CDM: Field interviews. Comment: None
Required Sampling: Record Sample Sampling Frequency: 4 week sample/ year Radionuclide Requiring Measurement: TOTAL ALPHA TOTAL BETA	Continuous	CDM: ABCASH program, field interviews, CH2M HILL notification procedure, and notification logbook. Comment: ABCASH EDP code number E015. Record sampler totalizer failed calibration during the reporting period; reported per the CH2M HILL notification procedure.

Requirement	Compliance Status	Compliance Determination Method
Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4)(i) & WAC 246-247-075(3) Permit Monitoring and Testing Procedure: 40 CFR 61, Appendix B, Method 114(3)	Continuous	CDM: CH2M HILL NESHAP quality assurance program. Comment: None
No active NOC approvals in the AOP for this certification period.		

P-296A042-001
WDOH Emission Unit ID : 93
Page in AOP : H-0122

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Condenser Required Units : 1 Add'l Description:	Continuous	CDM: Field interviews, CH2M HILL notification procedure and notification logbook. Comment: Chiller shut down multiple times during the reporting period; reported per the CH2M HILL notification procedure.
Zone or Area : Abatement Technology : HEME Required Units : 1 Add'l Description:	Continuous	CDM: Field interviews. Comment: None
Zone or Area : Abatement Technology : Heater Required Units : 1 Add'l Description: 2 parallel flow paths with 1 operational	Continuous	CDM: Field interviews. Comment: None
Zone or Area : Abatement Technology : HEPA Required Units : 2 Add'l Description: Before and After the HEGA (gas absorber) 2 parallel flow paths	Continuous	CDM: Field interviews. Comment: None
Zone or Area : Abatement Technology : HEGA Required Units : 1 Add'l Description: 2 parallel flow paths	Continuous	CDM: Field interviews, CH2M HILL notification procedure and notification logbook. Comment: High-efficiency gas absorber (HEGA) failed aerosol test two times during the reporting period; reported per the CH2M HILL notification procedure.

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Fan Required Units : 1 Add'l Description: 2 parallel flow paths	Continuous	CDM: Field interviews, CH2M HILL notification procedure and notification logbook. Comment: Exhauster shut down once during the reporting period with possible moisture noted; reported per the CH2M HILL notification procedure.
Required Sampling: Continuous Sampling Frequency: Continuous Radionuclide Requiring Measurement: All radionuclides which could contribute 10% of the potential TEDE.	Continuous	CDM: ABCASH program, field interviews, CH2M HILL notification procedure, and notification logbook. Comment: ABCASH EDP code number E147. CAM failed once during the reporting period; reported per the CH2M HILL notification procedure.
Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4) & WAC 246-247-75(2) Permit Monitoring and Testing Procedure: Method 2 appendix A Method 114 appendix B 61.93(b)(2)(ii) ANSI N13.1	Continuous	CDM: CH2M HILL NESHAP quality assurance program. Comment: None
Permit: AIR 02-1239 Issue Date: 12-31-02 Obsolete Date: 07-05-06 NOC: 241-AY and 241-AZ Ventilation Upgrades WDOH NOC ID: 290 Date in AOP: 04-11-05 Page in AOP: H-0122		
Requirement	Compliance Status	Compliance Determination Method
The U.S. Department of Energy shall comply-with all Conditions and Limitations of this license (WAC 246-247-060(5)).	Continuous	CDM: Field interviews, and complied with all conditions and limitations in this NOC approval. Comment: None
The total abated emission limit for this Notice of Construction is limited to 1.80E-03 mrem/year to the Maximally Exposed Individual (WAC 246-247-040(5)). The total limit on the Potential-To-Emit for this Notice of Construction is limited to 3.20E+03 mrem/year to the Maximally Exposed Individual (WAC 246-247-030(21)).	Continuous	CDM: Field interviews, ABCASH isotopic analysis of record sampler, tracked via ERS and reported in the annual radiological air emissions report, and verified basis for APQ in NOC application. Comment: None
No activities, other than those explicitly described within this approval, shall be conducted without prior written approval. The approved activities are limited to: the ventilation of the 241-AY and 241-AZ Tank Farms which each contain two double-shell tanks (DSTs). A DST consists of a concrete shell and dome, insulating concrete base, and two steel liners. The primary (inner) steel liner and outer steel liner are separated by a 0.76 meter annulus. Both liners are contained inside the shell. The tanks have a flat bottom with a usable depth of 9.28 meters, allowing a tank to contain 3,800,000 liters of waste. The 241-AY and 241-AZ tanks contain mixed waste in the form of liquids or contained solids (suspended or settled). As part of the treatment	Continuous	CDM: Field interviews, CH2M HILL work planning/controls/documents, and procedures. Comment: None

Requirement	Compliance Status	Compliance Determination Method
<p>and storage process, the contents in each of the four tanks could be mixed periodically to control gas entrapment in the settled solids, to control temperature, for chemical treatment, or for waste retrieval. Contained solids are mobilized, as required, as part of this process by hydraulic action of the mixer pumps or by use of air lift circulators in each of the tanks. Mobilization of contained solids normally occurs in a single tank in each farm at a time. During such activities, as well as during storage, the ventilation system shall maintain the vapor space in each tank below atmospheric pressure. Air flow is from the tank to a glycol cooled recirculation system and to a common header. The common header is the point in the overall ventilation system at which ventilation flow is provided to the emissions control system. Also, a portion of each tank's exhaust can be recirculated to assist in maintaining temperature. The recirculation system takes vapor from the tank, cools and condenses it to remove vapor and some entrained particulate, further removes moisture via a separator, and returns a portion of the cooled vapor to the tank. This provides cooling for the tank while reducing air emissions. Nominal flow rates in the recirculation system vary from zero cubic meter per second (bypassed) to 0.25 cubic meter per second per tank, at standard temperature and pressure conditions. At the higher flow rate, approximately 0.05 cubic meter per second is provided to the emissions control system before the remaining 0.2 cubic meter per second is recirculated to the tank. Similar air flow from the other three tanks is combined in the common ventilation header connecting the discharges of the other recirculation coolant systems. The combined flow is discharged to the emissions control system. The recirculation system is considered part of the process because the collected material is returned to the tank. The common header is considered the emission source. When mixer pumps are operating in a tank the 0.25 cubic meter per second drawn from the tank may not be recirculated but may be combined with the flow from the other tanks for a total discharge to the emissions control system of 0.4 to 0.5 cubic meter per second. Numerous other combinations of discharge flow rates are possible but the combined annual average discharge flow rate to the emissions control system shall not be greater than 0.5 cubic meter per second. During system upset conditions, such as an automatic shutdown of one exhaust train and start of the opposite train, discharge flow rates could reach 0.6 cubic meter per second for several seconds. The portion of the stream discharged to atmosphere shall flow through a condenser, high-efficiency mist eliminator, heater, two HEPA filters in series with a gas adsorption unit between the HEPAs. For the purpose of calculating abated emissions, only the HEPA filter control efficiencies are used. The annual average discharge flow rate is considered to be 0.5 cubic meter per second. Discharge flow rates can vary from 0.2 cubic meter per second to 0.5 cubic meter per second.</p>		
<p>The Annual Possession Quantity is limited to the following radionuclides (Curies/year): Ac-227 1.65 E-02 Am-241 7.34 E+04 Am-241 7.34 E+04 Ba-137 m 1.14 E+07 C-14 5.92 E+01 Cd-113 m 4.00 E+03 Cm-242 4.34 E+01 Cm-243 1.00 E+01 Cm-244 2.44 E+02 Co-60 9.55 E+03 Cs-134 8.50 E+04 Cs-137 1.22 E+07 Eu-152 5.15 E+02 Eu-154 9.15 E+04 Eu-155 1.44 E+05 H-3 1.53 E+04 I-129 9.61 E+00 Nb-93 m 2.46 E+02 Ni-59 8.57 E+01 Ni-63 9.00 E+03 Np-237 3.29 E+01 Pa-231 2.66 E-02 Pu-238 5.58 E+02 Pu-239 2.21 E+03 Pu-240 6.44 E+02 Pu-241 4.19 E+04 Pu-242 2.10 E-01 Ra-226 3.27 E-03 Ra-228 1.46 E-01 Ru-106 1.82 E+05 Sb-125 2.24 E+05 Se-79 9.76 E+01 Sm-151 3.37 E+05 Sn-126 1.55 E+02 Sr-90 1.79 E+07 Tc-99 2.11 E+03 Th-229 3.49 E-03 Th-232 1.45 E-02 U-232 6.15 E-01 U-233 2.36 E+00 U-234 4.61 E+00 U-235 1.79 E-01 U-236 3.29 E-01 U-238 3.54 E+00 Y-90 1.79 E+07 Zr-93 4.65 E+02</p>	<p>Continuous</p>	<p>CDM: Field interviews, WDOH approved logs, and verified basis for APQ in NOC application. Comment: None</p>

Requirement	Compliance Status	Compliance Determination Method
The department may require an ALARACT demonstration at any time (WAC 246-247-080(1)).	Not Applicable	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
Any deviation from the description of the modification or new construction, without approval of the department, may result in enforcement action tinder WAC 246-247-100.	Not Applicable	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
The ventilation flow rate is limited to a maximum of 0.5 cubic meters per second.	Continuous	<p>CDM: Field interviews, CH2M HILL work planning/controls/documents, procedures, and surveillance documents. Comment: None</p>
Abatement controls are those required to be in place at the point effluent enters the vapor space, not necessarily at a common header. Therefore, the following are required control: the recirculating and cooling system coming off each tank, consisting of a condenser, evaporative tower, pump and moisture separator; a condenser at the common header, with a water chiller, and pump, a high efficiency moisture eliminator; an electric heater, two parallel sets of HEPA filters, each with a high efficiency gas absorber. Down time for any of these components must be negotiated with the department.	Continuous	<p>CDM: Field interviews, CH2M HILL work planning/controls/documents, and procedures. Comment: None</p>

Requirement	Compliance Status	Compliance Determination Method
<p>Any problems, which could affect the monitoring, ventilation or controls to this facility must be reported to the department.</p>	<p>Continuous</p>	<p>CDM: Field interviews, CH2M HILL notification procedures, and notification logbook. Comment: High-efficiency gas absorber (HEGA) failed aerosol test two times during the reporting period; reported per the CH2M HILL notification procedure. Chiller shut down multiple times during the reporting period; reported per the CH2M HILL notification procedure. Exhauster shut down once during the reporting period with possible moisture noted; reported per the CH2M HILL notification procedure. CAM failed once during the reporting period; reported per the CH2M HILL notification procedure.</p>
<p>Continuous monitoring must be in place prior to operating. This will include continuous ambient air sampling for this project.</p>	<p>Continuous</p>	<p>CDM: ABCASH program, Hanford Site near-facility/field monitoring program, CH2M HILL notification program, and notification logbook. Comment: CAM failed once during the reporting period; reported per the CH2M HILL notification procedure.</p>
<p>These Conditions and Limitations must be documented in an established procedure prior to starting activities granted by this approval (WAC 246-247-040(5)) and (WAC 246-247-060(5)).</p>	<p>Continuous</p>	<p>CDM: Field interviews, CH2M HILL work planning/controls/documents, and procedures. Comment: None</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The department must approve any deviation from required or recommended monitoring standards.</p>	<p>Continuous</p>	<p>CDM: Field interviews, CH2M HILL work planning/controls/documents, and procedures, CH2M HILL notification procedures, and notification logbook. Comment: High-efficiency gas absorber (HEGA) failed aerosol test two times during the reporting period; reported per the CH2M HILL notification procedure. Chiller shut down multiple times during the reporting period; reported per the CH2M HILL notification procedure. Exhauster shut down once during the reporting period with possible moisture noted; reported per the CH2M HILL notification procedure. CAM failed once during the reporting period; reported per the CH2M HILL notification procedure.</p>
<p>The department reserves the right to conduct an environmental surveillance program around this emission unit and to require the facility to conduct or modify its own environmental monitoring program (WAC 246-247-075(9)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility shall report all measured or calculated emissions annually (WAC 246-247-080(3)).</p>	<p>Continuous</p>	<p>CDM: Field interviews, ABCASH isotopic analysis of record sampler, tracked via ERS and reported in the annual radiological air emissions report, and verified basis for APQ in NOC application. Comment: None</p>
<p>The NOC constitutes a contract between the department and the facility. The department must approve any changes.</p>	<p>Continuous</p>	<p>CDM: Field interviews. Comment: There were no changes during the reporting period.</p>

Requirement	Compliance Status	Compliance Determination Method
Nothing may be inferred that is not specifically described in the NOC.	Not Applicable	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
The facility must be able to demonstrate the reliability and accuracy of emissions data and other test results from this emission unit (WAC 246-247-075(13)).	Continuous	<p>CDM: CH2M HILL quality assurance program, records, and procedures. Comment: None</p>
The facility must be able to demonstrate that it has a quality assurance program compatible with applicable national standards (WAC 246-247-075(6)).	Continuous	<p>CDM: CH2M HILL quality assurance program, records, and procedures. Comment: None</p>
The department retains the right to conduct stack sampling, environmental monitoring or other testing around this unit to assure compliance. If directed by the department, the facility must make provision for such testing (WAC 246-247-075(9) and (10)).	Not Applicable	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
The facility shall notify the department seven days in advance of any planned pre-operational testing of the emission unit's control, monitoring or containment systems. The department reserves the right to observe such tests (WAC 246-247-060(4)).	Not Applicable	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
If this emission unit is not in compliance with the standards in WAC 246-247-040 during construction or operation, the department reserves the right to require modifications to bring it into compliance (WAC 246-247-060-(2)(d)).	Not Applicable	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility must be able to demonstrate that workers associated with this emission unit are trained in the use and maintenance of control and monitoring systems, and in the performance of associated tests and emergency procedures (WAC 246-247-075(12)).</p>	<p>Continuous</p>	<p>CDM: CH2M HILL training program, training records, work controls, and procedures. Comment: None</p>
<p>The department reserves the right to inspect and audit all construction activities, equipment, operations, documents, data and other records related to compliance with the requirements of this chapter (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility shall report to the department within 24 hours, any unexpected release of radioactivity, shutdown or other condition that, if allowed to persist, or lasts more than four hours, would result in the emission of radionuclides in excess of any standards or limitation in the license. Applicable standards (WAC 246-247-040) include unit specific emission limits (paragraph 5), the offsite dose standard (paragraph 1), BARCT (paragraph 3) or ALARACT (paragraph 4), whichever is applicable, or any limitation included in this approval (paragraph 5) (WAC 246-247-080(5)).</p>	<p>Continuous</p>	<p>CDM: Field interviews, CH2M HILL notification procedure, and notification logbook. Comment: Exhauster shut down once during the reporting period with possible moisture noted; reported per the CH2M HILL notification procedure.</p>
<p>Prior to permanent shut down of an emission unit or completion of an activity, the permittee shall file a report of closure with the Department of Health. The report of closure shall include the date of the shutdown and indicate whether, despite cessation of operation, there is still a potential for radioactive air emissions and a need for any active or passive ventilation system with emission control and/or monitoring devices. An emission unit or activity will not be considered permanently shut down or completed until a report of closure is received and approved by Health. Once an emission unit is permanently shut down or an activity is completed, thereby rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the shutdown or completion, to meet any monitoring, record keeping, and reporting, requirements which are no longer applicable for that emission unit or activity. All records, relating to the shut down emission unit or completion of an activity, generated while the emission unit or activity was in operation, shall be kept in accordance with (WAC 246-247-080(8)). (WAC 246-247-080(6))</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>

Requirement	Compliance Status	Compliance Determination Method
The facility shall maintain readily (promptly) retrievable storage areas (on site) for all records and documents related to, and which may help establish compliance with, the requirements of this chapter. The facility shall keep these records available for department inspection for at least five years (WAC 246-247-080(8)).	Continuous	CDM: CH2M HILL records management, and procedures. Comment: None
The facility shall ensure all emissions units are fully accessible to department inspectors. In the event the hazards associated with accessibility to a unit require training and/or restriction or requirements for entry, the facility owner or operator shall inform the department, prior to arrival, of those restrictions or requirements. The owner or operator shall be responsible for providing the necessary training, escorts, and support services to allow the department to inspect the facility. At a minimum for unannounced inspections, such requirements or restrictions must be told to inspectors to provide an opportunity for inspectors to meet those requirements prior to the inspection (WAC 246-247-080(9)).	Not Applicable	CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.
The facility shall make available, in timely manner, all documents requested by the department for review. The facility shall allow the department to review documents in advance of an inspection. The facility shall allow access to classified documents by representatives of the department with the appropriate security clearance and a demonstrable need-to-know (WAC 246-247-080(10)).	Continuous	CDM: CH2M HILL records management, and procedures. Comment: None
The facility must meet all reporting and recordkeeping requirements of 40 CFR 61, Subpart H. (WAC 246-247-080(2)).	Continuous	CDM: CH2M HILL records management, and procedures. Comment: None

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WDOH Emission Unit ID : 216
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Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Fan Required Units : 1 Add'l Description: 2 parallel flow paths; only 1 flow path normally operates at a time; either fan can be used with either filter train.	Continuous	CDM: Field interviews, engineering drawings, and operating procedures. Comment: None
Zone or Area : Abatement Technology : HEPA Required Units : 1 Add'l Description: 2 parallel flow paths; only 1 flow path normally operates at a time	Continuous	CDM: Field interviews, engineering drawings, and operating procedures. Comment: None

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Prefilter Required Units : 1 Add'l Description: 2 parallel flow paths; only 1 flow path normally operates at a time	Continuous	CDM: Field interviews, engineering drawings, and operating procedures. Comment: None
Required Sampling: Record Sample Sampling Frequency: 4 week sample/ year Radionuclide Requiring Measurement: TOTAL ALPHA TOTAL BETA	Continuous	CDM: ABCASH program. Comment: ABCASH EDP code number E148.
Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4)(i) & WAC 246-247-075(3) Permit Monitoring and Testing Procedure: 40 CFR 61, Appendix B, Method 114(3)	Continuous	CDM: CH2M HILL NESHAP quality assurance program. Comment: None
No active NOC approvals in the AOP for this certification period.		

P-296AN-001
 WDOH Emission Unit ID : 227
 Page in AOP : H-0319

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Deentrainer Required Units : 2 Add'l Description: 1 or 2 operating	Continuous	CDM: Field interviews and engineering/construction drawings. Comment: This emission unit was not utilized for construction activities.
Zone or Area : Abatement Technology : Heater Required Units : 2 Add'l Description: 1/train, 2 trains	Continuous	CDM: Field interviews and engineering/construction drawings. Comment: This emission unit was not utilized for construction activities.
Zone or Area : Abatement Technology : Prefilter Required Units : 2 Add'l Description: 1/train, 2 trains	Continuous	CDM: Field interviews and engineering/construction drawings. Comment: This emission unit was not utilized for construction activities.

Requirement	Compliance Status	Compliance Determination Method
<p>Zone or Area : Abatement Technology : HEPA Required Units : 8 Add'l Description: 2 banks of 2 HEPA filters/train, 2 trains</p>	<p>Continuous</p>	<p>CDM: Field interviews and engineering/construction drawings. CH2M HILL notification procedure and notification logbook. Comment: This emission unit was not utilized for construction activities. Annual calibration of the differential pressure gauge was missed during the reporting period; reported per the CH2M HILL notification procedure.</p>
<p>Zone or Area : Abatement Technology : Fan Required Units : 2 Add'l Description: 1/train, 2 trains</p>	<p>Continuous</p>	<p>CDM: Field interviews and engineering/construction drawings. Comment: This emission unit was not utilized for construction activities.</p>
<p>Required Sampling: Record sample. Sampling Frequency: Continuous Radionuclide Requiring Measurement: All radionuclides which could contribute greater than 10% of the potential-to-emit TEDE to the MEI, greater than 0.1 mrem/yr potential-to-emit TEDE to the MEI, and greater than 25% of the TEDE to the MEI, after controls.</p>	<p>Continuous</p>	<p>CDM: ABCASH program, field interviews, CH2M HILL notification procedure, and notification logbook. Comment: ABCASH EDP code number E901. This emission unit was not utilized for construction activities. Record sampler vacuum gage failed once during the reporting period; reported per the CH2M HILL notification procedure.</p>
<p>Federal and State Regulatory Requirement: 40 CFR 61.93 & WAC 246-247-075[2] Permit Monitoring and Testing Procedure: Appendix B, Method 114(2), (3), and (4)</p>	<p>Continuous</p>	<p>CDM: CH2M HILL NESHAP quality assurance program. Comment: This emission unit was not utilized for construction activities.</p>

P-296AP-001
WDOH Emission Unit ID : 204
Page in AOP : H-0283

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Deentrainer Required Units : 1 Add'l Description: 2 parallel flow paths	Continuous	CDM: Field interviews. Comment: This emission unit was not utilized for construction activities.
Zone or Area : Abatement Technology : Heater Required Units : 1 Add'l Description: 2 parallel flow paths	Continuous	CDM: Field interviews, CH2M HILL notification procedure, and notification logbook. Comment: Heater failed once during the reporting period; reported per the CH2M HILL notification procedure. This emission unit was not utilized for construction activities.
Zone or Area : Abatement Technology : Prefilter Required Units : 1 Add'l Description: 2 parallel flow paths	Continuous	CDM: Field interviews. Comment: This emission unit was not utilized for construction activities.
Zone or Area : Abatement Technology : HEPA Required Units : 2 Add'l Description: 2 parallel flow paths with 2 HEPAs in series	Continuous	CDM: Field interviews, CH2M HILL notification procedure, and notification logbook. Comment: Annual calibration of HEPA differential pressure gauges calibration missed during the reporting period; reported per the CH2M HILL notification procedure. This emission unit was not utilized for construction activities.
Zone or Area : Abatement Technology : Fan Required Units : 1 Add'l Description: 2 parallel flow paths, 1 in operation at a time	Continuous	CDM: Field interviews, CH2M HILL notification procedure, and notification logbook. Comment: Exhauster shut down once during the reporting period; reported per the CH2M HILL notification procedure. This emission unit was not utilized for construction activities.

Requirement	Compliance Status	Compliance Determination Method
Required Sampling: Record Sample Sampling Frequency: 2 week sample/quarter Radionuclide Requiring Measurement: TOTAL ALPHA TOTAL BETA	Continuous	CDM: ABCASH program, CH2M HILL notification procedure, and notification logbook. Comment: ABCASH EDP code number E013. Record sampler flow observed below normal range once during the reporting period; reported per the CH2M HILL notification procedure. This emission unit was not utilized for construction activities.
Federal and State Regulatory Requirement: 40 CFR 61.93[b][4][i] & WAC 246-247-075[3] Permit Monitoring and Testing Procedure: Appendix B, Method 114(3)	Continuous	CDM: CH2M HILL NESHAP quality assurance program. Comment: This emission unit was not utilized for construction activities.

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 WDOH Emission Unit ID : 150
 Page in AOP : 2-102

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Fan Required Units : 1 Add'l Description: 2 parallel flow paths, 1 in operation at a time. 2 parallel flow paths, 1 in operation at a time.	Continuous	CDM: Field interviews. Comment: None
Zone or Area : Abatement Technology : HEPA Required Units : 2 Add'l Description: 2 parallel flow paths with 2 HEPAs in series	Continuous	CDM: Field interviews. Comment: None
Zone or Area : Abatement Technology : Prefilter Required Units : 1 Add'l Description: 2 parallel flow paths	Continuous	CDM: Field interviews. Comment: None
Zone or Area : Abatement Technology : Heater Required Units : 1 Add'l Description: 2 parallel flow paths	Continuous	CDM: Field interviews. Comment: None

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : De-entrainer Required Units : 1 Add'l Description: 2 parallel flow paths	Continuous	CDM: Field interviews. Comment: None
Required Sampling: Record Sample Sampling Frequency: 4 week sample/ year Radionuclide Requiring Measurement: TOTAL ALPHA TOTAL BETA	Continuous	CDM: ABCASH program. Comment: ABCASH EDP code number E270.
Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4)(i) & WAC 246-247-075(3) Permit Monitoring and Testing Procedure: Appendix B, Method 114(3)	Continuous	CDM: CH2M HILL NESHAP quality assurance program. Comment: None
No active NOC approvals in the AOP for this certification period.		

P-296B001-001
 WDOH Emission Unit ID : 402
 Page in AOP : H-0078

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Fan Required Units : 2 Add'l Description: Only one fan operates at a time.	Continuous	CDM: Fans are in place. Visual inspection and drawings H-2-828924. Comment:
Zone or Area : Abatement Technology : HEPA Required Units : 4 Add'l Description: Two trains, 2 in each train	Continuous	CDM: Filters are in place. Visual inspection and drawings H-2-828927 and H-2-828928, and efficiency testing. Comment:
Zone or Area : Abatement Technology : Prefilter Required Units : 2 Add'l Description: Two trains, one in each train	Continuous	CDM: Filters are in place. Visual inspection and drawings H-2-828927 and H-2-828928. Comment:

Requirement	Compliance Status	Compliance Determination Method
Required Sampling: Continuous Sampling Frequency: Continuous Radionuclide Requiring Measurement: 137Cs, 90Sr	Continuous	CDM: Effluent stream passes through a filter media. Filter is removed and analyzed. Analytical results are in ABCASH. Samples taken per procedure. Comment: "Continuous compliance" means collection of all monitoring data required by the permit under the data collection frequency specified in the permit, with no deviations, and no other information that indicates deviations, except for planned shutdowns, upsets, or malfunctions during which compliance is not required.
Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4) WAC 246-247-075(2) Permit Monitoring and Testing Procedure: Method 2 appendix A Method 114 appendix B 61.93(b)(2)(ii) ANSI N13.1	Continuous	CDM: Stack airflow tests conducted according to procedure. "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions" (HNF-EP-0528) specifies both hardware used to sample and analytical methods used in the laboratory. Comment:
No active NOC approvals in the AOP for this certification period.		

P-296B010-001
 WDOH Emission Unit ID : 340
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Requirement	Compliance Status	Compliance Determination Method
Zone or Area : K-3 Filter Pit Abatement Technology : Fan Required Units : 1 Add'l Description: 2 parallel paths (1 in-use, 1 backup)	Continuous	CDM: As-built drawings. Comment: H-2-66531 and H-2-66533.
Zone or Area : K-3 Filter Pit Abatement Technology : HEPA Required Units : 2 Add'l Description: 2 parallel flow paths, 2 in series	Continuous	CDM: As-built drawings. Comment: H-2-99442, H-2-99443, H-2-99444, and H-2-99449.
Zone or Area : K-3 Filter Pit Abatement Technology : Impingement Vanes Required Units : 1 Add'l Description:	Continuous	CDM: As-built drawings. Comment: H-2-99442, H-2-99443, H-2-99444, and H-2-99449.

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : K-3 Filter Pit Abatement Technology : Heater Required Units : 1 Add'l Description:	Not Applicable	CDM: As-built drawings. Comment: H-2-99442, H-2-99443, H-2-99444, and H-2-99449. Although this equipment is shown on these drawings, it is not connected to utilities and has never been operable.
Zone or Area : K-3 Filter Pit Abatement Technology : Demister Required Units : 1 Add'l Description:	Not Applicable	CDM: As-built drawings. Comment: H-2-99442, H-2-99443, H-2-99444, and H-2-99449. Although this equipment is shown on these drawings, it is not connected to utilities and has never been operable.
Zone or Area : K-1 Filter Bldg. Abatement Technology : Fan Required Units : 1 Add'l Description: 2 in parallel	Continuous	CDM: As-built drawings. Comment: H-2-66531 and H-2-66532.
Zone or Area : K-1 Filter Bldg. Abatement Technology : HEPA Required Units : 2 Add'l Description: In series	Continuous	CDM: As-built drawings. Comment: H-2-66531 and H-2-66532.
Zone or Area : K-1 Filter Bldg. Abatement Technology : Prefilter Required Units : 2 Add'l Description: In series	Continuous	CDM: As-built drawings. Comment: H-2-66531 and H-2-66532.

Requirement	Compliance Status	Compliance Determination Method
<p>Required Sampling: All radionuclides which could contribute 10% of the potential EDE. Sampling Frequency: Continuous Radionuclide Requiring Measurement: All radionuclides which could contribute 10% of the potential EDE.</p>	<p>Continuous</p>	<p>CDM: Continuous sampling verified by information in ABCASH. "Statement of Work for Services Provided by the Waste Sampling and Characterization Facility for the Environmental Compliance Program during Calendar Year 2006" (HNF-EP-0835) defines what analyses are performed and the frequency. "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions" (HNF-EP-0528) specifies QA requirements. Comment: "Continuous compliance" means collection of all monitoring data required by the permit under the data collection frequency specified in the permit, with no deviations, and no other information indicating deviations, except for planned shutdowns, upsets, or malfunctions during which compliance is not required.</p>
<p>Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4) WAC 246-247-75(2) Permit Monitoring and Testing Procedure: Method 2 appendix A Method 114 appendix B 61.93(b)(2)(ii) ANSI N13.1</p>	<p>Continuous</p>	<p>CDM: RC-C00-005 "Exchange 296-B-10 Record Air Sample". "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions" (HNF-EP-0528) specifies QA requirements. In compliance, as stated in the most recent FFCA quarterly report. Comment:</p>

Requirement	Compliance Status	Compliance Determination Method
<p align="center">Permit: AIR 02-1218 Issue Date: 12-13-02 Obsolete Date: 07-05-06 NOC: WESF Liquid Low Level Radioactive Liquid Removal from Tank 100 WDOH NOC ID: 259 Date In AOP: 04-11-05 Page in AOP: H-0101</p>		
Requirement	Compliance Status	Compliance Determination Method
<p>The U.S. Department of Energy shall comply with all Conditions and Limitations of this license (WAC 246-247-060)(5)).</p>	<p align="center">Continuous</p>	<p>CDM: HNF-PRO-15333, Environmental Protection Processes HNF-PRO-15334, Effluent and Environmental Monitoring HNF-PRO-15335, Environmental Permitting and Documentation Preparation HNF-RD-15332, Environmental Protection Requirements HNF-5054, Rev. 2, Fluor Hanford Environmental Policy Comment:</p>
<p>The total abated emission limit for this Notice of Construction is limited to 1.75E-05 mrem/year to the Maximally Exposed Individual (WAC 246-247-040(5)). The total limit on the Potential-To-Emit for this Notice of Construction is limited to 3.51E-02 mrem/year to the Maximally Exposed Individual (WAC 246-247-030(21)).</p>	<p align="center">Not Applicable</p>	<p>CDM: Comment: This NOC applies when Tk-100 is emptied. Empty out activities did not occur in 2006.</p>
<p>No activities, other than those explicitly described within this approval, shall be conducted without prior written approval. The approved activities are limited to: Modification and continuous operations of the Waste Encapsulation and Storage Facility (WESF) liquid low level radioactive (LLLW) stream piping. The tank TK-100 serves as a catch tank for liquid low level radioactive waste streams originating from WESG, condensate from the K-1 and K-3 filter pits, and the 296-B-10 stack. TK-100 is ventilated through the WESF K-3 ventilation system and out of the 296-B-10 Stack. The contents of TK-100 are emptied by pumping the LLLW to a tanker truck at the Truck Load-Out Port. In the event that additional storage capacity is needed, a new portable aboveground storage tank (nominal capacity of 4,000 gallons) will be installed at the Truck Load-Out Port and vented to TK-100 during filling operations. After filling the portable aboveground storage tank, the tank will be disconnected from the Truck Load-Out Port, a HEPA or NucFil filter shall be installed, and then the tank will be moved outside for storage until arrangements are made to dispose of the excess LLLW. During normal operations the LLLW streams to TK-100 are less than 0.001 curie/liter of Sr-90 and Cs-137. In the event that the TK-100 contents are greater than or equal to 0.001 curie/liter of Sr-90 and Cs-137 during routine operations, a WESF Ion Exchange Module will be installed at the Truck Load-Out Port and the contents of TK-100 will be recirculated through the WESF Ion Exchange Module until the concentration is less than 0.001 curie/liter of Sr-90 and Cs-137. The WESF Ion Exchange Module will be vented to TK-100 during recirculation. Storage of the WESF Ion Exchange Module will normally be outdoors and will vent to atmosphere through a HEPA or NucFil filter. Use of the WESF Ion Exchange Module will continue up to a maximum loading of 20,000 curies of Sr-90 or 25,000 curies of Cs-137. In addition, certain piping modifications will be made to the current WESF LLLW system. They are as follows: A. TK-50 Vault Remove existing Tank 50 Vault Piping. Remove remaining equipment (e.g., Tank 50, Heat Exchanger, Pumps) if possible, and all other equipment and debris in the vault. Install new pipe. B. Valve Pit 225B-VP-05 Remove 3-way valve. Blank off line to B Plant. Install new pipe elbows.</p>	<p align="center">Not Applicable</p>	<p>CDM: Comment: This NOC applies when Tk-100 is emptied. No empty out activities occurred in 2006.</p>

Requirement	Compliance Status	Compliance Determination Method
This NOC does not have "Annual Possession Quantity" limits.	Not Applicable	CDM: N/A Comment:
These Conditions and Limitations must be documented in an established procedure prior to starting activities granted by this approval (WAC 246-247-040(5)) and (WAC 246-247-060(5)).	Not Applicable	CDM: Comment: This NOC applies when Tk-100 is emptied. No empty out activities occurred in 2006.
If this emission unit is not in compliance with the standards in WAC 246-247-040 during construction or operation, the department reserves the right to require modifications to bring it into compliance (WAC 246-247-060-(2)(d)).	Not Applicable	CDM: N/A Comment: Ecology and WDOH determined the licensee need not certify compliance with conditions conveying a right, are a historical summary or fact, pertaining to actions to be completed in the future, or pertaining to actions required of the agency.
The facility shall notify the department seven days in advance of any planned pre-operational testing of the emission unit's control, monitoring or containment systems. The department reserves the right to observe such tests (WAC 246-247-060(4)).	Not Applicable	CDM: N/A Comment: This NOC applies when Tk-100 is emptied. No empty out activities occurred in 2006.
The facility must be able to demonstrate that it has a quality assurance program compatible with applicable national standards (WAC 246-247-075(6)).	Not Applicable	CDM: Comment: This NOC applies when Tk-100 is emptied. No empty out activities occurred in 2006.
The department retains the right to conduct stack sampling, environmental monitoring or other testing, as required around this unit to assure compliance. If the department so decides, the facility must make provision for such testing (WAC 246-247-075(9) and (10)).	Not Applicable	CDM: N/A Comment: Ecology and WDOH determined the licensee need not certify compliance with conditions conveying a right, are a historical summary or fact, pertaining to actions to be completed in the future, or pertaining to actions required of the agency.
The facility must be able to demonstrate that the workers associated with this emission unit are adequately trained in the use and maintenance of emission control and monitoring systems, and in the performance of associated test and emergency response procedures (WAC 246-247-075(12)).	Not Applicable	CDM: Comment: This NOC applies when Tk-100 is emptied. No empty out activities occurred in 2006.
The facility must be able to demonstrate the reliability and accuracy of emissions data and other test results from this emission unit (WAC 246-247-075(13)).	Not Applicable	CDM: Comment: This NOC applies when Tk-100 is emptied. No empty out activities occurred in 2006.

Requirement	Compliance Status	Compliance Determination Method
<p>The department reserves the right to inspect and audit all construction activities, equipment, operations, documents, data and other records related to compliance with the requirements of this chapter (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH determined the licensee need not certify compliance with conditions conveying a right, are a historical summary or fact, pertaining to actions to be completed in the future, or pertaining to actions required of the agency.</p>
<p>The department may require in ALARACT demonstration at any time (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH determined the licensee need not certify compliance with conditions conveying a right, are a historical summary or fact, pertaining to actions to be completed in the future, or pertaining to actions required of the agency.</p>
<p>The facility must meet all reporting and record keeping requirements of 40 CFR 61, Subpart H (WAC 246-247-080(2)).</p>	<p>Not Applicable</p>	<p>CDM: Comment: This NOC applies when Tk-100 is emptied. No empty out activities occurred in 2006.</p>
<p>The facility shall report all measured or calculated emissions annually (WAC 246-247-080(3)).</p>	<p>Not Applicable</p>	<p>CDM: Comment: This NOC applies when Tk-100 is emptied. No empty out activities occurred in 2006.</p>
<p>The facility shall report to the department within 24 hours, any unexpected release of radioactivity, shutdown or other condition that, if allowed to persist, or lasts more than four hours, would result in the emission of radionuclides in excess of any standards or limitation in the license. Applicable standards (WAC 246-247-040) include unit specific emission limits (paragraph 5), the offsite dose standard (paragraph 1), BARCT (paragraph 3) or ALARACT (paragraph 4), whichever is applicable, or any limitation included in this approval (paragraph 5) (WAC 246-247-080(5)).</p>	<p>Not Applicable</p>	<p>CDM: Comment: This NOC applies when Tk-100 is emptied. No empty out activities occurred in 2006.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>Prior to permanent shut down of an emission unit or completion of an activity, the permittee shall file a report of closure with the Department of Health. The report of closure shall include the date of the shutdown and indicate whether, despite cessation of operation, there is still a potential for radioactive air emissions and a need for any active or passive ventilation system with emission control and/or monitoring devices. An emission unit or activity will not be considered permanently shut down or completed until a report of closure is received and approved by Health. Once an emission unit is permanently shut down or an activity is completed, thereby rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the shutdown or completion, to meet any monitoring, record keeping, and reporting, requirements which are no longer applicable for that emission unit or activity. All records, relating to the shut down emission unit or completion of an activity, generated while the emission unit or activity was in operation, shall be kept in accordance with (WAC 246-247-080(8)).</p>	<p>Not Applicable</p>	<p>CDM: Comment: Ecology and WDOH determined the licensee need not certify compliance with conditions conveying a right, are a historical summary or fact, pertaining to actions to be completed in the future, or pertaining to actions required of the agency.</p>
<p>The facility shall maintain readily (promptly) retrievable storage areas (on site) for all records and documents related to, and which may help establish compliance with, the requirements of this chapter. The facility shall keep these records available for department inspection for at least five years (WAC 246-247-080(8)).</p>	<p>Continuous</p>	<p>CDM: HNF-RD-15332, "Environmental Protection Requirements" Section 2.14 HNF-PRO-15333, Environmental Protection Processes, Section 5.14 HNF-PRO-15334, Effluent and Environmental Monitoring, Section 5.99 HNF-RD-210, Records Management Program Comment:</p>
<p>The facility shall ensure all emissions units are fully accessible to department inspectors. In the event the hazards associated with accessibility to a unit require training and/or restriction or requirements for entry, the facility owner or operator shall inform the department, prior to arrival, of those restrictions or requirements. The owner or operator shall be responsible for providing the necessary training, escorts, and support services to allow the department to inspect the facility. At a minimum for unannounced inspections, such requirements or restrictions must be told to inspectors to provide an opportunity for inspectors to meet those requirements prior to the inspection (WAC 246-247-080(9)).</p>	<p>Continuous</p>	<p>CDM: WDOH inspectors were allowed access during Level II inspection. Comment:</p>
<p>The facility shall make available, in timely manner, all documents requested by the department for review. The facility shall allow the department to review documents in advance of an inspection. The facility shall allow access to classified documents by representatives of the department with the appropriate security clearance and a demonstrable need-to-know (WAC 246-247-080(10)).</p>	<p>Continuous</p>	<p>CDM: HNF-RD-15332, Environmental Protection Requirements Comment:</p>

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WDOH Emission Unit ID : 435
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Requirement	Compliance Status	Compliance Determination Method
<p>Zone or Area : Abatement Technology : Fan Required Units : 2 Add'l Description: operates in parallel, one fan at a time and one in backup mode</p>	Continuous	<p>CDM: As Built Drawings. Further walkdowns performed since, e.g., during WDOH Level II inspections, also confirmed system configuration and operation. Comment: H-2-129588</p>
<p>Zone or Area : Abatement Technology : HEPA Required Units : 2 Add'l Description: double stage, operates in parallel, one HEPA at a time and one in backup mode</p>	Continuous	<p>CDM: As Built Drawings. Further walkdowns performed since, e.g., during WDOH Level II inspections, also confirmed system configuration and operation. Comment: H-2-129588</p>
<p>Required Sampling: Continuous Sampling Frequency: The record filter is to be counted annually (either a destructive or non-destructive technique) using a gamma spectrometer calibrated to Cs-137. Radionuclide Requiring Measurement: All radionuclides which could contribute 10% of the potential EDE.</p>	Continuous	<p>CDM: Continuous sampling is verified by information in ABCASH. "Statement of Work for Services Provided by the Waste Sampling and Characterization Facility for the Environmental Compliance Program during Calendar Year 2006" (HNF-EP-0835-10) defines what analyses are performed and the frequency. "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions" (HNF-EP-0528) specifies quality assurance requirements. Comment: "Continuous compliance" means collection of all monitoring data required by the permit under the data collection frequency specified in the permit, with no deviations, and no other information that indicates deviations, except for planned shutdowns, upsets, or malfunctions during which compliance is not required.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4)(i) & WAC 246-247-075(3) Permit Monitoring and Testing Procedure: Appendix B, Method 114(3)</p>	Continuous	<p>CDM: Compliance to 40 CFR 61.93(b)(4)(i) is shown in "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions" (HNF-EP-0528). Comment: Note: WAC 246-247-075(3) pertains to minor stacks and therefore does not apply.</p>
<p align="center">Permit: AIR 02-713 Issue Date:07-29-02 Obsolete Date: 07-05-06 NOC: Canister Storage Building, Building 212-H WDOH NOC ID: 289 Date In AOP: 04-11-05 Page in AOP: H-0115</p>		
Requirement	Compliance Status	Compliance Determination Method
<p>The U.S. Department of Energy shall comply with all Conditions and Limitations of this license (WAC 246-247-060(5)).</p>	Continuous	<p>CDM: For this approval order, in compliance with all applicable conditions. Comment:</p>
<p>The total abated emission limit for this Notice of Construction is limited to 1.64E-02 mrem/year to the Maximally Exposed Individual (WAC 246-247-040(5)). The total limit on the Potential-To-Emit for this Notice of Construction is limited to 3.64E+01 mrem/year to the Maximally Exposed Individual (WAC 246-247-030(21)).</p>	Continuous	<p>CDM: DOE/RL-2007-01 "Radionuclide Air Emissions Report for the Hanford Site Calendar Year 2006". Comment:</p>
<p>This process is limited to: the use of the Canister Storage Building (CSB) for storage of spent nuclear fuel (SNF). The CSB shall consist of load-in/load-out areas, mechanical and electrical support areas, a multi-canister overpack (MCO) weld/sample station, and a subgrade vault storage area. The SNF shall be received in MCOs that shall be shipped in a cask. The subgrade reinforced concrete vault area shall accommodate three equal-sized, below grade compartments with each compartment cooled by natural convection and having separate air inlet and exhaust plenums. Because there is physical separation from the SNF source term to the air space in this below grade vault, there is no control technology or emission monitoring of the exhaust from this area. The physical separation shall consist of the following barriers: MCO and storage tube. Over the vault shall be a structural steel and metal sided building with heating and ventilation systems, and a material handling machine for use in the handling and movement of MCOs. The air space above the operating deck shall be at a negative pressure with respect to atmosphere during all MCO handling, storage, and monitoring operations. The exhaust from this portion of the building ventilation system shall be filtered by testable high-efficiency particulate air (HEPA) filters and sampled before exhausting through a separate building operating area stack. An operating deck shall separate the subgrade vault from the above grade level working area. A continuous air emission monitoring system (CAEMS) shall be installed in the process exhaust stack. There shall be no more than 226 penetration holes in the operating deck in each of the three compartments in the vaulted area. MCOs containing the SNF shall be stored in the 226 vertical steel storage tubes in the north vault (also know as vault 1). Vaults 2 and 3 shall be used for the storage of sealed/immobilized high-level waste. The steel storage tubes shall prevent migration of radiological contamination and shall be inserted through existing penetrations and extend from the operating deck to the floor of the vault. Access to the interior of the tubes shall be through penetrations in the operating deck. Each tube shall contain</p>	Continuous	<p>CDM: As Built Drawings and Design Basis Document Comment: H-2-117795, H-2-117798, H-2-129588, H-2-119276, H-2-123502. SNF-6154, CSB Design Basis Document</p>

Requirement	Compliance Status	Compliance Determination Method
<p>no more than two MCOs and be equipped with a shield plug that shall be vented to the operating deck but which can also be isolated. The function of the MCO shall be to confine, contain, and maintain the SNF in a critically safe array to ensure safe operations and to support processing the 105 K Basins SNF at the Cold Vacuum Drying Facility, processing the Shippingport PWR SNF at the T Plant, and transport to the CSB. A cover cap shall be welded on top of the MCO covering the MCO shield plug. This shall be performed at the sample and weld station located in the CSB, thus hermetically sealing the SNF contained in the MCO. The sampling and weld station shall be located at the south end of the CSB operating area. This area shall consist of seven process pits, four feet in diameter and 19 feet 8 inches deep. Two of the pits shall be equipped for MCO gas sampling and for welding the cover caps on the MCOs. Weld inspection and helium leak checking of the seal weld shall also be accomplished here. An exhaust enclosure shall be provided for confinement around the top of the MCO during sampling and welding. The function of the enclosure shall be to capture any potential airborne contamination. Airflow shall be into the enclosure. An exhaust duct shall run from the enclosure to a fan and through a testable HEPA filter that shall exhaust into the building ventilation exhaust system for the CSB operating area upstream of the building exhaust testable HEPA filters. The tube vent and purge cart will house the storage tube purge system, which shall monitor and maintain an inert gas environment around any MCO placed in the overpack storage tubes and to monitor the atmosphere in any of the other storage tubes as required. The vent and purge cart may be driven to any of the 226 storage tubes. The vent and purge cart equipment shall include inert gas supply cylinders, flexible steel hoses, an airtight sampling connection, a radioactive gas monitor, a hydrogen gas monitor and associated interlocks and alarms, a vacuum pump and its cooling unit, a HEPA filter, and an oxygen monitor and associated alarms. The heating, ventilation, and air conditioning (HVAC) system shall provide contamination confinement and contamination control within the CSB. The HVAC system shall provide a controlled pressure gradient flow of air from outside the CSB inward through uncontaminated areas to potentially contaminated areas of the building and out through HEPA filters and a monitored exhaust.</p>		
<p>The Annual Possession Quantity is limited to the following radionuclides (Curies/year): Ag 110 m 2.14E-02 Ag 110 2.84E-04 Am 241 4.28E+05 Am 242 m 6.95E+02 Am 242 6.95E+02 Am 243 3.40E+02 Ba 137 m 1.29E+07 C 14 8.13E+02 Cd 113 m 3.72E+03 Ce 144 9.14E+02 Cm 242 5.82E+02 Cm 243 1.40E+02 Cm 244 9.24E+03 Co 60 9.06E+03 Cs 134 1.59E+04 Cs 135 7.75E+01 Cs 137 1.36E+07 Eu 152 9.45E+02 Eu 154 1.16E+05 Eu 155 2.32E+05 Fe 55 2.41E+03 Gd 153 1.28E-04 H 3 7.20E+04 I 129 1.20E+01 In 113 m 2.14E-07 Kr 85 1.18E+06 Nb 93 m 2.47E+02 Nb 95 3.74E-12 Nb 95 m 1.25E-14 Ni 59 5.21E+02 Ni 63 5.55E+04 Np 237 5.72E+01 Np 239 2.20E+02 Pd 107 1.63E+01 Pm 147 4.62E+05 Pr 144 9.03E+02 Pr 144 m 1.10E+01 Pu 238 1.40E+05 Pu 239 2.23E+05 Pu 240 1.26E+05 Pu 241 7.19E+06 Pu 242 5.49E+01 Rh 106 1.82E+03 Ru 106 1.82E+03 Sb 124 3.03E-18 Sb 125 3.35E+04 Sb 126 2.18E+01 Sb 126 m 1.56E+02 Se 79 8.62E+01 Sm 151 1.79E+05 Sn 113 2.14E-07 Sn 119 m 2.97E-01 Sn 121 m 7.96E+01 Sn 123 1.74E-05 Sn 126 1.56E+02 Sr 89 1.01E+07 Sr 90 1.03E+07 Tb 160 2.77E-15 Tc 99 2.99E+03 Te 123 m 2.76E-11 Te 125 m 8.18E+03 Te 127 m 9.69E-07 Te 127 9.49E-07 Te 129 m 0.00E+00 U 234 8.74E+02 U 235 3.37E+01 U 236 1.27E+02 U 238 6.96E+02 Y 90 1.03E+07 Y 91 2.23E-14 Zr 93 4.00E+02 Zr 95 1.69E-12</p>	<p>Continuous</p>	<p>CDM: HNF-7880 Radioactive Air Emissions Notice of Construction Canister Storage Building 212H Comment:</p>

Requirement	Compliance Status	Compliance Determination Method
Report measured or calculated emissions annually (WAC 246-247-080(3)).	Continuous	CDM: DOE/RL-2007-01 Radionuclide Air Emissions Report for the Hanford Site Comment:
Nothing may be inferred that is not specifically described in the NOC.	Not Applicable	CDM: N/A Comment: Ecology and WDOH determined the licensee need not certify compliance with conditions conveying a right, are a historical summary or fact, pertaining to actions to be completed in the future, or pertaining to actions required of the agency.
The department must approve any deviation from required or recommended monitoring standards.	Not Applicable	CDM: N/A Comment: Ecology and WDOH determined the licensee need not certify compliance with conditions conveying a right, are a historical summary or fact, pertaining to actions to be completed in the future, or pertaining to actions required of the agency.
All Conditions and Limitations must be proceduralized prior to the implementation of this NOC.	Not Applicable	CDM: See Settlement Agreement Language Comment: Letter from Attorney General of Washington, Sept. 12, 2003 Docket No. 03-03-C-2000RP
The facility must be able to demonstrate the reliability and accuracy of emission data and other test results from the facility (WAC 246-247-075(13)) and (WAC 246-247-075(6)). The facility must demonstrate that it has a quality assurance program compatible with applicable national standards listed in, or equivalent to, those listed in the above cited regulation.	Continuous	CDM: ABCASH, HNF-EP-0528 NESHAP Quality Assurance Project Plan for Radioactive Emissions Comment:
The process for validating the process parameters with respect to storing the MCOs in a sealed configuration is approved, however, the total number of representative samples was not given to us. By telephone, it was indicated that the total number of MCOs tested should not exceed twelve. Twelve is the limit, unless a more specific number is negotiated with the department.	Continuous	CDM: SNF-5536, MCO Monitoring Plan Comment:

Requirement	Compliance Status	Compliance Determination Method
Report to the department within 24 hours, any unexpected release of radioactivity, shutdown or other condition that, if allowed to persist (or lasts more than four hours), would result in the emissions of radionuclides in excess of any standards or limitations in the license. (Note: Applicable standards (WAC 246-247-040) include unit specific emission limits (paragraph 5), the offsite dose standard (paragraph 1), BARCT (paragraph 3) or ALARACT (paragraph 4), whichever is applicable, or any limitations included in the approval (paragraph 5)).	Continuous	CDM: HNF-PRO-15333, PS-414 notification procedure. Comment:
The NOC constitutes a contract between the department and the facility. Any changes must be approved by the department.	Continuous	CDM: HNF-PRO-15333 Comment:
Ventilation systems used to control the release of particulate airborne radiological contamination from individual processes must include: 1. MHM cask extract ventilation and HEPA exhaust system. 2. Sampling/weld station ventilation and HEPA exhaust system. 3. Overpack storage tube purge system. 4. Temporary containment enclosure with HEPA exhaust system for contamination control. 5. The building HEPA filters are still required. 6. All controls must be ANSI N509/510 compliant.	Continuous	CDM: SNF-6154, CSB Design Basis Document Comment:
Preoperational tests planned for this unit, requirement for notification at least seven days prior to such testing under (WAC 246-247-060(4)) will apply.	Not Applicable	CDM: Comment: No preoperational tests required for 2006.
All records required by WAC 246-247 must be readily (promptly) retrievable, and must be stored onsite at the facility. All records shall be maintained for a minimum of five years (WAC 246-247-080(8)).	Continuous	CDM: HNF-PRO-15333 Section 5.2.6 Comment:
Report any problems that could affect the monitoring ventilation or controls of this facility to the department.	Continuous	CDM: HNF-PRO-15333 Section 5.21 Comment:
The monitoring system must be ANSI N13.1 and ANSI N42.18 compliant.	Continuous	CDM: SNF-6154, CSB Design Basis Document Comment:
Any deviation from the description of the modification or new construction, without approval of the department, may result in enforcement action under WAC 246-247-100.	Not Applicable	CDM: N/A Comment: Ecology and WDOH determined the licensee need not certify compliance with conditions conveying a right, are a historical summary or fact, pertaining to actions to be completed in the future, or pertaining to actions required of the agency.

Requirement	Compliance Status	Compliance Determination Method
The department reserves the right at any time to require the licensee to provide for split or collocated sampling of this emission unit (WAC 246-247-075(10)).	Not Applicable	CDM: N/A Comment: Ecology and WDOH determined the licensee need not certify compliance with conditions conveying a right, are a historical summary or fact, pertaining to actions to be completed in the future, or pertaining to actions required of the agency.
If the department finds that the emission unit described in this NOC is not in compliance with the standards in WAC 246-247-040 during construction and/or operation, the department will require modifications to bring it into compliance (WAC 246-247-060(2)(d)).	Not Applicable	CDM: N/A Comment: Ecology and WDOH determined the licensee need not certify compliance with conditions conveying a right, are a historical summary or fact, pertaining to actions to be completed in the future, or pertaining to actions required of the agency.
The department reserves the right to conduct an environmental surveillance program around this emission unit and to require the facility to conduct or modify its own environmental monitoring program (WAC 246-247-075(9)).	Not Applicable	CDM: N/A Comment: Ecology and WDOH determined the licensee need not certify compliance with conditions conveying a right, are a historical summary or fact, pertaining to actions to be completed in the future, or pertaining to actions required of the agency.
The differential pressure shall be monitored and recorded daily during operational rounds to determine impacts due to moisture. If the differential pressures are outside of the designed operating range, the cause will be determined and the department will be notified within 24 hours.	Continuous	CDM: PS-414, Section E Comment:
Total system flow shall not exceed 9,000 CFM (allowing for the tolerances of the measuring devices).	Continuous	CDM: PS-414 Section E Comment:
DOE shall develop, and submit to WDOH for approval, criteria for an annual DOE inspection of this unit.	Not Applicable	CDM: NA Comment: This condition was closed per AIR-01-304 on March 8, 2001.
This annual inspection shall be reviewed and accepted by a Washington State Certified Professional Engineer working for DOE or its contractor.	Continuous	CDM: PS-414 Section H Comment:

Requirement	Compliance Status	Compliance Determination Method
<p>Prior to permanent shut down of an emission unit or completion of an activity, the permittee shall file a report of closure with the Department of Health. The report of closure shall include the date of the shutdown and indicate whether, despite cessation of operation, there is still a potential for radioactive air emissions and a need for any active or passive ventilation system with emission control and/or monitoring devices. An emission unit or activity will not be considered permanently shut down or completed until a report of closure is received and approved by Health. Once an emission unit is permanently shut down or an activity is completed, thereby rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the shutdown or completion, to meet any monitoring, record keeping, and reporting requirements which are no longer applicable for that emission unit or activity. All records, relating to the shut down emission unit or completion of an activity, generated while the emission unit or activity was in operation, shall be kept in accordance with (WAC 246-247-080(8)). (WAC 246-247-080(6)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH determined the licensee need not certify compliance with conditions conveying a right, are a historical summary or fact, pertaining to actions to be completed in the future, or pertaining to actions required of the agency.</p>
<p>Continuous monitoring must be in place prior to operating. This will include continuous ambient air sampling for this project. The ambient air monitors shall be checked for operability at least once per week, and if an ambient air monitor is found not operating, the ambient air monitor shall be returned to service within seven working days from when it was found not operating. Notification to DOH per (WAC 246-247-080(5)) is required when an ambient air monitor is shut down for more than seven consecutive working days from time of discovery. At that time, i.e. when the ambient air monitor is shut down for more than seven consecutive days from time of discovery, operations involving the handling of spent nuclear fuel shall be suspended until the ambient air monitor is returned to service.</p>	<p>Continuous</p>	<p>CDM: PS-414 Comment:</p>

P-296P031-001
WDOH Emission Unit ID : 210
Page in AOP : 2-091

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Fan Required Units : 1 Add'l Description: Parallel paths merge and pass through fan	Continuous	CDM: Fan is in place. Visual inspection and drawing H-2-96072. Comment:
Zone or Area : Abatement Technology : HEPA Required Units : 8 Add'l Description: 2 banks of 4 HEPAs each	Continuous	CDM: HEPA filters are in place. Visual inspection and drawings H-2-95739 and H-2-96072, and efficiency testing. Comment:
Zone or Area : Abatement Technology : Prefilter Required Units : 4 Add'l Description: 1 bank	Continuous	CDM: Pre-filter is in place. Visual inspection and drawings H-2-95739 and H-2-96072. Comment:
Required Sampling: Record Sample Sampling Frequency: 4 week sample/ year Radionuclide Requiring Measurement: TOTAL ALPHA TOTAL BETA	Continuous	CDM: Effluent stream passes through a filter media. Filter is removed and analyzed. Analytical results are in ABCASH. Comment:
Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4)(i) & WAC 246-247-075(3) Permit Monitoring and Testing Procedure: Appendix B, Method 114(3)	Continuous	CDM: "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions" (HNF-EP-0528) specifies both hardware and method used to sample and analytical methods used in the laboratory. Comment:
No active NOC approvals in the AOP for this certification period.		

244-S Primary HEPA
WDOH Emission Unit ID : 742
Page in AOP : H-0971

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : HEPA Required Units : Add'l Description: Single Breather Filter	Continuous	CDM: Field interviews. Comment: None
Required Sampling: PCM will be a smear survey on the inside surface of the ducting and downstream of the HEPA filter or on the outside of the screen covering the outlet of the vent. Sampling Frequency: 1 per year. Radionuclide Requiring Measurement: Levels below 10,000 dpm/100cm ² beta/gamma and 200 dpm/100cm ² alpha will verify low emissions.	Continuous	CDM: Annual Radiological Surveillance Task, Radiological Survey Records, and field interviews. Comment: None
Federal and State Regulatory Requirement: WAC 246-247-075	Continuous	CDM: CH2M HILL NESHAP quality assurance program. Comment: None
Permit: AIR 03-611 Issue Date: 06-26-03 Obsolete Date: 07-05-06 NOC: Isolation and Closure of Exhaust Stacks 296-A-25, 296-B-28, 296-S-22, and 296-T-18 WDOH NOC ID: 578 Date In AOP: 04-11-05 Page in AOP: H-0971		
Requirement	Compliance Status	Compliance Determination Method
The U.S. Department of Energy shall comply with all Conditions and Limitations of this license (WAC 246-247-060(5)).	Continuous	CDM: Field interviews, and complied with all conditions and limitations in this NOC approval. Comment: None
The total abated emission limit for this Notice of Construction is limited to 1.20E-03 mrem/year to the Maximally Exposed Individual (WAC 246-247-040(5)). The total limit on the Potential-To-Emit for this Notice of Construction is limited to 1.20E-01 mrem/year to the Maximally Exposed Individual (WAC 246-247-030(21)).	Continuous	CDM: The annual "Radionuclide Air Emissions Report" for the Hanford Site. Comment: None
No activities, other than those explicitly described within this approval, shall be conducted without prior written approval. The approved activities are limited to: the following DCRT and associated stacks: 244-A (296-A-25), 244-BX (296-B-28), 244-S (296-S-22), and 244-TX (296-T-18): 244-A DCRT (296-A-25 STACK) Passive Ventilation Breather Filter System Installation: A passive ventilation breather filter system shall be installed on an existing above-grade riser on the primary receiver tank, in accordance with ALARACT Demonstration 1 and 16. The primary tank breather filter will serve as the static vent for the instrument air injected (at a maximum of 9 cubic feet per hour) into the receiver tank through a set of three weight-factor dip tubes, which mixes with and dilutes any flammable gases. The primary tank breather filter will allow flammable gases to escape through the breather filter while collecting any airborne radioactive particulates. A passive ventilation breather filter system shall be installed above-grade on an	Continuous	CDM: Field interviews, CH2M HILL work planning/controls/documents, and procedures. Comment: None

Requirement	Compliance Status	Compliance Determination Method
<p>existing riser or the existing annulus inlet filter riser, in accordance with ALARACT 1 and 16 "TWRS ALARACT. Demonstration for Work on Potentially Contaminated Ventilation System Components". The annulus breather filter will provide for the exchange of ambient air with the annulus tank during atmospheric pressure fluctuations and will allow vapors to escape. The breather filter systems will, at a minimum, consist of an isolation valve (normally open during operation), filter housing, HEPA filter, and loop seal assembly. The isolation valve will isolate the HEPA filter from the tank to facilitate testing of the filter, and to isolate the system until the filter or housing can be replaced. HEPA Filter Bank Isolation and Removal: The isolation and removal of the HEPA filter bank located in the 244-A DCRT filter pit will require the deactivation of the HEPA filter bank instrumentation and alarms, the removal and disposal of the HEPA filter bank, and the installation of the filter pit duct jumper assembly, in accordance with ALARACT Demonstrations 6, 14, and 16. The 296-A-25 exhauster is equipped with a HEPA filter bank inside the filter pit. The HEPA filter bank is attached to three nozzles in the filter pit: one nozzle to the catch tank, one nozzle to the annulus, and one nozzle to the ventilation exhaust ductwork. The HEPA filter bank will be disconnected from the nozzles and removed for disposal. A filter pit duct jumper assembly (4" schedule 40 pipe) will be connected to the catch tank nozzle and ventilation exhaust ductwork nozzle to provide the ventilation path to the newly installed passive breather filters. The third nozzle to the annulus will be closed in the filter pit. The filter pit duct jumper assembly will be fabricated in accordance with American Society of Mechanical Engineers (ASME) B31.3 and tested in accordance with ASME AG-1. Electrical Equipment and Instrumentation Isolation: The isolation of electrical equipment and instrumentation on the 244-A DCRT will require the disconnection of various power supplies (e.g., exhaust fan, motor, operated valves, heat trace, sampler pumps, continuous air monitor, and alarms) and isolation of instrumentation (e.g., HEPA filter bank pressure indicators) that support operation and monitoring of the stack ventilation system, in accordance with ALARACT Demonstrations 6 and 14. Disconnection is the physical disconnection and removal of wires from the power source. Pit entries are not required to disconnect power or isolate instrumentation. 296-A-25 Stack Isolation: The 296-A-25 stack will be isolated via mechanical isolations. Blank flanges will be installed on the duct end and on the suction side of the exhaust fan. A closure cap will be installed on top of the exhaust stack. The exhaust stack drain line will be cut and capped above grade, in accordance with ALARACT Demonstration 16. 244-BX DCRT (296-B-28 STACK) Passive Ventilation Breather Filter System Installation: A passive ventilation breather filter system shall be installed on an existing above-grade riser on the primary receiver tank in accordance with ALARACT Demonstration 1 and 16. The primary tank breather filter will serve as the static vent for the instrument air injected (at a maximum of 9 cubic feet per hour) into the receiver tank through a set of three weight-factor dip tubes, which mixes with and dilutes any flammable gases. The primary tank breather filter will allow flammable gases to escape while collecting any airborne radioactive particulates. A passive ventilation breather filter system will be installed above-grade on an existing riser or the existing annulus inlet filter riser in accordance with ALARACT Demonstration 1 and 16. The annulus breather filter will provide for the exchange of ambient air with the annulus tank during atmospheric pressure fluctuations and will allow vapors to escape. The breather filter system will, at a minimum, consist of an isolation valve (normally open during operation), filter housing, HEPA filter, and loop seal assembly. The isolation valve will isolate the HEPA filter from the tank to facilitate testing of the filter, and to isolate the system until the filter or housing can be replaced. HEPA Filter Bank Isolation and Removal: Removal of the HEPA filter bank in the 244-BX DCRT filter pit is not required. The HEPA filter bank will be isolated via closure of manual valves and the deactivation of motor-controlled valves. Above-grade duct/pipe will be capped. The associated HEPA filter bank instrumentation and alarms will be deactivated. This work will be in accordance with ALARACT 16. Electrical Equipment and Instrumentation Isolation: The isolation of electrical equipment and instrumentation on the 244-BX DCRT will require the disconnection of various power supplies (e.g., exhaust fan, motor operated valves, heat trace, sampler pumps, continuous air monitor, and alarms) and</p>		

Requirement	Compliance Status	Compliance Determination Method
<p>isolation of instrumentation (e.g., HEPA filter bank pressure indicators) that support operation and monitoring of the stack ventilation system in accordance with ALARACT Demonstration 16. Disconnection is the physical disconnection and removal of wires from the power source. Pit entries are not required to disconnect power or isolate instrumentation. 296-B-28 Stack Isolation: The 296-B-28 stack will be isolated via mechanical isolations. A blank flange will be installed at the suction side of the exhaust fan or at another suitable location near the filter pit outlet to the exhaust stack. A closure cap will be installed on top of the exhaust stack. The exhaust stack drain line will be cut and capped above grade. This work will be in accordance with ALARACT 16. 244-S DCRT (296-S-22 STACK) Passive Ventilation Breather Filter System Installation: A passive ventilation breather filter system will be installed on an existing above-grade riser on the primary receiver tank in accordance with ALARACT Demonstration 1 and 16. The primary tank breather filter will serve as the static vent for the instrument air injected (at a maximum of 9 cubic feet per hour) into the receiver tank through a set of three weight-factor dip tubes, which mixes with, and dilutes, any flammable gases. The primary tank breather filter will allow flammable gases to escape while collecting any airborne radioactive particulates. A passive ventilation breather filter system will be installed above-grade on an existing riser or the existing annulus inlet filter riser in accordance with ALARACT 1 and 16. The annulus breather filter will provide for the exchange of ambient air with the annulus tank during atmospheric pressure fluctuations and will allow vapors to escape. The breather filter system will, at a minimum, consist of an isolation valve (normally open during operation), filter housing, HEPA filter, and loop seal assembly. The isolation valve will isolate the HEPA filter from the tank to facilitate testing of the filter, and to isolate the system until the filter or housing can be replaced. HEPA Filter Bank Isolation and Removal: The isolation and removal of the HEPA filter bank located in the 244-S DCRT filter pit will require the deactivation of the HEPA filter bank instrumentation and alarms, the removal and disposal of the HEPA filter bank, and the installation of the filter pit duct jumper assembly, in accordance with ALARACT Demonstrations 6, 14, and 16. The 296-S-22 exhauster is equipped with a HEPA filter bank inside the filter pit. The HEPA filter bank is attached to three nozzles in the filter pit: one nozzle to the catch tank, one nozzle to the annulus, and one nozzle to the ventilation exhaust ductwork. The HEPA filter bank will be disconnected from the nozzles and removed for disposal. A filter pit duct jumper assembly (4" schedule 40 pipe) will be connected to the catch tank nozzle and ventilation exhaust ductwork nozzle to provide the ventilation path to the newly installed passive breather filters. The third nozzle to the annulus will be closed in the filter pit. The filter pit duct jumper assembly will be fabricated in accordance with ASME B31.3 and tested in accordance with ASME AG-1. Electrical Equipment and Instrumentation Isolation: The isolation of electrical equipment and instrumentation on the 244-S DCRT will require the disconnection of various power supplies (e.g., exhaust fan, motor operated valves, heat trace, sampler pumps, continuous air monitor, and alarms) and isolation of instrumentation (e.g., HEPA filter bank pressure indicators) that support operation and monitoring of the stack ventilation system in accordance with ALARACT 16. Disconnection is the physical disconnection and removal of wires from the power source. Pit entries are not required to disconnect power or isolate instrumentation. 296-S-22 Stack Isolation: The 296-S-22 stack will be isolated via mechanical isolations. Blank flanges will be installed on the duct end and on the suction side of the exhaust fan. A closure cap will be installed on top of the exhaust stack. The exhaust stack drain line will be cut and capped above grade. This work will be done in accordance with ALARACT Demonstration 16. 244-TX DCRT (296-T-18 STACK) Passive Ventilation Breather Filter Installation: A passive ventilation breather filter system will be installed on an existing above-grade riser on the primary receiver tank in accordance with ALARACT Demonstration 1 and 16. The primary tank breather filter will serve as the static vent for the instrument air injected (at a maximum of 9 cubic feet per hour) into the receiver tank through a set of three weight-factor dip tubes, which mixes with, and dilutes, any flammable gases. The primary tank breather filter will allow flammable gases to escape while collecting any airborne radioactive particulates. A passive ventilation breather filter system</p>		

Requirement	Compliance Status	Compliance Determination Method
<p>will be installed above-grade on an existing riser or the existing annulus inlet filter riser in accordance with ALARACT 1 and 16. The annulus breather filter will provide for the exchange of ambient air with the annulus tank during atmospheric pressure fluctuations and will collect potential airborne radioactive particulates from the annulus space while allowing vapors to escape. The breather filter system will, at a minimum, consist of an isolation valve (normally open during operation), filter housing, HEPA filter, and loop seal assembly. The isolation valve will isolate the HEPA filter from the tank to facilitate testing of the filter, and to isolate the system until the filter or housing can be replaced. HEPA Filter Bank Isolation and Removal: Removal of the HEPA filter bank in the 244-TX DCR T filter pit is not required. The HEPA filter bank will be isolated via closure of manual valves and the deactivation of motor-controlled valves. Above-grade duct/pipe will be capped. The associated HEPA filter bank instrumentation and alarms will be deactivated. This work will be done in accordance with ALARACT 16. Electrical Equipment and Instrumentation Isolation: The isolation of electrical equipment and instrumentation on the 244-TX DCRT will require the disconnection of various power supplies (e.g., exhaust fan, motor operated valves, heat trace, sampler pumps, continuous air monitor, and alarms) and isolation of instrumentation (e.g., HEPA filter bank pressure indicators) that support operation and monitoring of the stack ventilation system. Disconnection is the physical disconnection and removal of wires from the power source in accordance with ALARACT Demonstration 16. Pit entries are not required to disconnect power or isolate instrumentation. 296-T-18 Stack Isolation: The 296-T-18 stack will be isolated via mechanical isolations. A blank flange will be installed at the suction side of the exhaust fan or at another suitable location near the filter pit outlet to the exhaust stack. A closure cap will be installed on top of the exhaust stack. The exhaust stack drain line will be cut and capped above grade. This work will be done in accordance with ALARACT Demonstration 16.</p>		
<p>The Annual Possession Quantity is limited to the following radionuclides (Curies/year): Ac-227 2.04E-02 Am-241 1.17E+01 Am-243 3.58E-04 Ba-137 m 2.69E+03 C-14 4.06E-01 Cd-113 m 1.40E+00 Cm-242 1.19E-02 Cm-243 6.91E-04 Cm-244 1.26E-02 Co-60 6.18E-01 Cs-134 6.84E-03 Cs-137 2.84E+03 Eu-152 1.18E-01 Eu-154 9.29E+00 Eu-155 5.09E+00 H-3 1.53E+00 I-129 5.10E-03 Nb-93 m 4.18E-01 Ni-59 1.57E-01 Ni-63 1.46E+01 Np-237 9.67E-03 Pa-231 4.25E-02 Pu-238 4.84E-01 Pu-239 9.45E+00 Pu-240 1.57E+00 Pu-241 1.23E+01 Pu-242 8.61E-05 Ra-226 3.73E-02 Ra-228 8.82E-03 Ru-106 8.01E-06 Sb-125 6.95E-01 Se-79 1.22E-02 Sm-151 3.74E+02 Sn-126 6.02E-02 Sr-90 5.31E+03 Tc-99 2.76E+00 Th-229 4.01E-03 Th-232 1.13E-03 U-232 6.22E-03 U-233 7.78E-02 U-234 3.07E-02 U-235 1.28E-03 U-236 6.36E-04 U-238 2.87E-02 Y-90 5.31E+03 Zr-93 5.03E-01</p>	<p>Continuous</p>	<p>CDM: Field interviews, WDOH approved logs, and verified basis for APQ in NOC application. Comment: None</p>
<p>If this emission writ is not in compliance with the standards in WAC 246-247-040 during construction or operation, the department reserves the right to require modifications to bring it into compliance (WAC 246-247-060-(2)(d)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>

Requirement	Compliance Status	Compliance Determination Method
The facility must be able to demonstrate that it has a quality assurance program compatible with applicable national standards (WAC 246-247-075(6)).	Continuous	CDM: CH2M HILL quality assurance program, records, and procedures. Comment: None
The facility must be able to demonstrate that workers associated with this emission writ are trained in the use and maintenance of control and monitoring systems, and in the performance of associated tests and emergency procedures (WAC 246-247-075(12)).	Continuous	CDM: CH2M HILL training program, training records, work controls, and procedures. Comment: None
The department reserves the right to inspect and audit all construction activities, equipment, operations, documents, data and other records related to compliance with the requirements of this chapter (WAC 246-247-080(1)).	Not Applicable	CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.
The facility must meet all reporting and record keeping requirements of 40 CFR 61, Subpart H. (WAC 246-247 - 080(2)).	Continuous	CDM: CH2M HILL records management and procedures. Comment: None
The facility shall report to the department within 24 hours, any unexpected release of radioactivity, shutdown or other condition that, if allowed to persist, or lasts more than four hours, would result in the emission of radionuclides in excess of any standards or limitation in the license. Applicable standards (WAC 246-247-040) include unit specific emission limits (paragraph 5), the off site dose standard (paragraph 1), BARCT (paragraph 3) or ALARACT (paragraph 4), whichever is applicable, or any limitation included in this approval (paragraph 5) (WAC 246-247-080(5)).	Continuous	CDM: Field interviews, CH2M HILL notification procedures, and notification logbook. Comment: None
The facility shall maintain readily (promptly) retrievable storage areas (on site) for all records and documents related to, and which may help establish compliance with, the requirements of this chapter. The facility shall keep these records available for department inspection for at least five years (WAC 246-247-080(8)).	Continuous	CDM: CH2M HILL records management and procedures. Comment: None

Requirement	Compliance Status	Compliance Determination Method
<p>The facility shall ensure all emissions units are fully accessible to department inspectors. In the event the hazards associated with accessibility to a unit require training and/or restriction or requirements for entry, the facility owner or operator shall inform the department, prior to arrival, of those restrictions or requirements. The owner or operator shall be responsible for providing the necessary training, escorts, and support services to allow the department to inspect the facility. At a minimum for unannounced inspections, such requirements or restrictions must be told to inspectors to provide an opportunity for inspectors to meet those requirements prior to the inspection (WAC 246-247-080(9)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility shall make available, in timely manner, all documents requested by the department for review. The facility shall allow the department to review documents in advance of an inspection. The facility shall allow access to classified documents by representatives of the department with the appropriate security clearance and a demonstrable need-to-know (WAC 246-247-080(10)).</p>	<p>Continuous</p>	<p>CDM: CH2M HILL records management and procedures. Comment: None</p>
<p>Diffuse/Fugitive emissions shall be monitored using the 200 Area near-field ambient air monitors. Sample collection and analysis shall follow that of the near field monitoring program. Analytical results shall be reported in the Annual Air Emissions Report. Any change to this near-field ambient monitoring program must be approved by the department.</p>	<p>Continuous</p>	<p>CDM: Hanford Site near-facility/field monitoring program. Comment: None</p>
<p>These Conditions and Limitations must be documented in an established procedure prior to starting activities granted by this approval (WAC 246-247-040(5) and (WAC 246-247-060(5)).</p>	<p>Continuous</p>	<p>CDM: Field interviews, CH2M HILL work planning/controls/documents, and procedures. Comment: None</p>
<p>The facility shall notify the department seven days in advance of any planned pre-operational testing of the emission unit's control, monitoring or containment systems. The department reserves the right to observe such tests (WAC 246-247-060(4)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The department retains the right to conduct stack sampling, environmental monitoring or other testing around this unit to assure compliance. If directed by the department, the facility must make provision for such testing (WAC 246-247-075(9) and (10)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility must be able to demonstrate the reliability and accuracy of emissions data and other test results from this emission unit (WAC 246-247-075(13)).</p>	<p>Continuous</p>	<p>CDM: CH2M HILL quality assurance program, records, and procedures. Comment: None</p>
<p>The department may require an ALARACT demonstration at any time (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility shall report all measured or calculated emissions annually (WAC 246-247-080(3)).</p>	<p>Continuous</p>	<p>CDM: The annual "Radionuclide Air Emissions Report" for the Hanford Site. Comment: None</p>
<p>Prior to permanent shut down of an emission unit or completion of an activity, the permittee shall file a report of closure with the Department of Health. The report of closure shall include the date of the shutdown and indicate whether, despite cessation of operation, there is still a potential for radioactive air emissions and a need for any active or passive ventilation system with emission control and/or monitoring devices. An emission unit or activity will not be considered permanently shut down or completed until a report of closure is received and approved by Health. Once an emission unit is permanently shut down or an activity is completed, thereby rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the shutdown or completion, to meet any monitoring, record keeping, and reporting requirements which are no longer applicable for that emission unit or activity. All records, relating to the shut down emission unit or completion of an activity, generated while the emission unit or activity was in operation, shall be kept in accordance with (WAC 246-247-080(8)). (WAC 246-247-080(6))</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>

Requirement	Compliance Status	Compliance Determination Method
Each breather filter shall be individually tested, annually, to the requirements of ASME N510, and shall have a minimum efficiency of 99.95%.	Continuous	CDM: Field interviews, CH2M HILL work planning/controls/documents, and procedures. Comment: None
Under passive ventilation no activities shall be conducted which could generate aerosols within the 244-S DCRT.	Continuous	CDM: Field interviews, CH2M HILL work planning/controls/documents, and procedures. Comment: None
The emissions shall be limited to 3.19E-02 mrem/yr unabated and 3.19E-04 mrem/yr abated.	Continuous	CDM: The annual "Radionuclide Air Emissions Report" for the Hanford Site. Comment: None
All radioactive air emissions licenses issued by the department, except those issued to radioactive materials licensees, shall have an expiration date of five years from date of issuance or as specified in the air operating permit. For radioactive material licensees, the requirements and limitations for the operation of emission units shall be incorporated into their radioactive materials license, and shall expire when the radioactive materials license expires. (WAC 246-247-060 (6)).	Not Applicable	CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.
All facilities with licensed emission units, except for radioactive materials licensees, shall submit a request to the department for renewal of their radioactive air emissions license at least sixty days prior to expiration of the license or as required by the air operating permit. All renewal requests shall include a summary of the operational status of all emission units, the status of facility compliance with the standards of WAC 246-247-040, and the status of any corrective actions necessary to achieve compliance with the requirements of this chapter. Facilities with licensed emission units that also hold a radioactive materials license issued by the department shall submit this information along with their radioactive material license renewal submittal. If the department is unable to renew a radioactive air emissions license before its expiration date, the existing license, with all of its requirements and limitations, remains in force until the department either renews or revokes the license. (WAC 246-247-040(9)).	Not Applicable	CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.

296-P-44
WDOH Emission Unit ID : 58
Page in AOP : H-0927

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Fan Required Units : 1 Add'l Description: Fan is in operational stand-by	Continuous	CDM: Field interview and design review. Comment: None
Zone or Area : Abatement Technology : HEPA Required Units : 2 Add'l Description: 2 HEPAs in series	Continuous	CDM: Field interviews and design review. Comment: None
Zone or Area : Abatement Technology : Heater Required Units : 1 Add'l Description:	Continuous	CDM: Field interviews and design review. Comment: None
Zone or Area : Abatement Technology : Prefilter Required Units : 1 Add'l Description:	Continuous	CDM: Field interviews and design review. Comment: None
Zone or Area : Abatement Technology : Demister Required Units : 1 Add'l Description:	Continuous	CDM: Field interviews and design review. Comment: None
Required Sampling: Active ventilation: continuous during operation. Sampling Frequency: Continuous, collect samples biweekly at a minimum. Radionuclide Requiring Measurement: All radionuclides which could contribute 10% of the potential EDE.	Continuous	CDM: ABCASH program. Comment: ABCASH EDP code number E046.
Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4)(i), WAC 246-247-075(3) Permit Monitoring and Testing Procedure: 40 CFR 61, Appendix B, Method 114	Continuous	CDM: CH2M HILL NESHAPS quality assurance program. Comment: None

Requirement	Compliance Status	Compliance Determination Method
<p align="center">Permit: AIR 04-503 Issue Date:05-17-04 Obsolete Date: 07-05-06 NOC: 241-S-102 Installation and Operation of Waste Retrieval Systems WDOH NOC ID: 567 Date In AOP: 04-11-05 Page in AOP: H-0927</p>		
Requirement	Compliance Status	Compliance Determination Method
<p>The U.S. Department of Energy shall comply with all Conditions and Limitations of this license (WAC 246-247-060(5)).</p>	Continuous	<p>CDM: Field interviews, indicated compliance with all conditions and limitations in this NOC approval. Comment: None</p>
<p>The total abated emission limit for this Notice of Construction is limited to 1.80E-01 mrem/year to the Maximally Exposed Individual (WAC 246-247-040(5)). The total limit on the Potential-To-Emit for this Notice of Construction is limited to 8.40E+01 mrem/year to the Maximally Exposed Individual (WAC 246-247-030(21)).</p>	Continuous	<p>CDM: No activities were conducted requiring the use of the NOC during the reporting period. Comment: None</p>
<p>This approval applies only to those activities described below. No additional activities or variations on the approved activities that constitute a "modification" to the emission unit, as defined in WAC 246-247-030(16), may be conducted. The salt cake dissolution activity associated with 241-S-102 shall include the following: pit work, soil excavation, in-tank equipment installation/removal, water dilution, and waste transfers. Pit Work (Diffuse and Fugitive): - Open the 241-S-102B Distributor pit and cut flange in riser with hold saw or plasma cutter, to install instrumentation manifold and new progressive cavity transfer pump (ALARACT 1, 6, 12, 13, 14); - Open the two 241-S-102 Condenser pits to replace two existing cover plates with new cover plates. Connect the passive breather filter assembly and connect the trunk of the portable exhauster (ALARACT 4, 6, 14); - Open the 241-S-A Valve pit, and connect the HIHTL from the 241-S-102 tank to the DST system (ALARACT 6, 14). Soil Excavation (Diffuse and Fugitive): - Excavate trenches for tie-in of instrumentation and power systems (ALARACT 5); - Excavate for HIHTL placement from 241-S-102 to 241-S-A Valve pit (ALARACT 5). Other Equipment Installation/Removal (Diffuse and Fugitive): - Install motor controlled spray devices in three risers near the outside perimeter of tank 241-S-102 (ALARACT 1, 13); - Install automatic spray indexing device in a central riser (ALARACT 1, 13); - Remove motor controlled and automatic spray indexing devices if necessary (ALARACT 1, 13); - Place water distribution skid and connect to the raw water header between 241-SY and 241-S tank farms. Connect water distribution skid to spray devices. - Remove standard hydrogen monitoring system vapor probe (ALARACT 4, 15, 13); - Place and hook up exhauster and exhauster system; - Remove unused flammable gas cabinet (per Tank Farm Radcon Control Manual, HNF 5183); - Place Field Instrument Electrical Skid and connect associated cabling; - Install stilling well for Enraf Liquid Indicating Transmitter (ALARACT 1, 13); - Install camera monitoring system (ALARACT 1,13); - Remove Liquid Observation Well if necessary (ALARACT 1, 13). Water Dilution and Waste Transfer: - Water shall be sprayed onto the surface of the in-tank salt cake to dissolve the cake; - The new progressive cavity pump and HIHTL shall be used to transfer waste from tank 241-S-102 to the DST (ALARACT 11); - Operation and maintenance of the portable exhauster(s). Waste Transfer (S102): - The new progressive cavity pump and HIHTL shall be used to transfer waste from tank 241-S-102 to the DST (ALARACT 11).</p>	Continuous	<p>CDM: Field interviews, CH2M HILL work planning/controls/documents, and procedures. Comment: None</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The Annual Possession Quantity is limited to the following radionuclides (Curies/year): Ac- 227 1.34E-03 Am- 241 1.23E+02 Am- 243 4.20E-03 Ba- 137 m 2.41E+05 C- 14 4.78E+01 Cd- 113 m 6.95E+01 Cm- 242 3.02E-01 Cm- 243 2.41E-02 Cm- 244 2.17E-01 Co- 60 1.76E+01 Cs- 134 3.54E-01 Cs- 137 2.55E+05 Eu- 152 3.50E+00 Eu- 154 2.46E+02 Eu- 155 2.70E+02 H- 3 2.09E+02 I- 129 6.81E-01 Nb- 93 m 1.39E+01 Ni- 59 3.00E+00 Ni- 63 2.75E+02 Np- 237 1.30E+00 Pa- 231 4.82E-03 Pu- 238 2.96E+00 Pu- 239 1.15E+02 Pu- 240 1.90E+01 Pu- 241 1.49E+02 Pu- 242 1.14E-03 Ra- 226 2.47E-04 Ra- 228 8.89E-02 Ru- 106 5.74E-05 Sb- 125 3.18E+01 Se- 79 3.88E-01 Sm- 151 1.30E+04 Sn- 126 2.35E+00 Sr- 90 9.29E+04 Tc- 99 2.17E+02 Th- 229 2.20E-03 Th- 232 9.50E-03 U- 232 1.42E+00 U- 233 5.83E+00 U- 234 1.81E+00 U- 235 7.35E-02 U- 236 5.63E-02 U- 238 1.65E+00 Y- 90 9.29E+04 Zr- 93 1.90E+01</p>	Continuous	<p>CDM: Field interviews, WDOH approved logs, and verified basis for APQ in NOC application. Comment: None</p>
<p>The portable exhauster shall provide two banks of HEPA filters in series, and the glycol heater shall be provided with an automatic heater trip function actuated by exhaust stream temperature indication. The trip set point shall be set below 200 degrees F. HEPAs shall be individually aerosol tested, annually, to the requirements of ASME N510, and shall have a minimum efficiency of 99.95% [WAC 246-247-040(5)].</p>	Continuous	<p>CDM: Field interviews, CH2M HILL work planning/controls/documents, and procedures. Comment: None</p>
<p>The portable exhauster shall operate continuously when water is being added to the tank via the spray devices. If structural safety considerations force shutdown of the active ventilation system, WDOH shall be notified prior to shutdown of active ventilation. Passive breather filter ventilation may be used when there is no dilution water delivery via the spray devices [WAC 246-247-040(5)].</p>	Continuous	<p>CDM: Field interviews, CH2M HILL work planning/controls/documents, notification and operating procedures. Comment: None</p>
<p>The following shall be provided to WDOH for review one month prior to commencement of waste retrieval operations: 1) Code compliance matrix for exhauster and new ventilation system; 2) Exhauster design specifications; 3) Copies of exhauster manufacturer's qualification test records; 4) Operating procedures or other documentation demonstrating administrative/other controls adequate to ensure conformance of exhauster/vent system and waste retrieval operations to the conditions and limitations of this NOC. If part or all of this information has been previously provided for this particular exhauster under another NOC requiring BARCT, a written reference to the WDOH approval letter shall constitute fulfillment of this condition [WAC 246-247-040(5)].</p>	Continuous	<p>CDM: Field interviews, CH2M HILL work planning/controls/documents, and procedures. Comment: Requested documents were submitted to WDOH as they were generated.</p>
<p>All activities performed under this NOC shall be performed in accordance with ALARA principles [WAC 246-247-040(1)].</p>	Continuous	<p>CDM: Field interviews, CH2M HILL work planning/controls/documents, and procedures. Comment: None</p>

Requirement	Compliance Status	Compliance Determination Method
Once the portable exhauster system is connected to tank 241-S-102, an operability/acceptance test shall be performed on the system. A test plan shall be provided to WDOH. Test results shall be reported to WDOH [WAC 246-247-040(5)].	Continuous	CDM: Field interviews. Comment: Test was completed and test plan and test results were submitted to WDOH.
A written technical basis for the stack monitoring system, as required by ANSI 13.1-1999, Section 4, shall be provided to WDOH. Dilution operations under this NOC shall not commence until WDOH has reviewed the stack monitoring technical basis. If part or all of this information has been previously provided for this particular stack under another NOC requiring BARCT, a written reference to the WDOH approval letter shall constitute fulfillment of this condition [WAC 246-247-040(5)].	Continuous	CDM: Field interviews. Comment: Requested documents were submitted to WDOH as they were generated.
A copy of the hose-in-hose transfer line management plan accepted by the Washington State Department of Ecology as meeting WAC-173-303 for hazardous waste lines shall be provided to WDOH, RPP-12711 [WAC 246-247-040(5)].	Continuous	CDM: Field interviews. Comment: Requested documents were submitted to WDOH as they were generated.
The Annual Possession Quantity and Potential-to-Emit to the MEI shall be logged and retained [WAC 246-247-040(5)].	Continuous	CDM: Field interviews, WDOH approved logs for tracking APQ and PTE. Comment: None
Monthly checks shall be performed on the exhaust duct to ensure there is no degradation of the ductwork or leakage at the connection points [WAC 246-247-040(5)].	Continuous	CDM: Field interviews, operating rounds and work control/planning/documents. Comment: None
By October 25, 2003, and thereafter as individually noted below, the emission unit monitoring system shall have the following activities performed: a. Inspect pitot tube systems for leaks, at least annually. b. Inspect nozzles for alignment, presence of deposits, damage to sharp-edged nozzles, or other potentially degrading factors (corrosion, physical damage, etc) at least annually. c. Check transport lines and if visible deposits are presents perform cleaning, at least annually. d. Checks to ensure the tightness of all fittings and connections as well as a leak test of the sample system, at least annually. e. Inspect rotameters of sampling systems for presence of foreign matter at the start of each sampling period (no rotameters - subcondition e. is not applicable here.) f. Check the response of stack flow rate monitoring and control system at least quarterly. g. A functional/calibration check of monitoring system instrumentation shall be performed at least annually. h. USDOE shall provide to WDOH for review copies of the procedures used to perform the above activities. [WAC 246-247-040(5)]	Continuous	CDM: Field interviews, CH2M HILL work planning/controls/documents, and procedures. Comment: Requested documents were submitted to WDOH as they were generated.
These Conditions and Limitations must be documented in an established procedure prior to starting activities granted by this approval (WAC 246-247-040(5)) and (WAC 246-247-060(5)).	Continuous	CDM: CH2M HILL work planning/controls/documents, and procedures. Comment: None

Requirement	Compliance Status	Compliance Determination Method
<p>If this emission unit is not in compliance with the standards in WAC 246-247-040 during construction or operation, the department reserves the right to require modifications to bring it into compliance (WAC 246-247-060-(2)(d)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility shall notify the department seven days in advance of any planned pre-operational testing of the emission unit's control, monitoring or containment systems. The department reserves the right to observe such tests (WAC 246-247-060(4)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility must be able to demonstrate that it has a quality assurance program compatible with applicable national standards (WAC 246-247-075(6)).</p>	<p>Continuous</p>	<p>CDM: CH2M HILL quality assurance program, records, and procedures. Comment: None</p>
<p>The department retains the right to conduct stack sampling, environmental monitoring or other testing around this unit to assure compliance. If directed by the department, the facility must make provision for such testing (WAC 246-247-075(9) and (10)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility must be able to demonstrate that workers associated with this emission unit are trained in the use and maintenance of control and monitoring systems, and in the performance of associated tests and emergency procedures (WAC 246-247-075(12)).</p>	<p>Continuous</p>	<p>CDM: CH2M HILL training program, training records, work controls, and procedures. Comment: None</p>
<p>The facility must be able to demonstrate the reliability and accuracy of emissions data and other test results from this emission unit (WAC 246-247-075(13)).</p>	<p>Continuous</p>	<p>CDM: CH2M HILL quality assurance program, records, and procedures. Comment: None</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The department reserves the right to inspect and audit all construction activities, equipment, operations, documents, data and other records related to compliance with the requirements of this chapter (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The department may require an ALARACT demonstration at any time (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility must meet all reporting and record keeping requirements of 40 CFR 61, Subpart H. (WAC 246-247-080(2)).</p>	<p>Continuous</p>	<p>CDM: CH2M HILL records management and procedures. Comment: None</p>
<p>The facility shall report all measured or calculated emissions annually (WAC 246-247-080(3)).</p>	<p>Continuous</p>	<p>CDM: The annual "Radionuclide Air Emissions Report" for the Hanford Site. Comment: None</p>
<p>The facility shall report to the department within 24 hours, any unexpected release of radioactivity, shutdown or other condition that, if allowed to persist, or lasts more than four hours, would result in the emission of radionuclides in excess of any standards or limitation in the license. Applicable standards (WAC 246-247-040) include unit specific emission limits (paragraph 5), the offsite dose standard (paragraph 1), BARCT (paragraph 3), or ALARACT (paragraph 4), whichever is applicable, or any limitation included in this approval (paragraph 5) (WAC 246-247-080(5)).</p>	<p>Continuous</p>	<p>CDM: Field interviews, CH2M HILL notification procedures, and notification logbook. Comment: None</p>

Requirement	Compliance Status	Compliance Determination Method
<p>Prior to permanent shut down of an emission unit or completion of an activity, the permittee shall file a report of closure with the Department of Health. The report of closure shall include the date of the shutdown and indicate whether, despite cessation of operation, there is still a potential for radioactive air emissions and a need for any active or passive ventilation system with emission control and/or monitoring devices. An emission unit or activity will not be considered permanently shut down or completed until a report of closure is received and approved by Health. Once an emission unit is permanently shut down or an activity is completed, thereby rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the shutdown or completion, to meet any monitoring, record keeping, and reporting requirements which are no longer applicable for that emission unit or activity. All records, relating to the shut down emission unit or completion of an activity, generated while the emission unit or activity was in operation, shall be kept in accordance with (WAC 246-247-080(8)). (WAC 246-247-080(6))</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility shall maintain readily (promptly) retrievable storage areas (on site) for all records and documents related to, and which may help establish compliance with, the requirements of this chapter. The facility shall keep these records available for department inspection for at least five years (WAC 246-247-080(8)).</p>	<p>Continuous</p>	<p>CDM: CH2M HILL records management and procedures. Comment: None</p>
<p>Demonstration of ventilation system water removal capability (adequate to ensure against excessive HEPA loading during diluent addition via the spray devices) shall be provided to WDOH one month prior to the operation of the exhauster [WAC 246-247-040(5)].</p>	<p>Continuous</p>	<p>CDM: Field interviews. Comment: Requested documents were submitted to WDOH.</p>
<p>Licensee shall provide a written justification for use of a humidity probe in determining stack gas moisture content under 40 CFR 60 Appendix A, Method 2. Retrieval operations shall not proceed under this NOC until WDOH has approved the justification [WAC 246-247-040(5)].</p>	<p>Continuous</p>	<p>CDM: Field interviews. Comment: Requested documents were submitted to WDOH.</p>
<p>The facility shall ensure all emissions units are fully accessible to department inspectors. In the event the hazards associated with accessibility to a unit require training and/or restriction or requirements for entry, the facility owner or operator shall inform the department, prior to arrival, of those restrictions or requirements. The owner or operator shall be responsible for providing the necessary training, escorts, and support services to allow the department to inspect the facility. At a minimum for unannounced inspections, such requirements or restrictions must be told to inspectors to provide an opportunity for inspectors to meet those requirements prior to the inspection (WAC 246-247-080(9)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility shall make available, in timely manner, all documents requested by the department for review. The facility shall allow the department to review documents in advance of an inspection. The facility shall allow access to classified documents by representatives of the department with the appropriate security clearance and a demonstrable need-to-know (WAC 246-247-080(10)).</p>	<p>Continuous</p>	<p>CDM: CH2M HILL records management and procedures. Comment: None</p>
<p>Radionuclides requiring measurement under this license are: Cs-137, Sr-90, Pu-239, Pu-240, Am-241, gross alpha, gross beta.</p>	<p>Continuous</p>	<p>CDM: ABCASH Program. Comment: ABCASH EDP code number E046.</p>
<p>The total abated emission limit for 296-P-43 or 296-P-44 under this Notice of Construction is limited to 1.77E-01 to the Maximally Exposed Individual. The total unabated emission limit on the Potential-to-Emit for 296-P-43 or 296-P-44 under this Notice of Construction is limited to 8.4E+01 mrem/year to the Maximally Exposed Individual [WAC 246-247-040(5)].</p>	<p>Continuous</p>	<p>CDM: The annual "Radionuclide Air Emissions Report" for the Hanford Site. Comment: None</p>
<p>A cold test shall be performed on the portable exhauster system. An acceptance test plan shall be provided to WDOH. Test results shall be reported to WDOH [WAC 246-247-040(5)].</p>	<p>Continuous</p>	<p>CDM: Field interviews. Comment: Requested documents were submitted to WDOH.</p>
<p>All facilities with licensed emission units, except for radioactive materials licensees, shall submit a request to the department for renewal of their radioactive air emissions license at least sixty days prior to expiration of the license or as required by the Air Operating Permit. All renewal requests shall include a summary of the operational status of all emission units, the status of facility compliance with the standards of WAC 246-247-040, and the status of any corrective actions necessary to achieve compliance with the requirements of this chapter. Facilities with licensed emission units that also hold a radioactive materials license issued by the department shall submit this information along with their radioactive material license renewal submittal. If the department is unable to renew a radioactive air emissions license before its expiration date, the existing license, with all of its requirements and limitations, remains in force until the department either renews or revokes the license (WAC 246-247-060(9)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>All radioactive air emissions licenses issued by the department, except those issued to radioactive materials licensees, shall have an expiration date of five years from date of issuance or as specified in the Air Operating Permit. For radioactive material licensees, the requirements and limitations for the operation of emission units shall be incorporated into their radioactive materials license, and shall expire when the radioactive materials license expires (WAC 246-247-060(6)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>

296-T-18
WDOH Emission Unit ID : 166
Page in AOP : 2-048

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Fan Required Units : 1 Add'l Description:	Continuous	CDM: Field interviews. Comment: None
Zone or Area : Abatement Technology : HEPA Required Units : 2 Add'l Description: 3 parallel flow paths with 2 HEPAs in series	Continuous	CDM: Field interviews. Comment: None
Zone or Area : Abatement Technology : Prefilter Required Units : 1 Add'l Description: 3 parallel flow paths	Continuous	CDM: Field interviews. Comment: None
Zone or Area : Abatement Technology : Heater Required Units : 1 Add'l Description: Annulus exhaust is not heated	Continuous	CDM: Field interviews. Comment: None
Zone or Area : Abatement Technology : Required Units : Add'l Description:	Continuous	CDM: Field interviews. Comment: None
Required Sampling: Continuous Sampling Frequency: Continuous Radionuclide Requiring Measurement: All radionuclides which could contribute 10% of the potential EDE.	Continuous	CDM: ABCASH Program. Comment: ABCASH EDP code number W882.
Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4) & WAC 246-247-75(2) Permit Monitoring and Testing Procedure: Method 2 appendix A Method 114 appendix B 61.93(b)(2)(ii) ANSI N13.1	Continuous	CDM: CH2M HILL NESHAP quality assurance program. Comment: None
No active NOC approvals in the AOP for this certification period.		

J-CWC 001
WDOH Emission Unit ID : 439
Page in AOP : H-0127

Requirement	Compliance Status	Compliance Determination Method
No active Abatement Controls in the AOP for this certification period.		
Required Sampling: Environment Sampling; Ambient air monitors N-449, N-457, N-964, and N-433 Sampling Frequency: Near field ambient monitoring program	Continuous	CDM: Required near-facility monitoring was conducted as reported in the ABCASH database. Comment:
Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4)(i) & WAC 246-247-075(3) Permit Monitoring and Testing Procedure: 40 CFR 61, Appendix B, Method 114(3)	Continuous	CDM: The near-field monitoring program satisfies WAC 246-247-075(8). See conditions below for compliance status with the remaining applicable paragraphs of WAC 246-247-075. The "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions" (HNF-EP-0528) specifies both the hardware and method used to sample and the analytical methods used in the laboratory. Comment:
<p align="center"> Permit: AIR 02-710 Issue Date:07-29-02 Obsolete Date: 07-05-06 NOC: Central Waste Complex Operations WDOH NOC ID: 295 Date In AOP: 12-31-02 Page in AOP: H-0127 </p>		
Requirement	Compliance Status	Compliance Determination Method
The U.S. Department of Energy shall comply with all Conditions and Limitations of this license (WAC 246-247-060(5)).	Continuous	CDM: For this approval order, in compliance with all approval conditions. Comment:
The total abated emission limit for this Notice of Construction is limited to 2.40E-05 mrem/year to the Maximally Exposed Individual (WAC 246-247-040(5)). The total limit on the Potential-To-Emit for this Notice of Construction is limited to 4.80E-02 mrem/year to the Maximally Exposed Individual (WAC 246-247-030(21)).	Continuous	CDM: Annual compliance evaluation. Comment:
This process is limited to: the process of managing four primary types of waste: low-level (LLW), low-level mixed (LLMW), transuranic (TRU), and TRU-mixed waste. The LLW typically contains rags, paper, rubber gloves, disposal supplies, tools, industrial waste (e.g., failed equipment), solidified process byproducts, and laboratory wastes that are contaminated with radioactive material. This waste is considered LLW if it contains radioactive	Continuous	CDM: The following procedures demonstrate that activities at CWC are as described in the NOC: SW-100-143, Management of Solid

Requirement	Compliance Status	Compliance Determination Method
<p>material and is not classified as TRU waste, high-level waste, or spent nuclear fuel. Generally, LLW and LLMW accepted for storage at the CWC must meet the criteria for low specific activity through Type A2 quantities. Containers in excess of A2 quantities may also be accepted with a specific approved safety analysis. Although transuranic radionuclides may also be present in concentrations up to 100 nCi/g, this waste form is significantly less hazardous than TRU because the material is limited to Type A2 quantities. (Note: Contact handled TRU container limits are more than 1,000 times greater than Type A2 quantities.) TRU and TRU-mixed waste typically contains rags, paper, rubber gloves, disposable supplies, tools, industrial waste (e.g., failed equipment), solidified process byproducts, and laboratory wastes that are contaminated with TRU material. This waste must contain at least 100 nCi of TRU material per gram of waste or it is considered LLW. The TRU waste accepted by CWC may contain varying concentrations of TRU radionuclides and limited amounts of non-TRU radionuclides. With some exceptions allowed based on safety analysis, the TRU content of waste containers is generally limited to 53 239/240 Pu dose equivalent curies (DE-Ci), where the DE-Ci is derived by multiplying the isotopic composition (i.e., weight fractions of the various TRU isotopes) by the specific activities of each isotope, and then converting that number with corrections factors taken from the Hanford Site Solid Waste Acceptance Criteria. The DE-Ci unit is designed to control inhalation dose impacts independent of radionuclide type. The radionuclides Pu-39 and Pu-240 are considered equivalent and are combined for calculation purposes. The annual possession quantity (APQ) shall be tracked by the DE curies and is represented by Pu-239 for this purpose. The CWC stores low-level (LLW), low-level mixed (LLMW), transuranic (TRU), and TRU-mixed waste. The CWC is designed for the receipt and storage of contact-handled waste packages, which are defined as packages having surface dose rate of less than 2 mSv/h (200 mrem/h). Although packages up to 200 mrem/h can be stored at CWC, an operation limit of 1 mSv/h (100 mrem/h) has been established. Each waste package is characterized before receipt and based on this information; incompatible forms of waste are physically segregated. CWC personnel receive and inspect waste packages at the Waste Receiving and Staging Area. Transport off-load operations are performed by hand truck, forklift, or crane by qualified personnel. Packages are transported, generally by forklift to the mixed waste storage pad and then to the assigned facility. Alternatively, waste packages may be received, inspected, and unloaded at the specific facility where waste will be stored. Waste containers are not opened during normal operations at the CWC buildings. Under normal operating conditions there is no airborne release of radioactive material expected from opening waste containers. Inventories of TRU content, non-TRU radionuclides, and hazardous waste constituents are controlled at all waste storage facilities at the CWC. The inventory control system ensures that each building, building quadrant, or module will comply with its established inventory limit. TRU waste containers are generally equipped with a pressure relief vent device, such as the NucFil filter. This filter allows the release of any gases that may be produced as a result of radiolysis inside the container, while preventing release of any particulate matter. Waste shipments are transported to the Waste Receiving and Staging Area where the waste containers are radiologically surveyed and the exterior visually inspected for physical integrity. Waste records are checked for completeness and accuracy in accordance with procedures that provide instructions for performing detailed entry-by-entry reviews of waste records. To the extent practicable, this work is performed before unloading. However, partial unloading of a shipment may be necessary to complete a thorough survey and inspection. Verification of container contents, which may involve the opening of containers and sampling of waste contents, is performed at a facility separate from the CWC (e.g., T-Plant). Waste packages meeting all acceptance criteria are accepted for storage. Non-compliant waste packages (e.g., with paperwork errors or omissions and damaged containers) are held until the non-compliant condition is corrected to the satisfaction of the responsible Solid Waste Manager or designee. To detect leaking or deteriorating containers, or deterioration of the containment system, all waste containers are inspected on a weekly basis. To ensure access for inspection, aisles are provided and rows may be no more than two drums wide. Nominal aisle width between container rows is 76.2 cm (30 in.) for all locations</p>		<p>Waste in CWC HNF-EP-0063, Hanford Site Solid Waste Acceptance Criteria SW-040-043, Inspect Central Waste Complex and Sodium Storage Building Comment:</p>

Requirement	Compliance Status	Compliance Determination Method
except the storage modules where 61 cm (24 in.) is the minimum. PermaCon unit: This approval also allows the placement of a modular containment PermaCon unit within the 2404WC Building (or similar CWC building) for the purpose of sampling the head space gas within solid waste storage containers.		
The Annual Possession Quantity is limited to the following radionuclides (Curies/year): Alpha 0 2.50E+04 B/G 0 2.50E+05	Continuous	CDM: Annual compliance evaluation. Comment:
The facility must be able to demonstrate workers associated with this emission unit are trained in the use and maintenance of control and monitoring systems, and in the performance of associated tests and emergency procedures (WAC 246-247-075(12)).	Continuous	CDM: Training records. Comment:
The facility shall report to the department within 24 hours, any unexpected release of radioactivity, shutdown or other condition that, if allowed to persist, or lasts more than four hours, would result in the emission of radionuclides in excess of any standards or limitation in the license. Applicable standards (WAC 246-247-040) include unit specific emission limits (paragraph 5), the offsite dose standard (paragraph 1), BARCT (paragraph 3) or ALARACT (paragraph 4), whichever is applicable, or any limitation included in this approval (paragraph 5) (WAC 246-247-080(5)).	Not Applicable	CDM: N/A Comment: No reports were required.
Container inventory shall be tracked (logged) using the SWITS database.	Continuous	CDM: Procedure WMP-370-5.01 "SWITS Data Entry For Waste" and plant operating procedure SW-100-143 "Operate HEPA Vacuum". Comment:
The department retains the right to conduct stack sampling, environmental monitoring or other testing around this unit to assure compliance. If directed by the department, the facility must make provision for such testing (WAC 246-247-075(9) and (10)).	Not Applicable	CDM: N/A Comment: Ecology and WDOH have determined that the licensee need not certify compliance with conditions that convey a right, that are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.
Periodic confirmatory sampling is required. It must consist of: sampling quarterly using a portable sampler for a two-week interval inside the CWC building (excluding outdoor pads) containing vented containers with the highest cumulative inventory of DE curies during the quarter sampled. (Samples will be handled following the applicable sections of 40 CFR 61, Appendix B, Method 114).	Continuous	CDM: Solid Waste Storage and Disposal Radiological Control Scheduled Radiation Survey Task Description SWP-Q101. WRAP Radiological Control Scheduled Radiation Survey Task Description WP-Q-007. Comment:

Requirement	Compliance Status	Compliance Determination Method
<p>The facility shall maintain readily (promptly) retrievable storage areas (on site) for all records and documents related to, and which may help establish compliance with, the requirements of this chapter. The facility shall keep these records available for department inspection for at least five years (WAC 246-247-080(8)).</p>	<p>Continuous</p>	<p>CDM: WDOH has requested information and records during past inspections and records promptly were made available. Records are maintained per HNF-RD-210. Comment:</p>
<p>The facility must be able to demonstrate that it has a quality assurance program compatible with applicable national standards (WAC 246-247-075(6)).</p>	<p>Continuous</p>	<p>CDM: HNF-EP-0528, "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions" Comment:</p>
<p>The facility must maintain a log in an approved format (SWITS database) for this activity or emission unit.</p>	<p>Continuous</p>	<p>CDM: Procedure WMP-370-5.01 "SWITS Data Entry For Waste" and plant operating procedure SW-020-030 "Operate HEPA Vacuum". Comment:</p>
<p>The facility must be able to demonstrate the reliability and accuracy of emissions data and other test results from this emission unit (WAC 246-247-075(13)).</p>	<p>Continuous</p>	<p>CDM: HNF-EP-0528-7, "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions". Comment:</p>
<p>The radionuclides are limited to: H-3, C-14, K-40, Ar-41, Cr-51, Mn-54, Fe-59, Co-58, Co-60, Zn-65, Kr-85, Sr-89, Sr-90, Y-90, Zr-95, Nb-95, Tc-99, Ru-103, Ru-106, Sn-113, Sb-124, Sb-125, I-129, I-131, Cs-134, Cs-137, Ba-137, Ce-141, Ce-144, Pm-147, Eu-152, Eu-154, Eu-155, Tl-208, Po-210, Po-212, Po-216, Bi-212, Bi-214, Pb-212, Pb-214, Rn-220, Ra-224, Ra-226, Ac-228, Th-232, Th-228, Th-234, U-232, U-233, U-234, U-235, U-236, U-238, Np-237, Pu-238, Pu-239, Pu-240, Pu-241, Pu-242, Am-241, Am-243, Cm-242, Cm-243, Cm-244, and Cf-252 The above list of radionuclides represents all of the significant radionuclides historically present at the Central Waste Complex (CWC), including some that are not significant. Any radionuclide on the chart of the nuclides could be present or received at CWC in the future. Periodic confirmatory measurements to verify low emissions are performed by taking a two-week air sample on a quarterly basis and analyzing for total alpha and total beta. Although any radionuclide could be present, for conservatism all beta is assumed to be Cs-137 and all alpha is assumed to be Am-241 for dose calculation estimates.</p>	<p>Continuous</p>	<p>CDM: Solid Waste Storage and Disposal Radiological Control Scheduled Radiation Survey Task Description WRAP Radiological Control Scheduled Radiation Survey Task Description WP-Q-007. Comment:</p>
<p>Ambient air monitors N-449, N-457, N-964, N-433 shall be maintained for the duration of this project as monitors for diffuse fugitive emission.</p>	<p>Continuous</p>	<p>CDM: Required near-facility monitoring was conducted as reported in the ABCASH database. Comment:</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The department may require an ALARACT demonstration at any time (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that the licensee need not certify compliance with conditions that convey a right, that are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility shall ensure all emissions units are fully accessible to department inspectors. In the event the hazards associated with accessibility to a unit require training and/or restriction or requirements for entry, the facility owner or operator shall inform the department, prior to arrival, of those restrictions or requirements. The owner or operator shall be responsible for providing the necessary training, escorts, and support services to allow the department to inspect the facility. At a minimum for unannounced inspections, such requirements or restrictions must be told to inspectors to provide an opportunity for inspectors to meet those requirements prior to the inspection (WAC 246-247-080(9)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: No WDOH inspections occurred during the reporting period.</p>
<p>The required controls are: Emissions control for vented containers within the CWC will consist of NucFil {tm} filters. (Under normal operating conditions, non-vented containers are not expected to produce radioactive emissions.) A NucFil {tm} filter consists of a porous carbon/carbon composite of non-activated carbon fibers housed in stainless steel that as a minimum, restricts the release of 99.95% of particles with a mean 0.3 microns in size. In addition, housekeeping (e.g., decontamination and replacing leaking containers as needed) and frequent smears throughout the CWC will be used to ensure that the emission control equipment is working properly. Smears that exceed 20 dpm/100 sqcm for alpha and 1,000 dpm/100 sqcm for beta/gamma contamination will be investigated to determine the cause of the contamination and appropriate corrective actions will be implemented.</p>	<p>Continuous</p>	<p>CDM: 1. HNF-EP-0063 Hanford Site Solid Waste Acceptance Criteria. 2. HNF-5173 PHMC Radiological Control Manual Comment: 1. Requires Nucfil filters for venting containers. 2. Describes corrective actions for positive smears.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>Prior to permanent shut down of an emission unit or completion of an activity, the permittee shall file a report of closure with the Department of Health. The report of closure shall include the date of the shutdown and indicate whether, despite cessation of operation, there is still a potential for radioactive air emissions and a need for any active or passive ventilation system with emission control and/or monitoring devices. An emission unit or activity will not be considered permanently shut down or completed until a report of closure is received and approved by Health. Once an emission unit is permanently shut down or an activity is completed, thereby rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the shutdown or completion, to meet any monitoring, record keeping, and reporting requirements which are no longer applicable for that emission unit or activity. All records, relating to the shut down emission unit or completion of an activity, generated while the emission unit or activity was in operation, shall be kept in accordance with (WAC 246-247-080(8)). (WAC 246-247-080(6)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that the licensee need not certify compliance with conditions that convey a right, that are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility must meet all reporting and record keeping requirements of 40 CFR 61, Subpart H (WAC 246-247-080(2)).</p>	<p>Continuous</p>	<p>CDM: for calculations and input data from stack and ambient air monitors, the ERS electronic system. Information from other than stacks and ambient air monitoring resides at the individual facility. For annual reporting DOE/RL-2007-01 Radionuclide Air Emissions Report for the Hanford Site Calendar Year 2006 satisfies the requirement. Comment:</p>
<p>The department reserves the right to inspect and audit all construction activities, equipment, operations, documents, data and other records related to compliance with the requirements of this chapter (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that the licensee need not certify compliance with conditions that convey a right, that are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility shall report all measured or calculated emissions annually (WAC 246-247-080(3)).</p>	<p>Continuous</p>	<p>CDM: DOE/RL-2007-01 "Radionuclide Air Emissions Report for the Hanford Site Calendar Year 2006". Comment:</p>

P-241S102-001
WDOH Emission Unit ID : 134
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Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : HEPA Required Units : Add'l Description: Passive Breather Filter	Continuous	CDM: Field interviews. Comment: None
Required Sampling: Smear survey on the inside surface of the ducting and downstream of the HEPA filter or on the outside of the screen covering the outlet of the vent. Sampling Frequency: 1 per year. Radionuclide Requiring Measurement: Levels below 10,000 dpm/cm2 beta/gamma and 200 dpm/cm2 alpha will verify low emissions.	Continuous	CDM: Annual Radiological Surveillance Task, Radiological Survey Records, and field interviews. Comment: None
Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4)(i) & WAC 246-247-075(3)	Continuous	CDM: CH2M HILL NESHAP quality assurance program. Comment: None
Permit: AIR 04-503 Issue Date: 05-17-04 Obsolete Date: 07-05-06 NOC: 241-S-102 Installation and Operation of Waste Retrieval Systems WDOH NOC ID: 567 Date In AOP: 04-11-05 Page in AOP: H-0934		
Requirement	Compliance Status	Compliance Determination Method
The U.S. Department of Energy shall comply with all Conditions and Limitations of this license (WAC 246-247-060(5)).	Continuous	CDM: Field interviews, and complied with all conditions and limitations in this NOC approval. Comment: None
The total abated emission limit for this Notice of Construction is limited to 1.80E-01 mrem/year to the Maximally Exposed Individual (WAC 246-247-040(5)). The total limit on the Potential-To-Emit for this Notice of Construction is limited to 8.40E+01 mrem/year to the Maximally Exposed Individual(WAC 246-247-030(21)).	Continuous	CDM: Field interviews, ABCASH isotopic analysis of record sampler, tracked via ERS and reported in the annual radiological air emissions report, and verified basis for APQ in NOC application. Comment: None
This approval applies only to those activities described below. No additional activities or variations on the approved activities that constitute a "modification" to the emission unit, as defined in WAC 246-247-030(16), may be conducted. The salt cake dissolution activity associated with 241-S-102 shall include the following: pit work, soil excavation, in-tank equipment installation/removal, water dilution, and waste transfers. Pit Work (Diffuse and Fugitive): - Open the 241-S-102B Distributor pit and cut flange in riser with hold saw or plasma cutter, to install instrumentation manifold and new progressive cavity transfer pump (ALARACT 1, 6, 12, 13, 14); - Open the two 241-S-102 Condenser pits to replace two existing cover plates with new cover plates. Connect the passive breather filter assembly and connect the trunk of the portable exhauster (ALARACT 4, 6, 14); - Open the 241-S-A	Continuous	CDM: Field interviews, CH2M HILL work planning/controls/documents, and procedures. Comment: None

Requirement	Compliance Status	Compliance Determination Method
Permit: AIR 02-703 Issue Date: 07-22-02 Obsolete Date: 07-05-06 NOC: Construction and Operation of the Waste Receiving and Processing Facility, Rev. 1A WDOH NOC ID: 23 Date In AOP: 12-31-02 Page in AOP: H-0036		
Requirement	Compliance Status	Compliance Determination Method
<p>The U.S. Department of Energy shall comply with all Conditions and Limitations of this license (WAC 246-247-060(5)).</p>	<p>Continuous</p>	<p>CDM: Complied with all conditions in this NOC approval. Comment:</p>
<p>The total abated emission limit for this Notice of Construction is limited to 5.63E-02 mrem/year to the Maximally Exposed Individual (WAC 246-247-040(5)). The total limit on the Potential-To-Emit for this Notice of Construction is limited to 1.13E+02 mrem/year to the Maximally Exposed Individual (WAC 246-247-030(21)).</p>	<p>Continuous</p>	<p>CDM: Abated: DOE/RL-2007-01, Revision 0, "Radionuclide Air Emissions Report for the Hanford Site, Calendar Year 2006". Unabated: Verified basis for determining unabated emissions in the NOC application has not changed. Comment:</p>
<p>This process is limited to: At the WRAP FACILITY-- Examining, assaying, characterizing, treating, verifying, and repackaging solid radioactive material and mixed waste to enable treatment, storage, or disposal of low-level waste (LLW), transuranic (TRU) waste, TRU mixed waste, and low-level mixed waste (LLMW) in contact handled (CH) containers where the external surface dose rate does not exceed 200 millirem per hour. At SHIPPING AND RECEIVING (200 Area Diffuse/Fugitive Emissions)-- Containers delivered to and transferred/shipped from the shipping and receiving shall be unloaded, visually inspected, bar code labeled, and radiologically surveyed with information pertaining to each container entered into the data management system. Following visual inspection, transfer incoming drums to the NDE/NDA area for further characterization using the process described for the NDE/NDA below. Once characterized, verified, and/or certified, the certified TRU waste must be loaded into a transuranic package transporter (TRUPACT-2) shipping cask for shipment to the Waste Isolation Pilot Plant (WIPP) in New Mexico. Verified LLW shall be transferred for disposal onsite. Mixed waste must be moved to an offsite treatment or permitted storage facility, or to an onsite treatment, disposal, and/or storage unit. Radioactive material that fails verification shall be returned to the generator, processed to correct the problem, or sent to another facility for further reprocessing. During NONDESTRUCTIVE EXAMINATION/NONDESTRUCTIVE ASSAY SYSTEMS (200 Area Diffuse/Fugitive Emissions)-- The NDE/NDA shall used to examine and to certify LLW, LLMW, TRU, and TRU mixed waste container contents without opening the containers. In the PROCESS AREA (296-W-4 Emission Unit)-- The process area consists of four glovebox lines: a TRU waste process glovebox, a TRU waste restricted waste management (RWM) glovebox, a LLW process glovebox (with supercompaction capability that also can be used for TRU waste processing), and a LLW RWM glovebox. The following is allowed in the process gloveboxes: drums opened, contents sorted and sampled, if necessary, noncompliant items removed and transferred to the RWM gloveboxes, and remaining compliant waste repackaged into new drums. Incoming drums generally shall be opened in gloveboxes. However, loosening of a lid or replace a damaged lid outside of a glovebox is allowed. In the TRANSURANIC WASTE PROCESS LINE-- The TRU waste process glovebox line consists of stainless steel modular gloveboxes bolted together in a linear configuration. Windows shall be gasketed and bolted to the glovebox wall, and gloveports shall be fitted to the glovebox wall and windows to accept push-through type gloves. Glovebox ventilation shall be the once-through type. Air shall be drawn from the</p>	<p>Continuous</p>	<p>CDM: Project procedures. Comment: Process descriptions contained in procedures. Process did not change during reporting period.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>Required Sampling: Continuous Sampling Frequency: Continuous, collect samples biweekly at a minimum Radionuclide Requiring Measurement: All radionuclides which could contribute 10% of the potential EDE.</p>	<p>Continuous</p>	<p>CDM: Continuous sampling and sample collection frequencies verified by information in ABCASH. "Statement of Work for Services Provided by the Waste Sampling and Characterization Facility for the Environmental Compliance Program during Calendar Year 2006" (HNF-EP-0835) defines what analyses are performed and frequency. "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions" (HNF-EP-0528) specifies QA requirements. Comment: "Continuous compliance" means collection of all monitoring data required by the permit under the data collection frequency specified in the permit, with no deviations, and no other information indicating deviations, except for planned shutdowns, upsets, or malfunctions during which compliance is not required.</p>
<p>Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4)(i) & WAC 246-247-075(3) Permit Monitoring and Testing Procedure: Method 2 appendix A Method 114 appendix B 61.93(b)(2)(ii) ANSI N13.1</p>	<p>Continuous</p>	<p>CDM: DOE/RL-2007-01, Revision 0, "Radionuclide Air Emissions Report for the Hanford Site, Calendar Year 2006" and the "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions" (HNF-EP-0528) satisfy WAC 246-247-075(1). Hanford Environmental Monitoring Program satisfies WAC 246-247-075(8). Refer to following conditions for compliance status with remaining applicable paragraphs of WAC 246-247-075. Maintenance procedure WRP-99001 "Stack Airflow Test" and maintenance procedure WMP-99002.WRP-A & B satisfy facility-specific portion of this monitoring requirement. "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions" (HNF-EP-0528) specifies QA requirements. 61.93(b)(2)(ii) ANSI N13.1: In compliance as stated in the most recent FFCA quarterly report. Comment:</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility shall make available, in timely manner, all documents requested by the department for review. The facility shall allow the department to review documents in advance of an inspection. The facility shall allow access to classified documents by representatives of the department with the appropriate security clearance and a demonstrable need-to-know (WAC 246-247-080(10)).</p>	<p>Continuous</p>	<p>CDM: WMP 340, Section 4.03, "Toxic and Radioactive Air Emission Compliance" HNF-RD-15332, Environmental Protection Requirements, Section 2.14 HNF-PRO-15333, Environmental Protection Processes, Section 5.14 HNF-PRO-15334, Effluent and Environmental Monitoring, Section 5.99 HNF-RD-210, Records Management Program Comment:</p>

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WDOH Emission Unit ID : 193
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Requirement	Compliance Status	Compliance Determination Method
<p>Zone or Area : Abatement Technology : Fan Required Units : 4 Add'l Description:</p>	<p>Continuous</p>	<p>CDM: Verified by engineering drawing and operational readiness review. Comment: Drawing number kept in regulatory file.</p>
<p>Zone or Area : Abatement Technology : Prefilter Required Units : 1 Add'l Description: Prefilter for each HEPA housing</p>	<p>Continuous</p>	<p>CDM: Verified by engineering drawing and operational readiness review. Comment: Drawing number kept in regulatory file.</p>
<p>Zone or Area : Abatement Technology : HEPA Required Units : 2 Add'l Description: Redundant systems in parallel consisting of two banks each</p>	<p>Continuous</p>	<p>CDM: Verified by engineering drawing and operational readiness review. Comment: Drawing number kept in regulatory file.</p>
<p>Zone or Area : Abatement Technology : HEPA Required Units : 2 Add'l Description: Redundant systems in parallel consisting of two banks each</p>	<p>Continuous</p>	<p>CDM: Verified by engineering drawing and operational readiness review. Comment: Drawing number kept in regulatory file.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>Prior to permanent shut down of an emission unit or completion of an activity, the permittee shall file a report of closure with the Department of Health. The report of closure shall include the date of the shutdown and indicate whether, despite cessation of operation, there is still a potential for radioactive air emissions and a need for any active or passive ventilation system with emission control and/or monitoring devices. An emission unit or activity will not be considered permanently shut down or completed until a report of closure is received and approved by Health. Once an emission unit is permanently shut down or an activity is completed, thereby rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the shutdown or completion, to meet any monitoring, record keeping, and reporting, requirements which are no longer applicable for that emission unit or activity. All records, relating to the shut down emission unit or completion of an activity, generated while the emission unit or activity was in operation, shall be kept in accordance with (WAC 246-247-080(8)).</p>	<p>Continuous</p>	<p>CDM: WMP 340, Section 4.03, "Toxic and Radioactive Air Emission Compliance" HNF-RD-15332, Environmental Protection Requirement, Section 2.43 HNF-PRO-15333, Environmental Protection Processes, Section 5.43 Comment:</p>
<p>The facility shall maintain readily (promptly) retrievable storage areas (on site) for all records and documents related to, and which may help establish compliance with, the requirements of this chapter. The facility shall keep these records available for department inspection for at least five years (WAC 246-247-080(8)).</p>	<p>Continuous</p>	<p>CDM: WMP 340, Section 4.03, "Toxic and Radioactive Air Emission Compliance" HNF-RD-15332, Environmental Protection Requirements, Section 2.14 HNF-PRO-15333, Environmental Protection Processes, Section 5.14 HNF-PRO-15334, Effluent and Environmental Monitoring, Section 5.99 HNF-RD-210, Records Management Program Comment:</p>
<p>The facility shall ensure all emissions units are fully accessible to department inspectors. In the event the hazards associated with accessibility to a unit require training and/or restriction or requirements for entry, the facility owner or operator shall inform the department, prior to arrival, of those restrictions or requirements. The owner or operator shall be responsible for providing the necessary training, escorts, and support services to allow the department to inspect the facility. At a minimum for unannounced inspections, such requirements or restrictions must be told to inspectors to provide an opportunity for inspectors to meet those requirements prior to the inspection (WAC 246-247-080(9)).</p>	<p>Continuous</p>	<p>CDM: FH EP is responsible for facilitating regulatory inspections and provides an inspection point-of-contact to the Washington State Department of Health (WDOH) inspectors for the Hanford Site. Comment: Statement of fact.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility must meet all reporting and record keeping requirements of 40 CFR 61, Subpart H (WAC 246-247-080(2)).</p>	<p>Continuous</p>	<p>CDM: WMP 340, Section 4.03, "Toxic and Radioactive Air Emission Compliance" HNF-RD-15332, Environmental Protection Requirements, Section 2.14 HNF-PRO-15333, Environmental Protection Processes, Section 5.14 HNF-PRO-15334, Effluent and Environmental Monitoring, Section 5.99 HNF-RD-210, Records Management Program Comment:</p>
<p>The facility shall report all measured or calculated emissions annually (WAC 246-247-080(3)).</p>	<p>Continuous</p>	<p>CDM: HNF-RD-15332, Environmental Protection Requirements HNF-PRO-15334, Effluent and Environmental Monitoring HNF-EP-0528, NESHAP Quality Assurance Project Plan for Radioactive Air Emissions Data. Estimated emissions for this NOC are Reported in the Annual Radionuclide Emission Report for the Hanford Site. Latest report: DOE/RL-2004-0 Comment:</p>
<p>The facility shall report to the department within 24 hours, any unexpected release of radioactivity, shutdown or other condition that, if allowed to persist, or lasts more than four hours, would result in the emission of radionuclides in excess of any standards or limitation in the license. Applicable standards (WAC 246-247-040) include unit specific emission limits (paragraph 5), the offsite dose standard (paragraph 1), BARCT (paragraph 3) or ALARACT (paragraph 4), whichever is applicable, or any limitation included in this approval (paragraph 5) (WAC 246-247-080(5)).</p>	<p>Continuous</p>	<p>CDM: HNF-PRO-15333, Environmental Protection Processes HNF-RD-15332, Environmental Protection Requirements Comment:</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility must be able to demonstrate that the workers associated with this emission unit are adequately trained in the use and maintenance of emission control and monitoring systems, and in the performance of associated test and emergency response procedures (WAC 246-247-075(12)).</p>	<p>Continuous</p>	<p>CDM: Training records (Qual Cards) are maintained in 271 T, Room 100, in the Schwab 5000 fireproof file cabinet D, drawer 3. With regard to the Vent and Balance group, they use HNF-IP-0842, Volume III Training, in all their training. Once a personnel training plan is established by management, the training department tracks these to keep everyone current on all required training. The records of Qual Cards and OJT's are kept in 200E/2750/D-238 in a locked file cabinet in a locked room and contains Certification 060049, Vent System Testing and Adjusting. The completed certifications are kept in this file. The courses taken are tracked using ITEM. Only the Training Coordinator and the manager have access, as well as personnel have access to their own plan. Comment:</p>
<p>The facility must be able to demonstrate the reliability and accuracy of emissions data and other test results from this emission unit (WAC 246-247-075(13)).</p>	<p>Continuous</p>	<p>CDM: SOW for services provided by WSCF for the Environmental Compliance Program CY 2006 (HNF-EP-0835-12). HNF-RD-15332, Environmental Protection Requirements, section 2.99 HNF-PRO-15334, Effluent and Environmental Monitoring, section 5.99 Comment:</p>
<p>The department reserves the right to inspect and audit all construction activities, equipment, operations, documents, data and other records related to compliance with the requirements of this chapter (WAC 246-247-080(1)).</p>	<p>Continuous</p>	<p>CDM: FH EP is responsible for facilitating regulatory inspections and provides an inspection point-of-contact to the Washington State Department of Health (WDOH) inspectors for the Hanford Site. Comment: Statement of fact.</p>
<p>The department may require in ALARACT demonstration at any time (WAC 246-247-080(1)).</p>	<p>Continuous</p>	<p>CDM: HNF-RD-15332, Environmental Protection Requirements, section 2.14 HNF-PRO-15333, Environmental Protection Processes, section 5.14 Comment: Statement of fact.</p>

Requirement	Compliance Status	Compliance Determination Method
These Conditions and Limitations must be documented in an established procedure prior to starting activities granted by this approval (WAC 246-247-040(5)) and (WAC 246-247-060(5)).	Continuous	CDM: WMP 340, Section 4.03, "Toxic and Radioactive Air Emission Compliance" Comment:
If this emission unit is not in compliance with the standards in WAC 246-247-040 during construction or operation, the department reserves the right to require modifications to bring it into compliance (WAC 246-247-060-(2)(d)).	Continuous	CDM: WMP 340, Section 4.03, "Toxic and Radioactive Air Emission Compliance" Comment: Statement of fact.
The facility shall notify the department seven days in advance of any planned pre-operational testing of the emission unit's control, monitoring or containment systems. The department reserves the right to observe such tests (WAC 246-247-060(4)).	Continuous	CDM: WMP-340, Section 4.03, "Toxic and Radioactive Air Emission Compliance" HNF-RD-15332, Environmental Protection Requirements, section 2.56 HNF-PRO-15333, Environmental Protection Processes, Section 5.56 Comment:
The facility must be able to demonstrate that it has a quality assurance program compatible with applicable national standards (WAC 246-247-075(6)).	Continuous	CDM: HNF-0528, NESHAP Quality Assurance Project Plan for Radioactive Airborne Emission Comment:
The department retains the right to conduct its own stack sampling, environmental monitoring or other testing, as required around this unit to assure compliance. If the department so decides, the facility must make provision for such testing (WAC 246-247-075(9) and (10)).	Continuous	CDM: HNF-RD-15332, "Environmental Protection Requirements" Section 2.14 HNF-PRO-15333, Environmental Protection Processes, Section 5.14 WMP-340, Section 4.03, "Toxic and Radioactive Air Emission Compliance" Comment: Statement of fact.

Requirement	Compliance Status	Compliance Determination Method
<p>No activities, other than those explicitly described within this approval, shall be conducted without prior written approval. The approved activities are limited to: the following activities. The 2706-T Building is 18-meters wide, 20-meters long, 7.6-meters high, constructed of prefabricated steel. The 2706-T Building shall be used to decontaminate/treat railroad equipment, buses, trucks, automobiles, road building equipment, eprocess equipment, and other types of equipment as requested. The methods used by operations personnel to decontaminate/treat these items are limited to ice blasting, abrasive blasting, steam cleaning, hand wiping and sanding, grinding and cutting. The building contains two pits over which liquid generating activities are performed. Liquid mixed waste generated by this process is collected in the Railroad Pit and currently transferred to the 221-T Tank System before transfer to Double Shelled tanks (DST) System. Sampling, treatment, verification, and repackaging waste containers and boxes also are conducted in the 2706-T Building. The 2706-TA is a pre-fabricated steel building erected on an existing concrete pad located next to the 2706-T Building. The 2706-TA building is limited to work similar to the existing activities that are being performed within the 2706-T Building. A new building, 2706-TB will be constructed adjacent to the existing 2706-T/TA buildings for management of radioactive and mixed decon waste. Two new stainless steel storage tanks 15,000 gal and 6,000 gal will be located within the 2706-TB containment building. Both tanks will have concrete secondary containment catch basins, sized to catch 110% of the tank volume. The tanks shall be equipped with leak detection systems, transfer piping, and basin/pit sump liners. The ancillary equipment will also have secondary containment. A waste transfer pipe from the 2706-T/TA decon facility shall be connected to the new tanks. Prior to being transferred from the Railroad Pit to these tanks, the waste shall be routed through a new filtration and liquid waste load-out system.</p>	<p>Continuous</p>	<p>CDM: DO-021-052, "2706-T Waste Effluent Collection" DO-021-040, "2706-T Process Air System Operation" DO-040-02, "Perform Daily Surveillance of the 2706-T" DO-060-014, "Operate the 2706-T ACT-1 Ventilation System" DO-060-015, "Operate the 2706-T ACT-2 Ventilation System" DO-080-011, "Preparation for Headspace Gas Sampling" DO-100-012, "Package Mixed Waste in Drums and Boxes" DO-100-022, "Package Low-Level Waste" DO-100-035, "Verify and Sample Waste" DO-100-039, "Package Transuranic Waste" DO-100-055, "Operation of Drum Venting Assembly" DO-100-056, "Venting Restrained Overpack Drums" DO-100-129. "Shipping, Receiving, and Relocating Waste" Project W 259 was completed in 1999 in accordance with the approval condition Comment:</p>
<p>The Annual Possession Quantity is limited to the following radionuclides (Curies/year): Am 241 3.36E-06 Co 57 1.74E-06 Cs 137 8.00E-06 Pu 239 1.05E-05 Sr 90 1.53E-03</p>	<p>Intermittent</p>	<p>CDM: Estimated emissions for this NOC are Reported in the Annual Radionuclide Emission Report for the Hanford Site. DOE/RL-2004-50, Radioactive Air Emissions NOC for Consolidated T Plant Operations, Rev. 0. HNF-PRO-15333, Environmental Protection Processes Sections 5.3, 5.5, and 5.56, 5.14.12 HNF-PRO-15334, Effluent and Environmental Monitoring, Section 5.6 HNF-RD-15332, Environmental Protection Comment: This APQ was based on NDA of the HEPA filters and was limited to the quantities of radionuclides on the HEPA filters. WDOH was notified of this issue on August 30, 2005 and this issue was noted in the semi-annual report DOE/RL 2006-02 REV 0. A revision to the NOC addressing this issue was effective on July 13, 2006.</p>

Requirement	Compliance Status	Compliance Determination Method
<p align="center">Permit: AIR 02-1214 Issue Date:12-13-02 Obsolete Date: 07-13-06 NOC: T Plant Complex Secondary Containment and Leak Detection Upgrades WDOH NOC ID: 164 Date In AOP: 04-11-05 Page in AOP: H-0053</p>		
Requirement	Compliance Status	Compliance Determination Method
<p>The U.S. Department of Energy shall comply with all Conditions and Limitations of this license (WAC 246-247-060)(5)).</p>	Intermittent	<p>CDM: See APQ condition listed below. Comment:</p>
<p>The total abated emission limit for this Notice of Construction is limited to 6.01E-08 mrem/year to the Maximally Exposed Individual (WAC 246-247-040(5)). The total limit on the Potential-To-Emit for this Notice of Construction is limited to 1.20E-04 mrem/year to the Maximally Exposed Individual (WAC 246-247-030(21)).</p>	Continuous	<p>CDM: WMP-340, Section 1.08, "Inventory Control Program" Letter 04-SED-0012, SER for the FH SMP Estimated emissions for this NOC are Reported in the Annual Radionuclide Emission Report for the Hanford Site. DOE/RL-2004-09 DO-040-020, "Perform Daily Surveillance of the 2706-T" DO-060-014, "Operate the 2706-T ACT-1 Ventilation System" DO-060-015, "Operate the 2706-T ACT-2 Ventilation System" HNF-15280, "Technical Safety Requirements for the Solid Waste Operations Complex" For the safety documentation listed above, since safety criteria are generally held as outside the scope of the clean air requirements; however, safety procedures/criteria associated with DE-Ci controls have been adopted in this case for use as a clean air control at the facility. HNF-PRO-15334, Effluent and Environmental Monitoring HNF-14741, "Solid Waste Complex Master Documented Safety Analysis" Letter 05-SED-0058, SER for Rev 2 of the SWOC MDSA and TSR HNF-11724. Fluor Hanford Safety Management Programs Comment:</p>

P-296T007-001
WDOH Emission Unit ID : 315
Page in AOP : H-0053

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Fan Required Units : 1 Add'l Description:	Continuous	CDM: Facility surveillance is a daily plant requirement. Surveillance logsheets document operation during periods of operation. Comment: Continuous when ACT I and/or ACT II is/are operating.
Zone or Area : Abatement Technology : HEPA Required Units : 1 Add'l Description:	Continuous	CDM: Facility surveillance is a daily plant requirement. Surveillance logsheets document operation during periods of operation. Comment: Continuous when ACT I and/or ACT II is/are operating.
Zone or Area : Abatement Technology : Prefilter Required Units : 1 Add'l Description:	Continuous	CDM: Facility surveillance is a daily plant requirement. Surveillance logsheets document operation during periods of operation. Comment: Continuous when ACT I and/or ACT II is/are operating.
Zone or Area : Abatement Technology : Heater Required Units : 1 Add'l Description:	Continuous	CDM: Facility surveillance is a daily plant requirement. Heaters have established set points for operation. Comment: Continuous when ACT I and/or ACT II is/are operating. Note: Heater does not operate when not needed (thermostatically controlled).
Zone or Area : Abatement Technology : Demister Required Units : 1 Add'l Description:	Continuous	CDM: Facility surveillance is a daily plant requirement. Surveillance logsheets document operation during periods of operation. Comment: Continuous when ACT I and/or ACT II is/are operating.
No active Monitoring in the AOP for this certification period.		

P-296SY-001
WDOH Emission Unit ID : 56
Page in AOP : 2-129

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Fan Required Units : 1 Add'l Description:	Continuous	CDM: Field interviews, CH2M HILL notification procedure, and notification logbook. Comment: Exhauster shut down three times during the reporting period; reported per the CH2M HILL notification procedure.
Zone or Area : Abatement Technology : HEPA Required Units : 2 Add'l Description: In series	Continuous	CDM: Field interviews. Comment: None
Zone or Area : Abatement Technology : Prefilter Required Units : 1 Add'l Description:	Continuous	CDM: Field interviews. Comment: None
Zone or Area : Abatement Technology : Heater Required Units : Non operational Add'l Description:	Continuous	CDM: Field interviews, CH2M HILL notification procedure, and notification logbook. Comment: Heater not working correctly or shut down during the reporting period; reported per the CH2M HILL notification procedure.
Zone or Area : Abatement Technology : De-entrainer Required Units : 1 Add'l Description:	Continuous	CDM: Field interviews. Comment: None
Required Sampling: Record Sample Sampling Frequency: 4 week sample/ year Radionuclide Requiring Measurement: TOTAL ALPHA TOTAL BETA	Continuous	CDM: ABCASH program. Comment: ABCASH EDP code number W190.
Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4)(i) & WAC 246-247-075[(3) Permit Monitoring and Testing Procedure: 40 CFR 61, Appendix B, Method 114(3) [see AIR 05-303 for clarification details]	Continuous	CDM: CH2M HILL NESHAP quality assurance program. Comment: None
No active NOC approvals in the AOP for this certification period.		

Requirement	Compliance Status	Compliance Determination Method
Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4)(i) & WAC 246-247-075[3] Permit Monitoring and Testing Procedure: 40 CFR 61, Appendix B, Method 114(3)	Continuous	CDM: CH2M HILL NESHAP quality assurance program. Comment: None
No active NOC approvals in the AOP for this certification period.		

P-296S016-001
WDOH Emission Unit ID : 337
Page in AOP : 2-122

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Fan Required Units : 1 Add'l Description:	Continuous	CDM: Field interviews. Comment: None
Zone or Area : Abatement Technology : HEPA Required Units : 1 Add'l Description:	Continuous	CDM: Field interviews. Comment: None
Required Sampling: Record Sample Sampling Frequency: 4 week sample/ year Radionuclide Requiring Measurement: TOTAL ALPHA TOTAL BETA	Continuous	CDM: ABCASH program Comment: ABCASH EDP code number S264.
Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4)(i) & WAC 246-247-075(3) Permit Monitoring and Testing Procedure: 40 CFR 61, Appendix B, Method 114(3)	Continuous	CDM: CH2M HILL NESHAP quality assurance program. CH2M HILL NESHAP quality assurance program. Comment: None
No active NOC approvals in the AOP for this certification period.		

P-296P022-001
WDOH Emission Unit ID : 53
Page in AOP : 2-128

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Fan Required Units : 1 Add'l Description:	Continuous	CDM: Field interviews, operating procedures, CH2M HILL notification procedure and notification logbook. Comment: Exhauster shut down eight times during the reporting period; reported per the CH2M HILL notification procedure.
Zone or Area : Abatement Technology : HEPA Required Units : 2 Add'l Description: 2 in series	Continuous	CDM: Field interviews. Comment: None
Zone or Area : Abatement Technology : Prefilter Required Units : 1 Add'l Description:	Continuous	CDM: Field interviews. Comment: Changes not requiring permit revision form transmitted via 04-ED-067 dated July 28, 2004 deleted "Prefilter" from "Description of Abatement technology" and deleted "1" from "Required Number of Units."
Zone or Area : Abatement Technology : Heater Required Units : Non-Operational Add'l Description:	Continuous	CDM: Field interviews and operating procedures. Comment: Changes not requiring permit revision form transmitted via 04-ED-067 dated July 28, 2004 deleted "Heater" from "Description of Abatement technology" and deleted "Non-operational" from "Required Number of Units."
Zone or Area : Abatement Technology : Moisture Separator Required Units : 1 Add'l Description:	Continuous	CDM: Field interviews and operating procedures. Comment: Changes not requiring permit revision form transmitted via 04-ED-067 dated July 28, 2004 deleted "Moisture Separator" from "Description of Abatement technology" and deleted "1" from "Required Number of Units."
Required Sampling: Record Sample Sampling Frequency: 4 week sample/ year Radionuclide Requiring Measurement: TOTAL ALPHA TOTAL BETA	Continuous	CDM: ABCASH Program. Comment: ABCASH EDP code number W191.

P-291U001-001
WDOH Emission Unit ID : 310
Page in AOP : 2-158

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Fan Required Units : 2 Add'l Description: In parallel, only 1 operates at a time	Continuous	CDM: Fans are in place. Visual inspection and drawings H-2-825451 and H-2-827361. Comment: Only 1 fan operates at a time
Zone or Area : Abatement Technology : Sandfilter Required Units : 1 Add'l Description:	Continuous	CDM: Filter is in place. Drawings H-2-825451 and H-2-827361, and efficiency testing. Comment:
Required Sampling: Record Sample Sampling Frequency: 1 week sample / year Radionuclide Requiring Measurement: TOTAL ALPHA TOTAL BETA	Continuous	CDM: Effluent stream is passed through a filter media. Filter is removed and analyzed. Analytical results are in ABCASH. Samples are taken per procedure. Comment:
Federal and State Regulatory Requirement: 40 CFR 61.93 (b)(4)(i) & WAC 246-247-075(3) Permit Monitoring and Testing Procedure: 40 CFR 61, Appendix B, Method 114(3)	Continuous	CDM: The "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions" (HNF-EP-0528) specifies both the hardware and method used to sample and the analytical methods used in the laboratory. Comment:
No active NOC approvals in the AOP for this certification period.		

Requirement	Compliance Status	Compliance Determination Method
No active NOC approvals in the AOP for this certification period.		

P-291S001-001
WDOH Emission Unit ID : 332
Page in AOP : 2-153

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Fan Required Units : 2 Add'l Description: In parallel, only 1 operates at a time	Continuous	CDM: Fans are in place. Visual inspection and drawings, H-2-825446, H-2-825444 & H-2-8501. Comment:
Zone or Area : Abatement Technology : Sandfilter Required Units : 1 Add'l Description:	Continuous	CDM: Filter is in place. Drawings, H-2-825446, H-2-825444 & H-2-8501, and efficiency testing. Comment:
Required Sampling: Record Sample Sampling Frequency: 1 week sample / year Radionuclide Requiring Measurement: TOTAL ALPHA TOTAL BETA	Continuous	CDM: Effluent stream is passed through a filter media. Filter is removed and analyzed. Analytical results are in ABCASH. Samples are taken per procedure. Comment:
Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4)(i) & WAC 246-247-075(3) Permit Monitoring and Testing Procedure: Appendix B, Method 114(3)	Continuous	CDM: The "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions" (HNF-EP-0528) specifies both the hardware and method used to sample and the analytical methods used in the laboratory. Comment:
No active NOC approvals in the AOP for this certification period.		

P-242S-001
WDOH Emission Unit ID : 163
Page in AOP : 2-144

Requirement	Compliance Status	Compliance Determination Method
<p>Zone or Area : Abatement Technology : Fan Required Units : 1 Add'l Description: 2 parallel flow paths</p>	<p>Continuous</p>	<p>CDM: Field interviews, CH2M HILL notification procedure and notification logbook. Comment: Exhauster shut down once during the reporting period; reported per the CH2M HILL notification procedure. Changes not requiring permit revision form transmitted via 04-ED-067 dated July 28, 2004 changed "Additional Description/Conditions" from "2 in parallel flow paths" to "2 parallel flow paths (1 fan abandoned in place, only one flow path is available for operations)" for the fan abatement technology.</p>
<p>Zone or Area : Abatement Technology : HEPA Required Units : 2 Add'l Description: 2 in parallel with 2 in series</p>	<p>Continuous</p>	<p>CDM: Field interviews. Comment: Changes not requiring permit revision form transmitted via 04-ED-067 dated July 28, 2004 changed "Additional Description/Conditions" from "2 in parallel with 2 in series" to "2 in parallel with 2 in series (1 fan abandoned in place, only one flow path is available for operations)" for the HEPA abatement technology.</p>
<p>Zone or Area : Abatement Technology : Prefilter Required Units : 1 Add'l Description: 2 in parallel</p>	<p>Continuous</p>	<p>CDM: Field interviews. Comment: Changes not requiring permit revision form transmitted via 04-ED-067 dated July 28, 2004 deleted "Prefilter" from "Description of Abatement technology," deleted "1" from "Required Number of Units", and deleted "2 in parallel" from "Additional Description/Conditions."</p>
<p>Required Sampling: Record Sample Sampling Frequency: 4 week sample/ year Radionuclide Requiring Measurement: TOTAL ALPHA TOTAL BETA</p>	<p>Continuous</p>	<p>CDM: ABCASH program. Comment: ABCASH EDP code number W096.</p>
<p>Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4)(i) & WAC 246-247-075(3) Permit Monitoring and Testing Procedure: Appendix B, Method 114(3)</p>	<p>Continuous</p>	<p>CDM: CH2M HILL NESHAP quality assurance program. Comment: None</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility shall ensure all emissions units are fully accessible to department inspectors. In the event the hazards associated with accessibility to a unit require training and/or restriction or requirements for entry, the facility owner or operator shall in form the department, prior to arrival, of those restrictions or requirements. The owner or operator shall be responsible for providing the necessary training, escorts, and support services to allow the department to inspect the facility. At a minimum for unannounced inspections, such requirements or restrictions must be told to inspectors to provide an opportunity for inspectors to meet those requirements prior to the inspection (WAC 246-247-080(9)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility shall make available, in timely manner, all documents requested by the department for review. The facility shall allow the department to review documents in advance of an inspection. The facility shall allow access to classified documents by representatives of the department with the appropriate security clearance and demonstrable need-to-know (WAC 246-247-080(10)).</p>	<p>Continuous</p>	<p>CDM: CH2M HILL records management and procedures. Comment: None</p>
<p>Periodic confirmatory monitoring shall be conducted by verifying the levels of smearable contamination of the inside surface of the ducting downstream of the passive breather HEPA filter or on the screen covering the outlet of the vent. This monitoring shall be conducted after one month of exhauster operation (operating hours basis), and annually thereafter. This monitoring shall be recorded and retained. Abated emissions dose equal to or less than those given below shall be confirmed: The total abated emission limit for S102 (passive ventilation mode) under this Notice of Construction is limited to 3.0 E-04 to the Maximally Exposed Individual. The total unabated emission limit on the Potential-to-Emit for S102 (passive ventilation mode) under this Notice of Construction is limited to 3.0 E-02 mrem/year to the Maximally Exposed Individual [WAC 246-247-040(5)].</p>	<p>Continuous</p>	<p>CDM: Field interviews, Annual Radiological Surveillance Task, Radiological Survey Records, and the annual "Radionuclide Air Emissions Report" for the Hanford Site. Comment: None</p>
<p>Radiological monitoring shall be performed in accordance with the latest revision of HNF-5183, Tank Farms Radiological Control Manual.</p>	<p>Continuous</p>	<p>CDM: Field interviews, work packages, and radiological control program and procedures. Comment: None</p>
<p>The tank shall be ventilated through the passive breather filter (consisting of a single HEPA filter) only when no water is being added to the tank via the spray devices. If structural safety considerations force shutdown of the active ventilation system, WDOH shall be notified prior to resumption of spray water addition. Each HEPA filter shall be individually tested, annually, to the requirements of ASME N510, and shall have a minimum efficiency of 99.95% [WAC 246-247-040(5)].</p>	<p>Continuous</p>	<p>CDM: Field interviews and CH2M HILL work planning/controls/documents, and procedures. Comment: None</p>

Requirement	Compliance Status	Compliance Determination Method
The facility shall report all measured or calculated emissions annually (WAC 246-247-080(3)).	Continuous	CDM: The annual "Radionuclide Air Emissions Report" for the Hanford Site. Comment: None
The facility shall report to the department within 24 hours, any unexpected release of radioactivity, shutdown or other condition that, if allowed to persist, or lasts more than four hours, would result in the emission of radionuclides in excess of any standards or limitations in the license. Applicable standards(WAC246-247-040) include unit specific emission limits (paragraph 5), the offsite dose standard (paragraph 1) , BARCT (paragraph 3) or ALARACT (paragraph 4), whichever is applicable, or any limitation included in this approval (paragraph 5) (WAC 246-247-080(5)).	Continuous	CDM: Field interviews, CH2M HILL notification procedure, and notification logbook. Comment: None
Prior to permanent shut down of an emission unit or completion of an activity, the permittee shall file a report of closure with the Department of Health. The report of closure shall include the date of the shutdown and indicate whether, despite cessation of operation, there is still a potential for radioactive air emissions and a need for any active or passive ventilation system with emission control and/or monitoring devices. An emission unit or activity will not be considered permanently shut down or completed until a report of closure is received and approved by Health. Once an emission unit is permanently shut down or an activity is completed, thereby rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the shutdown or completion to meet any monitoring, record keeping, and reporting requirements which are no longer applicable for that emission unit or activity. All records, relating to the shut down emission unit or completion of an activity, generated while the emission unit or activity was in operation, shall be kept in accordance with (WAC 246-247-080(8)). (WAC 246-247-080(6))	Not Applicable	CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.
The facility shall maintain readily (promptly) retrievable storage areas (on site) for all records and documents related to, and which may help establish compliance with, the requirements of this chapter. The facility shall keep these records available for department inspection for at least five years (WAC 246-247-080(8)).	Continuous	CDM: CH2M HILL records management and procedures. Comment: None

Requirement	Compliance Status	Compliance Determination Method
The facility must be able to demonstrate that it has a quality assurance program compatible with applicable national standards (WAC 246-247-075(6)).	Continuous	CDM: CH2M HILL quality assurance program, records, and procedures. Comment: None
The department retains the right to conduct stack sampling, environmental monitoring or other testing around this unit to assure compliance. If directed by the department, the facility must make provision for such testing (WAC 246-247-075(9) and (10)).	Not Applicable	CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.
The facility must be able to demonstrate that workers associated with this emission unit are trained in the use and maintenance of control and monitoring systems, and in the performance of associated tests and emergency procedures (WAC 246-247-075(12)).	Continuous	CDM: CH2M HILL training program, training records, work controls, and procedures. Comment: None
The facility must be able to demonstrate the reliability and accuracy of emissions data and other test results from this emission unit (WAC 246-247-075(13)).	Continuous	CDM: CH2M HILL quality assurance program, records, and procedures. Comment: None
The department reserves the right to inspect and audit all construction activities, equipment, operations, documents, data and other records related to compliance with the requirements of this chapter (WAC 246-247-080(1)).	Not Applicable	CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.
The department may require an ALARACT demonstration at any time (WAC 246-247-080(1)).	Not Applicable	CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.
The facility must meet all reporting and record keeping requirements of 40 CFR 61, Subpart H. (WAC 246-247-080(2)).	Continuous	CDM: CH2M HILL records management and procedures. Comment: None

Requirement	Compliance Status	Compliance Determination Method
<p>Valve pit, and connect the HIHTL from the 241-S-102 tank to the DST system (ALARACT 6, 14). Soil Excavation (Diffuse and Fugitive): - Excavate trenches for tie-in of instrumentation and power systems (ALARACT 5); - Excavate for HIHTL placement from 241-S-102 to 241-S-A Valve pit (ALARACT 5). Other Equipment Installation/Removal (Diffuse and Fugitive): - Install motor controlled spray devices in three risers near the outside perimeter of tank 241-S-102 (ALARACT 1, 13); - Install automatic spray indexing device in a central riser (ALARACT 1, 13); - Remove motor controlled and automatic spray indexing devices if necessary (ALARACT 1, 13); - Place water distribution skid and connect to the raw water header between 241-SY and 241-S tank farms. Connect water distribution skid to spray devices. - Remove standard hydrogen monitoring system vapor probe (ALARACT 4, 15, 13); - Place and hook up exhauster and exhauster system; - Remove unused flammable gas cabinet (per Tank Farm Radcon Control Manual, HNF 5183); - Place Field Instrument Electrical Skid and connect associated cabling; - Install stilling well for Enraf Liquid Indicating Transmitter (ALARACT 1, 13); - Install camera monitoring system (ALARACT 1,13); - Remove Liquid Observation Well if necessary (ALARACT 1, 13). Water Dilution and Waste Transfer: - Water shall be sprayed onto the surface of the in-tank salt cake to dissolve the cake; - The new progressive cavity pump and HIHTL shall be used to transfer waste from tank 241-S-102 to the DST (ALARACT 11); - Operation and maintenance of the portable exhauster(s). Waste Transfer (S102): - The new progressive cavity pump and HIHTL shall be used to transfer waste from tank 241-S-102 to the DST (ALARACT 11).</p>		
<p>The Annual Possession Quantity is limited to the following radionuclides (Curies/year): Am- 241 1.79E-03 Cs- 137 1.49E-05 Sr- 90 1.96E-03</p>	Continuous	<p>CDM: Field interviews, WDOH approved logs, and verified basis for APQ in NOC application. Comment: None</p>
<p>These Conditions and Limitations must be documented in an established procedure prior to starting activities granted by this approval (WAC 246-247-040(5)) and (WAC 246-247-060(5)).</p>	Continuous	<p>CDM: CH2M HILL work planning/controls/documents, and procedures. Comment: None</p>
<p>If this emission unit is not in compliance with the standards in WAC 246-247-040 during construction or operation, the department reserves the right to require modifications to bring it into compliance (WAC 246-247-060-(2)(d)).</p>	Not Applicable	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility shall notify the department seven days in advance of any planned pre-operational testing of the emission unit's control, monitoring or containment systems. The department reserves the right to observe such tests (WAC 246-247-060(4)).</p>	Not Applicable	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>process room, through a nontestable high-efficiency process filter, and into the glovebox. The air shall be exhausted from the glovebox through another nontestable high-efficiency process filter to the combined glovebox exhaust system. Process operations shall be performed inside of the gloveboxes by using the gloves and/or remote controlled manipulators. Drums shall be loaded into the glovebox through airlock and sealed-type entry systems. In the TRANSURANIC WASTE RESTRICTED WASTE MANAGEMENT LINE-- The TRU waste RWM glovebox line consists of stainless steel. Window, gloveport, ventilation, and manipulator features shall comply to those described for the TRU waste process line glovebox. Glovebox ventilation shall be the once-through type. Air shall be drawn from the process room, through a nontestable high-efficiency process filter, and into the glovebox. The air shall be exhausted from the glovebox through another nontestable high-efficiency process filter to the combined glovebox exhaust system. The treatment and repackaging operations that occur in the TRU waste RWM glovebox is limited to the following. Aerosol cans are depressurized and drained. The drained liquids are treated within the gloveboxes or retained in containers, which are sent to storage outside of the WRAP Facility. Vapors from the aerosol cans shall pass through a series of demisters for removal of entrained liquids, and shall be vented to the glovebox exhaust. Miscellaneous inorganic liquids shall be sampled for characterization, neutralized if required, and solidified using stabilizing additives. Miscellaneous organic liquids shall be sampled for characterization, treated within the gloveboxes or repackaged for transfer to storage facilities pending future treatment. Corrosive materials shall be neutralized. After neutralization, the materials shall be solidified or loaded out for storage or treatment outside the WRAP Facility. Other treatment such as mercury amalgamation, stabilization of heavy metals, and macroencapsulation are allowed to be performed. Radioactive material shall be repackaged to meet acceptance criteria of the receiving facility. Radioactive material is sampled. The empty aerosol cans and other treated LLW packages will be loaded into new drums and routed to the LLW process glovebox for compaction or loaded out of the RWM glovebox for storage, disposal, or additional treatment. In the LOW-LEVEL WASTE PROCESS LINE-- The LLW process glovebox line consists of stainless steel modular gloveboxes bolted together in a linear configuration. Glovebox ventilation shall be of the once-through type. Air shall be drawn from the process room, through a nontestable high-efficiency process filter, and into the glovebox. The air shall be exhausted from the glovebox through another nontestable high-efficiency process filter to the combined glovebox exhaust system. Drums shall enter the glovebox through an airlock entry system. Noncompliant items shall be bar code labeled and transferred to the LLW RWM glovebox using a reusable transfer system. Compliant waste shall be compacted and repackaged into new drums. The LLW process glovebox will be modified to support CH-TRU processing, and include the capability for supercompaction. A one-trip drum exit port will be installed on the LLW glovebox. An improved drum tipper will be used to enable sorting capability, and a commercial non-destructive assay system for glovebox material balance control will be installed. In the LOW-LEVEL WASTE RESTRICTED WASTE MANAGEMENT PROCESS LINE-- The operations in the LLW RWM process line is limited those as described for the operations in the TRU waste RWM line.</p>		
<p>The Annual Possession Quantity is limited to the following radionuclides (Curies/year): Alpha 0 1.00E+04 Beta 0 1.50E+05</p>	<p>Continuous</p>	<p>CDM: Verified basis for APQ's in NOC application. Comment: Process Area APQ did not exceed permit limit.</p>
<p>These conditions and limitations must be proceduralized prior to starting the activities described in the Notice of Construction.</p>	<p>Continuous</p>	<p>CDM: Radioactive air compliance matrix maintained. Comment:</p>

Requirement	Compliance Status	Compliance Determination Method
<p>This approval, with its Conditions and Limitations, constitutes an amendment to the Department's Radioactive Air Emission License, and must be included in the next revision of the Hanford Air Operating Permit (WAC 246-247-060(1)(e) and (2)).</p>	<p>Not Applicable</p>	<p>CDM: N/A. Comment: Ecology and WDOH determined the licensee need not certify compliance with conditions conveying a right, are a historical summary or fact, pertaining to actions to be completed in the future, or pertaining to actions required of the agency.</p>
<p>If this emission unit is not in compliance with the standards in WAC 245-247-040 during construction or operation, the department reserves the right to require modifications to bring it into compliance (WAC 246-247-060-(2)(d)).</p>	<p>Not Applicable</p>	<p>CDM: N/A. Comment: Ecology and WDOH determined the licensee need not certify compliance with conditions conveying a right, are a historical summary or fact, pertaining to actions to be completed in the future, or pertaining to actions required of the agency.</p>
<p>The facility shall notify the department seven days in advance of any planned pre-operational testing of the emission unit's control, monitoring or containment systems. The department reserves the right to observe such tests (WAC 246-247-060(4)).</p>	<p>Not Applicable</p>	<p>CDM: N/A. Comment: No planned pre-operational testing occurred during reporting period.</p>
<p>The department retains the right to conduct stack sampling, environmental monitoring or other testing around this unit to assure compliance. If directed by the department, the facility must make provision for such testing (WAC 246-247-075(10) and (11)).</p>	<p>Not Applicable</p>	<p>CDM: N/A. Comment: Ecology and WDOH determined the licensee need not certify compliance with conditions conveying a right, are a historical summary or fact, pertaining to actions to be completed in the future, or pertaining to actions required of the agency.</p>
<p>The facility must be able to demonstrate workers associated with this emission unit are trained in the use and maintenance of control and monitoring systems, and in the performance of associated tests and emergency procedures (WAC 246-247-075(12)).</p>	<p>Continuous</p>	<p>CDM: Training records. Comment:</p>
<p>The facility must be able to demonstrate the reliability and accuracy of emissions data and other test results from this emission unit (WAC 246-247-075(13)) and (WAC 246-247-075(6)).</p>	<p>Continuous</p>	<p>CDM: HNF-EP-0528, "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions". Comment:</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The department reserves the right to inspect and audit this emission unit during construction and operation-- including all activities, equipment, operations, documents, data, and other records related to compliance with (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A. Comment: Ecology and WDOH determined the licensee need not certify compliance with conditions conveying a right, are a historical summary or fact, pertaining to actions to be completed in the future, or pertaining to actions required of the agency.</p>
<p>The facility must be able to demonstrate that it has a quality assurance program compatible with applicable national standards such as ANSI/ASME NQA-1-1988, ANSI/ASME NQA-2-1986, QAMS-004 and QAMS-005. (WAC 246-247-075(6)).</p>	<p>Continuous</p>	<p>CDM: HNF-EP-0528, "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions". Comment:</p>
<p>The department may require an ALARACT demonstration at any time (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A. Comment: Ecology and WDOH determined the licensee need not certify compliance with conditions conveying a right, are a historical summary or fact, pertaining to actions to be completed in the future, or pertaining to actions required of the agency.</p>
<p>All reports and records must be kept and reported according to 40 CFR 61, Subpart H (WAC 246-247-080(2)).</p>	<p>Continuous</p>	<p>CDM: For calculations and input data from stack and ambient air monitors, the Environmental Release Summary (ERS) electronic system. Information from other than stacks and ambient air monitors resides at the individual facility. For annual reporting, DOE/RL-2007-01, Revision 0, "Radionuclide Air Emissions Report for the Hanford Site, Calendar Year 2006". Comment:</p>
<p>All measured or calculated emissions must be reported annually (WAC 246-247-080(3)).</p>	<p>Continuous</p>	<p>CDM: DOE/RL-2007-01, Revision 0, "Radionuclide Air Emissions Report for the Hanford Site, Calendar Year 2006". Comment:</p>

Requirement	Compliance Status	Compliance Determination Method
<p>Report to the department within 24 hours, any unexpected release of radioactivity, shutdown or other condition that, if allowed to persist (or lasts more than four hours), would result in the emission of radionuclides in excess of any standards or limitation in the license. Applicable standards (WAC 246-247-040) include unit specific emission limits (paragraph 5), the offsite dose standard (paragraph 1), BARCT (paragraph 3) or ALARACT (paragraph 4), whichever is applicable, or any limitations included in this approval (paragraph 5) (WAC 246-247-080(5)).</p>	<p>Continuous</p>	<p>CDM: AOP Semiannual Reports for CY2006. Comment:</p>
<p>When this project is complete, or operations cease, the facility must notify the department via a report of closure, including whether or not any potential for airborne releases occurred (WAC 246-247-080(5)).</p>	<p>Not Applicable</p>	<p>CDM: N/A. Comment: Ecology and WDOH determined the licensee need not certify compliance with conditions conveying a right, are a historical summary or fact, pertaining to actions to be completed in the future, or pertaining to actions required of the agency.</p>
<p>The facility shall make requested documents available in a timely manner for review (WAC 246-247-080(10)).</p>	<p>Continuous</p>	<p>CDM: Requested documents supplied in a timely manner. Comment:</p>
<p>The owner/operator must inform the Department of Health whenever the activity associated with this NOC or any of the conditions or limits contained in this approval are completed, abandoned, or otherwise made obsolete.</p>	<p>Not Applicable</p>	<p>CDM: N/A. Comment: Ecology and WDOH determined the licensee need not certify compliance with conditions conveying a right, are a historical summary or fact, pertaining to actions to be completed in the future, or pertaining to actions required of the agency.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>Prior to permanent shut down of an emission unit or completion of an activity, the permittee shall file a report of closure with the Department of Health. The report of closure shall include the date of the shutdown and indicate whether, despite cessation of operation, there is still a potential for radioactive air emissions and a need for any active or passive ventilation system with emission control and/or monitoring devices. An emission unit or activity will not be considered permanently shut down or completed until a report of closure is received and approved by Health. Once an emission unit is permanently shut down or an activity is completed, thereby rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the shutdown or completion, to meet any monitoring, record keeping, and reporting requirements which are no longer applicable for that emission unit or activity. All records, relating to the shut down emission unit or completion of an activity, generated while the emission unit or activity was in operation, shall be kept in accordance with (WAC 246-247-080(8)). (WAC 246-247-080(6)).</p>	<p>Not Applicable</p>	<p>CDM: N/A. Comment: Ecology and WDOH determined the licensee need not certify compliance with conditions conveying a right, are a historical summary or fact, pertaining to actions to be completed in the future, or pertaining to actions required of the agency.</p>

Sitewide PTRAEU at 219-S
WDOH Emission Unit ID : 447
Page in AOP : H-0272

Requirement	Compliance Status	Compliance Determination Method
<p>Zone or Area : Abatement Technology : HEPA Required Units : 1 Add'l Description: Type - 1</p>	<p>Continuous</p>	<p>CDM: Field interviews. Comment: None</p>
<p>Zone or Area : Abatement Technology : HEPA Required Units : 1 Add'l Description: Type - 2 and Type - 3</p>	<p>Continuous</p>	<p>CDM: Field interviews. Comment: None</p>
<p>Zone or Area : Abatement Technology : Charcoal Filter Required Units : 1 Add'l Description: Type - 2 and Type - 3</p>	<p>Continuous</p>	<p>CDM: Field interviews. Comment: None</p>
<p>Required Sampling: One of the following methods may be chosen for actual emissions reporting: nondestructive assay, record sampler, or continuous air monitoring, whichever is more appropriate. Sampling Frequency: Annual, unless specified by the NOC. Radionuclide Requiring Measurement: Gross Alpha/Beta</p>	<p>Continuous</p>	<p>CDM: Field interviews. Comment: None</p>

Requirement	Compliance Status	Compliance Determination Method
<p>Federal and State Regulatory Requirement: WAC 246-247-075[3] Permit Monitoring and Testing Procedure: Appendix B, Method 114 [see AIR 05-303 for clarification details]</p>	Continuous	<p>CDM: CH2M HILL NESHAP quality assurance program. Comment: None</p>
<p align="center">Permit: AIR 02-1220 Issue Date: 12-13-02 Obsolete Date: 07-05-06 NOC: Portable/Temporary Radionuclide Airborne Emissions Units (PTRAEU) WDOH NOC ID: 411 Date In AOP: 04-11-05 Page in AOP: H-0272</p>		
Requirement	Compliance Status	Compliance Determination Method
<p>The U.S. Department of Energy shall comply with all Conditions and Limitations of this license (WAC 246-247-060)(5)).</p>	Continuous	<p>CDM: Field interviews, and complied with all conditions and limitations in this NOC approval. Comment: None</p>
<p>The total abated emission limit for this Notice of Construction is limited to 1.91E-05 mrem/year to the Maximally Exposed Individual (WAC 246-247-040(5)). The total limit on the Potential-To-Emit for Notice of Construction is limited to 8.90E-02 mrem/year to the Maximally Exposed Individual (WAC 246-247-030(21)).</p>	Continuous	<p>CDM: The annual "Radionuclide Air Emissions Report" for the Hanford Site. Comment: None</p>
<p>No activities, other than those explicitly described within this approval, shall be conducted without prior written approval. The approved activities are limited to: the following PTRAEUs: Type I PTRAEUs are portable ventilation-filter units. Type II PTRAEUs are mobile sample preparation units. Type III PTRAEUs are mobile screening and analysis units. Each type of PTRAEU is described in the following paragraphs. Most of the PTRAEUs are portable ventilation-filter units (Type I) with a capacity from approximately 50 to 2,000+ cubic feet per minute exhaust flow rate. The portable ventilation filter units control radionuclide emissions by providing filtered ventilation on sites where work activities potentially could disturb areas with radioactive contamination. Type I units that are vacuums are listed to be used as ventilation units. If the vacuum is used in any other manner/process, the WDOH must approve its use under separate application before the activity commences. Mobile sample preparation units (Type II) decrease the chance of unintentional cross-contamination of samples and enhance personnel radiological safety. The sample preparation units enable technicians to remove material from core barrels, homogenize the material, and fill prescribed sample containers for onsite and offsite analysis. In enclosed, self-contained sample preparation units, radiological exposure and interference from environmental conditions (i.e., wind, precipitation, and exhaust fumes) are minimized. Mobile sample screening and analysis units (Type III) provide preliminary screening of samples to determine potential problem areas at a site. The units also screen samples to identify those samples requiring further in-depth analysis. Screening samples decreases the number of samples transported for analysis. The fast turnaround time can provide results for a field situation requiring expeditious response. The source of radionuclides handled by the mobile sample preparation facilities and mobile screening and analysis facilities is contaminated soils and/or liquids extracted from cribs, ditches, ponds, burial sites, and other such areas with surficial soil contamination. An additional source of radionuclides is preparation of radioactive standards to be used for instrument calibration.</p>	Continuous	<p>CDM: Field interviews, CH2M HILL work planning/controls/documents, and procedures. Comment: None</p>

Requirement	Compliance Status	Compliance Determination Method
This NOC does not have "Annual Possession Quantity" limits.	Not Applicable	CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.
The department reserves the right to inspect and audit all construction activities, equipment, operations, documents, data and other records related to compliance with the requirements of this chapter (WAC 246-247-080(1)).	Not Applicable	CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.
The facility shall report all measured or calculated emissions annually (WAC 246-247-080(3)).	Continuous	CDM: The annual "Radionuclide Air Emissions Report" for the Hanford Site. Comment: None
The facility must be able to demonstrate the reliability and accuracy of emissions data and other test results from this emission unit (WAC 246-247-075(13)).	Continuous	CDM: CH2M HILL quality assurance program, records, and procedures. Comment: None
These Conditions and Limitations must be documented in an established procedure prior to starting activities granted by this approval (WAC 246-247-040(5)) and (WAC 246-247-060(5)).	Continuous	CDM: Field interviews, CH2M HILL work planning/controls/documents, and procedures. Comment: None
Department of Health reserves the right to request a nondestructive analysis (NDA) after each exhaust job assignment (WAC 246-247-075(3)). The monitoring includes: emission estimates to include the methodology, all monitoring measurement results taken during the operation, copy of all logs submitted to the department on June 30th. One of the following methods may be chosen for actual emissions reporting, nondestructive assay, record sampler, or continuous air monitoring, whichever is more appropriate.	Not Applicable	CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.

Requirement	Compliance Status	Compliance Determination Method
<p>The department retains the right to conduct its own stack sampling, environmental monitoring or other testing, as required around this unit to assure compliance. If the department so decides, the facility must make provision for such testing (WAC 246-247-075(9) and (10)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The department may require an ALARACT demonstration at any time (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility shall notify the department seven days in advance of any planned pre-operational testing of the emission unit's control, monitoring or containment systems. The department reserves the right to observe such tests (WAC 246-247-060(4)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility must be able to demonstrate that the workers associated with this emission unit are adequately trained in the use and maintenance of emission control and monitoring systems, and in the performance of associated test and emergency response procedures (WAC 246-247-075(12)).</p>	<p>Continuous</p>	<p>CDM: CH2M HILL training program, training records, work controls, and procedures. Comment: None</p>
<p>If this emission unit is not in compliance with the standards in WAC 246-247-040 during construction or operation, the department reserves the right to require modifications to bring it into compliance (WAC 246-247-060-(2)(d)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility shall report to the department within 24 hours, any unexpected release of radioactivity, shutdown or other condition that, if allowed to persist, or lasts more than four hours, would result in the emission of radionuclides in excess of any standards or limitation in the license. Applicable standards (WAC 246-247-040) include unit specific emission limits (paragraph 5), the offsite dose standard (paragraph 1), BARCT (paragraph 3) or ALARACT (paragraph 4), whichever is applicable, or any limitation included in this approval (paragraph 5) (WAC 246-247-080(5)).</p>	Continuous	<p>CDM: Field interviews, CH2M HILL notification procedures, and notification logbook. Comment: None</p>
<p>The facility shall make available, in timely manner, all documents requested by the department for review. The facility shall allow the department to review documents in advance of an inspection. The facility shall allow access to classified documents by representatives of the department with the appropriate security clearance and a demonstrable need-to-know (WAC 246-247-080(10)).</p>	Continuous	<p>CDM: CH2M HILL records management and procedures. Comment: None</p>
<p>The required possession quantity is RHL's calculated for a daily use because many of the activities are of short duration. In calculating the RHL's 0.1 mrem per year criteria will be used as a beginning point and the source term, which can be handled each day, is back calculate.</p>	Not Applicable	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility shall ensure all emissions units are fully accessible to department inspectors. In the event the hazards associated with accessibility to a unit require training and/or restriction or requirements for entry, the facility owner or operator shall inform the department, prior to arrival, of those restrictions or requirements. The owner or operator shall be responsible for providing the necessary training, escorts, and support services to allow the department to inspect the facility. At a minimum for unannounced inspections, such requirements or restrictions must be told to inspectors to provide an opportunity for inspectors to meet those requirements prior to the inspection (WAC 246-247-080(9)).</p>	Not Applicable	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility must meet all reporting and record keeping requirements of 40 CFR 61, Subpart H (WAC 246-247-080(2)).</p>	Continuous	<p>CDM: CH2M HILL records management and procedures. Comment: None</p>
<p>The facility shall maintain readily (promptly) retrievable storage areas (on site) for all records and documents related to, and which may help establish compliance with, the requirements of this chapter. The facility shall keep these records available for department inspection for at least five years (WAC 246-247-080(8)).</p>	Continuous	<p>CDM: CH2M HILL records management and procedures. Comment: None</p>

Requirement	Compliance Status	Compliance Determination Method
Ductwork, seams, and potential release locations on the portable exhausters are to be monitored on a routine basis for potential radionuclide releases and noted on the log sheets (e.g., post survey results negative). These routine checks should be kept as retrievable records.	Continuous	CDM: Field interviews, operating rounds, work control/planning/documents and procedures. Comment: None
The facility must be able to demonstrate that it has a quality assurance program compatible with applicable national standards (WAC 246-247-075(6)).	Continuous	CDM: CH2M HILL quality assurance program, records, and procedures. Comment: None
Prior to permanent shut down of an emission unit or completion of an activity, the permittee shall file a report of closure with the Department of Health. The report of closure shall include the date of the shutdown and indicate whether, despite cessation of operation, there is still a potential for radioactive air emissions and a need for any active or passive ventilation system with emission control and/or monitoring devices. An emission unit or activity will not be considered permanently shut down or completed until a report of closure is received and approved by Health. Once an emission unit is permanently shut down or an activity is completed, thereby rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the shutdown or completion, to meet any monitoring, record keeping, and reporting, requirements which are no longer applicable for that emission unit or activity. All records, relating to the shut down emission unit or completion of an activity, generated while the emission unit or activity was in operation, shall be kept in accordance with (WAC 246-247-080(8)).	Not Applicable	CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.

Sitewide PTRAEU at PFP
WDOH Emission Unit ID : 447
Page in AOP : H-0272

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : HEPA Required Units : 1 Add'l Description: Type-1	Continuous	CDM: Field interview. Comment:
Zone or Area : Abatement Technology : HEPA Required Units : 1 Add'l Description: Type-2 and Type-3	Not Applicable	CDM: N/A Comment: Type-1 used only.
Zone or Area : Abatement Technology : Charcoal filter Required Units : 1 Add'l Description: Type-2 and Type-3	Not Applicable	CDM: N/A Comment: Type-1 used only.

Requirement	Compliance Status	Compliance Determination Method
<p>Required Sampling: One of the following methods may be chosen for actual emissions reporting: nondestructive assay, record sampler, or continuous air monitoring, whichever is more appropriate. Sampling Frequency: Annual, unless specified by the NOC. Radionuclide Requiring Measurement: TOTAL ALPHA/BETA</p>	Continuous	<p>CDM: Smear surveys. Comment: Smear surveys were taken before and after use of the PTRAEU.</p>
<p>Federal and State Regulatory Requirement: WAC 246-247-075[3] Permit Monitoring and Testing Procedure: Appendix B, Method 114 [see AIR 05-303 for clarification details]</p>	Continuous	<p>CDM: Calculated emissions provided on logsheets. Comment: Work was performed per work package 2Z-05-00761.</p>
<p align="center">Permit: AIR 02-1220 Issue Date: 12-13-02 Obsolete Date: 07-05-06 NOC: Portable/Temporary Radionuclide Airborne Emissions Units (PTRAEU) WDOH NOC ID: 411 Date In AOP: 04-11-05 Page in AOP: H-0272</p>		
Requirement	Compliance Status	Compliance Determination Method
<p>The U.S. Department of Energy shall comply with all Conditions and Limitations of this license (WAC 246-247-060)(5)).</p>	Continuous	<p>CDM: Complied with all conditions in this NOC approval. Comment:</p>
<p>The total abated emission limit for this Notice of Construction is limited to 1.91E-05 mrem/year to the Maximally Exposed Individual (WAC 246-247-040(5)). The total limit on the Potential-To-Emit for Notice of Construction is limited to 8.90E-02 mrem/year to the Maximally Exposed Individual (WAC 246-247-030(21)).</p>	Continuous	<p>CDM: DOE/RL-2007-01 Radionuclide Air Emissions Report for the Hanford Site, Calendar Year 2006. Comment:</p>
<p>No activities, other than those explicitly described within this approval, shall be conducted without prior written approval. The approved activities are limited to: the following PTRAEUs: Type I PTRAEUs are portable ventilation-filter units. Type II PTRAEUs are mobile sample preparation units. Type III PTRAEUs are mobile screening and analysis units. Each type of PTRAEU is described in the following paragraphs. Most of the PTRAEUs are portable ventilation-filter units (Type I) with a capacity from approximately 50 to 2,000+ cubic feet per minute exhaust flow rate. The portable ventilation filter units control radionuclide emissions by providing filtered ventilation on sites where work activities potentially could disturb areas with radioactive contamination. Type I units that are vacuums are listed to be used as ventilation units. If the vacuum is used in any other manner/process, the WDOH must approve its use under separate application before the activity commences. Mobile sample preparation units (Type II) decrease the chance of unintentional cross-contamination of samples and enhance personnel radiological safety. The sample preparation units enable technicians to remove material from core barrels, homogenize the material, and fill prescribed sample containers for onsite and offsite analysis. In enclosed, self-contained sample preparation units, radiological exposure and interference from environmental conditions (i.e., wind, precipitation, and exhaust fumes) are minimized. Mobile sample screening and analysis units (Type III) provide preliminary screening of samples to determine potential problem areas at a site. The units also screen samples to identify those samples requiring further in-depth analysis. Screening samples decreases the number of samples transported for analysis. The fast turnaround time can</p>	Continuous	<p>CDM: Work was performed per work package 2Z-05-00761 Comment:</p>

Requirement	Compliance Status	Compliance Determination Method
<p>provide results for a field situation requiring expeditious response. The source of radionuclides handled by the mobile sample preparation facilities and mobile screening and analysis facilities is contaminated soils and/or liquids extracted from cribs, ditches, ponds, burial sites, and other such areas with surficial soil contamination. An additional source of radionuclides is preparation of radioactive standards to be used for instrument calibration.</p>		
<p>This NOC does not have "Annual Possession Quantity" limits.</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment:</p>
<p>The department reserves the right to inspect and audit all construction activities, equipment, operations, documents, data and other records related to compliance with the requirements of this chapter (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility shall report all measured or calculated emissions annually (WAC 246-247-080(3)).</p>	<p>Continuous</p>	<p>CDM: DOE/RL-2007-01 Radionuclide Air Emissions Report for the Hanford Site, Calendar Year 2006. Comment:</p>
<p>The facility must be able to demonstrate the reliability and accuracy of emissions data and other test results from this emission unit (WAC 246-247-075(13)).</p>	<p>Continuous</p>	<p>CDM: Smear surveys are taken prior to and after use. Survey results and emissions calculations are provided on the logsheets. Comment:</p>
<p>These Conditions and Limitations must be documented in an established procedure prior to starting activities granted by this approval (WAC 246-247-040(5)) and (WAC 246-247-060(5)).</p>	<p>Continuous</p>	<p>CDM: Work planning process and work package 2Z-05-00761 Comment:</p>
<p>Department of Health reserves the right to request an nondestructive analysis (NDA) after each exhaust job assignment (WAC 246-247-075(3)). The monitoring includes: emission estimates to include the methodology, all monitoring measurement results taken during the operation, copy of all logs submitted to the department on June 30th. One of the following methods may be chosen for actual emissions reporting, nondestructive assay, record sampler, or continuous air monitoring, whichever is more appropriate.</p>	<p>Continuous</p>	<p>CDM: Log sheets submitted in DOE/RL-2007-17. Comment:</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The department retains the right to conduct its own stack sampling, environmental monitoring or other testing, as required around this unit to assure compliance. If the department so decides, the facility must make provision for such testing (WAC 246-247-075(9) and (10)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The department may require an ALARACT demonstration at any time (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility shall notify the department seven days in advance of any planned pre-operational testing of the emission unit's control, monitoring or containment systems. The department reserves the right to observe such tests (WAC 246-247-060(4)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility must be able to demonstrate that the workers associated with this emission unit are adequately trained in the use and maintenance of emission control and monitoring systems, and in the performance of associated test and emergency response procedures (WAC 246-247-075(12)).</p>	<p>Continuous</p>	<p>CDM: Facility training records. Comment:</p>
<p>If this emission unit is not in compliance with the standards in WAC 246-247-040 during construction or operation, the department reserves the right to require modifications to bring it into compliance (WAC 246-247-060-(2)(d)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility shall report to the department within 24 hours, any unexpected release of radioactivity, shutdown or other condition that, if allowed to persist, or lasts more than four hours, would result in the emission of radionuclides in excess of any standards or limitation in the license. Applicable standards (WAC 246-247-040) include unit specific emission limits (paragraph 5), the offsite dose standard (paragraph 1), BARCT (paragraph 3) or ALARACT (paragraph 4), whichever is applicable, or any limitation included in this approval (paragraph 5) (WAC 246-247-080(5)).</p>	<p>Continuous</p>	<p>CDM: Occurrence notification logbook. Comment:</p>
<p>The facility shall make available, in timely manner, all documents requested by the department for review. The facility shall allow the department to review documents in advance of an inspection. The facility shall allow access to classified documents by representatives of the department with the appropriate security clearance and a demonstrable need-to-know (WAC 246-247-080(10)).</p>	<p>Continuous</p>	<p>CDM: Documents are available on request. Comment: No PTRAEU records were requested during the compliance period.</p>
<p>The required possession quantity is RHL's calculated for a daily use because many of the activities are of short duration. In calculating the RHL's 0.1 mrem per year criteria will be used as a beginning point and the source term, which can be handled each day, is back calculate.</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility shall ensure all emissions units are fully accessible to department inspectors. In the event the hazards associated with accessibility to a unit require training and/or restriction or requirements for entry, the facility owner or operator shall inform the department, prior to arrival, of those restrictions or requirements. The owner or operator shall be responsible for providing the necessary training, escorts, and support services to allow the department to inspect the facility. At a minimum for unannounced inspections, such requirements or restrictions must be told to inspectors to provide an opportunity for inspectors to meet those requirements prior to the inspection (WAC 246-247-080(9)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility must meet all reporting and record keeping requirements of 40 CFR 61, Subpart H (WAC 246-247-080(2)).</p>	<p>Continuous</p>	<p>CDM: Reporting satisfied DOE/RL-2007-01 and DOE/RL-2007-17. Facility specific records procedures. Comment:</p>

Requirement	Compliance Status	Compliance Determination Method
The facility shall maintain readily (promptly) retrievable storage areas (on site) for all records and documents related to, and which may help establish compliance with, the requirements of this chapter. The facility shall keep these records available for department inspection for at least five years (WAC 246-247-080(8)).	Continuous	CDM: Records are maintained per HNF-RD-15332 Comment:
Ductwork, seams, and potential release locations on the portable exhausters are to be monitored on a routine basis for potential radionuclide releases and noted on the log sheets (e.g., post survey results negative). These routine checks should be kept as retrievable records.	Continuous	CDM: logsheet and work package 2Z-05-00761. Comment:
The facility must be able to demonstrate that it has a quality assurance program compatible with applicable national standards (WAC 246-247-075(6)).	Continuous	CDM: PFP quality assurance program, records, and procedures. Comment:
Prior to permanent shut down of an emission unit or completion of an activity, the permittee shall file a report of closure with the Department of Health. The report of closure shall include the date of the shutdown and indicate whether, despite cessation of operation, there is still a potential for radioactive air emissions and a need for any active or passive ventilation system with emission control and/or monitoring devices. An emission unit or activity will not be considered permanently shut down or completed until a report of closure is received and approved by Health. Once an emission unit is permanently shut down or an activity is completed, thereby rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the shutdown or completion, to meet any monitoring, record keeping, and reporting, requirements which are no longer applicable for that emission unit or activity. All records, relating to the shut down emission unit or completion of an activity, generated while the emission unit or activity was in operation, shall be kept in accordance with (WAC 246-247-080(8)).	Not Applicable	CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.

P-Trench34 001
WDOH Emission Unit ID : 473
Page in AOP : H-0262

Requirement	Compliance Status	Compliance Determination Method
No active Abatement Controls in the AOP for this certification period.		
Required Sampling: Smear sample of overflow pipe	Continuous	CDM: Survey reports. Comment:

Requirement	Compliance Status	Compliance Determination Method
Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4)(i) & WAC 246-247-075(3)	Continuous	CDM: Survey reports. Comment:
<p align="center"> Permit: AIR 02-1219 Issue Date: 12-13-02 Obsolete Date: 07-05-06 NOC: Trench 31 and 34: Leachate Collection and Storage Tank (LLBG Mixed Waste Disposal) WDOH NOC ID: 377 Date in AOP: 04-11-05 Page in AOP: H-0262 </p>		
Requirement	Compliance Status	Compliance Determination Method
The U.S. Department of Energy shall comply with all Conditions and Limitations of this license (WAC 246-247-060(5)).	Continuous	CDM: For this approval order, compliance with all approval conditions. Comment:
The total abated emission limit for this Notice of Construction is limited to 3.03E-03 mrem/year to the Maximally Exposed Individual (WAC 246-247-040(5)). The total limit on the Potential-To-Emit for this Notice of Construction is limited to 6.06E-03 mrem/year to the Maximally Exposed Individual (WAC 246-247-030(21)).	Continuous	CDM: Annual compliance evaluation. Comment:
No activities, other than those explicitly described within this approval, shall be conducted without prior written approval. The approved activities are limited to: Trenches 31 and 34 shall be used for the disposal of low-level waste, low-level mixed waste, and radioactive waste containing Toxic Substances Control Act regulated polychlorinated biphenyls resulting from current operations across the Hanford Site, cleanup activities across the Hanford Site and from other offsite facilities. Each trench shall provide disposal capacity for approximately 22,000 m ³ (28,000 yd ³) of waste. Waste to be disposed of in the trenches can consist of contaminated soil and debris (bulk waste), sealed containers, vented containers, and any other type of waste meeting Low Level Burial Grounds (LLBG) waste acceptance criteria. The leachate collection systems for Trenches 31 and 34 share a common design. That design encompasses primary and secondary leachate collection systems. The primary and secondary leachate collection systems are comprised of alternating layers of soils, geomembrane liners, collection pipes, collection sumps, sump pumps, and a single collection tank for each trench. Liquid accumulates under the disposed material in the bottom of each trench in the primary liner of each trench (not exposed directly to atmosphere). When approximately one foot of precipitation of liquid is accumulated in the collection sumps, the pumps are activated to transfer the liquid to the tanks. The leachate collection tanks at Trench 31 and 34 are both above ground. Each tank has a capacity of approximately 10,000 gallons. Both tanks are cylindrical and approximately 8 feet (2.5 meters) in diameter and 24 feet (7.2 meters) long. Both tanks are passively vented via a liquid overflow pipe. For disposal, the liquid will be transferred from the tanks to a tanker truck. Based on past operational experience, it is anticipated that up to approximately 415,000 gallons, per tank, per year could be transferred to the tanker trucks. More than one truck may be used at the same time. The tanker truck(s) shall be fitted with a three-quarter inch vent that will be opened during filling and emptying operations.	Continuous	CDM: Comment: This text provides an overview of the mixed waste trench operation, there is nothing to certify compliance with.
The Annual Possession Quantity is limited to the following radionuclides (Curies/year): Am 241 2.75E-01 C 14 3.50E+00 Co 60 2.78E+00 Cs 137 7.90E+00 Eu 152 1.63E+01 Eu 154 3.66E+00 Eu 155 3.17E-01 Na 22 9.50E-02 Pu 238 5.10E-02 Ra 226 9.40E-01 Sr 90 4.70E+00 Tc 99 8.80E-03 Th 230 1.94E-02 Th 232 3.06E-02 The potential release rates described in this Condition were used to determine control technologies and monitoring requirements for this approval. DOE must notify the Department of a "modification" to the emission unit, as defined in WAC 246-247-030(16).	Continuous	CDM: Annual compliance evaluation Comment:

Requirement	Compliance Status	Compliance Determination Method
<p>DOE must notify the Department of any changes to a NESHAP major emission unit when a specific isotope is newly identified as contributing greater than 10% of the potential TEDE to the MEI, or greater than 25% of the TEDE to the MEI after controls. (WAC 246-247-110(9)) DOE must notify the Department of any changes to potential release rates as required by state or federal regulations including changes that would constitute a significant modification to the Air Operating Permit under WAC 173-401-725(4). Notice will be provided according to the particular regulation under which notification is required. If the applicable regulation(s) does not address manner and type of notification, DOE will provide the Department with advance written notice by letter or electronic mail but not solely by copies of documents.</p>		
<p>Upon commencement of placing non-containerized radioactively contaminated waste in Trench 31 and/or Trench 34, a periodic confirmatory measurement (PCM) activity shall be implemented. This PCM activity shall consist of smearing the orifice(s) of the liquid overflow pipe(s) before and after emptying the tank(s). During those months when the tank(s) is/are not emptied, a smear shall be taken monthly. After the accumulation of one year's worth of smear data.</p>	Continuous	<p>CDM: Survey reports. Comment:</p>
<p>These Conditions and Limitations must be documented in an established procedure prior to starting activities granted by this approval (WAC 246-247-040(5)) and (WAC 246-247-060(5)).</p>	Continuous	<p>CDM: WMP-342, Section 4.9. Comment:</p>
<p>If this emission unit is not in compliance with the standards in WAC 246-247-040 during construction or operation, the department reserves the right to require modifications to bring it into compliance (WAC 246-247-060-(2)(d)).</p>	Not Applicable	<p>CDM: N/A Comment: Ecology and WDOH determined the licensee need not certify compliance with conditions conveying a right, are a historical summary or fact, pertaining to actions to be completed in the future, or pertaining to actions required of the agency.</p>
<p>The facility shall notify the department seven days in advance of any planned pre-operational testing of the emission unit's control, monitoring or containment systems. The department reserves the right to observe such tests (WAC 246-247-060(4)).</p>	Not Applicable	<p>CDM: N/A Comment: No planned pre-operational testing occurred during the reporting period.</p>
<p>The facility must be able to demonstrate that it has a quality assurance program compatible with applicable national standards (WAC 246-247-075(6)).</p>	Continuous	<p>CDM: HNF-EP-0528-7 "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions". Comment:</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The department retains the right to conduct its own stack sampling, environmental monitoring or other testing, as required around this unit to assure compliance. If the department so decides, the facility must make provision for such testing (WAC 246-247-075(9) and (10)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH determined the licensee need not certify compliance with conditions conveying a right, are a historical summary or fact, pertaining to actions to be completed in the future, or pertaining to actions required of the agency.</p>
<p>The facility must be able to demonstrate that the workers associated with this emission unit are adequately trained in the use and maintenance of emission control and monitoring systems, and in the performance of associated test and emergency response procedures (WAC 246-247-075(12)).</p>	<p>Continuous</p>	<p>CDM: Training records. Comment:</p>
<p>The facility must be able to demonstrate the reliability and accuracy of emission data and other test results from this emission unit (WAC 246-247-075(13)).</p>	<p>Continuous</p>	<p>CDM: HNF-EP-0528-7 "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions". Comment:</p>
<p>The department reserves the right to inspect and audit all construction activities, equipment, operations, documents, data and other records related to compliance with the requirements of this chapter (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH determined the licensee need not certify compliance with conditions conveying a right, are a historical summary or fact, pertaining to actions to be completed in the future, or pertaining to actions required of the agency.</p>
<p>The department may require in ALARACT demonstration at any time (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH determined the licensee need not certify compliance with conditions conveying a right, are a historical summary or fact, pertaining to actions to be completed in the future, or pertaining to actions required of the agency.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility must meet all reporting and record keeping requirements of 40 CFR 61, Subpart H (WAC 246-247-080(2)).</p>	<p>Continuous</p>	<p>CDM: For calculations and input data from stack and ambient air monitors, the ERS electronic system. Information from other than stacks and ambient air monitors resides at the individual facility. For annual reporting DOE/RL-2007-01 Radionuclide Air Emissions Report for the Hanford Site Calendar Year 2006 satisfies the requirement. Comment:</p>
<p>The facility shall report all measured or calculated emissions annually (WAC 246-247-080(3)).</p>	<p>Continuous</p>	<p>CDM: DOE/RL-2007-01 "Radionuclide Air Emissions Report for the Hanford Site Calendar Year 2006". Comment:</p>
<p>The facility shall report to the department within 24 hours, any unexpected release of radioactivity, shutdown or other condition that, if allowed to persist, or lasts more than four hours, would result in the emission of radionuclides in excess of any standards or limitation in the license. Applicable standards (WAC 246-247-040) include unit specific emission limits (paragraph 5), the offsite dose standard (paragraph 1), BARCT (paragraph 3) or ALARACT (paragraph 4), whichever is applicable, or any limitation included in this approval (paragraph 5) (WAC 246-247-080(5)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: No reports were required.</p>
<p>Prior to permanent shut down of an emission unit or completion of an activity, the permittee shall file a report of closure with the Department of Health. The report of closure shall include the date of the shutdown and indicate whether, despite cessation of operation, there is still a potential for radioactive air emissions and a need for any active or passive ventilation system with emission control and/or monitoring devices. An emission unit or activity will not be considered permanently shut down or completed until a report of closure is received and approved by Health. Once an emission unit is permanently shut down or an activity is completed, thereby rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the shutdown or completion, to meet any monitoring, record keeping, and reporting, requirements which are no longer applicable for that emission unit or activity. All records, relating to the shut down emission unit or completion of an activity, generated while the emission unit or activity was in operation, shall be kept in accordance with (WAC 246-247-080(8)) (WAC 246-247-080(6)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH determined the licensee need not certify compliance with conditions conveying a right, are a historical summary or fact, pertaining to actions to be completed in the future, or pertaining to actions required of the agency.</p>

Requirement	Compliance Status	Compliance Determination Method
The facility shall maintain readily (promptly) retrievable storage areas (on site) for all records and documents related to, and which may help establish compliance with, the requirements of this chapter. The facility shall keep these records available for department inspection for at least five years (WAC 246-247-080(8)).	Continuous	CDM: WDOH has requested information and records during past inspections and records promptly were made available. Records are maintained per HNF-RD-210. Comment:
The facility shall ensure all emissions units are fully accessible to department inspectors. In the event the hazards associated with accessibility to a unit require training and/or restriction or requirements for entry, the facility owner or operator shall inform the department, prior to arrival, of those restrictions or requirements. The owner or operator shall be responsible for providing the necessary training, escorts, and support services to allow the department to inspect the facility. At a minimum for unannounced inspections, such requirements or restrictions must be told to inspectors to provide an opportunity for inspectors to meet those requirements prior to the inspection (WAC 246-247-080(9)).	Not Applicable	CDM: N/A Comment: No WDOH inspections occurred during the reporting period.
The facility shall make available, in timely manner, all documents requested by the department for review. The facility shall allow the department to review documents in advance of an inspection. The facility shall allow access to classified documents by representatives of the department with the appropriate security clearance and a demonstrable need-to-know (WAC 246-247-080(10)).	Not Applicable	CDM: N/A Comment: No documents requested.

S-296S021-001
WDOH Emission Unit ID : 254
Page in AOP : H-0027

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Backup Exhaust Abatement Technology : Fan Required Units : 1 Add'l Description: Operates independently or in parallel with primary exhaust	Continuous	CDM: Field interviews and as-built drawings. Comment: H-2-46710, H-2-46514, H-2-81072, and H-2-830965.
Zone or Area : Primary Exhaust Abatement Technology : Fan Required Units : 3 Add'l Description: In parallel, serves both hot cell addition & main lab.	Continuous	CDM: Field interviews and as-built drawings. Comment: H-2-46710, H-2-46514, H-2-81072, and H-2-830965.
Zone or Area : 222S Lab Complex Abatement Technology : HEPA Required Units : 1 Add'l Description: For both primary and backup exhaust systems	Continuous	CDM: Field interviews and as-built drawings. Comment: H-2-46710, H-2-46514, H-2-81072, and H-2-830965.

Requirement	Compliance Status	Compliance Determination Method
<p>Zone or Area : 222-S Lab Hot Cells Abatement Technology : HEPA Required Units : 3 Add'l Description: In series for both the primary and backup exhaust system</p>	<p>Continuous</p>	<p>CDM: Field interviews and as-built drawings. Comment: H-2-46710, H-2-46514, H-2-81072, and H-2-830965.</p>
<p>Required Sampling: Record Sample Sampling Frequency: (4) 1 week samples/ year Radionuclide Requiring Measurement: TOTAL ALPHA TOTAL BETA</p>	<p>Continuous</p>	<p>CDM: ABCASH program and occurrence reporting/notification. Comment: ABCASH EDP code number S289. The emission unit was operated as a major stack during the reporting period for this condition. On 11/17/05 WDOH issued a Notice of Violation and Compliance Order (AIR 05-1103) for incorrect designation of 296-S-21 as a "minor" emission unit based on a miscalculation of the emission unit's potential-to-emit. The Office of River Protection (ORP) submitted letter 06-ESQ-119, dated 8/24/2006 to WDOH concluding that no modifications are required to either the 296-S-21 stack or its monitoring or sampling system to achieve compliance with WAC-246-247-075. The WDOH responded via a 2/1/2007 email, stating that Compliance Orders 1 and 2 were complete and the QA document was approved to complete actions required under Compliance Order 3.</p>
<p>Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4)(i) & WAC 246-247-075(3) Permit Monitoring and Testing Procedure: Appendix B, Method 114(3) [see AIR 05-303 for clarification details]</p>	<p>Continuous</p>	<p>CDM: CH2M HILL NESHAP quality assurance program and occurrence reporting/notification. Comment: The emission unit was operated as a major stack during the reporting period for this condition. On 11/17/05 WDOH issued a Notice of Violation and Compliance Order (AIR 05-1103) for incorrect designation of 296-S-21 as a "minor" emission unit based on a miscalculation of the emission unit's potential-to-emit. The ORP submitted letter 06-ESQ-119, dated 8/24/2006 to WDOH concluding that no modifications are required to</p>

Requirement	Compliance Status	Compliance Determination Method
		either the 296-S-21 stack or its monitoring or sampling system to achieve compliance with WAC-246-247-075. The WDOH responded via a 2/1/2007 email, stating that Compliance Orders 1 and 2 were complete and the QA document was approved to complete actions required under Compliance Order 3.
Permit: AIR 02-1211 Issue Date: 12-13-02 Obsolete Date: 07-05-06 NOC: 222-S Lab Hot Cell Expansion WDOH NOC ID: 10 Date In AOP: 04-11-05 Page in AOP: H-0027		
Requirement	Compliance Status	Compliance Determination Method
The U.S. Department of Energy shall comply with all Conditions and Limitations of this license (WAC 246-247-060)(5)).	Continuous	CDM: Field interviews and complied with all conditions in this NOC approval. Comment: None
The total abated emission limit for this Notice of Construction is limited to 6.60E-03 mrem/year to the Maximally Exposed Individual (WAC 246-247-040(5)). The total limit on the Potential-To-Emit for Notice of Construction is limited to 6.00E-02 mrem/year to the Maximally Exposed Individual (WAC 246-247-030(21)).	Continuous	CDM: The annual "Radionuclide Air Emissions Report" for the Hanford Site. Comment: None
No activities, other than those explicitly described within this approval, shall be conducted without prior written approval. The approved activities are limited to: the Environmental Hot Cell Expansion to provide a new addition to the 222-S Laboratory. This expansion will provide a seven compartment hot cell to support the increased demand for analytical services. Emissions from the hot cell will be exhausted through the existing stack at the 222-S Facility (registered stack number 296-S-21). Approximately 1200 cubic feet per minute will be emitted from the hot cell. Prior to being emitted to the atmosphere, the hot cell exhaust shall pass through two sets of existing High-Efficiency Particulate Air (HEPA) Filters (double HEPAs at both the 222-SC and 222-SB Facilities), in addition to one of the three new single-stage HEPA filters adjoining the hot cell. HEPA Filters are tested in place to ensure that they remove at least 99.5 percent of particles ranging in size from 0.1 micron to 3.0 microns, with a mean particle size of 0.5 micron. The hot cell will examine both solid and liquid samples; approximately 43 samples/month will be solids, and approximately 12 samples/month will be liquid. Each solid sample will weigh up to 625 g, with a maximum specific gravity of 5.0. Each liquid sample will be approximately 125 ml. It was assumed that the specific gravity would be 2.0. Each of the samples (both liquid and solid) will have a maximum radionuclide concentration of 2000 uCi/g Sr-90 and 1000 uCi/g Cs-137. Based on these assumptions, the annual solid inventory for the hot cell is 645 Ci Sr-90 and 322.5 Ci Cs-137, and the annual liquid inventory is 72 Ci Sr-90 and 36 Ci Cs-137.	Continuous	CDM: Field interviews, logs, and verified basis for APQ in NOC application. Comment: 222-S Hot Cell Expansion installation completed in 1994. Continuous operation of Hot Cells during current reporting period.

Requirement	Compliance Status	Compliance Determination Method
The Annual Possession Quantity is limited to the following radionuclides (Curies/year): Cs 137 3.59E+02 Sr 90 7.17E+02	Continuous	CDM: Field interviews, logs, and verified basis for APQ in NOC application. Comment:
The source term shall not exceed 7.84E-02 curies of Sr-90 and 3.92E-02 curies of Cs-137. If the project exceeds this projected source term, additional notification will be required.	Continuous	CDM: ABCASH Program and occurrence reporting/notification. Comment: ABCASH EDP code number S289.
Exhaust air shall pass through existing HEPAs in the 222-SC and 222-SB facilities prior to discharge to the atmosphere.	Continuous	CDM: CH2M HILL work planning/controls/documents, and procedures. Comment: Three possible flow path combinations can be used: 222-SC and 222-SB, and/or 222-SC and 222-SE.
These Conditions and Limitations must be documented in an established procedure prior to starting activities granted by this approval (WAC 246-247-040(5)) and (WAC 246-247-060(5)).	Continuous	CDM: CH2M HILL work planning/controls/documents, and procedures. Comment:
If this emission unit is not in compliance with the standards in WAC 246-247-040 during construction or operation, the department reserves the right to require modifications to bring it into compliance (WAC 246-247-060-(2)(d)).	Not Applicable	CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.
The facility shall notify the department seven days in advance of any planned pre-operational testing of the emission unit's control, monitoring or containment systems. The department reserves the right to observe such tests (WAC 246-247-060(4)).	Not Applicable	CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.
The facility must be able to demonstrate that it has a quality assurance program compatible with applicable national standards (WAC 246-247-075(6)).	Continuous	CDM: CH2M HILL quality assurance program, records, and procedures. Comment: None

Requirement	Compliance Status	Compliance Determination Method
<p>The department retains the right to conduct its own stack sampling, environmental monitoring or other testing, as required around this unit to assure compliance. If directed by the department, the facility must make provision for such testing (WAC 246-247-075(9) and (10)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility must be able to demonstrate that the workers associated with this emission unit are trained in the use and maintenance of emission control and monitoring systems, and in the performance of associated test and emergency procedures (WAC 246-247-075(12)).</p>	<p>Continuous</p>	<p>CDM: CH2M HILL training program, training records, work controls, and procedures. Comment: None</p>
<p>The facility must be able to demonstrate the reliability and accuracy of emissions data and other test results from this emission unit (WAC 246-247-075(13)).</p>	<p>Continuous</p>	<p>CDM: CH2M HILL quality assurance program, records, and procedures. Comment: None</p>
<p>The department reserves the right to inspect and audit all construction activities, equipment, operations, documents, data and other records related to compliance with the requirements of this chapter (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The department may require in ALARACT demonstration at any time (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility must meet all reporting and record keeping requirements of 40 CFR 61, Subpart H (WAC 246-247-080(2)).</p>	<p>Continuous</p>	<p>CDM: CH2M HILL records management and procedures. Comment: None</p>
<p>The facility shall report all measured or calculated emissions annually (WAC 246-247-080(3)).</p>	<p>Continuous</p>	<p>CDM: The annual "Radionuclide Air Emissions Report" for the Hanford Site. Comment: None</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility shall report to the department within 24 hours, any unexpected release of radioactivity, shutdown or other condition that, if allowed to persist, or lasts more than four hours, would result in the emission of radionuclides in excess of any standards or limitation in the license. Applicable standards (WAC 246-247-040) include unit specific emission limits (paragraph 5), the offsite dose standard (paragraph 1), BARCT (paragraph 3) or ALARACT (paragraph 4), whichever is applicable, or any limitation included in this approval (paragraph 5) (WAC 246-247-080(5)).</p>	<p>Continuous</p>	<p>CDM: Field interviews, CH2M HILL notification procedure and notification logbook. Comment: None</p>
<p>Prior to permanent shut down of an emission unit or completion of an activity, the permittee shall file a report of closure with the Department of Health. The report of closure shall include the date of the shutdown and indicate whether, despite cessation of operation, there is still a potential for radioactive air emissions and a need for any active or passive ventilation system with emission control and/or monitoring devices. An emission unit or activity will not be considered permanently shut down or completed until a report of closure is received and approved by Health. Once an emission unit is permanently shut down or an activity is completed, thereby rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the shutdown or completion, to meet any monitoring, record keeping, and reporting, requirements which are no longer applicable for that emission unit or activity. All records, relating to the shut down emission unit or completion of an activity, generated while the emission unit or activity was in operation, shall be kept in accordance with (WAC 246-247-080(8)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility shall maintain readily (promptly) retrievable storage areas (on site) for all records and documents related to, and which may help establish compliance with, the requirements of this chapter. The facility shall keep these records available for department inspection for at least five years (WAC 246-247-080(8)).</p>	<p>Continuous</p>	<p>CDM: CH2M HILL records management and procedures. Comment: None</p>
<p>The facility shall ensure all emissions units are fully accessible to department inspectors. In the event the hazards associated with accessibility to a unit require training and/or restriction or requirements for entry, the facility owner or operator shall inform the department, prior to arrival, of those restrictions or requirements. The owner or operator shall be responsible for providing the necessary training, escorts, and support services to allow the department to inspect the facility. At a minimum for unannounced inspections, such requirements or restrictions must be told to inspectors to provide an opportunity for inspectors to meet those requirements prior to the inspection (WAC 246-247-080(9)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>

Requirement	Compliance Status	Compliance Determination Method
The facility shall make available, in timely manner, all documents requested by the department for review. The facility shall allow the department to review documents in advance of an inspection. The facility shall allow access to classified documents by representatives of the department with the appropriate security clearance and a demonstrable need-to-know (WAC 246-247-080(10)).	Continuous	CDM: CH2M HILL records management and procedures. Comment: None

S-296S023-001
WDOH Emission Unit ID : 438
Page in AOP : 2-124

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Fan Required Units : 1 Add'l Description:	Continuous	CDM: Field interviews. Comment: None
Zone or Area : Abatement Technology : HEPA Required Units : 2 Add'l Description: In series	Continuous	CDM: Field interviews. Comment: None
Zone or Area : Abatement Technology : Prefilter Required Units : 1 Add'l Description:	Continuous	CDM: Field interviews. Comment: None
Required Sampling: NDA Sampling Frequency: 1 every 2 years Radionuclide Requiring Measurement: TOTAL ALPHA TOTAL BETA	Continuous	CDM: Nondestructive assay (NDA)and field interviews. Comment: Last NDA performed May 17, 2005.
Federal and State Regulatory Requirement: 40 CFR 61.93[b][4][i] WAC 246-247-075[3] Permit Monitoring and Testing Procedure: Appendix B, Method 114(3)	Continuous	CDM: CH2M HILL NESHAP quality assurance program. Comment: None
No active NOC approvals in the AOP for this certification period.		

S-296S025 001
WDOH Emission Unit ID : 59
Page in AOP : 2-139

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Fan Required Units : 1 Add'l Description: Emission unit operates intermittently	Continuous	CDM: Field interviews, CH2M HILL notification procedure and notification logbook. Comment: Exhauster shut down once during the reporting period; reported per the CH2M HILL notification procedure. Occurrence Report Number EM-RP-CHG-TANKFARM-2006-0025.
Zone or Area : Abatement Technology : HEPA Required Units : 2 Add'l Description: In series	Continuous	CDM: Field interviews. Comment: None
Zone or Area : Abatement Technology : Prefilter Required Units : 1 Add'l Description:	Continuous	CDM: Field interviews. Comment: None
Zone or Area : Abatement Technology : Heater Required Units : 1 Add'l Description: Heater runs intermittently due to temperature Regulation	Continuous	CDM: Field interviews. Comment: None
Zone or Area : Abatement Technology : De-entrainer Required Units : 1 Add'l Description:	Continuous	CDM: Field interviews. Comment: None
Required Sampling: Record Sample Sampling Frequency: 4 week sample/year Radionuclide Requiring Measurement: TOTAL ALPHA TOTAL BETA	Continuous	CDM: ABCASH program, field interviews, CH2M HILL notification procedure, and notification logbook. Comment: ABCASH EDP code number W145. Record sampler flow could not be maintained once and the record sampler vacuum pump failed once; reported per the CH2M HILL notification procedure.
Federal and State Regulatory Requirement: 40 CFR 61.93[b][4][i] WAC 246-247-075[3] Permit Monitoring and Testing Procedure: Appendix B, Method 114(3)	Continuous	CDM: CH2M HILL NESHAP quality assurance program. Comment: None
No active NOC approvals in the AOP for this certification period.		

300 Area Emissions
WDOH Emission Unit ID : 443
Page in AOP : H-0458

Requirement	Compliance Status	Compliance Determination Method
<p>Zone or Area : Abatement Technology : Required Units : Add'l Description: Abatement controls as required in the following Conditions and Limitations.</p>	Continuous	<p>CDM: See response to WDOH conditions below for each Notice of Construction. Comment: None.</p>
<p>Required Sampling: Existing near-facility monitoring stations. Sampling Frequency: As listed in the following Conditions and Limitations. Radionuclide Requiring Measurement: All radionuclides which could contribute 10% of the potential EDE.</p>	Continuous	<p>CDM: Verified required monitoring by review of near facility monitoring data. Comment: None.</p>
<p>Federal and State Regulatory Requirement: WAC 246-247-075(3) Permit Monitoring and Testing Procedure: Appendix B, Method 114</p>	Continuous	<p>CDM: WAC 246-247-075(3) is addressed in the response to other WDOH approval conditions below. Appendix B Method 114: The "NESHAP Quality Assurance Project Plan for Radioactive Air Emissions" (HNF-EP-0528) and "Quality Assurance Project Plan" (ETD-011). Comment: None.</p>

Requirement	Compliance Status	Compliance Determination Method
<p align="center">Permit: AIR 03-106 Issue Date:01-10-03 Obsolete Date: 09-28-06 NOC: 324 Building Cleanout and Deactivation Activities WDOH NOC ID: 502 Date In AOP: 04-11-05 Page in AOP: H-0458</p>		
Requirement	Compliance Status	Compliance Determination Method
<p>The U.S. Department of Energy shall comply with all Conditions and Limitations of this license (WAC 246-247-060)(5)).</p>	<p align="center">Continuous</p>	<p>CDM: For this approval order, in compliance with all approval conditions. Comment: This condition became obsolete on September 28, 2006.</p>
<p>The total abated emission limit for this Notice of Construction is limited to 4.20E-01 mrem/year to the Maximally Exposed Individual (WAC 246-247-040(5)). The total limit on the Potential-To-Emit for this Notice of Construction is limited to 8.20E+02 mrem/year to the Maximally Exposed Individual (WAC 246-247-030(21)).</p>	<p align="center">Continuous</p>	<p>CDM: Abated emissions are reported in DOE/RL-2007-01, Rev. 0, "Radionuclide Air Emissions Report for the Hanford Site, Calendar Year 2006." The Potential-To-Emit (PTE) identified in the Notice of Construction (NOC) application has not increased, and has effectively decreased as deactivation activities remove material from the facility, as confirmed through inquiry with the cognizant engineer. Comment: The abated emission limit and PTE listed in the WDOH condition is based on the EP-324-01-S stack. The annual report is scheduled for submittal by June 30, 2007. This condition became obsolete on September 28, 2006.</p>
<p>No activities, other than those explicitly described within this approval, shall be conducted without prior written approval. The approved activities are limited to: activities that will result in placing the entire building in a stabilized and secure configuration for long- term surveillance and maintenance and/or decommissioning and demolition. Stabilization involves solid waste removal and activities using various decontamination methods on radiologically contaminated areas within the 324 Building. The 324 Building areas that will undergo deactivation include the following: - REC activities - A-Cell -B-Cell -C-Cell -D-Cell -Airlock. - B-Cell sample room - High-level vault (HLV) and tanks - Low-level vault (LLV) and tanks - REC pipe trenches - Cask handling area (CHA) - Truck lock and loadout station - Laboratories/rooms and associated piping/utilities - Shielded Materials Facility (SMF) - East cell - South cell - Airlock cell - Engineering Development Laboratory (EDL) Room 101 - EDL-102 - EDL-145 - EDL-146 - EDL-147 - High Bay Engineering Laboratory (HBEL) - Tank pit (in basement) - Wastewater diverter tank. Large items (equipment and waste materials) will be size-reduced and packaged for transport to compliant storage/disposal facilities as appropriate. The remaining loose material will be collected and packaged for storage/disposal. Various decontamination methods will be employed to reduce/remove contamination. As the decontamination work is completed, the associated ventilation ductwork will</p>	<p align="center">Continuous</p>	<p>CDM: Facility activities/operations were in compliance with facility NOC implementing procedure HNF-3444, "324/327 Environmental Effluent Specifications" through April 2006, and then "WCH-HNF-3444, "324/327 Environmental Effluent Specifications" for the remainder of the reporting period; as confirmed through inquiry with the cognizant engineer. Comment: This description of activities applies to the entire NOC, not just to the</p>

Requirement	Compliance Status	Compliance Determination Method
<p>be remediated (decontamination, isolation, or removal). Once decontamination has been achieved to acceptable levels for the areas served by the high-efficiency particulate air (HEPA) filters and similar particulate emission control devices, those control devices will be removed and/or isolated. The ventilation system for the 324 Building stack (EP-324-01-S) will operate at a reduced flow, shutting down in stages over an extended period, culminating in eventual closure of the stack. The chemical and physical processes associated with decontamination of the 324 Building and associated ancillary facilities will consist of the following: - Large equipment will be size-reduced, as needed, using processes such as mechanical shearing, cutting torches, laser cutters, and/or physical sawing activities. - Size-reduced items and loose material will be collected and packaged to meet acceptance criteria for transfer to other suitable storage and disposal facilities. - Cleaning/collection processes might include various methods or combinations of mechanical cleaning methods, e.g., blast nozzle cleaning; ultra high-pressure water scarification; media blast cleaning (with either vacuum recovered recycled or one shot media, where blast air, media, and radiologically contaminated material are vacuum recovered to prevent dispersion); scabbling (aggressive surface removal of metal and concrete); grinding; and vacuuming. - Liquid decontamination could be employed to reduce contamination levels. This process would consist of spraying radiologically contaminated surfaces with pressurized liquids and collecting the resultant solutions. - Processing of decontamination solutions will be accomplished predominantly by evaporation (using evaporators and dryers, packaging the solids, adding stabilizers as needed to form a solid mass), with direct release of the water vapor to the R-EC ventilation system. The release of water vapor will be controlled to protect the HEPA filter media by maintaining relative humidity and temperature conditions such that the system will not experience moisture collection on the filters. Relative humidity and temperature conditions will be controlled by heating the air passing through the REC, by limiting the boil off rate, by controlling wattage applied to the evaporator heater unit(s), and/or by distributing the moisture to a larger airflow. Similar methods could be employed for the SMF. - Spent decontamination solutions that are not evaporated will be staged in suitably designed tanks, if staging is needed. Treated liquids (filters, ion exchange, etc.) might be staged in suitably designed and located tanks and transferred to other facilities on the Hanford Site by tanker truck through the loadout stall (LOS). Smaller volumes might be containerized (e.g., packaged in absorbents in drums or placed in drums or carboys). If tanker trucks are used, displaced air from the tanker trucks would be routed back to the LOS. - After deactivation efforts have been completed for a particular area of the 324 Building, ventilation ductwork for that area will be decontaminated, removed, and/or isolated. After sufficient decontamination has been achieved upstream of the associated HEPA filter or emissions/abatement control devices, the control devices will be removed or isolated. - Containment and portable exhausters will be used as needed for personnel protection in local ventilated spaces for shutting down the existing ventilation system and for ventilating radiologically contaminated areas (piping, ancillary buildings, etc.) outside of areas that are served by the ventilation system for the 324 Building stack (EP-324-01-S). Annual maintenance inspections of the 324 Building wastewater diverter tank and final disposition of rainwater infiltration (such as by using a tanker truck or pumping into drums) may be performed without use of containment or portable exhausters.</p>		<p>diffuse/fugitive emissions. This condition became obsolete on September 28, 2006.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The Annual Possession Quantity is limited to the following radionuclides (Curies/year): Alpha-0 3.60 E-01 B/G-0 1.13 E+02</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: The building ventilation system has been operational for activities conducted during the reporting period. No associated activities have been conducted and actual and potential diffuse and fugitive emissions are not expected to be measurable as stated in the NOC application, DOE/RL-2000-05, Rev. 1, Section 13.0, and were therefore not included in the NOC application inventory estimates (APQ). Per other approval condition below, diffuse and fugitive emissions are monitored using the 300 Area near facility ambient air monitors. Diffuse and fugitive emissions from individual facilities are not measurable. The near facility ambient air data is reported annually. This condition became obsolete on September 28, 2006.</p>
<p>If this emission unit is not in compliance with the standards in WAC 246-247-040 during construction or operation, the department reserves the right to require modifications to bring it into compliance (WAC 246-247-060-(2)(d)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that the licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency. This condition became obsolete on September 28, 2006.</p>
<p>The facility shall notify the department seven days in advance of any planned pre-operational testing of the emission unit's control, monitoring or containment systems. The department reserves the right to observe such tests (WAC 246-247-060(4)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: There were no preoperational tests during the compliance period. Facility operations were normal during the compliance period. This condition became obsolete on September 28, 2006.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The department retains the right to conduct stack sampling, environmental monitoring or other testing around this unit to assure compliance. If directed by the department, the facility must make provision for such testing (WAC 246-247-075(9) and (10)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that the licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency. This condition became obsolete on September 28, 2006.</p>
<p>The facility must be able to demonstrate that the workers associated with this emission unit are trained in the use and maintenance of control and monitoring systems, and in the performance of associated tests and emergency response procedures (WAC 246-247-075(12)).</p>	<p>Continuous</p>	<p>CDM: Training records and inquiry with the cognizant engineer Comment: The near-facility monitoring network is managed by Fluor Hanford Monitoring and Pacific Northwest National Laboratory. This condition became obsolete on September 28, 2006.</p>
<p>The facility must be able to demonstrate the reliability and accuracy of emissions data and other test results from this emission unit (WAC 246-247-075(13)).</p>	<p>Continuous</p>	<p>CDM: HNF-EP-0528, "NESHAP Quality Assurance Project Plan for Radionuclide Air Emissions," DTS-OEM-PLN-003, "Near-Facility Environmental Monitoring Quality Assurance Project Plan" and ETD-011, "Quality Assurance Project Plan." Comment: This condition became obsolete on September 28, 2006.</p>
<p>The department reserves the right to inspect and audit all construction activities, equipment, operations, documents, data and other records related to compliance with the requirements of this chapter (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that the licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency. This condition became obsolete on September 28, 2006.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility must be able to demonstrate that it has a quality assurance program compatible with applicable national standards (WAC 246-247-075(6)).</p>	<p>Continuous</p>	<p>CDM: ENV-1-1.15, "Quality Assurance Project Plan for Radionuclide Air Emission Monitoring," HNF-EP-0528, "NESHAP Quality Assurance Project Plan for Radionuclide Air Emissions," DTS-OEM-PLN-003, "Near-Facility Environmental Monitoring Quality Assurance Project Plan", and ETD-011, "Quality Assurance Project Plan." Comment: This condition became obsolete on September 28, 2006.</p>
<p>The department may require in ALARACT demonstration at any time (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that the licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency. This condition became obsolete on September 28, 2006.</p>
<p>The facility must meet all reporting and record keeping requirements of 40 CFR 61, Subpart H (WAC 246-247-080(2)).</p>	<p>Continuous</p>	<p>CDM: The Environmental Release Summary electronic system maintains record data from stack and ambient air monitors. Annual reporting is provided in DOE/RL-2007-01, Rev. 0, "Radionuclide Air Emissions Report for the Hanford Site, Calendar Year 2006." Comment: Per other approval condition below, diffuse and fugitive emissions are monitored using the 300 Area near facility ambient air monitors. The near facility ambient air data is reported in the annual report. This report is scheduled for submittal by June 30, 2007. This condition became obsolete on September 28, 2006.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility shall report all measured or calculated emissions annually (WAC 246-247-080(3)).</p>	<p>Continuous</p>	<p>CDM: Input to DOE/RL-2007-01, Rev. 0, "Radionuclide Air Emissions Report for the Hanford Site, Calendar Year 2006." Comment: Per other approval condition below, diffuse and fugitive emissions are monitored using the 300 Area near facility ambient air monitors. The near facility ambient air data is reported in the annual report. This report is scheduled for submittal by June 30, 2007. This condition became obsolete on September 28, 2006.</p>
<p>The facility shall report to the department within 24 hours, any unexpected release of radioactivity, shutdown or other condition that, if allowed to persist, or lasts more than four hours, would result in the emission of radionuclides in excess of any standards or limitation in the license. Applicable standards (WAC 246-247-040) include unit specific emission limits (paragraph 5), the offsite dose standard (paragraph 1), BARCT (paragraph 3) or ALARACT (paragraph 4), whichever is applicable, or any limitation included in this approval (paragraph 5) (WAC 246-247-080(5)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: No reports were required. This condition became obsolete on September 28, 2006.</p>
<p>The facility shall make available, in timely manner, all documents requested by the department for review. The facility shall allow the department to review documents in advance of an inspection. The facility shall allow access to classified documents by representatives of the department with the appropriate security clearance and a demonstrable need-to-know (WAC 246-247-080(10)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: No records on fugitive and diffuse emissions were requested for review during this reporting period. This condition became obsolete on September 28, 2006.</p>
<p>The facility shall ensure all emissions units are fully accessible to department inspectors. In the event the hazards associated with accessibility to a unit require training and/or restriction or requirements for entry, the facility owner or operator shall inform the department, prior to arrival, of those restrictions or requirements. The owner or operator shall be responsible for providing the necessary training, escorts, and support services to allow the department to inspect the facility. At a minimum for unannounced inspections, such requirements or restrictions must be told to inspectors to provide an opportunity for inspectors to meet those requirements prior to the inspection (WAC 246-247-080(9)).</p>	<p>Continuous</p>	<p>CDM: Access was provided to the 324 facility as required for inspections. Comment: This condition became obsolete on September 28, 2006.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility shall maintain readily (promptly) retrievable storage areas (on site) for all records and documents related to, and which may help establish compliance with, the requirements of this chapter. The facility shall keep these records available for department inspection for at least five years (WAC 246-247-080(8)).</p>	<p>Continuous</p>	<p>CDM: Recordkeeping was maintained in compliance with HNF-3444, "324/327 Facilities Environmental Effluent Specifications" through April 2006, and then WCH-HNF-3444, "324/327 Facilities Environmental Effluent Specifications" through the remainder of the reporting period. No records were requested relating to diffuse and fugitive emissions. Comment: This condition became obsolete on September 28, 2006.</p>
<p>Prior to permanent shut down of an emission unit or completion of an activity, the permittee shall file a report of closure with the Department of Health. The report of closure shall include the date of the shutdown and indicate whether, despite cessation of operation, there is still a potential for radioactive air emissions and a need for any active or passive ventilation system with emission control and/or monitoring devices. An emission unit or activity will not be considered permanently shut down or completed until a report of closure is received and approved by Health. Once an emission unit is permanently shut down or an activity is completed, thereby rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the shutdown or completion, to meet any monitoring, record keeping, and reporting, requirements which are no longer applicable for that emission unit or activity. All records, relating to the shut down emission unit or completion of an activity, generated while the emission unit or activity was in operation, shall be kept in accordance with (WAC 246-247-080(8)). (WAC 246-247-080(6)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that the licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency. This condition became obsolete on September 28, 2006.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>Diffuse/Fugitive emissions shall be monitored using the 300 Area near-field ambient air monitors. Sample collection and analysis shall follow that of the near field monitoring program. Analytical results shall be reported in the Annual Air Emissions Report. Any change to this near-field ambient monitoring program must be approved by the department.</p>	<p>Continuous</p>	<p>CDM: Verified required monitoring by review of near facility monitoring data. Analytical results are reported in DOE/RL-2007-01, Rev. 0, "Radionuclide Air Emissions Report for the Hanford Site, Calendar Year 2006." Sampling collection, analysis, reporting, and changes for the 300 near facility monitoring are managed by FH and Pacific Northwest National Laboratory. Comment: The annual report is scheduled for submittal by June 30, 2007. This condition became obsolete on September 28, 2006.</p>
<p>For areas being deactivated outside of areas served by the EP-324-01-S ventilation system, containment and portable exhausters shall be used as needed for protection of human health or the environment, consistent with Department requirements.</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: This activity was not performed during the compliance period, as confirmed through inquiry with the cognizant engineer. This condition became obsolete on September 28, 2006.</p>
<p>When a Portable/Temporary Radioactive Air Emission Unit (PTRAEU) is used during 324 Deactivation activities, the conditions, controls, monitoring requirements and limitation of the PTRAEU NOC, latest approved version, shall be required.</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: This activity was not performed during the compliance period, as confirmed through inquiry with the cognizant engineer. This condition became obsolete on September 28, 2006.</p>
<p>When a HEPA Filtered Vacuum Radioactive Air Emission Unit (HEPA VAC) is used during tie-in activities (e.g., utilities r piping), the condition, controls, monitoring requirements and limitations of the HEPAC NOC, latest approved version, shall be required.</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: This activity was not performed during the compliance period, as confirmed through inquiry with the cognizant engineer. This condition became obsolete on September 28, 2006.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>These Conditions and Limitations must be documented in an established procedure prior to starting activities granted by this approval (WAC 246-247-040(5)) and (WAC 246-247-060(5)).</p>	<p>Continuous</p>	<p>CDM: The Conditions and Limitations are documented in implementing procedure HNF-3444, "324/327 Facilities Environmental Effluent Specifications" through April 2006, and then WCH-HNF-3444, "324/327 Facilities Environmental Effluent Specifications," for the remainder of the certification period. Comment: This condition became obsolete on September 28, 2006.</p>
<p>Total emissions for the 300 Area Diffuse/Fugitive for this activity shall not exceed 1.0E-08 mrem/year unabated and abated.</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: The building ventilation system has been operational for activities conducted during the reporting period. No associated excavation activities have been conducted and actual and potential diffuse and fugitive emissions are not expected to be measurable as stated in the NOC, DOE/RL-2000-05, Rev. 1, Section 13.0, and were therefore not included in the NOC inventory estimates or the NOC abated or unabated dose estimates. Per other approval condition above, diffuse and fugitive emissions are monitored using the 300 Area near facility ambient air monitors. Diffuse and fugitive emissions from individual facilities are not measurable. The near facility ambient air data is reported annually. This condition became obsolete on September 28, 2006.</p>

Requirement	Compliance Status	Compliance Determination Method
<p align="center">Permit: AIR 03-107 Issue Date:01-10-03 Obsolete Date: 09-28-06 NOC: Deactivation of the 327 Building WDOH NOC ID: 505 Date In AOP: 04-11-05 Page in AOP: H-0482</p>		
Requirement	Compliance Status	Compliance Determination Method
<p>The U.S. Department of Energy shall comply with all Conditions and Limitations of this license (WAC 246-247-060(5)).</p>	<p align="center">Continuous</p>	<p>CDM: For this approval order, in compliance with all approval conditions. Comment: This condition became obsolete on September 28, 2006.</p>
<p>The total abated emission limit for this Notice of Construction is limited to 1.20E-01 mrem/year to the Maximally Exposed Individual (WAC 246-247-040(5)). The total limit on the Potential-To-Emit for this Notice of Construction is limited to 2.50E+02 mrem/year to the Maximally Exposed Individual (WAC 246-247-030(21)).</p>	<p align="center">Continuous</p>	<p>CDM: Abated emissions are reported in DOE/RL-2007-01, Rev. 0, "Radionuclide Air Emissions Report for the Hanford Site, Calendar Year 2006." The PTE identified in the NOC application has not increased, and has effectively decreased as deactivation activities remove material from the facility, as confirmed through inquiry with the cognizant engineer. Comment: The abated emission limit and PTE listed in the WDOH Condition is the sum of the values for EP 327-01-S, and excavation activities (i.e., diffuse/fugitive emissions). No excavation activities were conducted during the reporting period. The annual report is scheduled for submittal by June 30, 2007. This condition became obsolete on September 28, 2006.</p>
<p>No activities, other than those explicitly described within this approval, shall be conducted without prior written approval. The approved activities are limited to: The deactivation of the 327 Building. General Deactivation Activities The general chemical and physical processes associated with deactivation of the 327 Building and associated ancillary facilities shall consist of the following: Large equipment shall be removed and/or size-reduced, as needed, using processes such as mechanical shearing, cutting torches, laser cutters, and/or physical sawing activities. Size-reduced items and loose material shall be collected and packaged to meet waste acceptance criteria for transfer to suitable storage and disposal facilities. Cleaning/collection processes are limited to the following various methods or combinations of mechanical cleaning methods, e.g., blast nozzle cleaning, ultra high-pressure water scarification, media blast cleaning (with either vacuum recovered recycled or one shot media, where blast air, media, and radiologically contaminated material are vacuum recovered to prevent dispersion); scabbling (aggressive surface removal of metal and concrete); grinding, and vacuuming. Liquid decontamination can be employed to</p>	<p align="center">Continuous</p>	<p>CDM: Facility activities/operations were in compliance with the facility NOC implementing procedure HNF-3444, "324/327 Environmental Effluent Specifications" through April 2006, and then WCH- HNF-3444, "324/327 Facilities Environmental Effluent Specifications" for the remainder of the certification period, as confirmed through inquiry with the cognizant</p>

Requirement	Compliance Status	Compliance Determination Method
<p>reduce contamination levels. This process shall consist of spraying radiologically contaminated surfaces with pressurized liquids and collecting the resultant solutions. In the final stages of deactivation, after removal of materials in storage in the 327 Building basin, the basin water shall be removed. Appropriate basin surface decontamination/ stabilization shall be conducted. Spent decontamination solutions and basin water shall be staged in suitably designed tanks, if staging is needed. Treated liquids (filters, ion exchange, basin water, etc.) can be staged in suitably designed and located tanks and transferred to other facilities on the Hanford Site by tanker truck. Smaller volumes might be containerized (e.g., packaged in absorbents in drums or placed in drums or carboys). If tanker trucks are used, displaced air from the tanker trucks shall be routed back to the Zone I or Zone II exhaust systems. After deactivation efforts have been completed for a particular area of the 327 Building, ventilation ductwork for that area shall be decontaminated, removed, and/or isolated. After sufficient decontamination has been achieved upstream of the associated HEPA filter or control devices, the control devices shall be removed or isolated. Containment and portable exhausters shall be used as needed for personnel protection in local ventilated spaces for shutting down the existing ventilation system and for ventilating radiologically contaminated areas (piping, ancillary buildings, etc.) outside of areas that are served by the existing 327 Building ventilation system. Annual maintenance inspections of the 327 Building shall be performed without use of containment or portable exhausters. Science and Technology Activities The 327 Building has been proposed as the host for several hot demonstrations and deployments involving remote characterization, dry decontamination, and handling and size reduction beginning in fiscal year 2002 as part of this effort. The following provides examples of potential areas for science and technology development: One project involves the demonstration and deployment of remote (in-cell) characterization and dry decontamination. This task shall support several onsite needs including monolithic disposal of the large, cast iron hot cells as non-transuranic (TRU) waste. Another project will involve the remote-handled TRU (RH-TRU) removal and size reduction of a highly contaminated ion exchange column that presently is stored in a water basin in the 327 Building and decontamination of the pool cell. Opportunities exist to expand this effort to include demonstration of removal of contaminated subsystems, such as the pool cell, heating, ventilation, and air conditioning ducting, and the nitrogen recirculation system. The primary baseline approach for deactivation of the 327 Building hot cells is decontamination using various physical and mechanical means, with some liquid decontamination employed where determined to be appropriate. Based on ALARA, cost, schedule, and regulatory perspectives, it can be advantageous to avoid liquid decontamination (and resultant waste handling) and remove the cells from the building for disposal, with minimal or no decontamination. Hence, the proposed physical/chemical processes include cell removal. The contaminated ion exchange column shall be removed and size reduced as part of deactivation. The ion exchange column is located under water in the large storage basin, which is 3.0 m (10 ft) wide by 4.6 m (15 ft) long by 5.2 m (17 ft) deep. The column contains an unknown ion exchange media that, based on recent surveys and estimates, contains ~120 curies of cesium. The 327 Building hot cells duct work and HEPA filters have inventories that are variable depending on what type of development work was performed in the associated hot cell. Large sources of semi-mobile material cannot be left in the building following closure or transition. Hence, the proposed physical/chemical processes shall include removal/disposition of some HVAC system radiological contamination. The specific need is for the decontamination of highly contaminated (wet) storage basins in the 327 Building. The aforementioned large basin and a small basin (1.8 m (6 ft) by 2.4 m (8 ft) by 3.1 m (10 ft)) are connected by a 0.5 m (1.6 ft) wide by 3.1 m (10 ft) deep canal. The small water basin interfaces with hot cell number "A" to provide the capability for transfer of irradiated material from water storage to hot cell "A." The basins are coated concrete. The storage basins are contaminated with cesium, strontium, uranium, and transuranic components. There is a concentration of contaminants in a 'bathtub ring' located near the surface of the water. In addition to the 'bathtub ring', radioactive contamination has penetrated to varying depths into the concrete wall and floor surfaces. Current decontamination technology consists of physical</p>		<p>engineer. Comment: This description of activities applies to the entire NOC, not just to the diffuse/fugitive emissions. This condition became obsolete on September 28, 2006.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>removal of the concrete surface (i.e., scabbling, sand blasting, etc.). None of these have been demonstrated underwater. Some contaminated concrete surfaces also have been painted and/or coated with a fixative. Project requirements might include removal of such coatings before decontamination of the concrete. The Special Environment Radiometallurgy Facility (SERF) nitrogen recirculation system is located in the 327 Building. This system was used in the past to filter and cool the nitrogen atmosphere that was maintained in the SERF cell. The SERF cell was used for cutting and examination of irradiated fuel. Inventory and dose data are not complete, but gram quantities of plutonium are present. This system is approximately 2.4 in (8 ft) by 2.4 in (8 ft) by 4.6 m (15 ft) and consists of stainless steel ductwork of various sizes (mainly 6 and 8 inch diameter), two in-line fans, two filtration enclosures, two cooling coils, and two externally mounted compressor/condenser units. The proposed methods of deactivation, removal, and disposal of the SERF cell nitrogen recirculation system shall include those activities as previously described in the process description section titled "General Deactivation Activities".</p> <p>Excavation: Excavation shall take place in the vicinity of the 327 Building to support site stabilization and removing/isolating/blanking utilities. Access to underground piping and cable can be gained by use of an excavator. Manual digging methods with shovels, picks, and rakes also could be used. Up to approximately 5 m³ (160 ft³) of soil could be disturbed per activity. Contaminated soil removed during excavation activities shall be covered until replaced into the hole or otherwise dispositioned. If needed or chosen for use during these activities, the sitewide guzzler, a portable temporary radioactive air emissions unit (PTRAEU) exhauster, or HEPA filtered vacuum radioactive air emission unit shall be used in accordance with the latest revisions of the NOCs ["Categorical Notice of Construction for use of the Guzzler Vacuum Excavation System for Radiologically Limited Activities on the Hanford Site" (approved by WDOH on December 18, 1998) or guzzler NOC, DOE/RL-96-75 and DOE/RL-97-50 respectively]. Excavation activities shall be monitored and evaluated as described below: Many of the emission controls used during the excavation activities will be administrative, based on ALARA principles and consist of ALARA techniques. It is proposed that these controls be approved as low as reasonably achievable control technology (A-LARACT) for excavation in the vicinity of the 327 Building.</p> <p>1. Health physics technician (HPT) coverage will be provided during all demolition and excavation activities. 2. Appropriate controls such as water, fixatives, covers, containment tents, or windscreens shall be applied, if needed, as determined by the Health Physics organization. Contaminated soil removed during excavation activities shall be covered until replaced into the hole or otherwise dispositioned. 3. After leveling, the soil surface radiological contamination levels shall be verified less than 5,000 disintegrations per minute (dpm)/100 square centimeters (cm²) beta/gamma and less than 100 dpm/100 cm² alpha. If contamination is present above these levels, soil shall be removed and containerized for disposal or covered or fixed to provide containment of the contamination. 4. If a guzzler, PTRAEU, or HEPA filtered vacuum radioactive air emission unit is used, controls as described in the guzzler NOC, DOE/RL-96-75 or DOE/RL-97-50 shall be followed. 5. If field surveys during excavation identify localized areas of contamination greater than the gross levels described below (i.e., 500,000 dpm/100 cm² beta/gamma and 3,000 dpm/100 cm² alpha), additional surveys shall be conducted on the perimeter of the 'hot spot' to verify the localized nature, ensuring that the overall assumed contamination level is not exceeded. Although no radiological contamination is anticipated, for conservatism it is assumed that the soil surface of a 10 meter perimeter surrounding the 327 Building footprint is contaminated (equating to approximately 2,400 square meters [2.4 x 10⁷ square centimeters]) and that the gross contamination level for beta/gamma (as strontium-90) is limited to 500,000 dpm (per square centimeter). * (2.4 x 10⁷ cm² of soil) x (500,000 dpm/cm²) = 1.2 x 10¹³ dpm * For cesium-137: 1.9 x 10¹⁴ dpm per gram and 86.5 curies per gram * For strontium-90: 3.1 x 10¹⁴ dpm per gram and 139 curies per gram * At a 2:1 ratio of cesium-137 to strontium-90, 1.2 x 10¹³ dpm: (0.67) [(1.2 x 10¹³)/1.9 x 10¹⁴] 87 = 3.7 curies of cesium-137 (0.33) [(1.2 x 10¹³)/3.1 x 10¹⁴] 139 = 1.8 curies of strontium-90. It is recognized that because of historical activities in the 300 Area, isotopes of uranium might be encountered during excavation and decontamination</p>		

Requirement	Compliance Status	Compliance Determination Method
<p>activities. For conservatism, it is assumed that the 10 meter perimeter surrounding the 327 Building footprint is contaminated, and that the gross contamination level is the limit identified on the previous page for alpha [as uranium-234 (consistent with calculations bases in the guzzler NOC)] of 3,000 dpm. * $(2.4 \times 10^7 \text{ cm}^2 \text{ of soil}) \times (3,000 \text{ dpm/cm}^2) = 7.2 \times 10^{10} \text{ dpm}$ * For uranium-234: $1.4 \times 10^{10} \text{ dpm per gram}$ and $6.3 \times 10^{-3} \text{ curies per gram}$ * $7.2 \times 10^{10} \text{ dpm}$ represents 5.1 grams of uranium-234 = $3.2 \times 10^{-2} \text{ curies}$ of uranium-234. The sitewide guzzler could be used when evidence of low levels of soil contamination is provided. Backfill shall be made with the original material removed or brought in 'clean' soil.</p>		
<p>The Annual Possession Quantity is limited to the following radionuclides (Curies/year): Cs-137 4.00 E-01 Sr-90 1.90E-01 U-234 3.20 E-02</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: The APQs in the NOC application are related to excavation. No excavation activities were conducted during the reporting period as confirmed through inquiry with the cognizant engineer. This condition became obsolete on September 28, 2006.</p>
<p>These Conditions and Limitations must be documented in an established procedure prior to starting activities granted by this approval (WAC 246-247-040(5)) and (WAC 246-247-060(5)).</p>	<p>Continuous</p>	<p>CDM: The Conditions and Limitations are documented in implementing procedure HNF-3444, "324/327 Facilities Environmental Effluent Specifications" through April 2006, and then WCH- HNF-3444, "324/327 Facilities Environmental Effluent Specifications" for the remainder of the certification period. Comment: This condition became obsolete on September 28, 2006.</p>
<p>The facility shall notify the department seven days in advance of any planned pre-operational testing of the emission unit's control, monitoring or containment systems. The department reserves the right to observe such tests (WAC 246-247-060(4)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: There were no preoperational tests during the compliance period. Facility operations were normal during the compliance period. This condition became obsolete on September 28, 2006.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility must be able to demonstrate the reliability and accuracy of emissions data and other test results from this emission unit (WAC 246-247-075(13)).</p>	<p>Continuous</p>	<p>CDM: HNF-EP-0528, "NESHAP Quality Assurance Project Plan for Radionuclide Air Emissions," DTS-OEM-PLN-003, "Near-Facility Environmental Monitoring Quality Assurance Project Plan", and ETD-011, "Quality Assurance Project Plan." Comment: This condition became obsolete on September 28, 2006.</p>
<p>The facility shall report all measured or calculated emissions annually (WAC 246-247-080(3)).</p>	<p>Continuous</p>	<p>CDM: Input to DOE/RL-2007-01, Rev. 0, "Radionuclide Air Emissions Report for the Hanford Site, Calendar Year 2006." Comment: Per other approval condition below, diffuse and fugitive emissions are monitored using the 300 Area near facility ambient air monitors. The near facility ambient air data is reported in the annual report. This report is scheduled for submittal by June 30, 2007. This condition became obsolete on September 28, 2006.</p>
<p>The facility shall ensure all emissions units are fully accessible to department inspectors. In the event the hazards associated with accessibility to a unit require training and/or restriction or requirements for entry, the facility owner or operator shall inform the department, prior to arrival, of those restrictions or requirements. The owner or operator shall be responsible for providing the necessary training, escorts, and support services to allow the department to inspect the facility. At a minimum for unannounced inspections, such requirements or restrictions must be told to inspectors to provide an opportunity for inspectors to meet those requirements prior to the inspection (WAC 246-247-080(9)).</p>	<p>Continuous</p>	<p>CDM: Access was provided as required for inspections of the 327 facility. Comment: This condition became obsolete on September 28, 2006.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility must be able to demonstrate that it has a quality assurance program compatible with applicable national standards (WAC 246-247-075(6)).</p>	<p>Continuous</p>	<p>CDM: ENV1-1.15, "Quality Assurance Project Plan for Radionuclide Air Emissions Monitoring," HNF-EP-0528, "NESHAP Quality Assurance Project Plan for Radionuclide Air Emissions," DTS-OEM-PLN-003, "Near-Facility Environmental Monitoring Quality Assurance Project Plan", and ETD-011, "Quality Assurance Project Plan." Comment: This condition became obsolete on September 28, 2006.</p>
<p>The department reserves the right to inspect and audit all construction activities, equipment, operations, documents, data and other records related to compliance with the requirements of this chapter (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that the licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency. This condition became obsolete on September 28, 2006.</p>
<p>If this emission unit is not in compliance with the standards in WAC 246-247-040 during construction or operation, the department reserves the right to require modifications to bring it into compliance (WAC 246-247-060(2)(d)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that the licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency. This condition became obsolete on September 28, 2006.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>Prior to permanent shut down of an emission unit or completion of an activity, the permittee shall file a report of closure with the Department of Health. The report of closure shall include the date of the shutdown and indicate whether, despite cessation of operation, there is still a potential for radioactive air emissions and a need for any active or passive ventilation system with emission control and/or monitoring devices. An emission unit or activity will not be considered permanently shut down or completed until a report of closure is received and approved by Health. Once an emission unit is permanently shut down or an activity is completed, thereby rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the shutdown or completion, to meet any monitoring, record keeping and reporting requirements which are no longer applicable for that emission unit or activity. All records, relating to the shut down emission unit or completion of an activity, generated while the emission unit or activity was in operation, shall be kept in accordance with (WAC 246-247-080(8)). (WAC 246-247-080(6)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that the licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency. This condition became obsolete on September 28, 2006.</p>
<p>The facility shall report to the department within 24 hours, any unexpected release of radioactivity, shutdown or other condition that, if allowed to persist, or lasts more than four hours, would result in the emission of radionuclides in excess of any standards or limitation in the license. Applicable standards (WAC 246-247-040) include unit specific emission limits (paragraph 5), the offsite dose standard (paragraph 1), BARCT (paragraph 3) or ALARACT (paragraph 4), whichever is applicable, or any limitation included in this approval (paragraph 5) (WAC 246-247-080(5)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: No reports were required. This condition became obsolete on September 28, 2006.</p>
<p>The department retains the right to conduct stack sampling, environmental monitoring or other testing around this unit to assure compliance. If directed by the department, the facility must make provision for such testing (WAC 246-247-075 (9) and (10)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and WDOH have determined that the licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency. This condition became obsolete on September 28, 2006.</p>

Requirement	Compliance Status	Compliance Determination Method
The department may require an ALARACT demonstration at any time (WAC 246-247-080(1)).	Not Applicable	<p>CDM: N/A Comment: Ecology and WDOH have determined that the licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency. This condition became obsolete on September 28, 2006.</p>
The facility shall make available, in timely manner, all documents requested by the department for review. The facility shall allow the department to review documents in advance of an inspection. The facility shall allow access to classified documents by representatives of the department with the appropriate security clearance and a demonstrable need-to-know (WAC 246-247-080(10)).	Not Applicable	<p>CDM: N/A Comment: No records were requested relating to diffuse and fugitive emissions. This condition became obsolete on September 28, 2006.</p>
The facility must be able to demonstrate workers associated with this emission unit are trained in the use and maintenance of control and monitoring systems, and in the performance of associated tests and emergency procedures (WAC 246-247-075(12)).	Continuous	<p>CDM: Training records and inquiry with the cognizant engineer. Comment: The near facility monitors managed by Fluor Hanford and Pacific Northwest National Laboratory. This condition became obsolete on September 28, 2006.</p>
The facility must meet all reporting and record keeping requirements of 40 CFR 61, Subpart H (WAC 246-247-080(2)).	Continuous	<p>CDM: The Environmental Release Summary electronic system maintains record data from stack and ambient air monitors. Annual reporting is provided in DOE/RL-2007-01, Rev. 0, "Radionuclide Air Emissions Report for the Hanford Site, Calendar Year 2006." Comment: Per other approval condition below, diffuse and fugitive emissions are monitored using the 300 Area near facility ambient air monitors. The near facility ambient air data is reported in the annual report. This report is scheduled for submittal by June 30, 2007. This condition became obsolete on September 28, 2006.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility shall maintain readily (promptly) retrievable storage areas (on site) for all records and documents related to, and which may help establish compliance with, the requirements of this chapter. The facility shall keep these records available for department inspection for at least five years (WAC 246-247-080(8)).</p>	<p>Continuous</p>	<p>CDM: Recordkeeping was maintained in compliance with HNF-3444, "324/327 Facilities Environmental Effluent Specifications" through April 2006, and then WCH- HNF-3444, "324/327 Facilities Environmental Effluent Specifications" for the remainder of the certification period. No records were requested relating to diffuse and fugitive emissions. Comment: This condition became obsolete on September 28, 2006.</p>
<p>Diffuse/Fugitive emissions shall be monitored using the 300 Area near-field ambient air monitors. Sample collection and analysis shall follow that of the near field monitoring program. Analytical results shall be reported in the Annual Air Emissions Report. Any change to this near-field ambient monitoring program must be approved by the department.</p>	<p>Continuous</p>	<p>CDM: Required monitoring was verified by review of data. Analytical results are reported in DOE/RL-2007-01, Rev. 0, "Radionuclide Air Emissions Report for the Hanford Site, Calendar Year 2006." Sampling collection, analysis, reporting, and changes for the 300 near facility monitors are managed by FH and PNNL. Comment: The annual report is scheduled for submittal by June 30, 2007. This condition became obsolete on September 28, 2006.</p>
<p>For areas being deactivated outside of areas served by the EP-327-01-S or EP-327-02-V ventilation system, containment and portable exhausters shall be used as needed for protection of human health or the environment, consistent with department requirements.</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: This activity was not performed during the compliance period, as confirmed through inquiry with the cognizant engineer. This condition became obsolete on September 28, 2006.</p>
<p>When a HEPA Filtered Vacuum Radioactive Air Emission Unit (HEPA VAC) is used during tie-in activities (e.g., utilities or piping), the conditions, controls, monitoring requirements and limitations of the HEPA VAC NOC, latest approved version, shall be required.</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: This activity was not performed during the compliance period, as confirmed through inquiry with the cognizant engineer. This condition became obsolete on September 28, 2006.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>When a Portable/Temporary Radioactive Air Emission Unit (PTRAEU) is used during 327 Deactivation activities, the conditions, controls, monitoring requirements and limitations of the PTRAEU NOC, latest approved version, shall be required.</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: This activity was not performed during the compliance period, as confirmed through inquiry with the cognizant engineer. This condition became obsolete on September 28, 2006.</p>
<p>When a sitewide guzzler is used during 327 Deactivation activities, the conditions, controls, monitoring requirements and limitations of the 'guzzler NOC', latest approved version, shall be required.</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: This activity was not performed during the compliance period, as confirmed through inquiry with the cognizant engineer. This condition became obsolete on September 28, 2006.</p>
<p>The APQ for U-234 shall conservatively represent all alpha emitting isotopes.</p>	<p>Continuous</p>	<p>CDM: The isotopes of concern have not changed, and U-234 still conservatively represents all alpha-emitting isotopes, as confirmed through inquiry with the cognizant engineer. Comment: This condition became obsolete on September 28, 2006.</p>
<p>The APQs for Cs-137 and Sr-90 shall conservatively represent all beta/gamma emitting isotopes.</p>	<p>Continuous</p>	<p>CDM: The isotopes of concern have not changed, and Cs-137, Sr-90, and Co-60 still conservatively represent all beta/gamma-emitting isotopes, as confirmed through inquiry with the cognizant engineer. Comment: This condition became obsolete on September 28, 2006.</p>
<p>Total emissions from excavations shall not exceed 3.6 E-2 mrem/year unabated and abated.</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: The dose limits are based on excavation. No excavation activities were performed during the reporting period as confirmed through inquiry with the cognizant engineer. This condition became obsolete on September 28, 2006.</p>

EP-305B-01-S
WDOH Emission Unit ID : 197
Page in AOP : H-0157

Requirement	Compliance Status	Compliance Determination Method
Zone or Area : Abatement Technology : Fan Required Units : 1 Add'l Description:	Continuous	CDM: Records Review / Personnel Interview Comment: Reviewed the Exhaust Fan PM Results (PM-42528), and confirmed with the Building Engineer.
Zone or Area : Abatement Technology : HEPA Required Units : 1 Add'l Description:	Continuous	CDM: Records Review / Personnel Interview Comment: Reviewed HEPA filter PM results (PM-55013) and confirmed with the Building Engineer.
Required Sampling: Record Sample Sampling Frequency: 2 week sample/year Radionuclide Requiring Measurement: TOTAL ALPHA TOTAL BETA	Continuous	CDM: Records review Comment: Emission data is maintained in the Gaseous Emission Database (GED). A query of the database confirmed all required samples were collected during the reporting period, including the start and end dates of sample periods.
Federal and State Regulatory Requirement: 40 CFR 61.93[b][4][i] WAC 246-247-075[3] Permit Monitoring and Testing Procedure: Appendix B, Method 114(3) [see AIR 05-303 for clarification details]	Continuous	CDM: Records review Comment: The "Pacific Northwest National Laboratory Effluent Management Quality Assurance Plan" (EM-QA-01) specifies quality assurance requirements.

Requirement	Compliance Status	Compliance Determination Method
<p align="center">Permit: AIR 02-1202 Issue Date: 12-03-02 Obsolete Date: 06-23-06 NOC: Operation of the Dangerous and Radioactive Mixed Waste Storage Facility (305-B) WDOH NOC ID: 319 Date In AOP: 04-11-05 Page in AOP: H-0157</p>		
Requirement	Compliance Status	Compliance Determination Method
<p>The U.S. Department of Energy shall comply with all Conditions and Limitations of this license (WAC 246-247-060(5)).</p>	<p align="center">Continuous</p>	<p>CDM: Review of compliance status for each approval condition listed for this approval order. Comment: For this approval order, in compliance with all applicable conditions.</p>
<p>The total abated emission limit for this Notice of Construction is limited to 1.56E-05 mrem/year to the Maximally Exposed Individual (WAC 246-247-040(5)). The total limit on the Potential-To-Emit for this Notice of Construction is limited to 6.97E-02 mrem/year to the</p>	<p align="center">Continuous</p>	<p>CDM: Records Review Comment: The radionuclide air emissions data for the Calendar Year 2006 was reviewed to verify 305B emissions are well below the NOC limit. NESHAPS inventory of radioactive materials is conducted for PNNL facilities on an annual basis in accordance with PNL-10855, Rev. 3. The NESHAPS evaluation no longer includes 305B because radioactive waste activities were moved to the 325 building in 2001. No radioactive waste has been stored in 305B since this time.</p>
<p>No activities, other than those explicitly described within this approval, shall be conducted without prior written approval. The approved activities are limited to: the opening of Radioactive Mixed Waste (RMW) packages and unsealed waste drums containing closed RMW packages in the 305-B Radioactive Mix Waste Storage Facility. (1) Maximum number of open mixed waste or potentially mixed waste containers in hood at any given time to be changed from two packages and containers to four packages and containers; (2) Maximum number of unsealed waste drums containing mixed waste containers in room at any given time to be changed from two drums to five drums. The number of potentially radioactive mixed waste containers is 1,000 containers. The 305-B Building is used for the collection, consolidation, packaging, storage and preparation for transport of both dangerous and radioactive mixed waste (RMW). RMW is generated in volumes ranging from small milliliter-size vials to a maximum of 55-gallon drums generated from laboratory research activities in the 300 Area. RMW is brought to the 305-B Building in preparation for transport or, for small volumes, storage until enough waste is accumulated to fill a bulking container, usually a 55-gallon drum. RMW, with the exception of flammable RMW, is stored in the basement of the building, while flammable RMW is stored on the first floor in a flammable storage cabinet in accordance with the Uniform Fire Code. Sampling and repackaging activities occur in a 4-foot-wide fume hood that is High Efficiency Particulate Air (HEPA) filtered or in the storage area for those packages whose size prohibit use of the fume hood. The hood and basement area exhaust through a 10-inch diameter stack that is 32.9 feet above grade. Samples are transferred from the 305-B</p>	<p align="center">Continuous</p>	<p>CDM: Records Review Comment: Waste handling activities were within the scope of work described in the NOC.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>Building to existing analytical laboratories for analyses. The 305-B Building is also used as a holding area for containers of hazardous waste that may contain trace levels of radionuclides. This "potentially radioactive mixed waste (PRMW)" must be analyzed for radioactivity prior to disposal. Historical experience has shown PRMW containers average less than 10 pCi/g of radioactivity. Waste drums containing packaged RMW (waste prepared by the waste generator) may be unsealed and opened in the room for sampling and/or repackaging. Packages removed from waste drums for sampling are briefly opened while the sample is collected. The package is sealed promptly after sampling is completed and open packages are not stored in the hood.</p>		
<p>The Annual Possession Quantity is limited to the following radionuclides (Curies/year): Alpha 0 5.50E-01 Beta 0 5.50E+00 H 3 5.50E+01</p>	Continuous	<p>CDM: Records Review Comment: Reviewed the NESHAPs Radionuclide Inventory for 2006.</p>
<p>The department retains the right to conduct stack sampling, environmental monitoring or other testing around this unit to assure compliance. If directed by the department, the facility must make provision for such testing (WAC 246-247-075(9) and (10)).</p>	Not Applicable	<p>CDM: N/A Comment: Ecology and Health have determined that the licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>
<p>The facility must be able to demonstrate that workers associated with this emission unit are trained in the use and maintenance of control and monitoring systems, and in the performance of associated tests and emergency procedures (WAC 246-247-075(12)).</p>	Continuous	<p>CDM: Records Review Comment: Use and Maintenance: RCTs are responsible for the collection of samples and operating monitoring equipment. These personnel are trained to procedures (located on the Effluent Management web page for these activities. Evidence of training to these procedures is maintained with the Laboratory Training group. Air Balance personnel are responsible for the efficiency testing and replacement of HEPA filters. This testing is performed in accordance with Air Balance procedures located on the F&O web page. Evidence of training to these procedures is maintained with the Laboratory Training group. Emergency Response: The Emergency Preparedness group trains the building emergency directors (BEDs) via PNNL courses 402, 403, and 404. Under each BED is a response organization (BERO), these personnel are trained under course 405. Training records are maintained with Laboratory Training. Emergency preparedness exercises are conducted on a scheduled basis to evaluate performance. Evaluations are maintained with the EP group.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility shall report to the department within 24 hours, any unexpected release of radioactivity, shutdown or other condition that, if allowed to persist, or lasts more than four hours, would result in the emission of radionuclides in excess of any standards or limitation in the license. Applicable standards (WAC 246-247-040) include unit specific emission limits (paragraph 5), the offsite dose standard (paragraph 1), BARCT (paragraph 3) or ALARACT (paragraph 4), whichever is applicable, or any limitation included in this approval (paragraph 5) (WAC 246-247-080(5)).</p>	<p>Not Applicable</p>	<p>CDM: Records Review Comment: No reports were required. Reviewed the Hanford Site Air Operating Permit Semiannual Reports for Periods January 1, 2006 through June 30, 2006 and July 1, 2006 through December 31, 2006.</p>
<p>The facility must be able to demonstrate that it has a quality assurance program compatible with applicable national standards (WAC 246-247-075(6)).</p>	<p>Continuous</p>	<p>CDM: Records Review Comment: PNNL's Rad Air monitoring program is conducted under the Effluent Management Quality Assurance Plan, EM-QA-01. This plan is based on the requirements of 40 CFR 61, Appendix B, Method 114.</p>
<p>The facility must maintain a log in an approved format for this activity or emission unit.</p>	<p>Continuous</p>	<p>CDM: Records Review Comment: The Waste Operations organization within PNNL uses the Integrated Waste Management System (database) to track containers of waste that are generated within PNNL. This database captures drum numbers and locations, form (liquid/solid), as well as information on the radiological content (pCi/g) and weight of the containers. Approval was obtained J. Schmidt (WDOH) via email on May 1, 2002 for the method used to meet this condition. (Reference: J. Schmidt, WDOH, to DL Edwards, PNNL, dated May 1, 2002, titled "Log for 305B Activities".)</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility must be able to demonstrate the reliability and accuracy of emissions data and other test results from this emission unit (WAC 246-247-075(13)).</p>	<p>Continuous</p>	<p>CDM: Records Review Comment: Data collected through support organizations is coordinated through statements of work (SOWs) that outline project expectations for collection and reporting of data: • Airborne Radionuclide Emission Sample Analysis Statement of Work (Sample analysis) • Airborne Radionuclide Emission Sampler and Monitor Operations Statement of Work (Collection of samples, daily inspections, and delivery to laboratory) • Effluent Sampling and Monitoring Support-Memorandum of Agreement (performance of stack flow measurements and maintenance of equipment) a. Memorandum of Agreement for Calibration Services (Calibration of rotameters and vacuum gauges) Note: All of these documents are maintained on the EM web page.</p>
<p>The facility shall ensure all emissions units are fully accessible to department inspectors. In the event the hazards associated with accessibility to a unit require training and/or restriction or requirements for entry, the facility owner or operator shall inform the department, prior to arrival, of those restrictions or requirements. The owner or operator shall be responsible for providing the necessary training, escorts, and support services to allow the department to inspect the facility. At a minimum for unannounced inspections, such requirements or restrictions must be told to inspectors to provide an opportunity for inspectors to meet those requirements prior to the inspection (WAC 246-247-080(9)).</p>	<p>Continuous</p>	<p>CDM: Records Review Comment: Implementation of the "Memorandum of Understanding for Initial Point-of-Contact Activities Supporting Regulatory Agency Environmental Inspection", dated July 2001." The MOU defines, at a site-wide level, the roles and responsibilities for regulator access to the Hanford Site. SBMS subject area for Audits and Inspections by Regulatory and Oversight Agencies, ES&H Regulatory Inspections further defines the roles and responsibilities at a contractor level for hosting, conducting, and documenting external regulatory inspections.</p>
<p>The department may require an ALARACT demonstration at any time (WAC 246-247-080(1)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and Health have determined that the licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>Prior to permanent shut down of an emission unit or completion of an activity, the permittee shall file a report of closure with the Department of Health. The report of closure shall include the date of the shutdown and indicate whether, despite cessation of operation, there is still a potential for radioactive air emissions and a need for any active or passive ventilation system with emission control and/or monitoring devices. An emission unit or activity will not be considered permanently shut down or completed until a report of closure is received and approved by Health. Once an emission unit is permanently shut down or an activity is completed, thereby rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the shutdown or completion, to meet any monitoring, record keeping, and reporting, requirements which are no longer applicable for that emission unit or activity. All records, relating to the shut down emission unit or completion of an activity, generated while the emission unit or activity was in operation, shall be kept in accordance with (WAC 246-247-080(8)). (WAC 246-247-080(6))</p>	<p>Continuous</p>	<p>CDM: Records Review. Comment: PNNL filed a report of closure for deregistration of emission unit EP-305B-01-S with WDOH on 6/23/06 pursuant to WAC 246-247.</p>
<p>The facility shall make available, in timely manner, all documents requested by the department for review. The facility shall allow the department to review documents in advance of an inspection. The facility shall allow access to classified documents by representatives of the department with the appropriate security clearance and a demonstrable need-to-know (WAC 246-247-080(10)).</p>	<p>Continuous</p>	<p>CDM: Records Review Comment: WDOH did not request any records during the reporting period for this project. WDOH conducted a closeout inspection 5/25/06.</p>
<p>The facility shall report all measured or calculated emissions annually (WAC 246-247-080(3)).</p>	<p>Continuous</p>	<p>CDM: Records Review Comment: Emissions are included in the Radionuclide Air Emissions Report for the Hanford Site</p>
<p>If this emission unit is not in compliance with the standards in WAC 246-247-040 during construction or operation, the department reserves the right to require modifications to bring it into compliance (WAC 246-247-060-(2)(d)).</p>	<p>Not Applicable</p>	<p>CDM: N/A Comment: Ecology and Health have determined that the licensee need not certify compliance with conditions that convey a right, are a historical summary or fact, that pertain to actions to be completed in the future, or that pertain to actions required of the agency.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>The facility must meet all reporting and record keeping requirements of 40 CFR 61, Subpart H (WAC 246-247-080(2)).</p>	<p>Continuous</p>	<p>CDM: Records Review Comment: Retention period for Rad Air records is specified as part of the Effluent Management Quality Assurance Plan, EM-QA-01. Retention periods are further documented in the EM project files under the Records Inventory and Disposal Schedule (RIDS).</p>
<p>The facility shall maintain readily (promptly) retrievable storage areas (on site) for all records and documents related to, and which may help establish compliance with, the requirements of this chapter. The facility shall keep these records available for department inspection for at least five years (WAC 246-247-080(8)).</p>	<p>Continuous</p>	<p>CDM: Records Review Comment: Retention period for Rad Air records is specified as part of the Effluent Management Quality Assurance Plan, EM-QA-01. Retention periods are further documented in the EM project files under the Records Inventory and Disposal Schedule (RIDS).</p>
<p>The facility shall make available, in timely manner, all documents requested by the department for review. The facility shall allow the department to review documents in advance of an inspection. The facility shall allow access to classified documents by representatives of the department with the appropriate security clearance and a demonstrable need-to-know (WAC 246-247-080(10)).</p>	<p>Continuous</p>	<p>CDM: Records Review Comment: WDOH did not request any records during the reporting period for this project. WDOH conducted a closeout inspection 5/25/06.</p>
<p>All radionuclides are assumed to be either Americium-241 for alpha activity or Cesium-137 for beta activity and provides a conservative estimate of the potential to emit from the emission unit. In addition to the radionuclides of concern listed in the APQ, essentially any radionuclide isotope could be encountered. If a new isotope is encountered, the department shall be notified. At no time shall the emissions limits be exceeded.</p>	<p>Continuous</p>	<p>CDM: Records Review Comment: NESHAPS inventory of radioactive materials is conducted for PNNL facilities on an annual basis in accordance with PNL-10855 Rev. 3, "Assessment of Unabated Facility Emission Potentials for Evaluating Airborne Radionuclide Monitoring Requirements at PNNL-2003". The 305B facility was not included in the 2006 NESHAPs Assessment for PNNL-DOE Facilities. The staging of radioactive waste was moved to the 325 Building in 2001 with no radioactive waste stored at 305B.</p>

EP-318-01-S
WDOH Emission Unit ID : 175
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Requirement	Compliance Status	Compliance Determination Method
<p>Zone or Area : Exhaust Duct Abatement Technology : HEPA Required Units : 1 Add'l Description: 12" x 24" x 24" HEPA filter installed in the exhaust duct from the fume hood in Room 126.</p>	Continuous	<p>CDM: Records Review / Personnel Interview Comment: Reviewed the HEPA Filter PM Results (PM-2037) & confirmed with Building Engineer.</p>
<p>Zone or Area : Exhaust Duct Abatement Technology : Exhaust Fan Required Units : 1 Add'l Description:</p>	Continuous	<p>CDM: Records Review / Personnel Interview Comment: Reviewed the Exhaust Fan PM Results (PM-42524) & confirmed with Building Engineer.</p>
<p>Required Sampling: Record Sample Sampling Frequency: 2 week sample/year Radionuclide Requiring Measurement: TOTAL ALPHA TOTAL BETA</p>	Continuous	<p>CDM: Records review. Comment: Emission data is maintained in the Gaseous Emission Database (GED). A query of the database confirmed that all required samples were collected during the reporting period, including the start and end dates of sample periods.</p>
<p>Federal and State Regulatory Requirement: 40 CFR 61.93(b)(4)(i) & WAC 246-247-075[(3) Permit Monitoring and Testing Procedure: 40 CFR 61, Appendix B, Method 114(3) [see AIR 05-303 for clarification details]</p>	Continuous	<p>CDM: Records review. Comment: The "Pacific Northwest National Laboratory Effluent Management Quality Assurance Plan (EM-QA-01) specifies quality assurance requirements.</p>

Requirement	Compliance Status	Compliance Determination Method
<p>Permit: AIR 03-1204 Issue Date:12-08-03 Effective Date:12-16-03 Obsolete Date: 07-05-06 NOC: Installation of Single Stage HEPA Filter for the Calibration and Development Activities in the Radiological Calibrations Laboratory (318 Building) WDOH NOC ID: 532 Date In AOP: 04-11-05 Page in AOP: H-0682</p>		
Requirement	Compliance Status	Compliance Determination Method
<p>The U.S. Department of Energy shall comply with all Conditions and Limitations of this license (WAC 246-247-060(5)).</p>	<p>Continuous</p>	<p>CDM: Review of compliance status for each approval condition listed for this approval order. Comment: For this approval order, in compliance with all applicable conditions.</p>
<p>The total abated emission limit for this Notice of Construction is limited to 1.72E-05 mrem/year to the Maximally Exposed Individual (WAC 246-247-040(5)).</p>	<p>Continuous</p>	<p>CDM: Records Review Comment: Reviewed the radionuclide air emissions data for calendar year 2006 to verify total abated emissions are below the NOC limit.</p>
<p>This approval applies only to those activities described below. No additional activities or variations on the approved activities that constitute a "modification" to the emission unit, as defined in WAC 246-247-030(16), may be conducted. To install a single stage HEPA filter into the exhaust flow duct from the fume hood in Room 126. This modification is in support of the calibration and repair of contaminated equipment that will take place in the fume hood once the HEP A filter is installed. These activities currently are performed in the glove box in Room 131. The 318 Building provides technical services such as internal dosimetry, external dosimetry, instrument calibration, repair, and testing in support of the Hanford and DOE missions. Research capabilities are also provided to support the development of radiation detection and measuring instruments.</p>	<p>Continuous</p>	<p>CDM: Records Review Comment: Under the PNNL Standards Based Management System (SBMS) each new research project is required to be reviewed via the Electronic Prep & Risk assessment process. The reviews are recorded in the EPR database. Facility changes are required to be reviewed via the SBMS Subject Area for Engineering Calculations, Drawings and Specifications, Creating and Modifying. Projects with potential air emissions were further reviewed by Effluent Management (EM) under the SBMS Airborne Emissions Subject Area, and the records retained by EM.</p>