



APPENDIX C CAPITAL COST ESTIMATES FROM THE TFO

AESO Project Name & No.	Rycroft Transmission Reinforcement R1 - Opt. 1 Alt 6			P1784	
Prepared by:	ATCO Electric				
AACE Class:	N/A	Estimate Basis	NID		
High Range	30%	Low Range	-30%		
Date of Estimate:	September 20, 2017	Base Year \$	2017		
In Service Date	09-Jul-21	In Service Year \$	2021		
	SYSTEM	CUSTOMER	TOTAL	ASSUMPTIONS	
TRANSMISSION LINE					
Material	\$ -	\$ -	\$ -		
Labour	\$ -	\$ -	\$ -		
TOTAL TRANSMISSION LINE	\$ -	\$ -	\$ -		
SUBSTATION					
Material	\$ 18,510,473	\$ -	\$ 18,510,473		
Labour	\$ 5,686,868	\$ -	\$ 5,686,868		
Supply & Install	\$ -	\$ -	\$ -		
TOTAL SUBSTATION	\$ 24,197,341	\$ -	\$ 24,197,341		
TELECOMMUNICATION					
Material	\$ -	\$ -	\$ -		
Labour	\$ -	\$ -	\$ -		
TOTAL TELECOMMUNICATIONS	\$ -	\$ -	\$ -		
OWNERS					
Pre-SP Cost	\$ 136,064	\$ -	\$ 136,064		
Service Proposal	\$ 300,000	\$ -	\$ 300,000		
Facility Applications	\$ 229,003	\$ -	\$ 229,003		
Regulatory & Compliance	\$ 6,000	\$ -	\$ 6,000		
Land Rights - Easements	\$ 220,092	\$ -	\$ 220,092		
Land - Damage Claims	\$ 3,000	\$ -	\$ 3,000		
Land - Acquisitions	\$ -	\$ -	\$ -		
Other	\$ -	\$ -	\$ -		
TOTAL OWNERS COST	\$ 894,159	\$ -	\$ 894,159		
DISTRIBUTED					
Procurement Management	\$ 154,911	\$ -	\$ 154,911		
Project Management	\$ 447,000	\$ -	\$ 447,000		
Construction Management	\$ 324,986	\$ -	\$ 324,986		
Contingency	\$ 5,016,440	\$ -	\$ 5,016,440		
Escalation	\$ 2,241,449	\$ -	\$ 2,241,449		
TOTAL DISTRIBUTED	\$ 8,184,786	\$ -	\$ 8,184,786		
SALVAGE					
Transmission Line Labour	\$ -	\$ -	\$ -		
Substation Labour	\$ 209,600	\$ -	\$ 209,600		
Land Remediation and Reclamation	\$ -	\$ -	\$ -		
TOTAL SALVAGE	\$ 209,600	\$ -	\$ 209,600		
OTHER COSTS					
AFUDC	\$ 2,463,786	\$ -	\$ 2,463,786	5.98%	
E&S/Overhead	\$ 4,368,254	\$ -	\$ 4,368,254		
TOTAL OTHER	\$ 6,832,040	\$ -	\$ 6,832,040		
TOTAL PROJECT	\$ 40,317,926	\$ -	\$ 40,317,926		



AESO Project Name & No.	Rycroft Transmission Reinforcement R1 - Opt. 2		P1784
Prepared by:	ATCO Electric		
AACE Class:	N/A	Estimate Basis	NID
High Range	30%	Low Range	-30%
Date of Estimate:	November 15, 2017	Base Year \$	2017
In Service Date	04/30/2021	In Service Year \$	2021
	SYSTEM	CUSTOMER	TOTAL
TRANSMISSION LINE			
Material	\$ 3,692,486	\$ -	\$ 3,692,486
Labour	\$ 19,748,880	\$ -	\$ 19,748,880
Supply & Install	\$ -	\$ -	\$ -
TOTAL TRANSMISSION LINE	\$ 23,441,366	\$ -	\$ 23,441,366
SUBSTATION			
Material	\$ 1,967,834	\$ -	\$ 1,967,834
Labour	\$ 3,747,852	\$ -	\$ 3,747,852
Supply & Install	\$ -	\$ -	\$ -
TOTAL SUBSTATION	\$ 5,715,686	\$ -	\$ 5,715,686
TELECOMMUNICATION			
Material	\$ -	\$ -	\$ -
Labour	\$ -	\$ -	\$ -
TOTAL TELECOMMUNICATIONS	\$ -	\$ -	\$ -
OWNERS			
Pre-SP Cost	\$ 136,064	\$ -	\$ 136,064
Service Proposal	\$ 270,000	\$ -	\$ 270,000
Facility Applications	\$ 2,150,198	\$ -	\$ 2,150,198
Regulatory & Compliance	\$ 27,500	\$ -	\$ 27,500
Land Rights - Easements	\$ 1,422,036	\$ -	\$ 1,422,036
Land - Damage Claims	\$ 59,500	\$ -	\$ 59,500
Land - Acquisitions	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -
TOTAL OWNERS COST	\$ 4,065,298	\$ -	\$ 4,065,298
DISTRIBUTED			
Procurement Management	\$ 289,567	\$ -	\$ 289,567
Project Management	\$ 603,000	\$ -	\$ 603,000
Construction Management	\$ 1,594,228	\$ -	\$ 1,594,228
Contingency	\$ 6,413,230	\$ -	\$ 6,413,230
Escalation	\$ 3,107,134	\$ -	\$ 3,107,134
TOTAL DISTRIBUTED	\$ 12,007,159	\$ -	\$ 12,007,159
SALVAGE			
Transmission Line Labour	\$ 188,289	\$ -	\$ 188,289
Substation Labour	\$ -	\$ -	\$ -
Land Remediation and Reclamation	\$ -	\$ -	\$ -
TOTAL SALVAGE	\$ 188,289	\$ -	\$ 188,289
OTHER COSTS			
AFUDC	\$ 3,218,374	\$ -	\$ 3,218,374
E&S/Overhead	\$ 5,910,782	\$ -	\$ 5,910,782
TOTAL OTHER	\$ 9,129,157	\$ -	\$ 9,129,157
TOTAL PROJECT	\$ 54,546,955	\$ -	\$ 54,546,955

5.98%

AESO Project Name & No.	Rycroft Transmission Reinforcement R1 - Opt. 3 Alt 1 - Stage 1 Only		P1784	
Prepared by:	ATCO Electric			
AAEC Class:	N/A	Estimate Basis	NID	
High Range	30%	Low Range	-30%	
Date of Estimate:	November 15, 2017	Base Year \$	2017	
In Service Date	03/30/2021	In Service Year \$	2021	
	SYSTEM	CUSTOMER	TOTAL	ASSUMPTIONS
TRANSMISSION LINE				
Material	\$ 3,063,066	\$ -	\$ 3,063,066	
Labour	\$ 14,876,742	\$ -	\$ 14,876,742	
Supply & Install	\$ -	\$ -	\$ -	
TOTAL TRANSMISSION LINE	\$ 17,939,808	\$ -	\$ 17,939,808	
SUBSTATION				
Material	\$ 3,430,875	\$ -	\$ 3,430,875	
Labour	\$ 6,699,248	\$ -	\$ 6,699,248	
Supply & Install	\$ -	\$ -	\$ -	
TOTAL SUBSTATION	\$ 10,130,123	\$ -	\$ 10,130,123	
TELECOMMUNICATION				
Material	\$ -	\$ -	\$ -	
Labour	\$ -	\$ -	\$ -	
TOTAL TELECOMMUNICATIONS	\$ -	\$ -	\$ -	
OWNERS				
Pre-SP Cost	\$ 136,064	\$ -	\$ 136,064	
Service Proposal	\$ 270,000	\$ -	\$ 270,000	
Facility Applications	\$ 1,948,409	\$ -	\$ 1,948,409	
Regulatory & Compliance	\$ 26,000	\$ -	\$ 26,000	
Land Rights - Easements	\$ 1,020,533	\$ -	\$ 1,020,533	
Land - Damage Claims	\$ 39,500	\$ -	\$ 39,500	
Land - Acquisitions	\$ -	\$ -	\$ -	
Other	\$ -	\$ -	\$ -	
TOTAL OWNERS COST	\$ 3,440,506	\$ -	\$ 3,440,506	
DISTRIBUTED				
Procurement Management	\$ 289,567	\$ -	\$ 289,567	
Project Management	\$ 460,500	\$ -	\$ 460,500	
Construction Management	\$ 1,584,324	\$ -	\$ 1,584,324	
Contingency	\$ 5,873,300	\$ -	\$ 5,873,300	
Escalation	\$ 2,645,616	\$ -	\$ 2,645,616	
TOTAL DISTRIBUTED	\$ 10,853,307	\$ -	\$ 10,853,307	
SALVAGE				
Transmission Line Labour	\$ 477,000	\$ -	\$ 477,000	
Substation Labour	\$ -	\$ -	\$ -	
Land Remediation and Reclamation	\$ -	\$ -	\$ -	
TOTAL SALVAGE	\$ 477,000	\$ -	\$ 477,000	
OTHER COSTS				
AFUDC	\$ 3,386,561	\$ -	\$ 3,386,561	5.98%
E&S/Overhead	\$ 5,618,228	\$ -	\$ 5,618,228	
TOTAL OTHER	\$ 9,004,789	\$ -	\$ 9,004,789	
TOTAL PROJECT	\$ 51,845,533	\$ -	\$ 51,845,533	