

Cost Estimate Ellendale 180MW Upgrade - Applied Block Chain					
Description	Quantity	Unit	Amount	Extended Amount	Notes
New 34.5kV @ 3000A					
34.5kV Vacuum Circuit Breaker	2	EA	\$ -	\$ -	To be supplied by Customer
41.6kV Double Circuit Line - 1,500 FT (Labor and Material)	1	LOT	\$ 600,000.00	\$ 600,000.00	
69kV 3000A Switch	3	EA	\$ 7,500.00	\$ 22,500.00	
Line 69kV VT	3	EA	\$ 6,500.00	\$ 19,500.00	
Deadend Structures	2	EA	\$ 45,000.00	\$ 90,000.00	
Single Leg Deadends	2	EA	\$ 24,500.00	\$ 49,000.00	
3-Phase Angled Steel Structure	2	EA	\$ 5,700.00	\$ 11,400.00	
3-Phase VT Steel Structure	1	EA	\$ 5,250.00	\$ 5,250.00	
Buswork	1	LOT	\$ 60,000.00	\$ 60,000.00	
New Fence - 313FT	1	LOT	\$ 63,000.00	\$ 63,000.00	
Camera Wire Upgrades with New Fence	1	LOT	\$ 27,000.00	\$ 27,000.00	
Fence Installation	1	LOT	\$ 78,750.00	\$ 78,750.00	
Grading, Tree Removal, Gravel, Crushed Rock, Herbicide	1	LOT	\$ 300,000.00	\$ 300,000.00	
Control Cable	1	LOT	\$ 112,000.00	\$ 112,000.00	
Grounding and Conduit	1	LOT	\$ 33,000.00	\$ 33,000.00	
Foundations (Included Labor)	1	LOT	\$ 117,000.00	\$ 117,000.00	
Protective Relays & Control Equipment	1	LOT	\$ 120,000.00	\$ 120,000.00	
Construction Labor New	1	LOT	\$ 350,000.00	\$ 350,000.00	
Construction Labor Demo	1	LOT	\$ 150,000.00	\$ 150,000.00	
Transportation & Equipment	1	LOT	\$ 25,000.00	\$ 25,000.00	
Engineering/Consultant Design and Checkout	1	LOT	\$ 315,000.00	\$ 315,000.00	
Overhead (ES&GA)	1	LOT	\$ 226,350.00	\$ 226,350.00	
TOTAL:				\$ 2,774,750.00	
10% Adder				\$ 277,475.00	
Grand TOTAL				\$ 3,052,225.00	
Tax Gross up (12.84%)				\$ 391,905.69	
\$				3,444,131	

