

RAS 11247

LES assumptions, April 8, 2005, except as stated

~~PROPRIETARY MATERIAL~~

Cost element	
Total capital cost, \$	-8.80E+07
Capital charge rate, mix of equity and loan (IEER), low risk	0.1
Years	16
Cost escalator (LES Oct 24, 2005)	0.03
HF neutralization, unescalated, \$/kgU (Urenco)	0.32275
CaF2 disposal, S/kgU, LES assumption	0.02

Estimates	
Annualized payment on capital (equity plus loan)	
O&M mostly labor	
D&D	
HF neutralization	
CaF2 disposal	
Total annual costs	
Present value, 3% discount rate	3.91E+08
Cost per kg, PV, deconversion only, subtotal	3.49E+00

For CaF2 costs at \$2.00/kg U, disposal as LLW 5.47E+00

PV of cost of capital alone	1.43E+08
PV of cost of capital alone, per kg U	1.28E+00
PV cost of capital with capital cost escalated by 30% (Urenco contingency)	1.66E+00
Increase in cost per kg due to contingency for capital cost	3.83E-01

Present value of LES stream escalated at 3% and discounted at 3%, per kgU	2.67
Deficit per kg U	8.19E-01
Deficit, PV, over 7 million kg per year 16 years	9.17E+07

Annual extra O&M claimed by LES, escalated at 3%	
PV of annual extra O&M, 16 years	6.40E+07
Total PV of capital costs	1.43E+08
Deficit	7.89E+07

180

U.S. NUCLEAR REGULATORY COMMISSION

In the Matter of Louisiana Energy Services, L.P.

Docket No. 70-3103-M6 Official Exhibit No. 280

OFFERED by: Applicant/Licensee URS/AC Intervenor URS/AC

NRC Staff      Other

IDENTIFIED on 2/13/06 Witness/Panel Maknyani

Action Taken: ADMITTED REJECTED WITHDRAWN

Reporter/Clerk Bethany Engel

	Year	Year	Year	Year
	1	2	3	4
	1.10E+07	1.10E+07	1.10E+07	1.10E+07
	1.25E+07	1.29E+07	1.33E+07	1.37E+07
	5.60E+05	5.77E+05	5.94E+05	6.12E+05
	2.26E+06	2.33E+06	2.40E+06	2.47E+06
	1.40E+05	1.44E+05	1.49E+05	1.53E+05
	2.65E+07	2.70E+07	2.75E+07	2.80E+07
	2.65E+07	2.62E+07	2.59E+07	2.56E+07
	1.10E+07	1.07E+07	1.04E+07	1.01E+07
	4.00E+06	4.12E+06	4.24E+06	4.37E+06

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OFFICE OF THE SECRETARY  
HEARINGS AND  
ADJUDICATIONS STAFF

Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16
1.10E+07	1.10E+07	1.10E+07	1.10E+07	1.10E+07	1.10E+07	1.10E+07	1.10E+07	1.10E+07	1.10E+07	1.10E+07	1.10E+07
1.41E+07	1.45E+07	1.50E+07	1.54E+07	1.59E+07	1.63E+07	1.68E+07	1.73E+07	1.79E+07	1.84E+07	1.90E+07	1.95E+07
6.30E+05	6.49E+05	6.69E+05	6.89E+05	7.09E+05	7.31E+05	7.53E+05	7.75E+05	7.98E+05	8.22E+05	8.47E+05	8.72E+05
2.54E+06	2.62E+06	2.70E+06	2.78E+06	2.86E+06	2.95E+06	3.04E+06	3.13E+06	3.22E+06	3.32E+06	3.42E+06	3.52E+06
1.58E+05	1.62E+05	1.67E+05	1.72E+05	1.77E+05	1.83E+05	1.88E+05	1.94E+05	2.00E+05	2.06E+05	2.12E+05	2.18E+05
2.85E+07	2.90E+07	2.95E+07	3.01E+07	3.07E+07	3.13E+07	3.19E+07	3.25E+07	3.31E+07	3.38E+07	3.45E+07	3.52E+07
2.53E+07	2.50E+07	2.47E+07	2.45E+07	2.42E+07	2.40E+07	2.37E+07	2.35E+07	2.32E+07	2.30E+07	2.28E+07	2.26E+07
9.81E+06	9.53E+06	9.25E+06	8.98E+06	8.72E+06	8.46E+06	8.22E+06	7.98E+06	7.75E+06	7.52E+06	7.30E+06	7.09E+06
4.50E+06	4.64E+06	4.78E+06	4.92E+06	5.07E+06	5.22E+06	5.38E+06	5.54E+06	5.70E+06	5.87E+06	6.05E+06	6.23E+06

Interest cost per kg in LES spreadsheet of Dec 05

Present value per kg U

Total for 7 million kg per year for 16 years

PV cost of capital per kg U implied by LES spreadsheet to be added to \$2.67

4.00E-01	4.00E-01	4.00E-01	4.00E-01
4.00E-01	3.88E-01	3.77E-01	3.66E-01
3.62E+07	2.80E+06	2.72E+06	2.64E+06
2.97E-01			2.56E+06

4.00E-01	4.00E-01	4.00E-01	4.00E-01	4.00E-01	4.00E-01	4.00E-01	4.00E-01	4.00E-01	4.00E-01	4.00E-01	4.00E-01	4.00E-01
3.55E-01	3.45E-01	3.35E-01	3.25E-01	3.16E-01	3.07E-01	2.98E-01	2.89E-01	2.81E-01	2.72E-01	2.64E-01	2.57E-01	
2.49E+06	2.42E+06	2.34E+06	2.28E+06	2.21E+06	2.15E+06	2.08E+06	2.02E+06	1.96E+06	1.91E+06	1.85E+06	1.80E+06	