



Appendix A : NETL Pre-FEED Cost Estimates

NETL Summary Sheet for Facility Mods for BOP Testing		
	Estimate for Building test fixture in HP test room	Estimate for Mod to UDS Cell**
Time to Start	2 weeks from NPT	2 weeks from NPT
Time to complete mods and test	Approx 10 months	Approx. 14 Mos.
Total Cost*	\$551,250 - \$1,181,250	\$778,838 - \$1,668,938
Materials Cost	\$168,000 - \$360,000	\$126,000 - \$270,000
Labor/Msc. Cost	\$383,250 - \$821,250	\$652,838 - \$1,398,938
Planned test presure capability	10,000 psi	Up to 20,000 psi
* Cost Includes Hydraulic System for BOP operation - cost of BOP not included		
** Note: Advantage to modifying UDS cell is that test pressures can go beyond 10 KSI, easily to 20 KSI		



RIS
ESTIMATING WORKSHEET

Reference RES-EG-00-001 for Estimating Worksheet Guidelines

DATE: 2/9/2015WORK ORDER: NANETL DCN: NAPROJECT: BOP TestingPREPARED BY: S.FIKE/T.THEWLISLOCATION: B-12

REVIEWED BY: _____

LABOR ACCOUNT CODE: NA

APPROVED BY: _____

WORK DESCRIPTION: Modify UDS to accept/test BOP

Task Description	Quantity (User)	Estimated Hours / Task	Average Cost / hr	Total Hours	Extended Cost	Remarks (User)
AECOM Project Manager	1	2080	\$100	2,080	\$208,000	One full-time AECOM project manager over the period of 1 year
ME to analyze current UDS legs and B-12 concrete floor for additional 4000 lbs of weight added by BOP. Provide report.	1	400	\$125	400	\$50,000	This assumes no major redesign of the legs or modifications to the floor is needed
ME to specify and purchase new hydraulic system to operate BOP ram, modify drawings, perform construction support and operational checkout	1	350	\$125	350	\$43,750	Ram Hydraulic System and controls
ME redesign of UDS Upper Plug and hydraulic removal mechanism to accept BOP. This is to include mounting requirements of BOP and impact of BOP actuation	1	700	\$125	700	\$87,500	
CE Design modification of building wall to accept BOP, incorporate new sliding door.	1	65	\$125	65	\$8,125	
Design team participate in Haz Op/SARS process	1	80	\$125	80	\$10,000	This is NOT performing SARS, just participating
Design team participating in modification to Standard Operating Procedures	1	60	\$125	60	\$7,500	
EE Modification of control I/O and electrical drawings for additional equipment	1	120	\$125	120	\$15,000	
				Totals From Continuation Sheet: (if needed)	5,170	\$502,750
				Total:	9,025	\$932,625

Estimate Type (Place an X in the block below to select the type of estimate)	NOTES
<input checked="" type="checkbox"/> Order of Magnitude (-30% to +50%)	
<input type="checkbox"/> Preliminary (-15% to +30%)	
<input type="checkbox"/> Definitive (-5% to +15%)	

Estimate Summary**Total Estimated Hours:** 6318 - 13538**Total Material Cost:** \$126,000 - \$270,000**Total Estimated Cost:** \$778,838 - \$1,668,938**Estimated Start Date:** Two (2) weeks after NTP
Dependent on approval of estimate**Estimated Completion Date:** Approx 14 months
Dependent on approval of estimateEstimate Qualification Statement

Please note that the estimates provided herein are dependent upon the basis of quantities, execution approach, pricing techniques and the underlying assumptions, inclusions and exclusions. Actual project costs will differ and can be significantly affected by changes in the scope, sequence and external environment, the manner in which the project is implemented and other factors which impact the basis upon which the initial estimate was prepared. Estimate accuracy ranges are projections of the most likely potential range of variance and are in accordance with typical industry accepted practice. The accuracy range is based on the level of scope definition, level of project execution development and the cost estimating methods and practices utilized in preparing the estimate. The range is not a guarantee of actual project costs.

The estimated start and completion dates stated above are dependent on receiving estimate approval before the noted estimated start date. In the event the estimate approval is received after the estimated start date, the Work Control Lead shall provide a realistic start and completion date based on the current schedule.

