

APPENDIX G: DATA CALL FOR THE CISF ENVIRONMENTAL REPORT – JANUARY 2017

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G-1	

Cost-Benefit Analysis Data Call – January 2017

This appendix is a summary of the information Tetra-Tech requested from Holtec to support preparation of the Cost-Benefit Analysis. The questions from Tetra-Tech are in bold font and the responses from Holtec are in regular font.

Construction Costs

1. Cost to acquire land

Holtec response: \$1M - Not purchased yet

2. Facility construction costs for Phase 1 (if possible, describe method used to estimate capital costs; also, specify whether this is materials only or includes labor, taxes, etc.)

Holtec response: Prices include 1% Bonding, Construction Costs, 3% inflation/year (to year 2020), 20% price increase due to location (as recommended in the GNEP site study). Numbers generated from online research, previous projects, and quotes received.

3. Total construction workforce salaries for Phase 1 (needed separately from facility construction costs in order to prepare tax analysis)

Holtec response: Use Prevailing Wage Rates.

4. Incremental construction costs for each subsequent phase

Holtec response: Costs consider the HI-STORM UMAX, site work, building and road realignments, and utilities.

5. Incremental construction workforce salaries for each subsequent phase

Holtec response: Use Wage rates +3%/year.

Operating Costs

6. Annual operating costs (includes maintenance, security, management, etc.) for Phase 1

Holtec response: Based on previous experience an operating budget of \$4.5M with \$1.3M being labor.

7. Total operational (includes maintenance, security, management, etc.) workforce salaries for Phase 1 (needed separately from operating costs in order to prepare tax analysis)

Holtec response:

For Train to Pad:

Assumptions:

- 4 casks per week – 250 Casks/year.
- 1 Shift. 8 hrs/day.
- Both Bays running.
- \$60/hr (2016) – 3% increase/year (unless otherwise noted).
- Staff (33 people)

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- 8RPS
- 2 Admin - \$50/hr
- 2 Chemists
- 6 guys for crane/VCT operations
- 12 Riggers
- 2 Maintenance People
- 1 Facilities Manager

For Security:**Assumptions:**

- 24/7 Coverage – 3 shifts.
- Manning Factor = 5. \$40/hr
- Staff (40 people)
 - Alarm Monitor
 - Shift Supervisor
 - Rovers
 - Search/Break Rover
 - Access Authorization

Additional Admin:

Accounting – 1 Person - \$60/hr

Admin Assistant – 1 Person - \$30/hr

PM – 2 people - \$70/hr

8. Incremental operating costs for each subsequent phase

Holtec response: Security may increase.

D&D Costs**9. Will site be released for unrestricted use following D&D?**

Holtec response: Yes, assume zero dose.

10. Value of the land when released for use.

Holtec response: Market Value, no downgrade in cost.

Other Cost Considerations**11. Describe any contingencies**

Holtec response: None of the following is included in the supplied cost estimate

- Spare Parts: \$13,000 in equipment * 20% = \$2,600,000
- \$100,000/year RP consumables
- Water Cost: \$0.90 to \$1.50 per barrel (42gal/barrel).

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