

INFORMATION	GENERATOR 1	GENERATOR 2	GENERATOR 3	GENERATOR 4	GENERATOR 5
Technology of the Generating Unit(s), including make and model	36 x 11kV Diesel Synchronous Generating Units Model: Cummins with Stamford PE734G alternator	18 x 415V Diesel Synchronous Generating Units Model: Cummins with Stamford PE734G alternator	30 x 415V Diesel Synchronous Generating Units Model: Cummins with QSK60 alternator	1 x 11kV Natural Gas Co-Generating Unit Model: SOLAR TITAN 250	3 x 11kV Natural Gas Co-Generating Unit Model: GE Jenbacher with AvK DIG 142 alternator
Maximum power generation capacity of all embedded Generating Units	65.0MW	21.0MW	50.0MW	21.7MW	7.2MW
Contribution to fault levels	At 66kV Connection Point 3-phase = 1.7kA Ph-Ground = 0.8kA	At 11kV Connection Point 3-phase = 3.5kA Ph-Ground = 2.4kA	At 33kV Connection Point 3-phase = 4.2kA Ph-Ground = 1.6kA	At 11kV Connection Point 3-phase = 11.6kA Ph-Ground = 0.4kA	At 11kV Connection Point 3-phase = 3.0kA Ph-Ground = 1.7kA
Size and rating of relevant transformers	2 x 11/66kV 40.5MVA	18 x 0.415/11kV 1.5MVA	18 x 0.415/33kV 3.6MVA	2 x 33/11kV 30MVA	1 x 11/66kV 12.5MVA
Single line diagrams of the connection arrangement	PDF	PDF	PDF	PDF	PDF



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Protection systems and communications systems	 Protection Systems: Inter-trip scheme to prevent islanding Permissive interlocks Generator Dispatch Limiter Generating System Under/Over Frequency Generating System Under/Over Voltage Voltage Voltage Unbalance Synchronisation Pole Slip 	 Protection Systems: Inter-trip scheme to prevent islanding Permissive interlocks Generator Dispatch Limiter Generating System Under/Over Frequency Generating System Under/Over Voltage Voltage Voltage Unbalance Synchronisation Pole Slip 	 Protection Systems: Inter-trip scheme to prevent islanding Permissive interlocks Generator Dispatch Limiter Generating System Under/Over Frequency Generating System Under/Over Voltage Voltage Voltage Unbalance Synchronisation Pole Slip 	 Protection Systems: Inter-trip scheme to prevent islanding Runback scheme to prevent overload Permissive interlocks Generating System Under/Over Frequency Generating System Under/Over Voltage Voltage Voltage Unbalance Synchronisation Pole Slip 	 Protection Systems: Inter-trip scheme to prevent islanding Permissive interlocks Generator Dispatch Limiter Generating System Under/Over Frequency Generating System Under/Over Voltage Voltage Voltage Unbalance Synchronisation CBF Pole Slip
	Communication Systems: • Fibre for inter- trip scheme and SCADA	Communication Systems: • Fibre for inter- trip scheme and SCADA	Communication Systems: Point-to- multipoint radio for inter-trip	Communication Systems: • Parallel fibre and radio for inter-	Communication Systems:



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			scheme and SCADA	trip scheme and SCADA	 Parallel fibre for inter-trip scheme and SCADA
Voltage control and reactive power capability	Power factor set point remotely controlled by SA Power Networks Voltage control deemed not required Generating System capable to operate between 0.80 supplying reactive power and 0.975 absorbing reactive power, measured at generator terminals.	Power factor set point verbally instructed by SA Power Networks Voltage control deemed not required Generating System capable to operate between 0.85 supplying reactive power and unity power factor, measured at generator terminals.	Power factor set point remotely controlled by SA Power Networks Voltage control deemed not required Generating System capable to operate between 0.9 supplying reactive power and unity power factor, measured at generator terminals.	Power factor set point remotely controlled by SA Power Networks Voltage control deemed not required Generating System capable to operate between 0.915 supplying reactive power and 0.995 absorbing reactive power, measured at generator terminals	Power factor set point remotely controlled by SA Power Networks Voltage control deemed not required Generating System capable to operate between 0.93 supplying reactive power and 0.96 absorbing reactive power, measured at generator terminals
Details relevant to the specific location of the facility	Nil	Nil	Nil	Nil	Nil