

RAS 11247

LES assumptions, April 8, 2005, except as stated

~~PROPRIETARY MATERIAL~~

Cost element

Total capital cost, \$

Capital charge rate, mix of equity and loan (IEER), low risk

Years

Cost escalator (LES Oct 24, 2005)

HF neutralization, unescalated, \$/kgU (Urenco)

CaF2 disposal, S/kgU, LES assumption

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

Cost per kg, PV, deconversion only, subtotal

For CaF2 costs at \$2.00/kg U, disposal as LLW

PV of cost of capital alone

PV of cost of capital alone, per kg U

PV cost of capital with capital cost escalated by 30% (Urenco contingency)

Increase in cost per kg due to contingency for capital cost

Present value of LES stream escalated at 3% and discounted at 3%, per kgU

Deficit per kg U

Deficit, PV, over 7 million kg per year 16 years

Annual extra O&M claimed by LES, escalated at 3%

PV of annual extra O&M, 16 years

Total PV of capital costs

Deficit

-8.80E+07

0.1

16

0.03

0.32275

0.02

3.91E+08

3.49E+00

5.47E+00

1.43E+08

1.28E+00

1.66E+00

3.83E-01

2.67

8.19E-01

9.17E+07

6.40E+07

1.43E+08

7.89E+07

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 Intervenor NRS/AC

NRC Staff

Other

IDENTIFIED on 2/13/06 Witness/Panel Maknyan

Action Taken: ADMITTED REJECTED WITHDRAWN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

1.28E+00

1.66E+00

3.83E-01

4.00E+06 4.12E+06 4.24E+06 4.37E+06

ADMINISTRATIVE INFORMATION

DOCKETED  
USNRC

2006 MAR 13 PM 3: 25

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 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	