

LG&E - KU- Brown Common Without SCR rev. B

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

LOCATION: Mercer 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	Commodities				
		Material \$	Material \$	Labor \$	Manhours	Other	

ESTIMATE SUMMARY

Purchase Contracts:

62.0000	Mechanical - Fire Protection Piping	\$59,182	\$0	\$0	0	\$0	\$59,182	0.36%
63.0000	Electrical - Reserve Switchgear , MCC's, Raceway	\$0	\$5,100	\$0	0	\$0	\$5,100	0.03%
63.3603	Reserve Switchgear and MCCs	\$152,000	\$0	\$0	0	\$0	\$152,000	0.93%
Subtotal Purchase Contracts:		\$211,182	\$5,100	\$0	0	\$0	\$216,282	1.33%

Construction Contracts:

71.0401	Civil / Structural Construction - Cast in-place Piling	\$0	\$0	\$0	0	\$609,000	\$609,000	3.74%
71.0403	Civil / Structural Construction - Sub-Structures	\$0	\$286,923	\$637,802	12,788	\$1,200	\$925,925	5.68%
71.0822	Civil / Structural Construction - Ash Silo	\$0	\$0	\$0	0	\$8,000,000	\$8,000,000	49.08%
72.0000	Mechanical / Chemical Construction	\$0	\$0	\$100,296	1,877	\$813,000	\$913,296	5.60%
73.0000	Electrical / Control Construction	\$0	\$0	\$26,443	499	\$0	\$26,443	0.16%
78.0000	Service Contracts & Construction Indirects	\$0	\$156,251	\$177,656	4,049	\$364,631	\$698,538	4.29%
Subtotal Construction Contracts:		\$0	\$443,174	\$942,197	19,214	\$9,787,831	\$11,173,201	68.55%

Total Direct Costs		\$211,182	\$448,274	\$942,197	19,214	\$9,787,831	\$11,389,483	69.88%
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Indirect Costs:

99.1100	Engineering Costs (Includes G&A & Fee)	\$0	\$0	\$615,000	15,000	\$913,890	\$1,528,890	9.38%
99.1200	EPC Construction Management (Includes G&A & Fee)	\$0	\$3,177	\$257,337	5,602	\$344,665	\$605,180	3.71%
99.1500	Project Insurance	\$0	\$0	\$0	0	\$224,510	\$224,510	1.38%
99.1600	Performance Bond	\$0	\$0	\$0	0	\$96,219	\$96,219	0.59%
99.1900	Sales Tax 6% of Indirect materials and Services	\$0	\$3,380	\$0	0	\$0	\$3,380	0.02%
99.2500	Project Contingency 10%	\$0	\$0	\$0	0	\$1,384,766	\$1,384,766	8.50%
99.2600	EPC Profit	\$0	\$0	\$0	0	\$1,066,000	\$1,066,000	6.54%
Total Indirect Costs		\$0	\$6,557	\$872,337	20,602	\$4,030,050	\$4,908,944	30.12%

Total Overnight (April 2011) EPC Capital Costs:		\$211,182	\$454,831	\$1,814,534	39,815	\$13,817,881	\$16,298,428	100.00%
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		\$0	\$0	\$0	0	\$0	\$0	0.00%
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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:

62.0000	Mechanical	\$59,182	\$0	\$0	0	\$0	\$59,182	0.36%
63.0000	Electrical	\$152,000	\$5,100	\$0	0	\$0	\$157,100	0.96%
Subtotal Purchase Contracts:		\$211,182	\$5,100	\$0	0	\$0	\$216,282	1.33%

Construction Contracts:

71.0402	Civil / Structural Construction -Substructures	\$0	\$286,923	\$637,802	12,788	\$610,200	\$1,534,925	9.42%
71.0822	Civil / Structural Construction -Ash Silo	\$0	\$0	\$0	0	\$8,000,000	\$8,000,000	49.08%
72.0000	Mechanical / Chemical Construction	\$0	\$0	\$100,296	1,877	\$813,000	\$913,296	5.60%
73.0000	Electrical / Control Construction	\$0	\$0	\$26,443	499	\$0	\$26,443	0.16%
78.0000	Service Contracts & Construction Indirects	\$0	\$156,251	\$177,656	4,049	\$364,631	\$698,538	4.29%
Subtotal Construction Contracts:		\$0	\$443,174	\$942,197	19,214	\$9,787,831	\$11,173,201	68.55%

Total Direct Costs

\$211,182	\$448,274	\$942,197	19,214	\$9,787,831	\$11,389,483	69.88%
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Indirect Costs:

99.1100	Engineering Costs (With G&A)	\$0	\$0	\$615,000	15,000	\$913,890	\$1,528,890	9.38%
99.1200	Construction Management (With G&A)	\$0	\$3,177	\$257,337	5,602	\$344,665	\$605,180	3.71%
99.1500	Project Insurance	\$0	\$0	\$0	0	\$224,510	\$224,510	1.38%
99.1600	Performance Bond	\$0	\$0	\$0	0	\$96,219	\$96,219	0.59%
99.1900	Sales Tax 6% of Indirect materials and Services	\$0	\$3,380	\$0	0	\$0	\$3,380	0.02%
99.2500	Project Contingency 10%	\$0	\$0	\$0	0	\$1,384,766	\$1,384,766	8.50%
99.2600	EPC profit	\$0	\$0	\$0	0	\$1,066,000	\$1,066,000	6.54%
Total Indirect Costs		\$0	\$6,557	\$872,337	20,602	\$4,030,050	\$4,908,944	30.12%

Total Overnight (April 2011) EPC Capital Costs:

\$211,182	\$454,831	\$1,814,534	39,815	\$13,817,881	\$16,298,428	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:	\$59,182	\$0	\$0	0	\$0	\$59,182	0.36%
Electrical Purchase Contracts:								
63.0802	Cable and Raceway	\$0	\$0	\$0	0	\$0	\$5,100	0.03%
63.3603	Switchgear & MCCs	\$152,000	\$0	\$0	0	\$0	\$152,000	0.93%
	Subtotal - Electrical Purchase Contracts:	\$152,000	\$5,100	\$0	0	\$0	\$157,100	0.96%
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:	\$211,182	\$5,100	\$0	0	\$0	\$216,282	1.33%

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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	\$609,000	3.74%
71.0402	General Construction - Substructures	\$0	\$286,923	\$637,802	12,788	\$1,200	\$925,925	5.68%
71.0822	Ash Storage Silo	\$0	\$0	\$0	0	\$8,000,000	\$8,000,000	49.08%
Subtotal - Civil / Structural Construction Contracts:		\$0	\$286,923	\$637,802	12,788	\$8,610,200	\$9,534,925	58.50%
Mechanical Construction Contracts:								
72.0800	Fire Protection & Detection Systems	\$0	\$0	\$0	0	\$813,000	\$813,000	4.99%
Subtotal - Mechanical Construction Contracts:		\$0	\$0	\$100,296	1,877	\$813,000	\$913,296	5.60%
Electrical / Control Construction Contracts:								
73.0201	Electrical Equipment Erection	\$0	\$0	\$26,443	499	\$0	\$26,443	0.16%
Subtotal - Electrical / Control Construction Contracts:		\$0	\$0	\$26,443	499	\$0	\$26,443	0.16%
Construction Indirects & Service Contracts:								
78.0000	Service Contracts & Construction Indirects	\$0	\$156,251	\$177,656	4,049	\$348,831	\$682,738	4.19%
78.4000	Warranty	\$0	\$0	\$0	0	\$15,800	\$15,800	0.10%
Subtotal - Construction Indirects & Service Contracts:		\$0	\$156,251	\$177,656	4,049	\$364,631	\$698,538	4.29%
Subtotal - Construction Costs:		\$0	\$443,174	\$942,197	19,214	\$9,787,831	\$11,173,201	68.55%
Subtotal - Direct Costs:		\$211,182	\$448,274	\$942,197	19,214	\$9,787,831	\$11,389,483	69.88%
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Total Overnight (April 2011) EPC Capital Costs:		\$211,182	\$454,831	\$1,814,534	39,815	\$13,817,881	\$16,298,428	100.00%