

# LG&E - KU- Mill Creek Common 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.
		Engr Equip	Commodities				
		Material \$	Material \$	Labor \$	Manhours	Other	

### ESTIMATE SUMMARY

#### Purchase Contracts:

63.0000	Electrical - Reserve Switchgear , MCC's, Raceway	\$480,000	\$1,095,661	\$0	0	\$0	\$1,575,661	3.43%
63.3603	Reserve Switchgear and MCCs	\$264,000	\$0	\$0	0	\$500,000	\$764,000	1.66%
63.3802	Reserve Aux Transformers	\$2,034,480	\$0	\$0	0	\$0	\$2,034,480	4.43%
<b>Subtotal Purchase Contracts:</b>		<b>\$2,778,480</b>	<b>\$1,095,661</b>	<b>\$0</b>	<b>0</b>	<b>\$500,000</b>	<b>\$4,374,141</b>	<b>9.52%</b>

#### Construction Contracts:

71.0401	Civil / Structural Construction - Cast in-place Piling	\$0	\$0	\$0	0	\$252,000	\$252,000	0.55%
71.0403	Civil / Structural Construction - Sub-Structures	\$0	\$255,055	\$682,884	11,965	\$18,500	\$956,439	2.08%
71.0822	Civil / Structural Construction - Fly Ash Silo	\$0	\$0	\$0	0	\$11,300,000	\$11,300,000	24.59%
72.0000	Mechanical / Chemical Construction	\$0	\$0	\$0	0	\$1,321,250	\$1,321,250	2.88%
73.0000	Electrical / Control Construction	\$0	\$0	\$8,108,517	129,778	\$0	\$8,108,517	17.65%
78.0000	Service Contracts & Construction Indirects	\$0	\$963,142	\$1,193,809	25,431	\$3,783,214	\$5,940,166	12.93%
<b>Subtotal Construction Contracts:</b>		<b>\$0</b>	<b>\$1,218,197</b>	<b>\$9,985,210</b>	<b>167,174</b>	<b>\$16,674,964</b>	<b>\$27,878,372</b>	<b>60.67%</b>

#### Total Direct Costs

<b>\$2,778,480</b>	<b>\$2,313,858</b>	<b>\$9,985,210</b>	<b>167,174</b>	<b>\$17,174,964</b>	<b>\$32,252,513</b>	<b>70.19%</b>
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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	3.33%
99.1200	EPC Construction Management (Includes G&A & Fee)	\$0	\$23,742	\$1,831,402	40,321	\$2,595,262	\$4,450,405	9.69%
99.1500	Project Insurance	\$0	\$0	\$0	0	\$552,559	\$552,559	1.20%
99.1600	Performance Bond	\$0	\$0	\$0	0	\$236,811	\$236,811	0.52%
99.1900	Sales Tax 6% of Indirect materials and Services	\$0	\$17,902	\$0	0	\$0	\$17,902	0.04%
99.2500	Project Contingency 10%	\$0	\$0	\$0	0	\$3,903,908	\$3,903,908	8.50%
99.2600	EPC Profit	\$0	\$0	\$0	0	\$3,007,000	\$3,007,000	6.54%
<b>Total Indirect Costs</b>		<b>\$0</b>	<b>\$41,644</b>	<b>\$2,446,402</b>	<b>55,321</b>	<b>\$11,209,430</b>	<b>\$13,697,475</b>	<b>29.81%</b>

#### Total Overnight (April 2011) EPC Capital Costs:

<b>\$2,778,480</b>	<b>\$2,355,502</b>	<b>\$12,431,612</b>	<b>222,495</b>	<b>\$28,384,394</b>	<b>\$45,949,988</b>	<b>100.00%</b>
\$0	\$0	\$0	0	\$0	\$0	0.00%

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 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.
		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	9.52%
64.0000	Control	\$0	\$0	\$0	0	\$0	\$0	0.00%
65.0000	Chemical	\$0	\$0	\$0	0	\$0	\$0	0.00%
<b>Subtotal Purchase Contracts:</b>		<b>\$2,778,480</b>	<b>\$1,095,661</b>	<b>\$0</b>	<b>0</b>	<b>\$500,000</b>	<b>\$4,374,141</b>	<b>9.52%</b>

#### Construction Contracts:

71.0402	Civil / Structural Construction -Substructures	\$0	\$255,055	\$682,884	11,965	\$11,570,500	\$12,508,439	27.22%
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	2.88%
73.0000	Electrical / Control Construction	\$0	\$0	\$8,108,517	129,778	\$0	\$8,108,517	17.65%
78.0000	Service Contracts & Construction Indirects	\$0	\$963,142	\$1,193,809	25,431	\$3,783,214	\$5,940,166	12.93%
<b>Subtotal Construction Contracts:</b>		<b>\$0</b>	<b>\$1,218,197</b>	<b>\$9,985,210</b>	<b>167,174</b>	<b>\$16,674,964</b>	<b>\$27,878,372</b>	<b>60.67%</b>

#### Total Direct Costs

<b>\$2,778,480</b>	<b>\$2,313,858</b>	<b>\$9,985,210</b>	<b>167,174</b>	<b>\$17,174,964</b>	<b>\$32,252,513</b>	<b>70.19%</b>
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#### Indirect Costs:

99.1100	Engineering Costs (With G&A)	\$0	\$0	\$615,000	15,000	\$913,890	\$1,528,890	3.33%
99.1200	Construction Management (With G&A)	\$0	\$23,742	\$1,831,402	40,321	\$2,595,262	\$4,450,405	9.69%
99.1500	Project Insurance	\$0	\$0	\$0	0	\$552,559	\$552,559	1.20%
99.1600	Performance Bond	\$0	\$0	\$0	0	\$236,811	\$236,811	0.52%
99.1900	Sales Tax 6% of Indirect materials and Services	\$0	\$17,902	\$0	0	\$0	\$17,902	0.04%
99.2500	Project Contingency 10%	\$0	\$0	\$0	0	\$3,903,908	\$3,903,908	8.50%
99.2600	EPC profit	\$0	\$0	\$0	0	\$3,007,000	\$3,007,000	6.54%
<b>Total Indirect Costs</b>		<b>\$0</b>	<b>\$41,644</b>	<b>\$2,446,402</b>	<b>55,321</b>	<b>\$11,209,430</b>	<b>\$13,697,475</b>	<b>29.81%</b>

#### Total Overnight (April 2011) EPC Capital Costs:

<b>\$2,778,480</b>	<b>\$2,355,502</b>	<b>\$12,431,612</b>	<b>222,495</b>	<b>\$28,384,394</b>	<b>\$45,949,988</b>	<b>100.00%</b>
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 PLANT TYPE: PC Fired Boiler  
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 PARTNER: N/A  
 CURRENCY: US Dollars

## BLACK AND VEATCH CONFIDENTIAL AND PROPRIETARY INFORMATION

Contract Number	Description	PROJECT - TOTAL COSTS					TOTAL \$	% OF TOTAL C.V.
		Engr Equip Material \$	Commodities Material \$	Labor \$	Manhours	Other		
<b>Civil / Structural Purchase Contracts:</b>								
	<b>Subtotal - Civil / Structural Purchase Contracts:</b>	\$0	\$0	\$0	0	\$0	\$0	0.00%
<b>Mechanical Purchase Contracts:</b>								
	<b>Subtotal - Mechanical Purchase Contracts:</b>	\$0	\$0	\$0	0	\$0	\$0	0.00%
<b>Electrical Purchase Contracts:</b>								
63.0801	Cable - 8-15KV Power	\$0	\$116,460	\$0	0	\$0	\$116,460	0.25%
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	2.08%
63.3600	Switchgear and Motor Control Assemblies	\$480,000	\$0	\$0	0	\$0	\$480,000	1.04%
63.3603	Switchgear & MCCs	\$264,000	\$0	\$0	0	\$500,000	\$764,000	1.66%
63.3802	SUS Transformers	\$2,034,480	\$0	\$0	0	\$0	\$2,034,480	4.43%
63.5020	Raceway - Duct Bank Materials	\$0	\$16,176	\$0	0	\$0	\$16,176	0.04%
	<b>Subtotal - Electrical Purchase Contracts:</b>	<b>\$2,778,480</b>	<b>\$1,095,661</b>	<b>\$0</b>	<b>0</b>	<b>\$500,000</b>	<b>\$4,374,141</b>	<b>9.52%</b>
<b>Control Purchase Contracts:</b>								
	<b>Subtotal - Control Purchase Contracts:</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>\$0</b>	<b>0.00%</b>
<b>Chemical Purchase Contracts:</b>								
	<b>Subtotal - Chemical Purchase Contracts:</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>\$0</b>	<b>0.00%</b>
	<b>Subtotal Purchase Contracts:</b>	<b>\$2,778,480</b>	<b>\$1,095,661</b>	<b>\$0</b>	<b>0</b>	<b>\$500,000</b>	<b>\$4,374,141</b>	<b>9.52%</b>

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Contract Number	Description	PROJECT - TOTAL COSTS					% OF TOTAL C.V.	
		Engr Equip Material \$	Commodities Material \$	Labor \$	Manhours	Other		TOTAL \$
<b>Civil / Structural Construction Contracts:</b>								
71.0401	Cast In place Piling	\$0	\$0	\$0	0	\$0	\$252,000	0.55%
71.0402	General Construction - Substructures	\$0	\$255,055	\$682,884	11,965	\$18,500	\$956,439	2.08%
71.0822	Fly Ash Silo	\$0	\$0	\$0	0	\$11,300,000	\$11,300,000	24.59%
<b>Subtotal - Civil / Structural Construction Contracts:</b>		<b>\$0</b>	<b>\$255,055</b>	<b>\$682,884</b>	<b>11,965</b>	<b>\$11,570,500</b>	<b>\$12,508,439</b>	<b>27.22%</b>
<b>Mechanical Construction Contracts:</b>								
72.0800	Fire Protection & Detection Systems	\$0	\$0	\$0	0	\$0	\$1,321,250	2.88%
<b>Subtotal - Mechanical Construction Contracts:</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>0</b>	<b>\$1,321,250</b>	<b>\$1,321,250</b>	<b>2.88%</b>
<b>Electrical / Control Construction Contracts:</b>								
73.0201	Electrical Equipment Erection	\$0	\$0	\$0	0	\$0	\$8,108,517	17.65%
<b>Subtotal - Electrical / Control Construction Contracts:</b>		<b>\$0</b>	<b>\$0</b>	<b>\$8,108,517</b>	<b>129,778</b>	<b>\$0</b>	<b>\$8,108,517</b>	<b>17.65%</b>
<b>Construction Indirects &amp; Service Contracts:</b>								
78.0000	Service Contracts & Construction Indirects	\$0	\$0	\$0	0	\$0	\$5,872,766	12.78%
78.4000	Warranty	\$0	\$963,142	\$1,193,809	25,431	\$3,715,814	\$67,400	0.15%
<b>Subtotal - Construction Indirects &amp; Service Contracts:</b>		<b>\$0</b>	<b>\$963,142</b>	<b>\$1,193,809</b>	<b>25,431</b>	<b>\$3,783,214</b>	<b>\$5,940,166</b>	<b>12.93%</b>
<b>Subtotal - Construction Costs:</b>		<b>\$0</b>	<b>\$1,218,197</b>	<b>\$9,985,210</b>	<b>167,174</b>	<b>\$16,674,964</b>	<b>\$27,878,372</b>	<b>60.67%</b>
<b>Subtotal - Direct Costs:</b>		<b>\$2,778,480</b>	<b>\$2,313,858</b>	<b>\$9,985,210</b>	<b>167,174</b>	<b>\$17,174,964</b>	<b>\$32,252,513</b>	<b>70.19%</b>
<b>Indirect Costs:</b>								
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