

LG&E - KU Mill Creek Unit 4 Wet FGD & PJFF Arrangement "A" 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.	\$ PER KW 525
		Engr Equip	Commodities					
		Material \$	Material \$	Labor \$	Manhours	Other		

ESTIMATE SUMMARY

Purchase Contracts:

61.0000	Civil / Structural	\$0	\$141,200	\$0	0	\$1,737,190	\$1,878,390	0.60%	\$3.58
61.3801	Ductwork and Breaching	\$2,660,400	\$382,635	\$0	0	\$900,000	\$3,943,035	1.26%	\$7.51
62.0000	Mechanical - Balance of Plant (BOP)	\$96,500	\$0	\$0	0	\$0	\$96,500	0.03%	\$0.18
63.0000	Electrical - BOP, Equipment, Raceway	\$350,000	\$3,168,176	\$0	0	\$0	\$3,518,176	1.13%	\$6.70
63.1202	Bus Duct	\$0	\$3,640,040	\$0	0	\$0	\$3,640,040	1.17%	\$6.93
63.3002	VFDs, Motors and Couplings	\$3,086,000	\$0	\$0	0	\$0	\$3,086,000	0.99%	\$5.88
63.3603	Switchgear & MCCs	\$3,084,000	\$0	\$0	0	\$0	\$3,084,000	0.99%	\$5.87
63.3802	SUS Transformers	\$479,504	\$0	\$0	0	\$0	\$479,504	0.15%	\$0.91
63.3803	Aux Transformer	\$1,432,000	\$0	\$0	0	\$0	\$1,432,000	0.46%	\$2.73
63.4400	345 kV Transmission Lines Relocation	\$0	\$0	\$0	0	\$3,000,000	\$3,000,000	0.96%	\$5.71
64.0000	Control - DCS, Instrumentation	\$1,332,100	\$161,400	\$0	0	\$0	\$1,493,500	0.48%	\$2.84
64.0407	On-line Performance Monitoring - Neural Network	\$0	\$0	\$0	0	\$570,000	\$570,000	0.18%	\$1.09
65.3120	Fabric Filter	\$18,000,000	\$0	\$0	0	\$0	\$18,000,000	5.77%	\$34.29
65.3210	Scrubber FGD	\$50,300,000	\$0	\$0	0	\$0	\$50,300,000	16.12%	\$95.81
65.3230	Sorbent Injection System	\$2,000,000	\$0	\$0	0	\$0	\$2,000,000	0.64%	\$3.81
65.3500	H-PAC Mercury Control System	\$1,000,000	\$0	\$0	0	\$0	\$1,000,000	0.32%	\$1.90
65.3600	CEMs	\$850,000	\$0	\$0	0	\$0	\$850,000	0.27%	\$1.62
66.1000	Piping & Tubing	\$1,199,197	\$10,000	\$0	0	\$0	\$1,209,197	0.39%	\$2.30
66.2070	Pipe Supports	\$0	\$540,000	\$0	0	\$0	\$540,000	0.17%	\$1.03
66.3000	Valves and Accessories	\$2,104,000	\$0	\$0	0	\$0	\$2,104,000	0.67%	\$4.01
67.0414	Fly Ash Transfer System	\$0	\$0	\$0	0	\$6,800,000	\$6,800,000	2.18%	\$12.95
67.9300	Air Compressors, Dryers, & Air Receivers	\$250,000	\$0	\$0	0	\$0	\$250,000	0.08%	\$0.48
67.9532	ID Booster Fans	\$2,100,000	\$0	\$0	0	\$0	\$2,100,000	0.67%	\$4.00

Subtotal Purchase Contracts: **\$90,323,701** **\$8,043,451** **\$0** **0** **\$13,007,190** **\$111,374,342** **35.69%** **\$212.14**

Construction Contracts:

71.0100	Demolition Works	\$0	\$35,000	\$122,118	2,380	\$587,000	\$744,118	0.24%	\$1.42
71.0203	Civil / Structural Construction - Site Finishes	\$0	\$0	\$82,096	1,600	\$82,096	\$82,096	0.03%	\$0.16
71.0402	Civil / Structural Construction - Super Structures	\$1,272,600	\$1,401,200	\$2,140,245	30,924	\$2,418,750	\$7,232,795	2.32%	\$13.78
71.0403	Civil / Structural Construction - Sub-Structures	\$0	\$110,480	\$4,087,675	72,086	\$3,822,733	\$8,020,887	2.57%	\$15.28
71.0411	Civil / Structural Construction - Chimney	\$0	\$0	\$0	30,924	\$19,000,000	\$19,000,000	6.09%	\$36.19
72.0000	Mechanical / Chemical Construction	\$0	\$0	\$24,656,043	399,886	\$5,745,700	\$30,401,743	9.74%	\$57.91
73.0000	Electrical / Control Construction	\$0	\$264,200	\$9,888,005	158,259	\$383,400	\$10,535,605	3.38%	\$20.07
78.0000	Service Contracts & Construction Indirects	\$0	\$5,567,877	\$6,267,772	134,998	\$19,850,759	\$31,686,408	10.15%	\$60.36

Subtotal Construction Contracts: **\$1,272,600** **\$7,378,757** **\$47,243,953** **831,057** **\$51,890,438** **\$107,703,652** **34.51%** **\$205.15**

Total Direct Costs **\$91,596,301** **\$15,422,208** **\$47,243,953** **831,057** **\$64,897,628** **\$219,077,994** **70.20%** **\$417.29**

Indirect Costs:

99.1100	Engineering Costs (With G&A)	\$0	\$0	\$8,036,000	196,000	\$11,941,496	\$19,977,496	6.40%	\$38.05
99.1200	EPC Construction Management (With G&A)	\$0	\$3,966,134	\$8,434,489	188,460	\$7,964,709	\$20,365,331	6.53%	\$38.79
99.1500	Project Insurance	\$0	\$0	\$0	0	\$3,937,323	\$3,937,323	1.26%	\$7.50
99.1600	Performance Bond	\$0	\$0	\$0	0	\$1,687,424	\$1,687,424	0.54%	\$3.21
99.1900	Sales Tax 6% of Indirect materials and Services	\$0	\$90,252	\$0	0	\$0	\$90,252	0.03%	\$0.17
99.2500	Project Contingency 15%	\$0	\$0	\$0	0	\$26,513,582	\$26,513,582	8.50%	\$50.50
99.2600	EPC Profit	\$0	\$0	\$0	0	\$20,416,000	\$20,416,000	6.54%	\$38.89

Total Indirect Costs **\$0** **\$4,056,386** **\$16,470,489** **384,460** **\$72,460,534** **\$92,987,409** **29.80%** **\$177.12**

Total Overnight (Mar 2011) EPC Capital Costs: **\$91,596,301** **\$19,478,593** **\$63,714,442** **1,215,517** **\$137,358,162** **\$312,065,402** **100.00%** **\$594.41**

\$0 \$0 \$0 0 \$0 \$0 0.00% \$0.00

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

1	Demolition	\$915,265
2	SCR	\$0
3	Scrubber Refurbishment	\$0
4	Scrubber Steel Refurbishment	\$0

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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.	\$ PER KW 525
		Engr Equip	Commodities					
		Material \$	Material \$	Labor \$	Manhours	Other		

ESTIMATE SUMMARY

Purchase Contracts:

61.0000	Civil / Structural	\$2,660,400	\$523,835	\$0	0	\$2,637,190	\$5,821,425	1.87%	\$11.09
62.0000	Mechanical	\$5,749,697	\$550,000	\$0	0	\$6,800,000	\$13,099,697	4.20%	\$24.95
63.0000	Electrical	\$8,431,504	\$6,808,216	\$0	0	\$3,000,000	\$18,239,720	5.84%	\$34.74
64.0000	Control	\$1,332,100	\$161,400	\$0	0	\$570,000	\$2,063,500	0.66%	\$3.93
65.0000	Chemical	\$72,150,000	\$0	\$0	0	\$0	\$72,150,000	23.12%	\$137.43
Subtotal Purchase Contracts:		\$90,323,701	\$8,043,451	\$0	0	\$13,007,190	\$111,374,342	35.69%	\$212.14

Construction Contracts:

71.0402	Civil / Structural Construction - Substructures	\$1,272,600	\$1,546,680	\$6,432,134	106,990	\$25,828,483	\$35,079,896	11.24%	\$66.82
71.0403	Civil / Structural Construction - Superstructures	\$0	\$0	\$0	0	\$0	\$0	0.00%	\$0.00
72.0000	Mechanical / Chemical Construction	\$0	\$0	\$24,656,043	399,886	\$5,745,700	\$30,401,743	9.74%	\$57.91
73.0000	Electrical / Control Construction	\$0	\$264,200	\$9,888,005	158,259	\$383,400	\$10,535,605	3.38%	\$20.07
78.0000	Service Contracts & Construction Indirects	\$0	\$5,567,877	\$6,267,772	134,998	\$19,850,759	\$31,686,408	10.15%	\$60.36
Subtotal Construction Contracts:		\$1,272,600	\$7,378,757	\$47,243,953	800,133	\$51,808,342	\$107,703,652	34.51%	\$205.15

Total Direct Costs

\$91,596,301	\$15,422,208	\$47,243,953	800,133	\$64,815,532	\$219,077,994	70.20%	\$417.29
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Indirect Costs:

99.1100	Engineering Costs (With G&A)	\$0	\$0	\$8,036,000	196,000	\$11,941,496	\$19,977,496	6.40%	\$38.05
99.1200	Construction Management (With G&A)	\$0	\$3,966,134	\$8,434,489	188,460	\$7,964,709	\$20,365,331	6.53%	\$38.79
99.1500	Project Insurance	\$0	\$0	\$0	0	\$3,937,323	\$3,937,323	1.26%	\$7.50
99.1600	Performance Bond	\$0	\$0	\$0	0	\$1,687,424	\$1,687,424	0.54%	\$3.21
99.1900	Sales Tax 6% of Indirect materials and Services	\$0	\$90,252	\$0	0	\$0	\$90,252	0.03%	\$0.17
99.2500	Project Contingency	\$0	\$0	\$0	0	\$26,513,582	\$26,513,582	8.50%	\$50.50
99.2600	EBIT	\$0	\$0	\$0	0	\$20,416,000	\$20,416,000	6.54%	\$38.89
Total Indirect Costs		\$0	\$4,056,386	\$16,470,489	384,460	\$72,460,534	\$92,987,409	29.80%	\$177.12

Total Overnight (Mar 2011) EPC Capital Costs:

\$91,596,301	\$19,478,593	\$63,714,442	1,184,593	\$137,276,066	\$312,065,402	100.00%	\$594.41
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LOCATION: Jefferson County, KY
 PLANT TYPE: PC Fired Boiler
 CLIENT: LG&E - KU
 PARTNER: N/A
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BLACK AND VEATCH CONFIDENTIAL AND PROPRIETARY INFORMATION

Contract Number	Description	PROJECT - TOTAL COSTS					% OF TOTAL C.V.	\$ PER KW 525	
		Engr Equip	Commodities						
		Material \$	Material \$	Labor \$	Manhours	Other			TOTAL \$
Civil / Structural Purchase Contracts:									
61.0200	Buildings - Insulated panels	\$0	\$40,000	\$0	0	\$1,687,190	\$1,727,190	0.55%	\$3.29
61.1808	Manholes	\$0	\$86,200	\$0	0	\$0	\$86,200	0.03%	\$0.16
61.3601	Chain Link Fence	\$0	\$15,000	\$0	0	\$50,000	\$65,000	0.02%	\$0.12
61.3801	Ductwork and Breeching	\$2,660,400	\$382,635	\$0	0	\$900,000	\$3,943,035	1.26%	\$7.51
Subtotal - Civil / Structural Purchase Contracts:		\$2,660,400	\$523,835	\$0	0	\$2,637,190	\$5,821,425	1.87%	\$11.09
Mechanical Purchase Contracts:									
62.2418	Primary Flow elements	\$0	\$0	\$0	0	\$0	\$56,500	0.02%	\$0.11
62.2613	Pumps -FGD	\$56,500	\$0	\$0	0	\$0	\$40,000	0.01%	\$0.08
66.1000	Piping & Tubing	\$40,000	\$0	\$0	0	\$0	\$1,209,197	0.39%	\$2.30
66.2070	Pipe Supports	\$1,199,197	\$10,000	\$0	0	\$0	\$540,000	0.17%	\$1.03
66.3000	Valves and Accessories	\$0	\$540,000	\$0	0	\$0	\$2,104,000	0.67%	\$4.01
67.0414	Fly Ash Transfer system	\$2,104,000	\$0	\$0	0	\$0	\$6,800,000	2.18%	\$12.95
67.9300	Air Compressors, Dryers, & Air Receivers	\$0	\$0	\$0	0	\$6,800,000	\$6,800,000	2.18%	\$12.95
67.9300	Air Compressors, Dryers, & Air Receivers	\$250,000	\$0	\$0	0	\$0	\$250,000	0.08%	\$0.48
67.9532	ID Booster Fans	\$2,100,000	\$0	\$0	0	\$0	\$2,100,000	0.67%	\$4.00
Subtotal - Mechanical Purchase Contracts:		\$5,749,697	\$550,000	\$0	\$0	\$6,800,000	\$13,099,697	4.20%	\$24.95
Electrical Purchase Contracts:									
63.0000	Electrical Equipment & Materials	\$0	\$0	\$0	0	\$0	\$3,000	0.00%	\$0.01
63.0601	Plant Communication System	\$0	\$3,000	\$0	0	\$0	\$50,000	0.02%	\$0.10
63.0801	Cable - 8-15KV Power	\$0	\$50,000	\$0	0	\$0	\$1,627,800	0.52%	\$3.10
63.0804	Cable - 300-600V Instrumnet & T/C	\$0	\$1,627,800	\$0	0	\$0	\$17,923	0.01%	\$0.03
63.0802	Cable - 600V Power	\$0	\$17,923	\$0	0	\$0	\$106,408	0.03%	\$0.20
63.1001	Welding System	\$0	\$106,408	\$0	0	\$0	\$28,600	0.01%	\$0.05
63.1201	Iso-Phase Bus Duct	\$0	\$28,600	\$0	0	\$0	\$230,000	0.07%	\$0.44
63.1202	Non-Seg or SegregatedPhase Bus Duct	\$230,000	\$0	\$0	0	\$0	\$3,640,040	1.17%	\$6.93
63.2000	Metering & Relaying	\$0	\$3,640,040	\$0	0	\$0	\$120,000	0.04%	\$0.23
63.2802	Batteries - DC Equipment	\$120,000	\$0	\$0	0	\$0	\$442,750	0.14%	\$0.84
63.2805	PanelBoards	\$0	\$442,750	\$0	0	\$0	\$60,000	0.02%	\$0.11
63.3002	VFDs, Motors and Couplings	\$0	\$60,000	\$0	0	\$0	\$3,086,000	0.99%	\$5.88
63.3603	Switchgear & MCCs	\$3,086,000	\$0	\$0	0	\$0	\$3,084,000	0.99%	\$5.87
63.3802	SUS Transformers	\$3,084,000	\$0	\$0	0	\$0	\$479,504	0.15%	\$0.91
63.3803	Aux Transformer	\$479,504	\$0	\$0	0	\$0	\$1,432,000	0.46%	\$2.73
63.4400	345 kV Transmission Lines Relocation	\$1,432,000	\$0	\$0	0	\$0	\$3,000,000	0.96%	\$5.71
63.5000	Junction Boxes	\$0	\$0	\$0	0	\$0	\$13,100	0.00%	\$0.02
63.5010	Grounding Materials and Equipment	\$0	\$13,100	\$0	0	\$0	\$127,825	0.04%	\$0.24
63.5020	Raceway - Duct Bank Materials	\$0	\$127,825	\$0	0	\$0	\$158,600	0.05%	\$0.30
63.5021	Raceway - Cable Tray	\$0	\$158,600	\$0	0	\$0	\$132,170	0.04%	\$0.25
63.5022	Raceway - General	\$0	\$132,170	\$0	0	\$0	\$400,000	0.13%	\$0.76
Subtotal - Electrical Purchase Contracts:		\$8,431,504	\$6,808,216	\$0	0	\$3,000,000	\$18,239,720	5.84%	\$34.74
Control Purchase Contracts:									
64.0202	Distribution Control System	\$0	\$0	\$0	0	\$0	\$1,100,000	0.35%	\$2.10
64.0206	Instrument Valves	\$1,100,000	\$0	\$0	0	\$0	\$56,400	0.02%	\$0.11
64.0407	On-line Performance Monitoring - Neural Network	\$0	\$56,400	\$0	0	\$0	\$570,000	0.18%	\$1.09
64.1001	Transmitters - Pressure	\$0	\$0	\$0	0	\$570,000	\$570,000	0.18%	\$1.09
64.1003	Switches - Pressure	\$61,500	\$0	\$0	0	\$0	\$61,500	0.02%	\$0.12
64.1203	Thermocouple Assemblies & TWS	\$150,600	\$0	\$0	0	\$0	\$150,600	0.05%	\$0.29
64.1602	Instr. Racks and Enclosures	\$20,000	\$0	\$0	0	\$0	\$20,000	0.01%	\$0.04
64.5010	Tubing	\$0	\$15,000	\$0	0	\$0	\$15,000	0.00%	\$0.03
Subtotal - Control Purchase Contracts:		\$1,332,100	\$161,400	\$0	0	\$570,000	\$2,063,500	0.66%	\$3.93
Chemical Purchase Contracts:									
65.3120	Fabric Filter	\$0	\$0	\$0	0	\$0	\$18,000,000	5.77%	\$34.29
65.3210	Scrubber FGD	\$18,000,000	\$0	\$0	0	\$0	\$50,300,000	16.12%	\$95.81
65.3230	Sorbent Injection System	\$50,300,000	\$0	\$0	0	\$0	\$2,000,000	0.64%	\$3.81
65.3500	H -PAC Mecury Control	\$2,000,000	\$0	\$0	0	\$0	\$1,000,000	0.32%	\$1.90
65.3600	CEMs	\$1,000,000	\$0	\$0	0	\$0	\$850,000	0.27%	\$1.62
Subtotal - Chemical Purchase Contracts:		\$72,150,000	\$0	\$0	0	\$0	\$72,150,000	23.12%	\$137.43
Subtotal Purchase Contracts:		\$90,323,701	\$8,043,451	\$0	0	\$13,007,190	\$111,374,342	35.69%	\$212.14

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		Engr Equip Material \$	Commodities Material \$	Labor \$	Manhours	Other			TOTAL \$
Civil / Structural Construction Contracts:									
71.0100	Demolition Works	\$0	\$0	\$0	0	\$0	\$744,118	0.24%	\$1.42
71.0203	Site Finishing	\$0	\$35,000	\$122,118	2,380	\$587,000	\$82,096	0.03%	\$0.16
71.0402	General Construction - Substructures	\$0	\$1,401,200	\$4,087,675	72,086	\$3,822,733	\$9,311,607	2.98%	\$17.74
71.0403	General Construction - Superstructures	\$1,272,600	\$110,480	\$2,140,245	30,924	\$2,418,750	\$5,942,075	1.90%	\$11.32
71.0411	Concrete Chimney	\$0	\$0	\$0	0	\$19,000,000	\$19,000,000	6.09%	\$36.19
Subtotal - Civil / Structural Construction Contracts:		\$1,272,600	\$1,546,680	\$6,432,134	106,990	\$25,828,483	\$35,079,896	11.24%	\$66.82
Mechanical Construction Contracts:									
72.0201	Mechanical Equipment Erection	\$0	\$0	\$0	0	\$0	\$814,454	0.26%	\$1.55
72.0401	Plant Piping Installation	\$0	\$0	\$814,454	13,312	\$0	\$6,792,532	2.18%	\$12.94
72.0403	Piping & Equipment Insulation	\$0	\$0	\$6,792,532	107,767	\$0	\$2,526,000	0.81%	\$4.81
72.0800	Fire Protection & Detection Systems	\$0	\$0	\$0	0	\$1,569,700	\$1,569,700	0.50%	\$2.99
77.0000	Mechanical Construction	\$0	\$0	\$17,049,056	278,807	\$0	\$17,049,056	5.46%	\$32.47
77.5450	Field Erected Tanks	\$0	\$0	\$0	0	\$1,650,000	\$1,650,000	0.53%	\$3.14
Subtotal - Mechanical Construction Contracts:		\$0	\$0	\$24,656,043	\$399,886	\$5,745,700	\$30,401,743	9.74%	\$57.91
Electrical / Control Construction Contracts:									
73.0201	Electrical Equipment Erection	\$0	\$0	\$0	0	\$0	\$9,747,581	3.12%	\$18.57
74.0201	Control & Instrumentation Installation	\$0	\$264,200	\$9,099,981	145,646	\$383,400	\$788,024	0.25%	\$1.50
Subtotal - Electrical / Control Construction Contracts:		\$0	\$264,200	\$9,888,005	158,259	\$383,400	\$10,535,605	3.38%	\$20.07
Construction Indirects & Service Contracts:									
78.0000	Service Contracts & Construction Indirects	\$0	\$0	\$0	0	\$0	\$31,411,108	10.07%	\$59.83
78.4000	Warranty	\$0	\$5,567,877	\$6,267,772	134,998	\$19,575,459	\$275,300	0.09%	\$0.52
Subtotal - Construction Indirects & Service Contracts:		\$0	\$5,567,877	\$6,267,772	134,998	\$19,850,759	\$31,686,408	10.15%	\$60.36
Subtotal - Construction Costs:		\$1,272,600	\$7,378,757	\$47,243,953	800,133	\$51,808,342	\$107,703,652	34.51%	\$205.15
Subtotal - Direct Costs:		\$91,596,301	\$15,422,208	\$47,243,953	800,133	\$64,815,532	\$219,077,994	70.20%	\$417.29
Indirect Costs:									
99.1100	Engineering Costs (With G&A)	\$0	\$0	\$0	0	\$0	\$19,977,496	6.40%	\$38.05
99.1200	EPC Construction Management (With G&A)	\$0	\$0	\$8,036,000	196,000	\$11,941,496	\$20,365,331	6.53%	\$38.79
99.1500	Project Insurance	\$0	\$3,966,134	\$8,434,489	188,460	\$7,964,709	\$3,937,323	1.26%	\$7.50
99.1600	Performance Bond	\$0	\$0	\$0	0	\$3,937,323	\$1,687,424	0.54%	\$3.21
99.1900	Sales Tax 6% of Indirect materials and Services	\$0	\$0	\$0	0	\$1,687,424	\$90,252	0.03%	\$0.17
99.2500	Project Contingency	\$0	\$90,252	\$0	0	\$0	\$26,513,582	8.50%	\$50.50
99.2600	EPC Profit	\$0	\$0	\$0	0	\$26,513,582	\$20,416,000	6.54%	\$38.89
Subtotal - Indirect Costs:		\$0	\$4,056,386	\$16,470,489	384,460	\$72,460,534	\$92,987,409	29.80%	\$177.12
Total Overnight (Mar 2011) EPC Capital Costs:		\$91,596,301	\$19,478,593	\$63,714,442	1,184,593	\$137,276,066	\$312,065,402	100.00%	\$594.41