

LB# 4344



AIR 15-404

STATE OF WASHINGTON
DEPARTMENT OF HEALTH
OFFICE OF RADIATION PROTECTION
309 Bradley Blvd., Suite 201 • Richland, Washington 99352
TDD Relay Service: 1-800-833-6388

April 15, 2015

Mr. Kevin W. Smith, Manager
United States Department of Energy
Office of River Protection
P.O. Box 450, MSIN: H6-60
Richland, Washington 99352

Dear Mr. Smith:

Pursuant to Chapter 246-247 of the Washington Administrative Code (WAC), your application was approved, as negotiated, on April 9, 2015, according to the enclosed license for:

**License Revisions Pertaining to the Breather Filters for Single-Shell Tank 241-BX-104
(EU-255)**

The conditions, controls, monitoring requirements, and limitations of this license must be observed in order for you to be in compliance with WAC 246-247. Failure to meet any provision of this license may result in the revocation of approval, the issuance of Notices of Violation, or other enforcement actions under WAC 246-247-100.

If you have any questions regarding this approval, please contact Randy Utley at (509) 946-0534.

Sincerely,

John Martell, Manager
Radioactive Air Emissions Section

Enclosure: Applicable Portion of License

cc: (see next page)



Mr. Kevin W. Smith
April 15, 2015
Page 2 of 2

AIR 15-404
Enclosure

cc: Ruth Allen, WRPS
Matthew Barnett, PNNL
Lucinda Borneman, WRPS
Lee Bostic, BNI
Dennis Bowser, USDOE-ORP
Cliff Clark, USDOE-RL
Jack Donnelly, WRPS
Rick Engelmann, CHPRC
Dennis Faulk, EPA
Thomas Frazier, WDOH
Gary Fritz, MSA
Phil Gent, Ecology
Robert Haggard, BNI
Dale Jackson, USDOE-RL
Jessica Joyner, WRPS
Reed Kaldor, MSA
Paul Karschnia, CHPRC
Ed MacAlister, USDOE-RL
Valarie Peery, Ecology
Maria Skorska, Ecology
Bryan Trimmerger, USDOE-ORP
Randy Utley, WDOH
Jeff Voogd, WRPS
Joan Woolard, MSA
Davis Zhen, EPA
Environmental Portal
RAES Tracking: Tracking line 15-2; EU 255

Follow up to LB 4323

Emission Unit ID: 255

200E P-241BX104-001

241-BX-104

This is a MINOR, PASSIVELY ventilated emission unit.

241-BX TANK FARM

Emission Unit Information

Stack Height: 15.00 ft. 4.57 m. Stack Diameter 0.33 ft. 0.10 m.

Average Stack Effluent Temperature: 55 degrees Fahrenheit. 13 degrees Celsius.

Average Stack Exhaust Velocity: 1.91 ft/second. 0.58 m/second.

Abatement Technology ALARACT WAC 246-247-040(4)

state only enforceable: WAC 246-247-010(4), 040(5), 060(5)

| Zone or Area | Abatement Technology | Required # of Units | Additional Description |
|--------------|----------------------|---------------------|-------------------------|
| | HEPA | 1 | Passive Breather Filter |

Monitoring Requirements

state enforceable: WAC 246-247-040(5), 060(5), and federally enforceable: 40 CFR 61 subpart H

| Federal and State Regulatory | Monitoring and Testing Requirements | Radionuclides Requiring Measurement | Sampling Frequency |
|--|-------------------------------------|---|--------------------|
| 40 CFR 61.93(b)(4)(i) & WAC 246-247-075(3) | 40 CFR 61, Appendix B Method 114 | Levels below 10,000 dpm/100cm ² beta/gamma and 200 dpm/100cm ² alpha will verify low emissions. | Every 365 days |

Sampling Requirements 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.

Additional Requirements

Radial breather filters shall be replaced every 365 days.

Additional monitoring or sampling requirements established by this License will be listed in the Conditions and Limitations section, if applicable.

Operational Status This emission unit is a passive breather filter that allows a SST to vent to the atmosphere under tank farm storage, maintenance, and operation. The tank stores the radioactive waste awaiting retrieval, treatment, and proper disposal under the applicable federal and state regulations and/or permits. The SST scheduled activities of waste retrieval, decommissioning, and eventual closure will be completed under applicable federal and state regulations and/or permits. Any activity other than storage, maintenance, and normal operation conducted at the tank will obtain the appropriate permits for the activity and the emission units associated with the activity as required by the regulations applicable to the activity. The emission unit is a passive breather filter and is part of the tank's ventilation system that operates continuously.