

LG&E - KU Mill Creek Unit 4 Wet FGD & PJFF Arrangement "A" Rev. B (Without SCR)

B&V PROJECT #: 168908
 PROJECT ESTIMATOR: Ron Fields
 PROJECT MANAGER: Tim Hillman
 PURPOSE OF ESTIMATE: Budgetary
 ESTIMATE DATE: April-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	\$1,272,600	\$141,200	\$0	0	\$1,737,190	\$3,150,990	1.01%	\$6.00
61.3801	Ductwork and Breeching	\$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	\$3,104,351	\$0	0	\$0	\$3,454,351	1.10%	\$6.58
63.1202	Bus Duct	\$0	\$3,640,040	\$0	0	\$0	\$3,640,040	1.16%	\$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	5.76%	\$34.29
65.3210	Scrubber FGD	\$50,300,000	\$0	\$0	0	\$0	\$50,300,000	16.08%	\$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	2.17%	\$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:		\$91,596,301	\$7,979,626	\$0	0	\$13,007,190	\$112,583,117	36.00%	\$214.44

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	\$0	\$1,393,550	\$2,140,245	30,924	\$2,418,750	\$5,952,545	1.90%	\$11.34
71.0403	Civil / Structural Construction - Sub-Structures	\$0	\$110,480	\$4,079,764	71,951	\$3,822,733	\$8,012,976	2.56%	\$15.26
71.0411	Civil / Structural Construction - Chimney	\$0	\$0	\$0	30,924	\$19,000,000	\$19,000,000	6.08%	\$36.19
72.0000	Mechanical / Chemical Construction	\$0	\$0	\$24,656,043	399,886	\$5,745,700	\$30,401,743	9.72%	\$57.91
73.0000	Electrical / Control Construction	\$0	\$264,200	\$9,835,249	157,414	\$383,400	\$10,482,849	3.35%	\$19.97
78.0000	Service Contracts & Construction Indirects	\$0	\$5,015,771	\$6,217,016	132,437	\$18,341,623	\$29,574,410	9.46%	\$56.33
Subtotal Construction Contracts:		\$0	\$6,819,001	\$47,132,531	827,516	\$50,381,301	\$104,250,737	33.34%	\$198.57

Total Direct Costs

\$91,596,301	\$14,798,627	\$47,132,531	827,516	\$63,388,491	\$216,833,854	69.34%	\$413.02
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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	6.39%	\$38.05
99.1200	EPC Construction Management (With G&A)	\$0	\$123,640	\$9,537,417	209,982	\$13,515,383	\$23,176,441	7.41%	\$44.15
99.1500	Project Insurance	\$0	\$0	\$0	0	\$3,934,548	\$3,934,548	1.26%	\$7.49
99.1600	Performance Bond	\$0	\$0	\$0	0	\$1,686,235	\$1,686,235	0.54%	\$3.21
99.1900	Sales Tax 6% of Indirect materials and Services	\$0	\$93,229	\$0	0	\$0	\$93,229	0.03%	\$0.18
99.2500	Project Contingency 15%	\$0	\$0	\$0	0	\$26,570,180	\$26,570,180	8.50%	\$50.61
99.2600	EPC Profit	\$0	\$0	\$0	0	\$20,460,000	\$20,460,000	6.54%	\$38.97
Total Indirect Costs		\$0	\$216,869	\$17,573,417	405,982	\$78,107,843	\$95,898,129	30.66%	\$182.66

Total Overnight (April 2011) EPC Capital Costs:

\$91,596,301	\$15,015,496	\$64,705,948	1,233,498	\$141,496,334	\$312,731,983	100.00%	\$595.68
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\$0	\$0	\$0	0	\$0	\$0	0.00%	\$0.00
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LG&E - KU- Mill Creek Unit 4 Wet FGD & PJFF- Arrangement "A" Rev. B (Without SCR)

B&V PROJECT #: 168908
 PROJECT ESTIMATOR: Ron Fields
 PROJECT MANAGER: Tim Hillman
 PURPOSE OF ESTIMATE: Budgetary
 ESTIMATE DATE: April-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	\$3,933,000	\$523,835	\$0	0	\$2,637,190	\$7,094,025	2.27%	\$13.51
62.0000	Mechanical	\$5,749,697	\$550,000	\$0	0	\$6,800,000	\$13,099,697	4.19%	\$24.95
63.0000	Electrical	\$8,431,504	\$6,744,391	\$0	0	\$3,000,000	\$18,175,895	5.81%	\$34.62
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	23.07%	\$137.43
Subtotal Purchase Contracts:		\$91,596,301	\$7,979,626	\$0	0	\$13,007,190	\$112,583,117	36.00%	\$214.44

Construction Contracts:

71.0402	Civil / Structural Construction - Substructures	\$0	\$1,539,030	\$6,424,223	106,855	\$25,828,483	\$33,791,735	10.81%	\$64.37
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	9.72%	\$57.91
73.0000	Electrical / Control Construction	\$0	\$264,200	\$9,835,249	157,414	\$383,400	\$10,482,849	3.35%	\$19.97
78.0000	Service Contracts & Construction Indirects	\$0	\$5,015,771	\$6,217,016	132,437	\$18,341,623	\$29,574,410	9.46%	\$56.33
Subtotal Construction Contracts:		\$0	\$6,819,001	\$47,132,531	796,592	\$50,299,205	\$104,250,737	33.34%	\$198.57

Total Direct Costs

\$91,596,301	\$14,798,627	\$47,132,531	796,592	\$63,306,395	\$216,833,854	69.34%	\$413.02
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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	6.39%	\$38.05
99.1200	Construction Management (With G&A)	\$0	\$123,640	\$9,537,417	209,982	\$13,515,383	\$23,176,441	7.41%	\$44.15
99.1500	Project Insurance	\$0	\$0	\$0	0	\$3,934,548	\$3,934,548	1.26%	\$7.49
99.1600	Performance Bond	\$0	\$0	\$0	0	\$1,686,235	\$1,686,235	0.54%	\$3.21
99.1900	Sales Tax 6% of Indirect materials and Services	\$0	\$93,229	\$0	0	\$0	\$93,229	0.03%	\$0.18
99.2500	Project Contingency	\$0	\$0	\$0	0	\$26,570,180	\$26,570,180	8.50%	\$50.61
99.2600	EBIT	\$0	\$0	\$0	0	\$20,460,000	\$20,460,000	6.54%	\$38.97
Total Indirect Costs		\$0	\$216,869	\$17,573,417	405,982	\$78,107,843	\$95,898,129	30.66%	\$182.66

Total Overnight (April 2011) EPC Capital Costs:

\$91,596,301	\$15,015,496	\$64,705,948	1,202,574	\$141,414,238	\$312,731,983	100.00%	\$595.68
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LG&E - KU- Mill Creek Unit 4 Wet FGD & PJFF- Arrangement "A" Rev. B (Without SCR)

B&V PROJECT #: 168908
 PROJECT ESTIMATOR: Ron Fields
 PROJECT MANAGER: Tim Hillman
 PURPOSE OF ESTIMATE: Budgetary
 ESTIMATE DATE: April-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			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:		\$3,933,000	\$523,835	\$0	0	\$2,637,190	\$7,094,025	2.27%	\$13.51
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	2.17%	\$12.95
67.9300	Air Compressors, Dryers, & Air Receivers	\$0	\$0	\$0	0	\$0	\$250,000	0.08%	\$0.48
67.9532	ID Booster Fans	\$250,000	\$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	4.19%	\$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	\$1,567,800	0.50%	\$2.99
63.0804	Cable - 300-600V Instrumnet & T/C	\$0	\$1,567,800	\$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	\$230,000	\$0	\$0	0	\$0	\$230,000	0.07%	\$0.44
63.1202	Non-Seg or SegregatedPhase Bus Duct	\$0	\$3,640,040	\$0	0	\$0	\$3,640,040	1.16%	\$6.93
63.2000	Metering & Relaying	\$120,000	\$0	\$0	0	\$0	\$120,000	0.04%	\$0.23
63.2802	Batteries - DC Equipment	\$0	\$442,750	\$0	0	\$0	\$442,750	0.14%	\$0.84
63.2805	PanelBoards	\$0	\$60,000	\$0	0	\$0	\$60,000	0.02%	\$0.11
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
63.5000	Junction Boxes	\$0	\$13,100	\$0	0	\$0	\$13,100	0.00%	\$0.02
63.5010	Grounding Materials and Equipment	\$0	\$127,600	\$0	0	\$0	\$127,600	0.04%	\$0.24
63.5020	Raceway - Duct Bank Materials	\$0	\$155,000	\$0	0	\$0	\$155,000	0.05%	\$0.30
63.5021	Raceway - Cable Tray	\$0	\$132,170	\$0	0	\$0	\$132,170	0.04%	\$0.25
63.5022	Raceway - General	\$0	\$400,000	\$0	0	\$0	\$400,000	0.13%	\$0.76
Subtotal - Electrical Purchase Contracts:		\$8,431,504	\$6,744,391	\$0	0	\$3,000,000	\$18,175,895	5.81%	\$34.62
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	\$61,500	\$0	\$0	0	\$0	\$61,500	0.02%	\$0.12
64.1003	Switches - Pressure	\$150,600	\$0	\$0	0	\$0	\$150,600	0.05%	\$0.29
64.1203	Thermocouple Assemblies & TWS	\$20,000	\$0	\$0	0	\$0	\$20,000	0.01%	\$0.04
64.1602	Instr. Racks and Enclosures	\$0	\$15,000	\$0	0	\$0	\$15,000	0.00%	\$0.03
64.5010	Tubing	\$0	\$90,000	\$0	0	\$0	\$90,000	0.03%	\$0.17
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	5.76%	\$34.29
65.3210	Scrubber FGD	\$18,000,000	\$0	\$0	0	\$0	\$50,300,000	16.08%	\$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	23.07%	\$137.43
Subtotal Purchase Contracts:		\$91,596,301	\$7,979,626	\$0	0	\$13,007,190	\$112,583,117	36.00%	\$214.44

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Contract Number	Description	PROJECT - TOTAL COSTS					% OF TOTAL C.V.	\$ PER KW 525	
		Engr Equip Material \$	Commodities Material \$	Labor \$	Manhours	Other			TOTAL \$
Civil / Structural Construction Contracts:		\$0	\$0	\$0	0	\$0			
71.0100	Demolition Works	\$0	\$35,000	\$122,118	2,380	\$587,000	\$744,118	0.24%	\$1.42
71.0203	Site Finishing	\$0	\$0	\$82,096	1,600	\$0	\$82,096	0.03%	\$0.16
71.0402	General Construction - Substructures	\$0	\$1,393,550	\$4,079,764	71,951	\$3,822,733	\$9,296,046	2.97%	\$17.71
71.0403	General Construction - Superstructures	\$0	\$110,480	\$2,140,245	30,924	\$2,418,750	\$4,669,475	1.49%	\$8.89
71.0411	Concrete Chimney	\$0	\$0	\$0	0	\$19,000,000	\$19,000,000	6.08%	\$36.19
Subtotal - Civil / Structural Construction Contracts:		\$0	\$1,539,030	\$6,424,223	106,855	\$25,828,483	\$33,791,735	10.81%	\$64.37
Mechanical Construction Contracts:		\$0	\$0	\$0	0	\$0			
72.0201	Mechanical Equipment Erection	\$0	\$0	\$814,454	13,312	\$0	\$814,454	0.26%	\$1.55
72.0401	Plant Piping Installation	\$0	\$0	\$6,792,532	107,767	\$0	\$6,792,532	2.17%	\$12.94
72.0403	Piping & Equipment Insulation	\$0	\$0	\$0	0	\$2,526,000	\$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	5.45%	\$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	9.72%	\$57.91
Electrical / Control Construction Contracts:		\$0	\$0	\$0	0	\$0			
73.0201	Electrical Equipment Erection	\$0	\$264,200	\$9,047,225	144,802	\$383,400	\$9,694,825	3.10%	\$18.47
74.0201	Control & Instrumentation Installation	\$0	\$0	\$788,024	12,612	\$0	\$788,024	0.25%	\$1.50
Subtotal - Electrical / Control Construction Contracts:		\$0	\$264,200	\$9,835,249	157,414	\$383,400	\$10,482,849	3.35%	\$19.97
Construction Indirects & Service Contracts:		\$0	\$0	\$0	0	\$0			
78.0000	Service Contracts & Construction Indirects	\$0	\$5,015,771	\$6,217,016	132,437	\$17,990,623	\$29,223,410	9.34%	\$55.66
78.4000	Warranty	\$0	\$0	\$0	0	\$351,000	\$351,000	0.11%	\$0.67
Subtotal - Construction Indirects & Service Contracts:		\$0	\$5,015,771	\$6,217,016	132,437	\$18,341,623	\$29,574,410	9.46%	\$56.33
Subtotal - Construction Costs:		\$0	\$6,819,001	\$47,132,531	796,592	\$50,299,205	\$104,250,737	33.34%	\$198.57
Subtotal - Direct Costs:		\$91,596,301	\$14,798,627	\$47,132,531	796,592	\$63,306,395	\$216,833,854	69.34%	\$413.02
Indirect Costs:		\$0	\$0	\$0	0	\$0			
99.1100	Engineering Costs (With G&A)	\$0	\$0	\$8,036,000	196,000	\$11,941,496	\$19,977,496	6.39%	\$38.05
99.1200	EPC Construction Management (With G&A)	\$0	\$123,640	\$9,537,417	209,982	\$13,515,383	\$23,176,441	7.41%	\$44.15
99.1500	Project Insurance	\$0	\$0	\$0	0	\$3,934,548	\$3,934,548	1.26%	\$7.49
99.1600	Performance Bond	\$0	\$0	\$0	0	\$1,686,235	\$1,686,235	0.54%	\$3.21
99.1900	Sales Tax 6% of Indirect materials and Services	\$0	\$93,229	\$0	0	\$0	\$93,229	0.03%	\$0.18
99.2500	Project Contingency	\$0	\$0	\$0	0	\$26,570,180	\$26,570,180	8.50%	\$50.61
99.2600	EPC Profit	\$0	\$0	\$0	0	\$20,460,000	\$20,460,000	6.54%	\$38.97
Subtotal - Indirect Costs:		\$0	\$216,869	\$17,573,417	405,982	\$78,107,843	\$95,898,129	30.66%	\$182.66
Total Overnight (April 2011) EPC Capital Costs:		\$91,596,301	\$15,015,496	\$64,705,948	1,202,574	\$141,414,238	\$312,731,983	100.00%	\$595.68