

SRP - Reconductoring - Orme to Rudd			
	Line Length (miles): 9		Voltage (kV): 230
	Base Conductor	TS Option A	TS Option B
	954-RAIL_ACSR_GA2_GCC- ACSR_GCC	1181-TS Cloudveil M3 8 (1.165) 1182-TS®_M3	1181-TS Cloudveil M3 8 (1.165) 1182-TS®_M3
Diameter (in.):	1.17	1.17	1.17
Aluminum Area (kcmil):	954.00	1181.89	1181.89
Rated Strength (lbf):	25900.00	39010.00	39010.00
Weight (lb/kft):	1075.00	1166.47	1166.47
DC Resistance at 20°C (ohms/kft):	0.0180	0.0142	0.0142
Ampacity (A) at Temperature (°C):	Total Peak Operating Amps:4180, Load Factor:0.5, Loss Factor:0.2875		
Ampacity (A) at Rated Operating Temp (°C):	1636 (75 C)	3978 (180 C)	3978 (180 C)
Ampacity (A) at Maximum Temp (°C):	2050 (90 C)	4226 (200 C)	4226 (200 C)
Peak Power Permissible (MVA)	817	1684	1684
Wind / Ice or Cold Temperature Sag/Tension	Temperature (°C):-1.1, Windspeed (mph):59.3, Radial Ice Thickness (in.):0', Ruling Span (ft):800:800:800:800		
Maximum Thermal Sag	26.58 Sag (ft): (90 C)	24.1 Sag (ft): (200 C)	26.58 Sag (ft): (200 C)
Maximum Wind or Ice load Sag	18.87 Total Sag (ft): (-1 C)	20.19 Total Sag (ft): (-1 C)	23.05 Total Sag (ft): (-1 C)
Max Total Tower Tension (lbf):	12232	12015	10545
%RTS	24%	15%	14%
Line Losses (8.5 miles, 4180 Peak Amps)	Load Factor: 0.5 ; Cost of Energy Generation (USD\$/MWh):60; Installed Generation Cost (USD\$/kW):1000		
First Year Line Losses (MWh):	117,575	73,045	73,045
- Reduces 30 year CO ₂ generation by (MT) over: 954-RAIL_ACSR_GA2_GCC-ACSR_GCC		678674	678674