

Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities  
 DE 16-383 Step Adjustment  
 Pelham Substation Summary of Costs

Project #8830-18000058 - Substation Build



Year	Materials	Internal Labor	Overheads	Vendors	AFUDC	Subtotal	Planning Criteria		Total
							Exclusion	Materials Return	
2014	\$0.00	\$605.76	\$0.00	\$7,326.00	\$35.98	\$7,967.74	\$0.00	\$0.00	\$7,967.74
2015	\$0.00	\$7,313.94	\$37,657.51	\$30,959.36	\$3,863.47	\$79,794.28	\$0.00	\$0.00	\$79,794.28
2016	\$37,485.00	\$25,490.08	\$138,188.66	\$225,999.23	\$20,119.45	\$447,282.42	\$0.00	\$0.00	\$447,282.42
2017	<u>\$824,226.11</u>	<u>\$88,595.35</u>	<u>\$1,136,837.57</u>	<u>\$1,766,495.74</u>	<u>\$113,214.85</u>	<u>\$3,929,369.62</u>	<u>(\$39,740)</u>	<u>\$0.00</u>	<u>\$3,889,629.62</u>
Total	\$861,711.11	\$122,005.13	\$1,312,683.74	\$2,030,780.33	\$137,233.75	\$4,464,414.06	(\$39,740.00)	\$0.00	\$4,424,674.06
<b>2018</b>	<b><u>\$0.00</u></b>	<b><u>\$452.08</u></b>	<b><u>\$119,478.95</u></b>	<b><u>(\$198,432.89)</u></b>	<b><u>\$0.00</u></b>	<b><u>(\$78,501.86)</u></b>	<b><u>\$0.00</u></b>	<b><u>(\$10,049.84)</u></b>	<b><u>(\$88,551.70)</u></b>
<b>Final Total<sup>1</sup></b>	<b><u>\$861,711.11</u></b>	<b><u>\$122,457.21</u></b>	<b><u>\$1,432,162.69</u></b>	<b><u>\$1,832,347.44</u></b>	<b><u>\$137,233.75</u></b>	<b><u>\$4,385,912.20</u></b>	<b><u>(\$39,740.00)</u></b>	<b><u>(\$10,049.84)</u></b>	<b><u>\$4,336,122.36</u></b>

<sup>1</sup> The total in the last column includes the planning criteria exclusion of \$39,740 and materials return reduction from \$30,002.55 to \$10,049.84. The total amount of the project noted in testimony includes the planning criteria at \$4,375,862.

Project #8830-17145101 - Addition of Getaway Cables

Year	Materials	Internal Labor	Overheads	Vendors	AFUDC	Total
2014	\$7,200.00	\$0.00	\$762.27	\$7,968.16	\$60.50	\$15,990.93
2015	\$0.00	\$811.28	\$6,804.45	\$4,646.43	\$1,783.11	\$14,045.27
2016	\$0.00	\$5,048.73	\$8,703.89	\$129,046.08	\$196.78	\$142,995.48
2017	<u>\$1,200.00</u>	<u>\$1,963.41</u>	<u>\$80,878.60</u>	<u>\$186,012.62</u>	<u>\$3,475.76</u>	<u>\$273,530.39</u>
Total	\$8,400.00	\$7,823.42	\$97,149.21	\$327,673.29	\$5,516.15	\$446,562.07
<b>2018</b>	<b><u>\$118,984.60</u></b>	<b><u>\$0.00</u></b>	<b><u>\$73,081.09</u></b>	<b><u>\$0.00</u></b>	<b><u>\$0.00</u></b>	<b><u>\$192,065.69</u></b>
<b>Final Total</b>	<b><u>\$127,384.60</u></b>	<b><u>\$7,823.42</u></b>	<b><u>\$170,230.30</u></b>	<b><u>\$327,673.29</u></b>	<b><u>\$5,516.15</u></b>	<b><u>\$638,627.76</u></b>

Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities  
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 Pelham Material Costs Project #8830-18000058 Substation Build

<u>Year</u>	<u>Material</u>	<u>Cost</u>	<u>Description</u>
2016	Disconnect Switches	\$37,485	Disconnect switches
	<b>Total 2016 Materials</b>	<b>\$37,485</b>	
2017	SEL Control House	\$445,900	Control House with RTU, 125 VDC battery bank, charger and relay cabinets
2017	Mag Breakers	\$138,078	Purchased eight 15 kV breakers
2017	MODX Switches	\$37,300	Purchased two (2) manually gang-operated 3-phase disconnect switches
2017	Structures and Bus	\$72,371	Aluminum structures and integral web bus
2017	Cable Trench	\$21,634	Purchased 118 linear feet of cable trench
2017	Bus Insulators	\$10,044	Purchased 120 15 kV Bus support insulators
2017	Misc Materials	\$98,899.11	Includes items such as nuts, bolts, poles, and crossarms
	<b>Total 2017 Materials</b>	<b>\$824,226</b>	

<u>Year</u>	<u>Material Returns</u>	<u>Cost</u>	<u>Description</u>
2017	Misc Materials	\$0	Includes items such as pins, bolts, poles, and crossarms
	<b>Total 2017 Materials Return</b>	<b>\$0</b>	
2018	Misc Materials Return	\$10,050	Includes items such as pins, bolts, poles, and crossarms
	<b>Total Materials</b>	<b>\$10,050</b>	

<u>Year</u>	<u>Planning Criteria Exclusions</u>	<u>Cost</u>	<u>Description</u>
2017	Circuit Breaker	\$15,342	
2017	Disconnect Switches	\$2,940	
2017	Breaker & Switches Labor	\$8,168	Labor for installation of the circuit breaker and disconnect switches
2017	Relay Cabinet Labor	\$13,290	Installation of Relay Cabinet inside control house
	<b>Total Planning Criteria Exclusions</b>	<b>\$39,740</b>	

Pelham Material Costs Project #8830-17145101 Addition of Getaway Cables

<u>Year</u>	<u>Material</u>	<u>Cost</u>	<u>Description</u>
2014	Steel Reel	\$7,200	Wire Reel
2017	Manhole Covers	\$1,200	Frame and cover for 4-way manhole
	<b>Total Materials</b>	<b>\$8,400</b>	
2018	Getaway Cables	\$118,985	1900 feet of getaway cables
	<b>Total Materials</b>	<b>\$127,385</b>	