

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. I

Y. Faraz, NRC HQ

B. Smith, NRC HQ

Enclosure: As Stated

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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

Remove (and properly destroy)		Insert		
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

Information contained within does not contain

Export Controlled Information

Docket No. 70-7004

Export Controlled Inf Reviewer: <u>D. Hupp</u>

Date: 10/19/05

October 2005

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NR-3605-0006

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

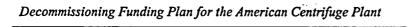
Docket No. 70-7004

Revision 6

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Reviewer: <u>D. Hupp</u>

Date: <u>10/19/05</u>



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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.

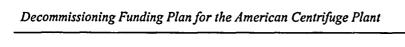
Revision 3 - 10 CFR 1045 review completed by J. Weidner on 06/21/05 and the Export Controlled Information review completed by D. Hupp on 06/21/05.

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.

Page Number	Revision Number	Page Number	Revision Number
Cover Page	6	B-12	1
Inside Cover Page	6	C-1	0
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
4	5	C-9	1
5	5	C-10	1
6	5	C-11	1
7	5	C-12	2
8	0	C-13	2
A-1	0	C-14	1
A-2	0	C-15	1
A-3	0	C-16	1
A-4	0	C-17	1
A-5	1 -	C-18	1
A-6	1	C-19	1
B-1	0	C-20	5
B-2	0	C-21	6
B-3	0	C-22	3
B-4	0	D-1	3
B-5	0	D-2	1
B-6	0	D-3	3
B-7	0	D-4	3
B-8	0		
B-9	0		
B-10	0		
B-11	0		



Revision 1

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Table C3.19 Estimated Volume of Annual Depleted Uranium Generated

Calendar Year	[Q] # Machines	[R] DUF ₆ Generated [1,000 MT]	[S] DUF ₆ 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. UF₆/hr

Weight Conversion Factor = 0.45359 kg/lb; Tails Material Conversion Factor = 0.30668 kg/lb UF₆; Tails Purity =

0.67612 gU/g; based upon 0.35% Average Tails

U disposal cost = \$4.83/kg U

R=Q/11,520*number of years*2,395*24*365; T=R*0.67612; U=T*4.83

V=R*1,000,000/0.45359/27,500

~21,269 Tails cylinders generated; 27,500 # UF₆ fill weight = 1,000 generated parent cylinders (@ EOL)

Table C3.20 Total Labor Distribution

G	roup	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
Operations		Hourly	Chemical Operations, UMH
		Salary	Maintenance FLM, Scheduler-Planner
Maintenance		Hourly	Mechanic, Laborer, Field Service Technician
	Plant Support	Salary	HP Support
		Hourly	Protection Forces
Support	Production	Salary	Waste Engineer
	Support	Hourly	Waste Handler

Information contained within does not contain Export Controlled Information

Reviewer: <u>D. Hupp</u>

Date: <u>10/19/05</u>