

for IEEK's Product #4
Steyn

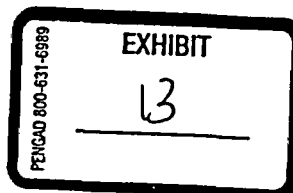
Krich, Rod M.

From: Julian Steyn [steyn@energyresources.com]
Sent: Friday, January 10, 2003 12:36 PM
To: rod.krich@exeloncorp.com
Subject: More Tables

NIRS/PC Prefiled Exhibit 163
Docketed 09/23/05



121602 Table 4 011003 Appendix A 010903 UDS kgU
Summary Costs.x... Table AHF Co... Quans 1st 5 yrs...



LES-01634

TABLE 4						
SUMMARY OF TOTAL ESTIMATED CONVERSION AND DISPOSAL COSTS (UNDISCOUNTED 2002 DOLLARS PER kgU of DUF6)						
Cost Items	AHF Alternative			HF Neutralization Alternative		
	Engineered Trench	Concrete Vault	Mined Cavity	Engineered Trench	Concrete Vault	Mined Cavity
DUF6 Conversion to DU3O8	2.64	2.64	2.64	3.39	3.39	3.39
Waste Preparation & Disposal	1.46	2.17	7.1	1.46	2.17	7.1
DUF6 & DU3O8 Transportation	0.25	0.25	0.25	0.25	0.25	0.25
Total Cost	4.35	5.06	9.99	5.1	5.81	10.74

TABLE A-1
UNDISCOUNTING CALCULATION FOR LLNL AHF ALTERNATIVE COST ESTIMATES

		Disc Multiplier		AHF ALTERNATIVE				Total
1996		7% Reciprocal		O&M	D&D	Regul.	Capital	
				134.76	1.76	22.7	107.73	266.95
Year				Undiscounted Costs in 96\$				
1	2009	2.410	0.415	28.6		54.7	259.6	
2	2010	2.579	0.388	28.6				
3	2011	2.759	0.362	28.6				
4	2012	2.952	0.339	28.6				
5	2013	3.159	0.317	28.6				
6	2014	3.380	0.296	28.6				
7	2015	3.617	0.277	28.6				
8	2016	3.870	0.258	28.6				
9	2017	4.141	0.242	28.6				
10	2018	4.430	0.226	28.6				
11	2019	4.741	0.211	28.6				
12	2020	5.072	0.197	28.6				
13	2021	5.427	0.184	28.6				
14	2022	5.807	0.172	28.6				
15	2023	6.214	0.161	28.6				
16	2024	6.649	0.150	28.6				
17	2025	7.114	0.141	28.6				
18	2026	7.612	0.131	28.6				
19	2027	8.145	0.123	28.6				
20	2028	8.715	0.115	28.6	15.34			
Total 96\$				573.0	15.34	54.70	259.61	902.63
per kgU 19,000 kgU/Yr				1.5	0.04	0.14	0.68	2.38
Total 02\$ 11% GDP IDP				636.0	17.03	60.72	288.17	1001.92
per kgU 19,000 kgU/Yr				1.7	0.04	0.16	0.76	2.64

Assumptions

1. 20 year operation, first year 2009
2. 19 million KgU per year processed
3. All capital and regulatory costs take place in first year
4. O&M costs evenly divided over 20 operating years
5. All D&D costs in final year
6. Original costs provided in 1996\$ discounted at 7%

UDS CONTRACT FACTS

	kgDUF6	kgU
FY 2005 (Aug.-Sept>)	1.05	0.710
FY 2006	27.825	18.810
FY 2007	31.25	21.125
FY 2008	31.25	21.125
FY 2009	31.25	21.125
FY 2010 (Oct.-July)	26.25	17.745
Total:	148.875	100.640
Production (Million kgU/year)		21.3
UDS Contract Costs:	Dollars	
Design,permitting,management, etc	27988709	
Construct Paducah conversion facility	93955874	
Construct Portsmouth conversion facility	90401868	
Operations for first 5 years DUF6 & DU3O8	283229348	
	495575799	
Capital Cost w/o Fee	212346451	
Capital Cost with Fee	239102104	
For 6% Gov & 12% ROI, 25 Yrs,No tax	\$0.76/kgU	
Operating cost in 2002\$ (approx)	\$2.78/kgU	
Total	\$3.54/kgU	
DOE Press Release Total Cost	558000000	
Difference is maximum fee	62424201	12.60