



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

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March 26, 2013

13-NWP-023

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

Re: Approval of Non-Radioactive Air Emissions Notice of Construction (NOC) Permit
Amendment for the Operation of Ventilation Systems in Various Hanford Tank Farms

Dear Mr. Smith:

The Washington State Department of Ecology (Ecology) has received and reviewed letter 12-ECD-0046 and attached NOC Modification Forms from the United States Department of Energy (USDOE). Ecology understands that USDOE is seeking to increase the ammonia emission limits for the 241-AY/241-AZ Tank Farms from 0.34 lb/hr to 2.5 lb/hr and from 0.22 lb/hr to 2.9 lb/hr for either 241-AN or 241-AW Tank Farm. Ecology has determined that your applications are complete in accordance with Washington State Administrative Code (WAC) 173-400.

Therefore, Ecology amends Approval Order 94-07, Revision 3 (5/7/2008) as follows:

1. Insert a new finding to read "An Ecology Approval Order Revision Request Form was received September 20th, 2012. The modification requested approval for an increase in maximum ammonia emissions from 0.34 lb/hr (3000 lb/yr) to 2.5 lb/hr (22,200 lb/yr)."
2. Revise General Approval Condition 1.2.4 to read "Emissions of ammonia shall not exceed 2.5 pounds per hour from the primary tank ventilation exhaust system."
3. Revise the row of entries for Ammonia in *Table 2: Toxic Air Pollutants for Order 94-07, Revision 3* to read as follows:

Material Data			ASIL/ Screening Level	SQER	Emissions Estimate		Emissions Consequence
Chemical Name	CAS	Class	$\mu\text{g}/\text{m}^3$	lb/period	lb/hr	lb/year	$\mu\text{g}/\text{m}^3$
Ammonia	7664-41-7	B	70.8	9.31	2.5	22,200	5.79E-01

Ecology also amends Approval Order DE05NWP-001, "Approval of Non-Radioactive Air Emissions Notice of Construction (NOC) for Operation of New Ventilation Systems in the AN and AW Tank Farms" (2/18/2005) and Revision 1 (7/31/2007) with the following amendments:



1. Revise General Approval Condition 1.2.4 to read "Emissions of ammonia shall not exceed 2.9 pounds per hour (3.63E-01 g/second) from the primary tank ventilation exhaust system."
2. Revise the row of entries for Ammonia in *Table 2: Toxic Air Pollutants for DE05NWP-001, Revision 1* to read as follows:

Material Data			ASIL/ Screening Level	SQER	Emissions Estimate		Emissions Consequence
Chemical Name	CAS	Class	$\mu\text{g}/\text{m}^3$	lb/period	lb/hr	lb/year	$\mu\text{g}/\text{m}^3$
Ammonia	7664-41-7	B	70.8	9.31	2.9	25,200	6.58E-01

Ecology held a public comment period for the above changes to both Notice of Construction Approval Order 94-07, Revision 3 (5/7/2008) and DE05NWP-001, "Approval of Non-Radioactive Air Emissions Notice of Construction (NOC) for Operation of New Ventilation Systems in the AN and AW Tank Farms" (2/18/2005) and Revision 1 (7/31/2007). We received and responded to one comment. The comment and our response can be found at <https://fortress.wa.gov/ecy/publications/SummaryPages/1305008.html>

The amendments set forth in this letter shall be effective as of March 26, 2013.

If you have any questions concerning this letter, please contact Albert Chang at (509) 372-7929 or Philip Gent at (509) 372-7983.

Sincerely,



Jane A. Hedges
Program Manager
Nuclear Waste Program



Philip M. Gent, PE
Nuclear Waste Program

cc:

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