



August 28, 2007
AET 07-0057

Mr. Michael F. Weber
Director, Office of Nuclear Material Safety and Safeguards
Attention: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

American Centrifuge Lead Cascade Facility
Docket No. 70-7003
License No. SNM-7003
Submittal of Environmental Compliance Status Report (ECSR) Related Information

Dear Mr. Weber:

The License Application for the American Centrifuge Lead Cascade Facility, Section 9.3, contains a commitment to incorporate Lead Cascade effluents into the existing environmental reports prepared by the United States Enrichment Corporation. These environmental reports have historically been submitted to the U.S. Nuclear Regulatory Commission (NRC). On August 7, 2007 (Reference), the NRC staff requested that the United States Enrichment Corporation discontinue submission of these reports. To fulfill USEC Inc.'s commitment, the Quarterly Radiological Monitoring Discharge Report for plant outfalls for the second-quarter calendar year 2007 is enclosed.

The License Application for the American Centrifuge Lead Cascade Facility, Section 9.3, contains a commitment to submit the following United States Enrichment Corporation reports to the Office of Nuclear Material Safety and Safeguards:

- 1 A copy of the annual National Emission Standards for Hazard (NESHAP) for Radionuclides report by June 30th of each year;
- 2 A submit copy of the quarterly Radiological Monitoring Discharge report for plant outfalls within 60 days of the end of each calendar quarter; and
3. Submit an annual summary for the previous calendar year containing the following information by April 15th of each year:
 - a. Ambient Gamma Levels from the environmental Thermo Luminiscent Dosemeter monitoring systems; and
 - b. Summary of Notice of Violations permit exceedances, and/or other citations for the last calendar year.

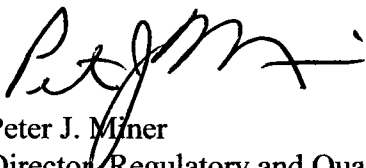
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Per a discussion on August 24, 2007, consistent with the August 7, 2007 letter, the NRC staff agreed that USEC Inc. should discontinue submission of these documents. As discussed, the License Application for the American Centrifuge Lead Cascade Facility, Section 9.3, will be changed pursuant to our internal Change Control Process in accordance with 10 *Code of Federal Regulations* 70.72 to eliminate this commitment. These reports will be available upon request for inspection at the facility.

Should you have any questions or require additional information, please contact me at (301) 564-3470. There are no new commitments contained in this submittal.

Sincerely,



Peter J. Miner
Director, Regulatory and Quality Assurance

Reference: Brian W Smith (NRC) to Stephen A Toelle, Environmental Compliance Status Report
Related Information, dated August 7, 2007

Enclosure: Piketon Facilities Quarterly Radiological Discharge Monitoring Report-Second Quarter
2007

cc: J. Downs, NRC HQ
D. Hartland, NRC Region II
J. Henson, NRC Region II
B. Smith, NRC HQ

Enclosure to AET 07-0057

**Piketon Facilities Quarterly Radiological Discharge Monitoring Report
Second Quarter 2007**

**Plant Radiological Discharges to Surface Water
Calendar Year 2007 - 2nd Quarter**

**United States Enrichment Corporation (USEC)
Portsmouth Gaseous Diffusion Plant, Piketon, Ohio**

Outfall 001 / X-230J-7 East Holding Pond

	Concentrations				Loadings			
	Alpha pCi/l	Beta pCi/l	Tc pCi/l	U ug/l	Alpha mCi	Beta mCi	Tc mCi	U kg
4/2/2007	6.6	16	11	1.46	0.335	0.84	0.57	0.075
4/9/2007	8.9	13	21	0.95	0.341	0.50	0.79	0.036
4/16/2007	6.7	14	10	1.17	0.311	0.64	0.48	0.054
4/23/2007	8.6	15	12	0.97	0.316	0.57	0.43	0.036
4/30/2007	< 4.1	< 7	< 9	0.41	0.058	< 0.30	< 0.38	0.017
5/7/2007	< 4.1	< 8	< 9	0.34	0.046	< 0.30	< 0.36	0.014
5/14/2007	< 4.1	< 8	< 9	0.31	0.036	< 0.26	< 0.32	0.011
5/21/2007	< 4.7	< 7	< 9	0.27	0.037	< 0.28	< 0.36	0.011
5/28/2007	< 5.1	< 6	< 9	0.25	0.034	< 0.22	< 0.36	0.010
6/4/2007	< 3.8	< 6	< 9	0.30	0.041	< 0.23	< 0.35	0.012
6/11/2007	< 3.6	< 5	< 9	0.33	0.049	< 0.23	< 0.41	0.014
6/18/2007	< 5.9	< 6	< 9	0.31	0.043	< 0.26	< 0.37	0.012
6/25/2007	< 4.6	8	< 9	0.35	0.051	0.36	< 0.39	0.015
Total	< 70.8	< 119	< 136	7.42	1.699	< 4.98	< 5.57	0.317
Average	< 5.4	< 9	< 10	0.57	0.131	< 0.38	< 0.43	0.024
Maximum	8.9	16	21	1.46	0.341	0.84	0.79	0.075
Minimum	< 3.6	< 5	< 9	0.25	0.034	< 0.22	< 0.32	0.010
Transuranics '001060507	Am 241 < 0.080	Np 237 < 0.101	Pu 238 < 0.071	Pu 239+240 < 0.083				

**Plant Radiological Discharges to Surface Water
Calendar Year 2007 - 2nd Quarter**

**United States Enrichment Corporation (USEC)
Portsmouth Gaseous Diffusion Plant, Piketon, Ohio**

Outfall 002 / X-230K South Holding Pond

	Concentrations				Loadings			
	Alpha pCi/l	Beta pCi/l	Tc pCi/l	U ug/l	Alpha mCi	Beta mCi	Tc mCi	U kg
4/2/2007	< 8.0	< 6	< 9	1.51	0.0187	< 0.121	AA	0.0312
4/9/2007	< 8.0	< 6	< 9	1.41	0.0079	< 0.051	AA	0.0131
4/16/2007	< 7.0	< 7	< 9	1.10	0.0176	< 0.198	AA	0.0293
4/23/2007	< 5.7	< 6	< 9	1.08	0.0050	< 0.042	AA	0.0083
4/30/2007	< 6.0	< 8	< 9	1.09	0.0040	< 0.047	AA	0.0067
5/7/2007	< 5.9	< 8	< 9	1.03	0.0101	< 0.129	AA	0.0168
5/14/2007	< 5.2	< 8	< 9	1.04	0.0040	< 0.050	AA	0.0067
5/21/2007	< 6.1	< 7	< 9	0.90	0.0029	< 0.040	AA	0.0049
5/28/2007	< 6.7	< 6	< 9	0.99	0.0029	< 0.029	AA	0.0049
6/4/2007	< 5.2	< 6	< 9	1.44	0.0053	< 0.037	AA	0.0088
6/11/2007	< 4.7	< 6	< 9	0.81	0.0035	< 0.039	AA	0.0058
6/18/2007	< 8.2	< 7	< 9	0.79	0.0011	< 0.015	AA	0.0018
6/25/2007	< 6.5	< 6	< 9	0.97	0.0064	< 0.061	AA	0.0106
Total	< 83.2	< 85	< 119	14.16	0.0893	< 0.858	AA	0.1489
Average	< 6.4	< 7	< 9	1.09	0.0069	< 0.066	AA	0.0115
Maximum	< 8.2	< 8	< 9	1.51	0.0187	< 0.198	AA	0.0312
Minimum	< 4.7	< 6	< 9	0.79	0.0011	< 0.015	AA	0.0018
Transuranics '002060507	Am 241 < 0.029	Np 237 < 0.155	Pu 238 < 0.073	Pu 239+240 < 0.085				

**Plant Radiological Discharges to Surface Water
Calendar Year 2007 - 2nd Quarter**

**United States Enrichment Corporation (USEC)
Portsmouth Gaseous Diffusion Plant, Piketon, Ohio**

Outfall 003 / X-6619 Sewage Treatment Plant

	Concentrations				Loadings			
	Alpha pCi/l	Beta pCi/l	Tc pCi/l	U ug/l	Alpha mCi	Beta mCi	Tc mCi	U kg
4/2/2007	12.7	41	51	11.90	0.079	0.255	0.317	0.074
4/9/2007	10.6	17	16	8.72	0.068	0.106	0.104	0.056
4/16/2007	7.5	28	20	7.66	0.051	0.191	0.135	0.052
4/23/2007	7.3	91	121	6.22	0.034	0.424	0.565	0.029
4/30/2007	11.8	48	63	5.38	0.057	0.232	0.307	0.026
5/7/2007	< 5.0	13	< 9	2.60	0.028	0.071	< 0.051	0.014
5/14/2007	5.7	27	37	3.48	0.024	0.115	0.156	0.015
5/21/2007	10.4	25	13	4.62	0.052	0.126	0.066	0.023
5/28/2007	6.7	11	< 9	2.94	0.031	0.053	< 0.042	0.014
6/4/2007	4.9	22	18	3.06	0.025	0.110	0.088	0.015
6/11/2007	6.3	16	< 9	2.56	0.031	0.079	< 0.046	0.013
6/18/2007	< 7.0	33	50	2.16	0.033	0.159	0.236	0.010
6/25/2007	< 5.5	27	30	3.18	0.037	0.180	0.200	0.021
Total	< 101.4	398	< 445	64.48	0.551	2.099	< 2.313	0.363
Average	< 7.8	31	< 34	4.96	0.042	0.161	< 0.178	0.028
Maximum	12.7	91	121	11.90	0.079	0.424	0.565	0.074
Minimum	4.9	11	< 9	2.16	0.024	0.053	< 0.042	0.010
Transuranics '003060507	Am 241 < 0.072	Np 237 < 0.228	Pu 238 < 0.093	Pu 239+240 < 0.129				

**Plant Radiological Discharges to Surface Water
Calendar Year 2007 - 2nd Quarter**

**United States Enrichment Corporation (USEC)
Portsmouth Gaseous Diffusion Plant, Piketon, Ohio**

Outfall 004 / Cooling Tower Blowdown

	Concentrations				Loadings			
	Alpha pCi/l	Beta pCi/l	Tc pCi/l	U ug/l	Alpha mCi	Beta mCi	Tc mCi	U kg
4/2/2007	< 5.0	18	< 9	0.55	0.0078	0.43	AA	0.013
4/9/2007	< 5.3	18	< 9	0.47	0.0065	0.43	AA	0.011
4/16/2007	< 5.1	19	< 9	0.61	0.0082	0.42	AA	0.014
4/23/2007	< 4.4	16	< 9	0.55	0.0071	0.34	AA	0.012
4/30/2007	< 4.4	20	< 9	0.52	0.0067	0.43	AA	0.011
5/7/2007	< 4.4	19	< 9	0.58	0.0073	0.39	AA	0.012
5/14/2007	< 4.5	18	< 9	0.59	0.0079	0.40	AA	0.013
5/21/2007	< 5.1	20	< 9	0.43	0.0065	0.50	AA	0.011
5/28/2007	< 5.5	19	< 9	0.51	0.0065	0.40	AA	0.011
6/4/2007	< 4.1	14	< 9	0.73	0.0095	0.31	AA	0.016
6/11/2007	< 4.0	18	< 9	0.54	0.0075	0.42	AA	0.013
6/18/2007	< 6.5	16	< 9	0.50	0.0070	0.37	AA	0.012
6/25/2007	< 5.1	18	< 9	0.52	0.0071	0.42	AA	0.012
Total	< 63.4	233	< 118	7.10	0.0955	5.27	AA	0.159
Average	< 4.9	18	< 9	0.55	0.0073	0.41	AA	0.012
Maximum	< 6.5	20	< 9	0.73	0.0095	0.50	AA	0.016
Minimum	< 4.0	14	< 9	0.43	0.0065	0.31	AA	0.011
Transuranics	Am 241	Np 237	Pu 238	Pu 239+240				
'004060507	< 0.102	< 0.174	< 0.073	< 0.024				

**Plant Radiological Discharges to Surface Water
Calendar Year 2007 - 2nd Quarter**

**United States Enrichment Corporation (USEC)
Portsmouth Gaseous Diffusion Plant, Piketon, Ohio**

Outfall 005 / X-611B Lime Sludge Lagoon

	Concentrations				Loadings			
	Alpha pCi/l	Beta pCi/l	Tc pCi/l	U ug/l	Alpha mCi	Beta mCi	Tc mCi	U kg
4/2/2007	AL	AL	AL	AL	AL	AL	AL	AL
4/9/2007	AL	AL	AL	AL	AL	AL	AL	AL
4/16/2007	AL	AL	AL	AL	AL	AL	AL	AL
4/23/2007	AL	AL	AL	AL	AL	AL	AL	AL
4/30/2007	AL	AL	AL	AL	AL	AL	AL	AL
5/7/2007	AL	AL	AL	AL	AL	AL	AL	AL
5/14/2007	AL	AL	AL	AL	AL	AL	AL	AL
5/21/2007	AL	AL	AL	AL	AL	AL	AL	AL
5/28/2007	AL	AL	AL	AL	AL	AL	AL	AL
6/4/2007	AL	AL	AL	AL	AL	AL	AL	AL
6/11/2007	AL	AL	AL	AL	AL	AL	AL	AL
6/18/2007	AL	AL	AL	AL	AL	AL	AL	AL
6/25/2007	AL	AL	AL	AL	AL	AL	AL	AL
Total	AL	AL	AL	AL	AL	AL	AL	AL
Average	AL	AL	AL	AL	AL	AL	AL	AL
Maximum	AL	AL	AL	AL	AL	AL	AL	AL
Minimum	AL	AL	AL	AL	AL	AL	AL	AL
Transuranics	Am 241 AL	Np 237 AL	Pu 238 AL	Pu 239+240 AL				

**Plant Radiological Discharges to Surface Water
Calendar Year 2007 - 2nd Quarter**

**United States Enrichment Corporation (USEC)
Portsmouth Gaseous Diffusion Plant, Piketon, Ohio**

Outfall 009 / X-230L North Holding Pond

	Concentrations				Loadings			
	Alpha pCi/l	Beta pCi/l	Tc pCi/l	U ug/l	Alpha mCi	Beta mCi	Tc mCi	U kg
4/2/2007	< 6.3	10	< 9	6.56	0.054	0.139	AA	0.091
4/9/2007	< 6.1	7	< 9	5.62	0.026	0.051	AA	0.043
4/16/2007	< 5.5	< 7	< 9	5.13	0.055	< 0.126	AA	0.091
4/23/2007	< 4.8	< 5	< 9	5.95	0.016	< 0.024	AA	0.027
4/30/2007	5.5	< 7	< 9	5.10	0.037	< 0.050	AA	0.034
5/7/2007	< 4.7	< 8	< 9	4.42	0.020	< 0.056	AA	0.033
5/14/2007	< 4.6	< 8	< 9	4.54	0.010	< 0.027	AA	0.016
5/21/2007	< 5.2	< 7	< 9	4.30	0.016	< 0.044	AA	0.026
5/28/2007	6.5	< 6	< 9	4.05	0.021	< 0.018	AA	0.013
6/4/2007	4.4	< 6	< 9	4.28	0.017	< 0.023	AA	0.017
6/11/2007	5.0	< 5	< 9	3.57	0.030	< 0.032	AA	0.022
6/18/2007	< 6.3	< 6	< 9	3.67	0.014	< 0.040	AA	0.023
6/25/2007	< 5.2	6	< 9	3.94	0.017	0.042	AA	0.028
Total	< 70.1	< 88	< 119	61.13	0.332	< 0.674	AA	0.463
Average	< 5.4	< 7	< 9	4.70	0.026	< 0.052	AA	0.036
Maximum	6.5	10	< 9	6.56	0.055	0.139	AA	0.091
Minimum	4.4	< 5	< 9	3.57	0.010	< 0.018	AA	0.013
Transuranics '009060507	Am 241 < 0.069	Np 237 < 0.135	Pu 238 < 0.055	Pu 239+240 0.080				

**Plant Radiological Discharges to Surface Water
Calendar Year 2007 - 2nd Quarter**

**United States Enrichment Corporation (USEC)
Portsmouth Gaseous Diffusion Plant, Piketon, Ohio**

Outfall 010 / X-230J-5 Northwest Holding Pond

	Concentrations				Loadings			
	Alpha pCi/l	Beta pCi/l	Tc pCi/l	U ug/l	Alpha mCi	Beta mCi	Tc mCi	U kg
4/2/2007	< 5.5	< 6	< 9	2.91	0.0212	< 0.067	AA	0.0353
4/9/2007	< 5.9	< 5	< 9	2.51	0.0121	< 0.042	AA	0.0201
4/16/2007	< 6.0	< 7	< 9	2.06	0.0148	< 0.087	AA	0.0247
4/23/2007	< 4.7	< 5	< 9	2.37	0.0085	< 0.032	AA	0.0142
4/30/2007	< 4.6	< 7	< 9	1.82	0.0072	< 0.049	AA	0.0120
5/7/2007	< 4.3	< 8	< 9	1.18	0.0056	< 0.060	AA	0.0094
5/14/2007	< 4.5	< 8	< 9	1.36	0.0041	< 0.038	AA	0.0068
5/21/2007	< 5.1	< 7	< 9	1.39	0.0045	< 0.039	AA	0.0075
5/28/2007	< 5.4	< 6	< 9	1.12	0.0032	< 0.027	AA	0.0053
6/4/2007	< 4.1	< 6	< 9	1.18	0.0037	< 0.031	AA	0.0062
6/11/2007	< 3.8	< 5	< 9	1.08	0.0040	< 0.033	AA	0.0066
6/18/2007	< 6.3	< 6	< 9	1.12	0.0033	< 0.031	AA	0.0055
6/25/2007	< 4.7	< 5	< 9	1.66	0.0083	< 0.044	AA	0.0138
Total	< 64.9	< 82	< 119	21.76	0.1005	< 0.579	AA	0.1674
Average	< 5.0	< 6	< 9	1.67	0.0077	< 0.045	AA	0.0129
Maximum	< 6.3	< 8	< 9	2.91	0.0212	< 0.087	AA	0.0353
Minimum	< 3.8	< 5	< 9	1.08	0.0032	< 0.027	AA	0.0053
Transuranics '010060507	Am 241 < 0.065	Np 237 < 0.085	Pu 238 < 0.048	Pu 239+240 < 0.048				

**Plant Radiological Discharges to Surface Water
Calendar Year 2007 - 2nd Quarter**

**United States Enrichment Corporation (USEC)
Portsmouth Gaseous Diffusion Plant, Piketon, Ohio**

Outfall 011 / X-230J-6 Northeast Holding Pond

	Concentrations				Loadings			
	Alpha pCi/l	Beta pCi/l	Tc pCi/l	U ug/l	Alpha mCi	Beta mCi	Tc mCi	U kg
4/2/2007	< 5.6	< 6	< 9	1.41	0.00044	< 0.0029	AA	0.00074
4/9/2007	< 5.9	< 5	< 9	1.29	0.00021	< 0.0014	AA	0.00035
4/16/2007	< 5.2	< 7	< 9	1.06	0.00052	< 0.0058	AA	0.00086
4/23/2007	< 4.8	< 5	< 9	1.22	0.00011	< 0.0008	AA	0.00019
4/30/2007	< 4.6	< 7	< 9	1.02	0.00012	< 0.0014	AA	0.00020
5/7/2007	< 4.6	< 8	< 9	0.99	0.00017	< 0.0022	AA	0.00029
5/14/2007	< 4.7	8	< 9	1.09	0.00008	0.0010	AA	0.00013
5/21/2007	< 5.3	< 7	< 9	1.04	0.00006	< 0.0007	AA	0.00010
5/28/2007	< 5.7	6	< 9	1.21	0.00006	0.0005	AA	0.00010
6/4/2007	< 4.2	< 6	< 9	1.27	0.00007	< 0.0005	AA	0.00012
6/11/2007	< 3.8	6	< 9	0.82	0.00007	0.0009	AA	0.00012
6/18/2007	< 6.5	< 7	< 9	0.93	0.00006	< 0.0007	AA	0.00011
6/25/2007	< 4.8	< 5	< 9	0.82	0.00020	< 0.0022	AA	0.00034
Total	< 65.7	< 83	< 119	14.17	0.00218	< 0.0211	AA	0.00364
Average	< 5.1	< 6	< 9	1.09	0.00017	< 0.0016	AA	0.00028
Maximum	< 6.5	8	< 9	1.41	0.00052	< 0.0058	AA	0.00086
Minimum	< 3.8	< 5	< 9	0.82	0.00006	< 0.0005	AA	0.00010
Transuranics	Am 241	Np 237	Pu 238	Pu 239+240				
'011060507	< 0.024	< 0.076	< 0.052	< 0.105				

**Plant Radiological Discharges to Surface Water
Calendar Year 2007 - 2nd Quarter**

**United States Enrichment Corporation (USEC)
Portsmouth Gaseous Diffusion Plant, Piketon, Ohio**

Outfall 012 / X-2230M Southwest Holding Pond

	Concentrations				Loadings			
	Alpha pCi/l	Beta pCi/l	Tc pCi/l	U ug/l	Alpha mCi	Beta mCi	Tc mCi	U kg
4/2/2007	< 3.0	< 5	< 9	1.18	0.00696	< 0.0470	AA	0.01160
4/9/2007	< 3.9	< 5	< 9	0.86	0.00250	< 0.0256	AA	0.00417
4/16/2007	< 3.9	< 5	< 9	0.82	0.00659	< 0.0710	AA	0.01099
4/23/2007	< 3.8	< 5	< 9	0.71	0.00104	< 0.0129	AA	0.00173
4/30/2007	< 5.0	< 8	< 9	1.11	0.00174	< 0.0195	AA	0.00290
5/7/2007	< 4.3	< 7	< 9	0.98	0.00302	< 0.0375	AA	0.00504
5/14/2007	< 2.8	< 5	< 10	0.94	0.00066	< 0.0058	AA	0.00110
5/21/2007	< 3.0	6	< 9	1.16	0.00070	0.0056	AA	0.00116
5/28/2007	< 3.0	7	< 9	1.28	0.00051	0.0047	AA	0.00085
6/4/2007	< 2.9	< 5	< 9	1.43	0.00072	< 0.0042	AA	0.00121
6/11/2007	< 6.4	< 6	< 9	1.35	0.00104	< 0.0071	AA	0.00173
6/18/2007	< 6.2	< 6	< 9	1.17	0.00034	< 0.0026	AA	0.00056
6/25/2007	< 6.5	< 7	< 9	0.90	0.00119	< 0.0157	AA	0.00199
Total	< 54.7	< 76	< 121	13.89	0.02702	< 0.2591	AA	0.04503
Average	< 4.2	< 6	< 9	1.07	0.00208	< 0.0199	AA	0.00346
Maximum	< 6.5	< 8	< 10	1.43	0.00696	< 0.0710	AA	0.01160
Minimum	< 2.8	< 5	< 9	0.71	0.00034	< 0.0026	AA	0.00056
Transuranics NA	Am 241	Np 237	Pu 238	Pu 239+240				

**Plant Radiological Discharges to Surface Water
Calendar Year 2007 - 2nd Quarter**

**United States Enrichment Corporation (USEC)
Portsmouth Gaseous Diffusion Plant, Piketon, Ohio**

Outfall 013 / X-2230N West Holding Pond

	Concentrations				Loadings			
	Alpha pCi/l	Beta pCi/l	Tc pCi/l	U ug/l	Alpha mCi	Beta mCi	Tc mCi	U kg
4/2/2007	< 3.7	5	< 9	1.24	0.00653	0.0430	AA	0.01088
4/9/2007	< 5.0	< 5	< 9	1.17	0.00243	< 0.0188	AA	0.00405
4/16/2007	< 4.8	< 5	< 9	1.12	0.00741	< 0.0594	AA	0.01235
4/23/2007	< 4.5	6	< 9	1.24	0.00130	0.0096	AA	0.00216
4/30/2007	< 5.1	< 8	< 9	1.28	0.00721	< 0.0702	AA	0.01201
5/7/2007	< 5.3	< 8	< 9	1.09	0.00185	< 0.0213	AA	0.00308
5/14/2007	< 3.1	< 5	< 10	0.77	0.00044	< 0.0047	AA	0.00074
5/21/2007	< 3.4	5	< 9	1.04	0.00085	0.0069	AA	0.00141
5/28/2007	3.8	< 5	< 9	1.23	0.00222	< 0.0030	AA	0.00073
6/4/2007	< 3.5	5	< 9	1.27	0.00064	0.0044	AA	0.00107
6/11/2007	< 7.1	< 6	< 9	0.84	0.00080	< 0.0089	AA	0.00133
6/18/2007	< 6.8	< 6	< 9	0.71	0.00015	< 0.0019	AA	0.00025
6/25/2007	< 6.6	< 7	< 9	0.45	0.00074	< 0.0197	AA	0.00124
Total	< 62.7	< 75	< 121	13.45	0.03255	< 0.2719	AA	0.05129
Average	< 4.8	< 6	< 9	1.03	0.00250	< 0.0209	AA	0.00395
Maximum	< 7.1	< 8	< 10	1.28	0.00741	< 0.0702	AA	0.01235
Minimum	< 3.1	< 5	< 9	0.45	0.00015	< 0.0019	AA	0.00025
Transuranics NA	Am 241	Np 237	Pu 238	Pu 239+240				

**Plant Radiological Discharges to Surface Water
Calendar Year 2007 - 2nd Quarter**

**United States Enrichment Corporation (USEC)
Portsmouth Gaseous Diffusion Plant, Piketon, Ohio**

NOTES

Weekly concentrations and loadings with quarterly summaries are presented for Gross Alpha Activity, Gross Beta Activity, Technetium-99 (beta) Activity and Total Uranium Concentration. These figures are based on seven-day composite samples and measured flows at each outfall except at Outfall 005. Since Outfall 005 historically had no discharge, there is no composite sampler there and effluent data is based on grab samples and manual measurements taken when there is an actual discharge.

Starting in May, 2006, USEC began monitoring weekly radiological discharges at Outfalls 012 and 013 in accordance with the NRC License for the Lead Cascade of the American Centrifuge Plant. These two outfalls remain under the control of DOE and regulated under DOE's NPDES Permit. USEC is reporting the results of its weekly monitoring voluntarily. DOE is continuing its own monitoring and reporting in accordance with its Permit.

Quarterly concentrations are presented for Americium-241, Neptunium-237, Plutonium-238, Plutonium 239 and Plutonium 240 for the USEC Outfalls. (All of these are transuranics. Plutonium 239 and Plutonium 240 activities are reported as a combined activity because the analytical method used cannot distinguish them.) These figures are based on quarterly grab samples.

Weekly concentrations that are below the Minimum Detectable Activity (MDA) or Laboratory Limit of Detection (LLD) are indicated by a "less than" (<) prefix ahead of the numerical MDA/LLD. MDA/LLDs vary somewhat from sample to sample depending on interferences present and other conditions.

Weekly loadings that correspond to less than MDA/LLD concentrations are calculated based on the MDA/LLD value and prefixed with a "<" except as follows: Technetium loadings at Outfalls 002, 004, 005, 009, 010, 011, 012 and 013 are presumed to be zero unless actually detected, based on the historical absence of technetium in these outfalls. These loadings are coded as "AA" unless actually detected.

Loadings are not calculated for transuranics because measurable transuranic concentrations are not normally present in any USEC-leased outfall.

AA indicates no detectable concentration.

AL indicates no flow during the sampling period.