

## **APPENDIX B TFO CAPITAL COST ESTIMATES**



**TRANSMISSION PROJECT ESTIMATE SUMMARY**

<b>Project Name &amp; No.</b>	Wheatland WAGF (Updated SP with Parker Modular layout )		P1718	
<b>Prepared by:</b>	ATCO Electric Transmission			
<b>AACE Class: (future use)</b>	N/A	<b>Estimate Basis</b>	<b>Service Proposal</b>	
<b>High Range</b>	20%	<b>Low Range</b>	-10%	
<b>Date of Estimate:</b>	May 10, 2018	<b>Base Year Used</b>	2018	
<b>In Service Date</b>	31-Dec-19	<b>In Service Year \$</b>	2019	
	SYSTEM	CUSTOMER	TOTAL	ASSUMPTIONS
<b>TRANSMISSION LINE</b>				
Material	\$ -	\$ 88,543	\$ 88,543	
Labour	\$ -	\$ 392,702	\$ 392,702	
<b>TOTAL TRANSMISSION LINE</b>	<b>\$ -</b>	<b>\$ 481,245</b>	<b>\$ 481,245</b>	
<b>SUBSTATION</b>				
Material	\$ -	\$ 1,745,801	\$ 1,745,801	
Labour	\$ -	\$ 3,130,994	\$ 3,130,994	
<b>TOTAL SUBSTATION</b>	<b>\$ -</b>	<b>\$ 4,876,795</b>	<b>\$ 4,876,795</b>	
<b>TELECOMMUNICATION</b>				
Material	\$ -	\$ 184,549	\$ 184,549	
Labour	\$ -	\$ 197,931	\$ 197,931	
<b>TOTAL TELECOMMUNICATIONS</b>	<b>\$ -</b>	<b>\$ 382,480</b>	<b>\$ 382,480</b>	
<b>OWNERS</b>				
Pre-SP Cost	\$ -	\$ 160,763	\$ 160,763	
Service Proposal	\$ -	\$ 100,000	\$ 100,000	
Facility Applications	\$ -	\$ 144,225	\$ 144,225	
Regulatory & Compliance	\$ -	\$ 10,000	\$ 10,000	
Land Rights - Easements	\$ -	\$ 4,889	\$ 4,889	
Land - Damage Claims	\$ -	\$ 3,000	\$ 3,000	
Land - Acquisitions	\$ -	\$ 82,500	\$ 82,500	
Other	\$ -	\$ -	\$ -	
<b>TOTAL OWNERS COST</b>	<b>\$ -</b>	<b>\$ 505,377</b>	<b>\$ 505,377</b>	
<b>DISTRIBUTED</b>				
Procurement Management	\$ -	\$ 105,754	\$ 105,754	
Project Management	\$ -	\$ 337,224	\$ 337,224	
Construction Management	\$ -	\$ 506,678	\$ 506,678	
Contingency	\$ -	\$ 707,300	\$ 707,300	
Escalation	\$ -	\$ 176,597	\$ 176,597	
<b>TOTAL DISTRIBUTED</b>	<b>\$ -</b>	<b>\$ 1,833,553</b>	<b>\$ 1,833,553</b>	
<b>SALVAGE</b>				
Transmission Line Labour	\$ -	\$ 23,200	\$ 23,200	Estimated for 160hrs to salvage wooden structures on existing 7L85
Substation Labour	\$ -	\$ 2,760	\$ 2,760	Includes removal of equipment and cabling, disposal, etc - Anderson and Bullpound RAS circuit removal.
Land Remediation and Reclamation	\$ -	\$ -	\$ -	
<b>TOTAL SALVAGE</b>	<b>\$ -</b>	<b>\$ 25,960</b>	<b>\$ 25,960</b>	
<b>OTHER COSTS</b>				
AFUDC	\$ -	\$ -	\$ -	
E&S/Overhead	\$ -	\$ 1,221,648	\$ 1,221,648	
<b>TOTAL OTHER</b>	<b>\$ -</b>	<b>\$ 1,221,648</b>	<b>\$ 1,221,648</b>	
<b>TOTAL PROJECT</b>	<b>\$ -</b>	<b>\$ 9,327,058</b>	<b>\$ 9,327,058</b>	

AESO Project Name & No.	Wheatland RAS		P1718	<b>TRANSMISSION PROJECT ESTIMATE SUMMARY</b>
Prepared by:	AML Management Ltd.			
AACE Class:	N/A	Estimate Basis	Service Proposal	
High Range	30%	Low Range	-30%	
Date of Estimate:	September 21, 2018	Base Year Used	2018	
In Service Date	12/31/2019			
	SYSTEM	PARTICIPANT	TOTAL	ASSUMPTIONS
<b>TRANSMISSION LINE</b>				
Material	\$ -	\$ -	\$ -	
Labour	\$ -	\$ -	\$ -	
Supply & Install	\$ -	\$ -	\$ -	
<b>TOTAL TRANSMISSION LINE</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	
<b>SUBSTATION</b>				
Material	\$ -	\$ 32,400	\$ 32,400	
Labour	\$ -	\$ 84,400	\$ 84,400	
Supply & Install	\$ -	\$ -	\$ -	
<b>TOTAL SUBSTATION</b>	<b>\$ -</b>	<b>\$ 116,800</b>	<b>\$ 116,800</b>	
<b>TELECOMMUNICATION</b>				
Material	\$ -	\$ 105,000	\$ 105,000	
Labour	\$ -	\$ 153,100	\$ 153,100	
Supply & Install	\$ -	\$ -	\$ -	
<b>TOTAL TELECOMMUNICATIONS</b>	<b>\$ -</b>	<b>\$ 258,100</b>	<b>\$ 258,100</b>	
<b>OWNERS</b>				
Pre-SP Cost			\$ -	
Service Proposal		\$ 40,000	\$ 40,000	
Facility Applications			\$ -	
Regulatory & Compliance			\$ -	
Land Rights - Easements			\$ -	
Land - Damage Claims			\$ -	
Land - Acquisitions			\$ -	
Land - Other			\$ -	
<b>TOTAL OWNERS COST</b>	<b>\$ -</b>	<b>\$ 40,000</b>	<b>\$ 40,000</b>	
<b>DISTRIBUTED</b>				
Procurement Management	\$ -	\$ 1,000	\$ 1,000	
Project Management	\$ -	\$ 55,000	\$ 55,000	
Construction Management	\$ -	\$ 13,000	\$ 13,000	
Contingency	\$ -	\$ 26,750	\$ 26,750	
Escalation	\$ -	\$ -	\$ -	
<b>TOTAL DISTRIBUTED</b>	<b>\$ -</b>	<b>\$ 95,750</b>	<b>\$ 95,750</b>	
<b>SALVAGE</b>				
Transmission Line Labour	\$ -	\$ -	\$ -	
Substation Labour	\$ -	\$ 6,250	\$ 6,250	
Telecom Labour	\$ -	\$ -	\$ -	
Land Remediation and Reclamation			\$ -	
<b>TOTAL SALVAGE</b>	<b>\$ -</b>	<b>\$ 6,250</b>	<b>\$ 6,250</b>	

<b>OTHER COSTS</b>				
AFUDC			\$	-
E&S/Overhead		\$ 56,859	\$	56,859
<b>TOTAL OTHER</b>	<b>\$ -</b>	<b>\$ 56,859</b>	<b>\$</b>	<b>56,859</b>
<b>TOTAL PROJECT</b>	<b>\$ -</b>	<b>\$ 573,759</b>	<b>\$</b>	<b>573,759</b>