For Bunder 4 Itérs les para

Krich, Rod M.

From: Sent: To: Subject:

÷.,

Julian Steyn [steyn@energyresources.com] Friday, January 10, 2003 12:35 PM rod.krich@exeloncorp.com DUF6 re Conf Call Today





010703 Table 1 010803 Table 2 010703 Table 3 DUF6 LLNL Conv ... Conv Cap Op & R....DU308 LLNL Disp...

Rod: Replacement tables --- last two arestill drafty. Julian.

NIRS/PC Prefiled Exhibit 162 Docketed 09/23/05

EXHIBIT

LES-01630

ENCAD 800-631-698

LLNL-ESTIMATED LIFE-CYCLE COSTS FOR DOE DUF6 TO DU308 CONVERSION (a) (MILLION DOLLARS FOR 378,600 MTU OF DUF6 OVER 20 YEARS; DISCOUNTED 1996 DOLLARS)					
Conversion Capital & Operating Activities	AHF Conversion Alternative	HF Neutralization Conversion Alternat			
Techology Development	9.84	5.74			
Process Equipment	22.36	20.88			
Process facilities	46.33	45.53			
Balance of Plant	29.20	30.25			
Regulatory Compliance	22.70	22.70			
Operations & Maintenance	134.76	198.40			
Decontamination & Decommissioning	1.76	1.73			
Total Discounted Costs:	266.95	325.23			
Total Undiscounted Costs:	902.6	1160.1			
Undiscounted Unit Costs (\$/kgU):	·	· · ·			
TOTAL (1996 Dollars)	2.38	3.05			
TOTAL (2002 Dollars per GDP IPD)	2.64	3.39			

AHF: Assumes sale of anhydrous hydrogen fluoride; \$77.32 million credit assumed. HF: Assumes sale of calcium fluoride (CAF2) produced from hydrogen fluoride (HF); \$11.02 million credit assumed.

LES-01631

and the second second	TABLE	2	ак., <u>с</u>	
SUMMARY OF LLNL-ESTIMA UNIT COSTS FOR I (UNDISCOUNTED D	DOE DUF6 TO	DU308 CON	IVERSION (a)	
· ·	AHF Alternative		HF Neutralization Iternative	
Cost Breakdown	1996\$	2002\$	1996\$	2002\$
Capital (b)	0.72	0.80	0.69	0.76
Operating & Maintenance	1.51	1.67	2.22	2.46
Regulatory Compliance	0.14	0.16	0.14	0.1 Ő
Total:	2.37	2.63	3.05	3.38
 (a) Unit costs based on Table 1 cost (b) Technology development, proces of plant, and decontamination & c 	s equipment, j		es, balance	
Note: Summation may be affected b	y rounding.	• .		· · · ·

: : :

er en en en en

LES-01632

	DU3O8 Disposal Alternatives			
DU3O8 Disposal Capital & Operating Activities	Engineered Trench	Concrete Vault	Mined Cavity (UG Mine)	
Waste Form Preparation (a):		······		
Techology Development	6.56	6.56	8.20	
Balance of Plant	26.43	26.43	26.43	
Regulatory Compliance	2.02	2.02	2.02	
Operations & Maintenance	33.23	33.23	33.23	
Decontamination & Decommissioning	0.60	0.60	0.60	
Subtotal	68.84	68.84	70.48	
Waste Disposal (b):			-	
Facility Engineering & Construction	12.22	96.08	409.02	
Site Preparation & Restoration	0.89	1.68	19.21	
Emplacement & Closure	30.61	39.2	248.88	
Regulatory Compliance	40.35	40.35	40.35	
Surveillance & Maintenance	2.29	2.86	2.21	
Subtotal	86.36	180.17	719.67	
Preparation & Disposal Discounted Total Costs:	155.20	249.01	790.15	
Preparation & Disposal Undiscounted Total Costs:	499.60	742.50	2431.60	
Undiscounted Unit Costs (\$/kgU):				
TOTAL (1996 Dollars)	1.31	1.95	6.40	
TOTAL (2002 Dollars per GDP IPD)	1.46	2.17	7.10	

LES-01633

E 31