

LG&E - KU- Mill Creek Common rev. B

B&V PROJECT #: 168908
 PROJECT ESTIMATOR: Ron Fields
 PROJECT MANAGER: Tim Hillman
 PURPOSE OF ESTIMATE: Budgetary
 ESTIMATE DATE: March-11

LOCATION: Jefferson County, KY
 PLANT TYPE: PC Fired Boiler
 CLIENT: LG&E - KU
 PARTNER: N/A
 CURRENCY: US Dollars

BLACK AND VEATCH CONFIDENTIAL AND PROPRIETARY INFORMATION

Contract Number	Description	PROJECT - TOTAL COSTS					% OF TOTAL C.V.
		Engr Equip Material \$	Commodities Material \$	Labor \$	Manhours	Other	

ESTIMATE SUMMARY

Purchase Contracts:

61.0000	Civil / Structural	\$0	\$0	\$0	0	\$0	\$0	0.00%
61.3801	Ductwork and breeching	\$0	\$0	\$0	0	\$0	\$0	0.00%
62.0000	Mechanical - Balance of Plant (BOP)	\$0	\$0	\$0	0	\$0	\$0	0.00%
63.0000	Electrical - Reserve Switchgear , MCC's, Raceway	\$480,000	\$1,095,661	\$0	0	\$0	\$1,575,661	3.31%
63.3002	VFDs, Motors and Couplings	\$0	\$0	\$0	0	\$0	\$0	0.00%
63.3603	Reserve Switchgear and MCCs	\$264,000	\$0	\$0	0	\$500,000	\$764,000	1.60%
63.3802	Reserve Aux Transformers	\$2,034,480	\$0	\$0	0	\$0	\$2,034,480	4.27%
63.3803	Aux Transformer	\$0	\$0	\$0	0	\$0	\$0	0.00%
63.4400	345 kV Transmission Lines Relocation	\$0	\$0	\$0	0	\$0	\$0	0.00%
64.0000	Control - DCS, Instrumentation	\$0	\$0	\$0	0	\$0	\$0	0.00%
65.3120	PJFF / Fabric Filter	\$0	\$0	\$0	0	\$0	\$0	0.00%
65.3210	Scrubber Island w/ Fabric filter	\$0	\$0	\$0	0	\$0	\$0	0.00%
65.3311	Catalyst	\$0	\$0	\$0	0	\$0	\$0	0.00%
65.3310	Selective Catalytic Reduction System	\$0	\$0	\$0	0	\$0	\$0	0.00%
65.3500	H-PAC Mercury Control	\$0	\$0	\$0	0	\$0	\$0	0.00%
66.1000	Piping and Tubing	\$0	\$0	\$0	0	\$0	\$0	0.00%
66.2070	Pipe Supports	\$0	\$0	\$0	0	\$0	\$0	0.00%
66.3000	Valves and Accessories	\$0	\$0	\$0	0	\$0	\$0	0.00%
67.9300	Compressors	\$0	\$0	\$0	0	\$0	\$0	0.00%
67.9532	ID Fans	\$0	\$0	\$0	0	\$0	\$0	0.00%
Subtotal Purchase Contracts:		\$2,778,480	\$1,095,661	\$0	0	\$500,000	\$4,374,141	9.18%

Construction Contracts:

71.0401	Civil / Structural Construction - Cast in-place Piling	\$0	\$0	\$0	0	\$252,000	\$252,000	0.53%
71.0402	Civil / Structural Construction - Super Structures	\$0	\$0	\$0	0	\$0	\$0	0.00%
71.0403	Civil / Structural Construction - Sub-Structures	\$0	\$255,055	\$682,884	11,965	\$18,500	\$956,439	2.01%
71.0822	Civil / Structural Construction - Fly Ash Silo	\$0	\$0	\$0	0	\$11,300,000	\$11,300,000	23.70%
72.0000	Mechanical / Chemical Construction	\$0	\$0	\$0	0	\$1,321,250	\$1,321,250	2.77%
73.0000	Electrical / Control Construction	\$0	\$0	\$8,108,517	129,778	\$0	\$8,108,517	17.01%
77.0000	Mechanical Construction	\$0	\$0	\$0	\$0	\$0	\$0	0.00%
77.5450	Field Erected Tanks	\$0	\$0	\$0	\$0	\$0	\$0	0.00%
78.0000	Service Contracts & Construction Indirects	\$0	\$2,216,313	\$1,274,955	27,461	\$4,154,466	\$7,645,734	16.04%
Subtotal Construction Contracts:		\$0	\$2,471,368	\$10,066,357	169,204	\$17,046,216	\$29,583,940	62.06%
Total Direct Costs		\$2,778,480	\$3,567,029	\$10,066,357	169,204	\$17,546,216	\$33,958,081	71.23%

Indirect Costs:

99.1100	Engineering Costs (Includes G&A & Fee)	\$0	\$0	\$615,000	15,000	\$913,890	\$1,528,890	3.21%
99.1200	EPC Construction Management (Includes G&A & Fee)	\$0	\$806,769	\$1,715,697	38,335	\$1,620,137	\$4,142,603	8.69%
99.1500	Project Insurance	\$0	\$0	\$0	0	\$552,559	\$552,559	1.16%
99.1600	Performance Bond	\$0	\$0	\$0	0	\$236,811	\$236,811	0.50%
99.1900	Sales Tax 6% of Indirect materials and Services	\$0	\$83,382	\$0	0	\$0	\$83,382	0.17%
99.2500	Project Contingency 10%	\$0	\$0	\$0	0	\$4,050,233	\$4,050,233	8.50%
99.2600	EPC Profit	\$0	\$0	\$0	0	\$3,119,000	\$3,119,000	6.54%
Total Indirect Costs		\$0	\$890,151	\$2,330,697	53,335	\$10,492,630	\$13,713,478	28.77%

Total Overnight (Mar 2011) EPC Capital Costs:		\$2,778,480	\$4,457,180	\$12,397,054	222,539	\$28,038,846	\$47,671,559	100.00%
		\$0	\$0	\$0	0	\$0	\$0	0.00%

Separate Line Item Cost Break Out (Items listed below are included in the above EPC estimate)

1	Demolition	\$0
2	SCR	\$0
3	Scrubber Refurbishment	\$0
4	Scrubber Steel Refurbishment	\$0

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Contract Number	Description	PROJECT - TOTAL COSTS					% OF TOTAL C.V.
		Engr Equip Material \$	Commodities Material \$	Labor \$	Manhours	Other	

ESTIMATE SUMMARY

Purchase Contracts:

61.0000	Civil / Structural	\$0	\$0	\$0	0	\$0	\$0	0.00%
62.0000	Mechanical	\$0	\$0	\$0	0	\$0	\$0	0.00%
63.0000	Electrical	\$2,778,480	\$1,095,661	\$0	0	\$500,000	\$4,374,141	9.18%
64.0000	Control	\$0	\$0	\$0	0	\$0	\$0	0.00%
65.0000	Chemical	\$0	\$0	\$0	0	\$0	\$0	0.00%
Subtotal Purchase Contracts:		\$2,778,480	\$1,095,661	\$0	0	\$500,000	\$4,374,141	9.18%

Construction Contracts:

71.0402	Civil / Structural Construction -Substructures	\$0	\$255,055	\$682,884	11,965	\$11,570,500	\$12,508,439	26.24%
71.0403	Civil / Structural Construction -Superstructures	\$0	\$0	\$0	0	\$0	\$0	0.00%
72.0000	Mechanical / Chemical Construction	\$0	\$0	\$0	0	\$1,321,250	\$1,321,250	2.77%
73.0000	Electrical / Control Construction	\$0	\$0	\$8,108,517	129,778	\$0	\$8,108,517	17.01%
78.0000	Service Contracts & Construction Indirects	\$0	\$2,216,313	\$1,274,955	27,461	\$4,154,466	\$7,645,734	16.04%
Subtotal Construction Contracts:		\$0	\$2,471,368	\$10,066,357	169,204	\$17,046,216	\$29,583,940	62.06%

Total Direct Costs

\$2,778,480	\$3,567,029	\$10,066,357	169,204	\$17,546,216	\$33,958,081	71.23%
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Indirect Costs:

99.1100	Engineering Costs (With G&A)	\$0	\$0	\$615,000	15,000	\$913,890	\$1,528,890	3.21%
99.1200	Construction Management (With G&A)	\$0	\$806,769	\$1,715,697	38,335	\$1,620,137	\$4,142,603	8.69%
99.1500	Project Insurance	\$0	\$0	\$0	0	\$552,559	\$552,559	1.16%
99.1600	Performance Bond	\$0	\$0	\$0	0	\$236,811	\$236,811	0.50%
99.1900	Sales Tax 6% of Indirect materials and Services	\$0	\$83,382	\$0	0	\$0	\$83,382	0.17%
99.2500	Project Contingency 10%	\$0	\$0	\$0	0	\$4,050,233	\$4,050,233	8.50%
99.2600	EPC profit	\$0	\$0	\$0	0	\$3,119,000	\$3,119,000	6.54%
Total Indirect Costs		\$0	\$890,151	\$2,330,697	53,335	\$10,492,630	\$13,713,478	28.77%

Total Overnight (Mar 2011) EPC Capital Costs:

\$2,778,480	\$4,457,180	\$12,397,054	222,539	\$28,038,846	\$47,671,559	100.00%
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Contract Number	Description	PROJECT - TOTAL COSTS					% OF TOTAL C.V.	
		Engr Equip Material \$	Commodities Material \$	Labor \$	Manhours	Other		TOTAL \$
Civil / Structural Purchase Contracts:								
	Subtotal - Civil / Structural Purchase Contracts:	\$0	\$0	\$0	0	\$0	\$0	0.00%
Mechanical Purchase Contracts:								
	Subtotal - Mechanical Purchase Contracts:	\$0	\$0	\$0	0	\$0	\$0	0.00%
Electrical Purchase Contracts:								
63.0801	Cable - 8-15KV Power	\$0	\$116,460	\$0	0	\$0	\$116,460	0.24%
63.0802	Cable and Raceway	\$0	\$6,625	\$0	0	\$0	\$6,625	0.01%
63.1202	Cable Bus	\$0	\$956,400	\$0	0	\$0	\$956,400	2.01%
63.3600	Switchgear and Motor Control Assemblies	\$480,000	\$0	\$0	0	\$0	\$480,000	1.01%
63.3603	Switchgear & MCCs	\$264,000	\$0	\$0	0	\$500,000	\$764,000	1.60%
63.3802	SUS Transformers	\$2,034,480	\$0	\$0	0	\$0	\$2,034,480	4.27%
63.5020	Raceway - Duct Bank Materials	\$0	\$16,176	\$0	0	\$0	\$16,176	0.03%
	Subtotal - Electrical Purchase Contracts:	\$2,778,480	\$1,095,661	\$0	0	\$500,000	\$4,374,141	9.18%
Control Purchase Contracts:								
	Subtotal - Control Purchase Contracts:	\$0	\$0	\$0	0	\$0	\$0	0.00%
Chemical Purchase Contracts:								
	Subtotal - Chemical Purchase Contracts:	\$0	\$0	\$0	0	\$0	\$0	0.00%
	Subtotal Purchase Contracts:	\$2,778,480	\$1,095,661	\$0	0	\$500,000	\$4,374,141	9.18%

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		Engr Equip Material \$	Commodities Material \$	Labor \$	Manhours	Other		TOTAL \$
Civil / Structural Construction Contracts:								
71.0401	Cast In place Piling	\$0	\$0	\$0	0	\$0	\$252,000	0.53%
71.0402	General Construction - Substructures	\$0	\$255,055	\$682,884	11,965	\$18,500	\$956,439	2.01%
71.0822	Fly Ash Silo	\$0	\$0	\$0	0	\$11,300,000	\$11,300,000	23.70%
Subtotal - Civil / Structural Construction Contracts:		\$0	\$255,055	\$682,884	11,965	\$11,570,500	\$12,508,439	26.24%
Mechanical Construction Contracts:								
72.0800	Fire Protection & Detection Systems	\$0	\$0	\$0	0	\$0	\$1,321,250	2.77%
Subtotal - Mechanical Construction Contracts:		\$0	\$0	\$0	0	\$1,321,250	\$1,321,250	2.77%
Electrical / Control Construction Contracts:								
73.0201	Electrical Equipment Erection	\$0	\$0	\$0	0	\$0	\$8,108,517	17.01%
Subtotal - Electrical / Control Construction Contracts:		\$0	\$0	\$8,108,517	129,778	\$0	\$8,108,517	17.01%
Construction Indirects & Service Contracts:								
78.0000	Service Contracts & Construction Indirects	\$0	\$0	\$0	0	\$0	\$7,589,734	15.92%
78.4000	Warranty	\$0	\$2,216,313	\$1,274,955	27,461	\$4,098,466	\$56,000	0.12%
Subtotal - Construction Indirects & Service Contracts:		\$0	\$2,216,313	\$1,274,955	27,461	\$4,154,466	\$7,645,734	16.04%
Subtotal - Construction Costs:		\$0	\$2,471,368	\$10,066,357	169,204	\$17,046,216	\$29,583,940	62.06%
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