Responses to CEC's Questions Regarding CPP's Switchyard Equipment / Line Ratings
4/15/08 Update

		Electrical Apparatus	Rating
69 kV Switchyard	1	69 kV bus	3000 A
	2	Switchyard Circuit Breakers' voltage	69 kV
	3	69 kV Line Circuit Breaker continuous current	3000 A
	4	69 kV Line breaker symmetrical interrupting capability	40 kA
	5	Generator Step-up (GSU) XFMR 69 kV Bank breaker continuous current	1200 A
	6	69 kV GSU Bank breaker symmetrical interrupting capability	40kA
	7	69 kV disconnect switch rating	Same as associated breaker
	8	Potential Transformers	ZZ, 4500 VA
	9	Current Transformers	C800 relay class
Generator Equipment Rating	10	GSU high side cabling to 69 Switchgear (underground)	2000 kcmil copper
	11	Generator Output Rating	71.17 MVA
	12	GSU XFMR	13.8 / 66 kV
	13	GSU XFMR	44 / 58 / 73 MVA ONAN / ONAF/ ONAF @ 65°C rise
	14	GSU XFMR	39 / 52 / 65 MVA ONAN / ONAF / ONAF @ 55°C rise
	15	GSU XFMR	15% impedance @ 39 MVA
	16	Auxiliary Transformer	4.16 / 13.8 kV
	17	Auxiliary Transformer	7.5 / 9.4 MVA ONAN / ONAF
	18	Station Service Transformer	4160 / 480 V
	19	Station Service Transformer	2500 / 2800 / 3500 kVA ONAN / ONAN / ONAF 55°C / 65°C / 65°C rise
	20	GSU XFMR 15 kV cabling to Generator	Multiple cable / ducts for 3000 A rating (e.g. 5-1000 kcmil 15-kV copper per phase)
	21	13.8 kV Generator breaker continuous current	3000 A
	22	13.8 kV Generator breaker interrupting capability	750 MVA
	23	13.8 kV disconnect switch rating	3000 A
	24	15 kV Cable / duct length between generator and GSU Low side	Approx. 50 ft
	25	69 kV cable length between GSU high side to switchyard	Approx. 300-600 ft

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