



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

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December 10, 2012

12-NWP-184

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

Dear Mr. Samuelson:

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

Dear Mr. Samuelson:

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 limit 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 the 241-AN and the 241-AW Tank Farms. Ecology has determined that your applications are complete in accordance with Washington State Administrative Code (WAC) 173-400.

Ecology will hold a public comment period from December 10, 2012, to January 11, 2013, for the following proposed changes to Notice of Construction (NOC) Approval Order 94-07, Revision 3 (5/7/2008) and DE05NWP-001, "Approval of Non-Radioactive Air Emissions NOC for Operation of New Ventilation Systems in the AN and AW Tank Farms" (2/18/2005) and Revision 1 (7/31/2007):

Proposed changes to Approval Order 94-07, Revision 3 (5/7/2008):

1. Insert a new finding to read "An Ecology Approval Order Revision Request Form was received September 20, 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	µg/m ³	lb/period	lb/hr	lb/year	µg/m ³
Ammonia	7664-41-7	B	70.8	9.31	2.5	22,200	5.79E-01



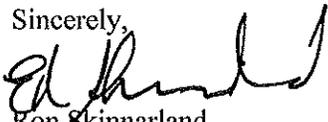
Proposed changes to Approval Order DE05NWP-001, "Approval of Non-Radioactive Air Emissions Notice of Construction (NOC) for Operation of New Ventilation Systems in the AN and AW Tank Farms" (2/18/2005) and Revision 1 (7/31/2007):

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

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

Sincerely,



Ron Skinnarland
Waste Management Section Manager
Nuclear Waste Program

ac/jvs

cc w/enc: (DVD)

Laurie Krall, EPA Region 10
Dennis Bowser, USDOE
Tom Beam, MSA
Lucinda Penn, WRPS
Administrative Record
Correspondence Control, USDOE-ORP
Environmental Portal

cc w/o enc:

Nancy Helm, EPA Region 10
Robert Anderson, MSA
Stuart Harris, CTUIR
Gabriel Bohnee, NPT
Russell Jim, YN
Steve Hudson, HAB
Ken Niles, ODOE
John Martell, WDOH

Mr. Scott Samuelson
December 10, 2012

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bcc w/enc:
NWP Central Files

bcc w/o enc:
NWP Reader File

bcc electronic w/o enc:
Albert Chang, Ecology
Philip Gent, Ecology
Ron Skinnarland, Ecology
Maria Skorska, Ecology