

ATTACHMENT 5

TFO COST ESTIMATES

**SATR NID amendment including Fidler Interconnection
Alternatives Cost Breakdown**

Chapel Rock 491S Interconnection Project

Development	Substation/Line	Description	ALT-1				ALT-2	
			Alt-1a	Alt-1b	Alt-1c	Alt-1d	Alt-2a	Alt-2b
1	Chapel Rock 491S Site A	500/240 kV new Chapel Rock 491S substation, Site A	\$ 179,418,000	\$ 179,418,000	-	-	\$ 179,418,000	-
1	Chapel Rock 491S Site B	500/240 kV new Chapel Rock 491S substation, Site B	-	-	\$ 179,156,000	-	-	\$ 179,156,000
1	Chapel Rock 491S Site C	500/240 kV new Chapel Rock 491S substation, Site C	-	-	-	\$ 177,732,000	-	-
2	Castle Rock Ridge 205S	2-240 kV line terminations at Castle Rock Ridge 205S	-	-	-	-	\$ 8,939,000	\$ 8,939,000
2	240 kV D/C TL 992L/1004L	240 kV D/C line with 2x1033 conductor, 33 km on lattice towers 205S to 491S	-	-	-	-	\$ 123,042,000	-
2	240 kV D/C TL 992L/1004L	240 kV D/C line with 2x1033 conductor, 37 km on lattice towers from 205S to 491S	-	-	-	-	-	\$ 134,738,000
3	240 kV D/C TL 992L/1004L	240 kV D/C line with 2x1033 conductor, 53 km on lattice towers from 312S to 491S including 2-240 kV line terminations at 312S	\$ 183,108,000	-	-	-	-	-
3	240 kV D/C TL 992L/1004L	240 kV D/C line with 2x1033 conductor, 43 km on lattice towers from 312S to 491S including 2-240 kV line terminations at 312S	-	\$ 151,606,000	-	-	-	-
3	240 kV D/C TL 992L/1004L	240 kV D/C line with 2x1033 conductor, 43 km on lattice towers from 312S to 491S including 2-240 kV line terminations at 312S	-	-	\$ 151,606,000	-	-	-
3	240 kV D/C TL 992L/1004L	240 kV D/C line with 2x1033 conductor, 53 km on lattice towers from 312S to 491S including 2-240 kV line terminations at 312S	-	-	-	\$ 183,108,000	-	-
Total Cost (\$M)			\$ 362,526,000	\$ 331,024,000	\$ 330,762,000	\$ 360,840,000	\$ 311,399,000	\$ 322,833,000

Fidler 312S Interconnection Project

Development	Substation/Line	Description	
3	New Fidler 312S	240/138 kV new substation Fidler 312S with 2-240 kv line termination	\$ 31,340,000
3	Fidler 312S	Addition of second 240/138 kV, 400 MVA transformer at Fidler 312S	\$ 9,717,000
3	240 kV D/C TL 994L/1071L	240 kV D/C line with 2x1033 conductor, 9 km on lattice towers from Point "A" to 312S	\$ 30,779,000
3	138 kV S/C TL 624L	Rebuild 893AL line with S/C 1x477 MCM Hawk from Summerview I&II WFs to Fidler Tap point and salvage 893AL	\$ 3,067,000
3	138 kV S/C TL 893L	Rebuild 893AL line with S/C 1x477 MCM Hawk from Fidler Tap point to Windy Point & Oldman River WFs and salvage 893AL	\$ 6,617,000
3	138 kV S/C TL 624L/893L	138 kV D/C line with 1x477 conductor on steel pole by making in & out of SVWF-WPWF to Fidler	\$ 3,662,000
Total Cost (\$M)			\$ 85,182,000