STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
3100 Port of Benton Blvd • Richland, WA 99352 • (509) 372-7950

September 27, 2007

Mr. David A. Brockman, Manager
Richland Operations Office
United States Department of Energy
P.O. Box 550, MSIN: A7-50
Richland, Washington 99352

Re: Amendment 2 to Notice of Construction Approval ORDER DE07NWP-003; Effluent Treatment Facility and Solidification Treatment Unit

Reference: Email Transmittal, *RE Identification of New Toxic Air Polluants (TAP) - 200 Area Effluent Treatment Facility Ecology Approval Order DE07NWP-003*, September 10, 2007.

Dear Mr. Brockman:

The referenced email transmittal the United States Department of Energy – Richland Operations Office (USDOE-RL) was provided in compliance with Condition 2.5 of ORDER DE07NWP-003. In the reference transmittal, USDOE-RL identified additional materials within streams of the Effluent Treatment Facility (ETF) with the potential of emissions of toxic air pollutants.

Ecology has reviewed your transmittal and will not require an application to modify your ORDER. Your emissions estimates are at or below allowable ambient impact levels at the point of release. This letter issues approval for the notified operations as **Amendment 2** to ORDER No. **DE07NWP-003**. This Amendment will be incorporated in the next revision of the Hanford Air Operating Permit.

Please retain the enclosed Amendment with your initial approval. The enclosed ORDER amendment may be appealed. Appeal procedures are described in the original ORDER.

This authorization can be modified, suspended, or revoked, in whole or in part, if Ecology finds that, due to inaccuracies in the petition request, compliance with ambient air quality standards is not ensured.

If you have any questions, contact Doug Hendrickson at 509-372-7983.

Sincerely,

Jane A. Hedges
Program Manager
Nuclear Waste Program

dh:pll
Enclosure

cc: Mary Jarvis, USDOE
Tom Beam, FH
Fen Simmons, FH
Stuart Harris, CTUIR
Gabriel Bohnee, NPT
Russell Jim, YN
Susan Leckband, HAB
Ken Niles, ODOE
John Martell, WDOH
Administrative Record: AIR Permits
Environmental Portal

Amendment 2: Table 1 of ORDER DE07NWP-003 is amended as:

Table 1: Effluent Treatment Facility Toxic Air Pollutants					
Toxic Air Pollutants [1]	**TAP Class [2]**	**CAS# [3]**	**Emissions Estimate (lb/yr)**	**ASIL [4] ($\mu g/m^3$)**	**SQER [5] (lb/period)**
Arsenic (inorganic compounds)	A	C7440-38-2	3.40E-12	0.00023	
Calcium oxide	B	1305-78-8	1.23E-07	6.7	0.02
Hydrogen peroxide	B	7722-84-1	8.58E-05	4.7	0.02
Mercury (inorganic compounds)	B	C7439-97-6	8.76E-13	0.33	0.02
Molybdenum (as soluble cmpds.)	B	C7439-98-7	3.50E-12	17	0.2
Nitric acid	B	7697-37-2	3.94E-07	17	0.2
Phosphate (phosphoric acid)	B	7664-38-2	9.64E-11	3.3	0.02
Selenium (as Se)	B	C7782-49-2	1.40E-12	0.67	0.02
Sulfuric acid	B	7664-93-9	2.37E-04	3.3	0.02
Thallium (compounds as Tl)	B	C7440-28-0	9.64E-12	0.33	0.02
1,2-Dichloroethylene	B	540-59-0	5.69E-02	2600	5
1-Butanol	B	71-36-3	5.34E+02	500	5
2-Butanone (MEK)	B	78-93-3	5.26E+00	1000	5
2-Butoxyethanol	B	111-76-2	1.31E+02	400	5
2-Hexanone	B	591-78-6	7.45E-01	67	1.2
2-Pentanone (MPK)	B	107-87-9	2.01E+00	2300	5
Bis(2-ethylhexyl) phthalate	A	117-81-7	6.00E+00	2.5	500
Carbon disulfide	B	75-15-0	5.69E-02	100	2
Chloromethane (methyl chloride)	B	74-87-3	8.58E-02	340	5
n-Nitrosodimethylamine	A	62-75-9	1.2 E-04	0.000071	

DATED at Richland, Washington, this 27th day of September 2007.

REVIEWED AND PREPARED BY:

Doug Hendrickson, P.E.

DOUGLAS W. HENDRICKSON
STATE OF WASHINGTON
33907
REGISTERED
PROFESSIONAL ENGINEER
EXPIRES 6/10/2009

APPROVED BY:

Jane A. Hedges,
Program Manager
Nuclear Waste Program