



October 21, 2005  
AET 05-0076

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

**American Centrifuge Plant  
Docket Number 70-7004  
Submittal of Revision 6 of the Decommissioning Funding Plan for the American  
Centrifuge Plant (TAC Nos. L32306, L32307, and L320308) - Non-Proprietary**

Dear Mr. Strosnider:

USEC Inc. (USEC) hereby submits to the U.S. Nuclear Regulatory Commission (NRC) Revision 6 of the Decommissioning Funding Plan for the American Centrifuge Plant. Enclosure 1 provides changed pages for the Decommissioning Funding Plan that makes an administrative correction to Table C3.19. Revision bars in the right hand margin depict changes from the previous version submitted to the NRC.

If you have any questions regarding this matter, please contact Peter J. Miner at (301) 564-3470.

Sincerely,

Steven A. Toelle  
Director, Nuclear Regulatory Affairs

cc: Y. Faraz, NRC HQ  
B. Smith, NRC HQ

Enclosure: As Stated

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*Handwritten:* Rec'd 11/23/05  
D&D

**Enclosure 1 to AET 05-0076**

**Submittal of Changed Pages for the Decommissioning Funding Plan**

**(Non-Proprietary Information)**

**Enclosure 1 of AET 05-0076**

**Remove/Insert Instructions**

<b>Remove</b> (and properly destroy)	<b>Insert</b>
NR-3605-0006, Decommissioning Funding Plan	
Cover Page – Revision 5	Cover Page – Revision 6
Inside Cover Page – Revision 5	Inside Cover Page – Revision 6
ULOEP-1/ULOEP-2	ULOEP-1/ULOEP-2
Appendix C: pages C-21/C-22	Appendix C: pages C-21/C-22

# **Decommissioning Funding Plan**

## **for the American Centrifuge Plant**

**in Piketon, Ohio**



Revision 6

Docket No. 70-7004

Information contained within  
does not contain  
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October 2005

Reviewer: D. Hupp  
Date: 10/19/05

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NR-3605-0006

**DECOMMISSIONING FUNDING PLAN  
for the American Centrifuge Plant  
in Piketon, Ohio**

**Docket No. 70-7004**

**Revision 6**

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**UPDATED LIST OF EFFECTIVE PAGES**

Revision 0 – 10 CFR 1045 review completed by L. Sparks on 07/29/04 and the Export Controlled Information review completed by R. Coriell on 07/30/04.

Revision 1 – 10 CFR 1045 review completed by L. Sparks on 03/07/05 and the Export Controlled Information review completed by R. Coriell on 03/10/05.

Revision 2 – 10 CFR 1045 review completed by J. Weidner on 05/23/05 and the Export Controlled Information review completed by R. Coriell on 05/23/05.

Revision 3 – 10 CFR 1045 review completed by J. Weidner on 06/21/05 and the Export Controlled Information review completed by D. Hupp on 06/21/05.

Revision 4 – 10 CFR 1045 review completed by J. Weidner on 08/30/05 and the Export Controlled Information review completed by D. Hupp on 08/30/05.

Revision 5 – 10 CFR 1045 review completed by J. Weidner on 09/02/05 and the Export Controlled Information review completed by R. Coriell on 09/02/05.

Revision 5 – 10 CFR 1045 review completed by J. Weidner on 10/19/05 and the Export Controlled Information review completed by D. Hupp on 10/19/05.

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ULOEP-1	6	C-2	0
ULOEP-2	1	C-3	1
i	5	C-4	4
ii	0	C-5	4
1	5	C-6	4
2	1	C-7	4
3	3	C-8	1
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5	5	C-10	1
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8	0	C-13	2
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A-4	0	C-17	1
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B-1	0	C-20	5
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Table C3.19 Estimated Volume of Annual Depleted Uranium Generated

Calendar Year	[Q] # Machines	[R] DUF <sub>6</sub> Generated [1,000 MT]	[S] DUF <sub>6</sub> Accumulated [1,000 MT]	[T] DU Generated [1,000 MT]	[U] Tails Disposal Cost [\$M, 2004]	[V] # Tails Cylinders
2006	200	0	0	0	\$0	0
2007	120	0.099	0.099	0.067	\$323,722	8
2008	2,700	2.23	2.33	1.51	\$7,283,754	179
2009	7,300	6.03	8.36	4.08	\$19,693,114	483
2010	11,520	9.52	17.88	6.43	\$31,077,352	763
2011-2036	11,520	247.43	265.30	167.29	\$808,011,156	19,836
Total		265.30	265.30	179.38	\$866,389,098	21,269

**Assumptions:** Operational (license) life = 30 years (from 2006 - 2036); 365 days/yr; 24 hr/day  
 Tails Output during Operation (@ 3,500 MTSWU/yr) = 2,395 lbs. UF<sub>6</sub>/hr  
 Weight Conversion Factor = 0.45359 kg/lb; Tails Material Conversion Factor = 0.30668 kg/lb UF<sub>6</sub>; Tails Purity = 0.67612 gU/g; based upon 0.35% Average Tails  
 U disposal cost = \$4.83/kg U  
 $R = Q/11,520 \times \text{number of years} \times 2,395 \times 24 \times 365$ ;  $T = R \times 0.67612$ ;  $U = T \times 4.83$   
 $V = R \times 1,000,000 / 0.45359 / 27,500$   
 ~21,269 Tails cylinders generated; 27,500 # UF<sub>6</sub> fill weight = 1,000 generated parent cylinders (@ EOL)

Table C3.20 Total Labor Distribution

Group		Type	Job/Personnel Descriptions
Supervision		Salary	Program Manager, Project Manager, Office Manager, QA/Reg Manager, Rad-Environmental-Safety and Health Manager, FNMCA Manager
Engineering		Salary	Design Engineer, Field Support, NCS Engineer, Nuclear Safety, Regulatory
Operations		Salary	Operations FLM
		Hourly	Chemical Operations, UMH
Maintenance		Salary	Maintenance FLM, Scheduler-Planner
		Hourly	Mechanic, Laborer, Field Service Technician
Support	Plant Support	Salary	HP Support
		Hourly	Protection Forces
	Production Support	Salary	Waste Engineer
		Hourly	Waste Handler

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