Short-Circuit Summary Report

3-Phase Fault Currents

Bus		Device		Device Capacity (kA)				Short-Circuit Current (kA)					
				Making									
ID	kV	ID	Type	Peak	Ib sym	Ib asym	Idc	I"k	ip	Ib sym	Ib asym	Idc	Ik
BB 1A	11.000	BB 1A	Bus					18.451	45.514				18.370
	11.000	CB3	CB	50.000	20.000	21.976	9.106	18.451	45.514	18.399	19.131	5.243	
	11.000	CB4	CB	50.000	20.000	21.976	9.106	18.451	45.514	18.399	19.131	5.243	
BB 1B	11.000	BB 1B	Bus					18.370	45.360				18.370
DB-ACPS	0.400	DB-ACPS	Bus					2.254	3.252				2.254
DB-AHP-EC	0.400	DB-AHP-EC	Bus					8.188	11.895				8.188
DB-AHP-NM	0.400	DB-AHP-NM	Bus					15.741	23.698				15.739
DB-AHP-NW	0.400	DB-AHP-NW	Bus					15.737	23.693				15.736
DB-AHP-SM	0.400	DB-AHP-SM	Bus					14.320	21.341				14.318
DB-AHP-SW	0.400	DB-AHP-SW	Bus					13.683	20.325				13.682
DB-AHU-3F	0.400	DB-AHU-3F	Bus					5.975	8.621				5.975
DB-Aux	0.400	DB-Aux	Bus					1.749	2.523				1.749
DB-CWS	0.400	DB-CWS	Bus					3.128	4.512				3.128
DB-EC-1F	0.400	DB-EC-1F	Bus					4.791	6.911				4.791
DB-EC-2F	0.400	DB-EC-2F	Bus					4.592	6.625				4.592
DB-EC-3F	0.400	DB-EC-3F	Bus					4.331	6.248				4.331
DB-EC-Cooling Tower	0.400	DB-EC-Cooling Tower	Bus					12.156	17.982				12.156
DB-EC-GF	0.400	DB-EC-GF	Bus					5.111	7.374				5.111
DB-EC-LG	0.400	DB-EC-LG	Bus					5.443	7.853				5.443
DB-EC-SL	0.400	DB-EC-SL	Bus					7.767	11.275				7.767
DB-Ent	0.400	DB-Ent	Bus					7.511	10.955				7.510
DB-EWS	0.400	DB-EWS	Bus					3.128	4.512				3.128
DB-FW	0.400	DB-FW	Bus					5.975	8.621				5.975
DB-GoodsLift	0.400	DB-GoodsLift	Bus					2.484	3.583				2.484
DB-MAN-AHP	0.400	DB-MAN-AHP	Bus					1.530	2.207				1.530
DB-MO	0.400	DB-MO	Bus					3.128	4.512				3.128
DB-NE-1F	0.400	DB-NE-1F	Bus					14.866	22.182				14.865
DB-NE-2F	0.400	DB-NE-2F	Bus					13.991	20.763				13.990
DB-NE-3F	0.400	DB-NE-3F	Bus					9.517	13.876				9.517
DB-NE-AHP	0.400	DB-NE-AHP	Bus					12.862	18.849				12.862
DB-NE-GF	0.400	DB-NE-GF	Bus					15.526	23.264				15.525
DB-NE-LG	0.400	DB-NE-LG	Bus					13.174	19.256				13.173
DB-NM-1F	0.400	DB-NM-1F	Bus					14.647	21.886				14.646
DB-NM-2F	0.400	DB-NM-2F	Bus					15.741	23.698				15.739
DB-NM-3F	0.400	DB-NM-3F	Bus					15.068	22.577				15.067

3-Phase Fault Currents

Bus		Device		Device Capacity (kA)				Short-Circuit Current (kA)					
				Making									
ID	kV	ID	Type	Peak	Ib sym	Ib asym	Idc	I"k	ip	Ib sym	Ib asym	Idc	Ik
DB-NM-GF	0.400	DB-NM-GF	Bus					15.741	23.698				15.739
DB-NM-LG	0.400	DB-NM-LG	Bus					16.329	24.355				16.328
DB-NW-1F	0.400	DB-NW-1F	Bus					15.737	23.693				15.736
DB-NW-2G	0.400	DB-NW-2G	Bus					15.737	23.693				15.736
DB-NW-LG	0.400	DB-NW-LG	Bus					10.705	15.475				10.704
DB-NW-Lift	0.400	DB-NW-Lift	Bus					2.042	2.945				2.042
DB-P-N	0.400	DB-P-N	Bus					1.254	1.809				1.254
DB-P-NE	0.400	DB-P-NE	Bus					2.087	3.011				2.087
DB-P-SE	0.400	DB-P-SE	Bus					3.732	5.383				3.731
DB-P-SW	0.400	DB-P-SW	Bus					1.671	2.411				1.671
DB-P-W	0.400	DB-P-W	Bus					1.393	2.010				1.393
DB-Parking	0.400	DB-Parking	Bus					17.639	28.393				17.636
	0.400	CB67	CB	88.000	42.000	49.604		17.639	28.393	17.639	17.848	2.722	
	0.400	BusWay3	Busduct	65.000				17.639	28.393				
	0.400	CB70	CB	52.500	25.000	29.526		17.639	28.393	17.639	17.848	2.722	
	0.400	CB73	CB	52.500	25.000	29.526		17.639	28.393	17.639	17.848	2.722	
	0.400	CB81	CB	52.500	25.000	29.526		17.639	28.393	17.639	17.848	2.722	
	0.400	CB133	CB	52.500	25.000	29.526		17.639	28.393	17.639	17.848	2.722	
	0.400	CB134	CB	52.500	25.000	29.526		17.639	28.393	17.639	17.848	2.722	
	0.400	CB137	CB	52.500	25.000	29.526		17.639	28.393	17.639	17.848	2.722	
	0.400	CB167	CB	52.500	25.000	29.526		17.639	28.393	17.639	17.848	2.722	
	0.400	CB168	CB	52.500	25.000	29.526		17.639	28.393	17.639	17.848	2.722	
DB-Passenger Lift	0.400	DB-Passenger Lift	Bus					1.966	2.836				1.966
DB-Photografic	0.400	DB-Photografic	Bus					2.941	4.242				2.941
DB-PPD	0.400	DB-PPD	Bus					7.767	11.275				7.767
DB-Pump	0.400	DB-Pump	Bus					9.890	14.539				9.889
DB-SE-1F	0.400	DB-SE-1F	Bus					7.767	11.275				7.767
DB-SE-2F	0.400	DB-SE-2F	Bus					7.767	11.275				7.767
DB-SE-3F	0.400	DB-SE-3F	Bus					7.679	11.144				7.678
DB-SE-AHP	0.400	DB-SE-AHP	Bus					14.622	21.724				14.620
DB-SE-GF	0.400	DB-SE-GF	Bus					7.679	11.144				7.678
DB-SE-LG	0.400	DB-SE-LG	Bus					6.413	9.253				6.412
DB-SM-1F	0.400	DB-SM-1F	Bus					15.739	23.696				15.737
DB-SM-2F	0.400	DB-SM-2F	Bus					14.646	21.883				14.644
DB-SM-3F	0.400	DB-SM-3F	Bus					13.395	19.858				13.394
DB-SM-GF	0.400	DB-SM-GF	Bus					16.565	25.082				16.563
DB-SM-LG	0.400	DB-SM-LG	Bus					14.511	21.305				14.509

3-Phase Fault Currents

Bus		Device		Device Capacity (kA)				Short-Circuit Current (kA)					
				Making									
ID	kV	ID	Type	Peak	Ib sym	Ib asym	Idc	I"k	ip	Ib sym	Ib asym	Idc	Ik
DB-STAB	0.400	DB-STAB	Bus					9.938	14.411				9.937
DB-SW-1F	0.400	DB-SW-1F	Bus					15.738	23.693				15.735
DB-SW-2F	0.400	DB-SW-2F	Bus					9.038	13.172				9.037
DB-SW-3F	0.400	DB-SW-3F	Bus					9.038	13.172				9.037
DB-SW-GF	0.400	DB-SW-GF	Bus					16.986	25.830				16.983
DB-SW-Goods Lift	0.400	DB-SW-Goods Lift	Bus					2.121	3.059				2.121
DB-SW-LG	0.400	DB-SW-LG	Bus					16.325	24.349				16.323
DB-TB	0.400	DB-TB	Bus					3.128	4.512				3.128
DB-TEMP	0.400	DB-TEMP	Bus					5.975	8.621				5.975
DB-UPS-N	0.400	DB-UPS-N	Bus					16.481	25.128				16.479
DB-UPS-NE-1F	0.400	DB-UPS-NE-1F	Bus					5.069	7.314				5.069
DB-UPS-NE-GF	0.400	DB-UPS-NE-GF	Bus					5.427	7.831				5.427
DB-UPS-NM-1F	0.400	DB-UPS-NM-1F	Bus					5.069	7.314				5.069
DB-UPS-NM-GF	0.400	DB-UPS-NM-GF	Bus					5.427	7.831				5.427
DB-UPS-NW-1F	0.400	DB-UPS-NW-1F	Bus					2.973	4.295				2.973
DB-UPS-NW-3F	0.400	DB-UPS-NW-3F	Bus					2.925	4.220				2.925
DB-UPS-S	0.400	DB-UPS-S	Bus					17.679	27.052				17.676
DB-UPS-SE-1F	0.400	DB-UPS-SE-1F	Bus					2.648	3.819				2.648
DB-UPS-SM-1F	0.400	DB-UPS-SM-1F	Bus					4.069	5.870				4.069
DB-UPS-SM-GF	0.400	DB-UPS-SM-GF	Bus					4.299	6.202				4.299
DB-UPS-SW-1F	0.400	DB-UPS-SW-1F	Bus					6.624	9.610				6.624
DB-UPS-SW-3F	0.400	DB-UPS-SW-3F	Bus					5.978	8.626				5.978
DB-UPS-SW-GF	0.400	DB-UPS-SW-GF	Bus					8.627	12.470				8.626
DB-UPS1	0.400	DB-UPS1	Bus					15.737	23.693				15.736
DB-UPS2	0.400	DB-UPS2	Bus					15.737	23.693				15.736
DB-WC-1F	0.400	DB-WC-1F	Bus					5.624	8.114				5.624
DB-WC-2F	0.400	DB-WC-2F	Bus					5.168	7.456				5.168
DB-WC-3F	0.400	DB-WC-3F	Bus					4.967	7.165				4.967
DB-WC-LG	0.400	DB-WC-LG	Bus					4.967	7.165				4.967
DB-WC-R	0.400	DB-WC-R	Bus					9.038	13.172				9.038
Input/Output UPS DB-South	0.400	Input/Output UPS DB-South	Bus					17.679	27.052				17.676
	0.400	CB25	CB	52.500	25.000	29.526		17.679	27.052	17.679	17.734	1.389	
	0.400	CB59	CB	52.500	25.000	29.526		17.679	27.052	17.679	17.734	1.389	
	0.400	CB60	CB	52.500	25.000	29.526		17.679	27.052	17.679	17.734	1.389	
	0.400	CB72	CB	52.500	25.000	29.526		17.679	27.052	17.679	17.734	1.389	
	0.400	CB88	CB	52.500	25.000	29.526		17.679	27.052	17.679	17.734	1.389	
	0.400	CB89	CB	52.500	25.000	29.526		17.679	27.052	17.679	17.734	1.389	

3-Phase Fault Currents

Bus		Device		Device Capacity (kA)				Short-Circuit Current (kA)					
				Making									
ID	kV	ID	Type	Peak	Ib sym	Ib asym	Idc	I"k	ip	Ib sym	Ib asym	Idc	Ik
Inverter DB-Section1	0.400	Inverter DB-Section1	Bus					34.053	66.826				34.043
	0.400	CB100	CB	145.000	66.000	82.293		34.053	66.826	34.053	38.173	17.251	
Inverter DB-Section2	0.400	Inverter DB-Section2	Bus					33.609	65.380				33.600
	0.400	CB99	CB	145.000	66.000	82.293		33.609	65.380	33.609	37.414	16.439	
	0.400	CB101	CB	75.600	36.000	42.518		33.609	65.380	33.609	37.414	16.439	
	0.400	CB103	CB	75.600	36.000	42.518		33.609	65.380	33.609	37.414	16.439	
	0.400	CB104	CB	75.600	36.000	42.518		33.609	65.380	33.609	37.414	16.439	
Main Standby DB	0.400	Main Standby DB	Bus					30.989	61.898				28.746
	0.400	CB123	CB	75.600	36.000	42.518		30.989	61.898	30.218	34.569	16.791	
	0.400	CB21	CB	75.600	36.000	42.518		30.989	61.898	30.218	34.569	16.791	
	0.400	CB22	CB	75.600	36.000	42.518		30.989	61.898	30.218	34.569	16.791	
	0.400	CB41	CB	75.600	36.000	42.518		30.989	61.898	30.218	34.569	16.791	
	0.400	CB42	CB	75.600	36.000	42.518		30.989	61.898	30.218	34.569	16.791	
	0.400	CB43	CB	75.600	36.000	42.518		30.989	61.898	30.218	34.569	16.791	
	0.400	CB44	CB	75.600	36.000	42.518		30.989	61.898	30.218	34.569	16.791	
	0.400	CB122	CB	88.000	42.000	49.604		30.989	61.898	30.218	34.569	16.791	
	0.400	Busbar 11	Busduct	65.000				30.989	61.898				
MV-C/O-1	11.000	MV-C/O-1	Bus					17.347	39.446				17.277
	11.000	CB17	CB	50.000	20.000	21.976	9.106	17.347	39.446	17.302	17.377	1.620	
MV-C/O-2	11.000	MV-C/O-2	Bus					17.359	39.485				17.277
	11.000	CB20	CB	50.000	20.000	21.976	9.106	17.359	39.485	17.306	17.382	1.622	
NE1	11.000	NE1	Bus					17.122	38.150				17.054
NE2	11.000	NE2	Bus					17.063	37.796				16.984
NM1	11.000	NM1	Bus					16.223	34.040				16.164
NM2	11.000	NM2	Bus					16.223	34.040				16.164
North Main Substation	11.000	North Main Substation	Bus					17.359	39.485				17.277
	11.000	MP 2	CB	50.000	20.000	21.976	9.106	17.359	39.485	17.306	17.382	1.622	
	11.000	CB1	CB	50.000	20.000	21.976	9.106	17.359	39.485	17.306	17.382	1.622	
	11.000	CB20	CB	50.000	20.000	21.976	9.106	17.359	39.485	17.306	17.382	1.622	
	11.000	CB24	CB	50.000	20.000	21.976	9.106	17.359	39.485	17.306	17.382	1.622	
NW1	11.000	NW1	Bus					16.161	33.753				16.102
NW2	11.000	NW2	Bus					16.161	33.753				16.102
Parking Area Minisub	11.000	Parking Area Minisub	Bus					15.453	30.975				15.380
	11.000	CB49	CB	50.000	20.000	21.976	9.106	15.453	30.975	15.406	15.407	0.177	
Phase 1 Aircon S1	0.400	Phase 1 Aircon S1	Bus					34.177	67.884				34.168
	0.400	CB2	CB	145.000	66.000	82.293		34.177	67.884	34.177	38.695	18.145	
Phase 1 Aircon S2	0.400	Phase 1 Aircon S2	Bus					34.174	67.867				34.162

3-Phase Fault Currents

Bus		Device		Device Capacity (kA)				Short-Circuit Current (kA)					
				Making									
ID	kV	ID	Type	Peak	Ib sym	Ib asym	Idc	I"k	ip	Ib sym	Ib asym	Idc	Ik
Phase 1 Aircon S2	0.400	CB7	CB	145.000	66.000	82.293		34.174	67.867	34.174	38.686	18.132	
Phase 1 Main DB NE S1	0.400	Phase 1 Main DB NE S1	Bus					19.110	29.492				19.107
	0.400	CB36	CB	105.000	50.000	59.053		19.110	29.492	19.110	19.188	1.737	
	0.400	CB37	CB	52.500	25.000	29.526		19.110	29.492	19.110	19.188	1.737	
	0.400	CB38	CB	52.500	25.000	29.526		19.110	29.492	19.110	19.188	1.737	
	0.400	CB39	CB	52.500	25.000	29.526		19.110	29.492	19.110	19.188	1.737	
	0.400	CB40	CB	52.500	25.000	29.526		19.110	29.492	19.110	19.188	1.737	
	0.400	CB31	CB	52.500	25.000	29.526		19.110	29.492	19.110	19.188	1.737	
	0.400	CB33	CB	52.500	25.000	29.526		19.110	29.492	19.110	19.188	1.737	
	0.400	CB10	CB	88.000	42.000	49.604		19.110	29.492	19.110	19.188	1.737	
	0.400	Busbar 1	Busduct	50.000				19.110	29.492				
Phase 1 Main DB NE S2	0.400	Phase 1 Main DB NE S2	Bus					18.671	28.667				18.668
	0.400	CB26	CB	52.500	25.000	29.526		18.671	28.667	18.671	18.736	1.557	
	0.400	CB27	CB	52.500	25.000	29.526		18.671	28.667	18.671	18.736	1.557	
	0.400	CB28	CB	52.500	25.000	29.526		18.671	28.667	18.671	18.736	1.557	
	0.400	CB29	CB	52.500	25.000	29.526		18.671	28.667	18.671	18.736	1.557	
	0.400	CB30	CB	52.500	25.000	29.526		18.671	28.667	18.671	18.736	1.557	
	0.400	CB19	CB	105.000	50.000	59.053		18.671	28.667	18.671	18.736	1.557	
	0.400	Busbar 4	Busduct	50.000				18.671	28.667				
Phase 1 Main DB NM S1	0.400	Phase 1 Main DB NM S1	Bus					21.978	35.411				21.974
	0.400	CB62	CB	52.500	25.000	29.526		21.978	35.411	21.978	22.243	3.426	
	0.400	CB63	CB	52.500	25.000	29.526		21.978	35.411	21.978	22.243	3.426	
	0.400	CB64	CB	52.500	25.000	29.526		21.978	35.411	21.978	22.243	3.426	
	0.400	CB65	CB	52.500	25.000	29.526		21.978	35.411	21.978	22.243	3.426	
	0.400	CB66	CB	52.500	25.000	29.526		21.978	35.411	21.978	22.243	3.426	
	0.400	CB58	CB	88.000	42.000	49.604		21.978	35.411	21.978	22.243	3.426	
	0.400	Busbar 5	Busduct	50.000				21.978	35.411				
	0.400	CB118	CB	105.000	50.000	59.053		21.978	35.411	21.978	22.243	3.426	
Phase 1 Main DB NM S2	0.400	Phase 1 Main DB NM S2	Bus					21.978	35.411				21.974
	0.400	CB53	CB	52.500	25.000	29.526		21.978	35.411	21.978	22.243	3.426	
	0.400	CB54	CB	52.500	25.000	29.526		21.978	35.411	21.978	22.243	3.426	
	0.400	CB55	CB	52.500	25.000	29.526		21.978	35.411	21.978	22.243	3.426	
	0.400	CB56	CB	52.500	25.000	29.526		21.978	35.411	21.978	22.243	3.426	
	0.400	CB57	CB	52.500	25.000	29.526		21.978	35.411	21.978	22.243	3.426	
	0.400	CB61	CB	105.000	50.000	59.053		21.978	35.411	21.978	22.243	3.426	
	0.400	Busbar 6	Busduct	50.000				21.978	35.411				
Phase 1 Main DB NW S2	0.400	Phase 1 Main DB NW S2	Bus					21.971	35.398				21.968

3-Phase Fault Currents

Bus		Device		Device Capacity (kA)				Short-Circuit Current (kA)					
				Making									
ID	kV	ID	Type	Peak	Ib sym	Ib asym	Idc	I"k	ip	Ib sym	Ib asym	Idc	Ik
Phase 1 Main DB NW S2	0.400	CB76	CB	52.500	25.000	29.526		21.971	35.398	21.971	22.236	3.422	
	0.400	CB77	CB	52.500	25.000	29.526		21.971	35.398	21.971	22.236	3.422	
	0.400	CB78	CB	52.500	25.000	29.526		21.971	35.398	21.971	22.236	3.422	
	0.400	CB79	CB	52.500	25.000	29.526		21.971	35.398	21.971	22.236	3.422	
	0.400	CB80	CB	52.500	25.000	29.526		21.971	35.398	21.971	22.236	3.422	
	0.400	CB94	CB	52.500	25.000	29.526		21.971	35.398	21.971	22.236	3.422	
	0.400	CB95	CB	52.500	25.000	29.526		21.971	35.398	21.971	22.236	3.422	
	0.400	CB90	CB	88.000	42.000	49.604		21.971	35.398	21.971	22.236	3.422	
	0.400	Busbar 8	Busduct	50.000				21.971	35.398				
Phase 1 Main DB NW S6	0.400	Phase 1 Main DB NW S6	Bus					21.971	35.398				21.968
	0.400	CB82	CB	52.500	25.000	29.526		21.971	35.398	21.971	22.236	3.422	
	0.400	CB83	CB	52.500	25.000	29.526		21.971	35.398	21.971	22.236	3.422	
	0.400	CB84	CB	52.500	25.000	29.526		21.971	35.398	21.971	22.236	3.422	
	0.400	CB85	CB	52.500	25.000	29.526		21.971	35.398	21.971	22.236	3.422	
	0.400	CB86	CB	52.500	25.000	29.526		21.971	35.398	21.971	22.236	3.422	
	0.400	CB92	CB	52.500	25.000	29.526		21.971	35.398	21.971	22.236	3.422	
	0.400	CB87	CB	88.000	42.000	49.604		21.971	35.398	21.971	22.236	3.422	
	0.400	Busbar 7	Busduct	50.000				21.971	35.398				
Phase 1 Main DB SE S1	0.400	Phase 1 Main DB SE S1	Bus					16.325	24.504				16.322
	0.400	CB110	CB	52.500	25.000	29.526		16.325	24.504	16.325	16.346	0.840	
	0.400	CB111	CB	52.500	25.000	29.526		16.325	24.504	16.325	16.346	0.840	
	0.400	CB112	CB	52.500	25.000	29.526		16.325	24.504	16.325	16.346	0.840	
	0.400	CB113	CB	52.500	25.000	29.526		16.325	24.504	16.325	16.346	0.840	
	0.400	CB114	CB	52.500	25.000	29.526		16.325	24.504	16.325	16.346	0.840	
	0.400	CB115	CB	52.500	25.000	29.526		16.325	24.504	16.325	16.346	0.840	
	0.400	CB116	CB	52.500	25.000	29.526		16.325	24.504	16.325	16.346	0.840	
	0.400	CB45	CB	52.500	25.000	29.526		16.325	24.504	16.325	16.346	0.840	
	0.400	CB117	CB	88.000	42.000	49.604		16.325	24.504	16.325	16.346	0.840	
	0.400	Busbar 14	Busduct	50.000				16.325	24.504				
Phase 1 Main DB SE S2	0.400	Phase 1 Main DB SE S2	Bus					15.963	23.904				15.961
	0.400	CB97	CB	52.500	25.000	29.526		15.963	23.904	15.963	15.982	0.768	
	0.400	CB102	CB	105.000	50.000	59.053		15.963	23.904	15.963	15.982	0.768	
	0.400	CB105	CB	52.500	25.000	29.526		15.963	23.904	15.963	15.982	0.768	
	0.400	CB106	CB	52.500	25.000	29.526		15.963	23.904	15.963	15.982	0.768	
	0.400	CB107	CB	52.500	25.000	29.526		15.963	23.904	15.963	15.982	0.768	
	0.400	CB109	CB	52.500	25.000	29.526		15.963	23.904	15.963	15.982	0.768	
	0.400	CB120	CB	105.000	50.000	59.053		15.963	23.904	15.963	15.982	0.768	

3-Phase Fault Currents

Bus		Device		Device Capacity (kA)				Short-Circuit Current (kA)					
				Making									
ID	kV	ID	Type	Peak	Ib sym	Ib asym	Idc	I"k	ip	Ib sym	Ib asym	Idc	Ik
Phase 1 Main DB SE S2	0.400	Busbar 15	Busduct	50.000				15.963	23.904				
Phase 1 Main DB SM S1	0.400	Phase 1 Main DB SM S1	Bus					21.975	35.405				21.970
	0.400	CB139	CB	52.500	25.000	29.526		21.975	35.405	21.975	22.240	3.423	
	0.400	CB140	CB	52.500	25.000	29.526		21.975	35.405	21.975	22.240	3.423	
	0.400	CB141	CB	52.500	25.000	29.526		21.975	35.405	21.975	22.240	3.423	
	0.400	CB142	CB	52.500	25.000	29.526		21.975	35.405	21.975	22.240	3.423	
	0.400	CB143	CB	52.500	25.000	29.526		21.975	35.405	21.975	22.240	3.423	
	0.400	CB146	CB	88.000	42.000	49.604		21.975	35.405	21.975	22.240	3.423	
	0.400	Busbar 12	Busduct	50.000				21.975	35.405				
	0.400	CB23	CB	105.000	50.000	59.053		21.975	35.405	21.975	22.240	3.423	
Phase 1 Main DB SM S2	0.400	Phase 1 Main DB SM S2	Bus					21.341	34.011				21.336
	0.400	CB132	CB	52.500	25.000	29.526		21.341	34.011	21.341	21.546	2.966	
	0.400	CB135	CB	52.500	25.000	29.526		21.341	34.011	21.341	21.546	2.966	
	0.400	CB138	CB	52.500	25.000	29.526		21.341	34.011	21.341	21.546	2.966	
	0.400	CB149	CB	105.000	50.000	59.053		21.341	34.011	21.341	21.546	2.966	
	0.400	Busbar 13	Busduct	50.000				21.341	34.011				
Phase 1 Main DB SW S1	0.400	Phase 1 Main DB SW S1	Bus					21.971	35.397				21.966
	0.400	CB159	CB	52.500	25.000	29.526		21.971	35.397	21.971	22.236	3.421	
	0.400	CB160	CB	52.500	25.000	29.526		21.971	35.397	21.971	22.236	3.421	
	0.400	CB161	CB	52.500	25.000	29.526		21.971	35.397	21.971	22.236	3.421	
	0.400	CB162	CB	52.500	25.000	29.526		21.971	35.397	21.971	22.236	3.421	
	0.400	CB163	CB	52.500	25.000	29.526		21.971	35.397	21.971	22.236	3.421	
	0.400	CB166	CB	88.000	42.000	49.604		21.971	35.397	21.971	22.236	3.421	
	0.400	Busbar 9	Busduct	50.000				21.971	35.397				
Phase 1 Main DB SW S2	0.400	Phase 1 Main DB SW S2	Bus					21.973	35.400				21.967
	0.400	CB152	CB	52.500	25.000	29.526		21.973	35.400	21.973	22.237	3.422	
	0.400	CB153	CB	52.500	25.000	29.526		21.973	35.400	21.973	22.237	3.422	
	0.400	CB154	CB	52.500	25.000	29.526		21.973	35.400	21.973	22.237	3.422	
	0.400	CB155	CB	105.000	50.000	59.053		21.973	35.400	21.973	22.237	3.422	
	0.400	CB158	CB	52.500	25.000	29.526		21.973	35.400	21.973	22.237	3.422	
	0.400	CB169	CB	105.000	50.000	59.053		21.973	35.400	21.973	22.237	3.422	
	0.400	Busbar 10	Busduct	50.000				21.973	35.400				
Phase 1 North Substation	11.000	Phase 1 North Substation	Bus					16.316	34.478				16.256
	11.000	CB32	CB	50.000	20.000	21.976	9.106	16.316	34.478	16.278	16.285	0.484	
	11.000	CB34	CB	50.000	20.000	21.976	9.106	16.316	34.478	16.278	16.285	0.484	
	11.000	CB35	CB	50.000	20.000	21.976	9.106	16.316	34.478	16.278	16.285	0.484	
	11.000	CB75	CB	50.000	20.000	21.976	9.106	16.316	34.478	16.278	16.285	0.484	

3-Phase Fault Currents

Bus		Device		Device Capacity (kA)				Short-Circuit Current (kA)					
				Making									
ID	kV	ID	Type	Peak	Ib sym	Ib asym	Idc	I"k	ip	Ib sym	Ib asym	Idc	Ik
Phase 1 North Substation	11.000	CB74	CB	50.000	20.000	21.976	9.106	16.316	34.478	16.278	16.285	0.484	
	11.000	CB96	CB	50.000	20.000	21.976	9.106	16.316	34.478	16.278	16.285	0.484	
	11.000	CB98	CB	50.000	20.000	21.976	9.106	16.316	34.478	16.278	16.285	0.484	
Phase 1 South Substation	11.000	Phase 1 South Substation	Bus					16.351	34.595				16.268
	11.000	CB8	CB	50.000	20.000	21.976	9.106	16.351	34.595	16.297	16.304	0.491	
	11.000	CB93	CB	50.000	20.000	21.976	9.106	16.351	34.595	16.297	16.304	0.491	
	11.000	CB91	CB	50.000	20.000	21.976	9.106	16.351	34.595	16.297	16.304	0.491	
	11.000	CB121	CB	50.000	20.000	21.976	9.106	16.351	34.595	16.297	16.304	0.491	
	11.000	CB131	CB	50.000	20.000	21.976	9.106	16.351	34.595	16.297	16.304	0.491	
	11.000	CB130	CB	50.000	20.000	21.976	9.106	16.351	34.595	16.297	16.304	0.491	
	11.000	CB151	CB	50.000	20.000	21.976	9.106	16.351	34.595	16.297	16.304	0.491	
	11.000	CB150	CB	50.000	20.000	21.976	9.106	16.351	34.595	16.297	16.304	0.491	
	11.000	CB170	CB	50.000	20.000	21.976	9.106	16.351	34.595	16.297	16.304	0.491	
SE1	11.000	SE1	Bus					16.220	33.979				16.138
SE2	11.000	SE2	Bus					16.257	34.153				16.175
SM1	11.000	SM1	Bus					16.201	33.893				16.120
SM2	11.000	SM2	Bus					16.214	33.951				16.132
South Main Substation	11.000	South Main Substation	Bus					17.347	39.446				17.277
	11.000	MP 3	CB	50.000	20.000	21.976	9.106	17.347	39.446	17.302	17.377	1.620	
	11.000	CB16	CB	50.000	20.000	21.976	9.106	17.347	39.446	17.302	17.377	1.620	
	11.000	CB17	CB	50.000	20.000	21.976	9.106	17.347	39.446	17.302	17.377	1.620	
	11.000	CB18	CB	50.000	20.000	21.976	9.106	17.347	39.446	17.302	17.377	1.620	
SWS1	11.000	SWS1	Bus					16.164	33.722				16.083
SWS2	11.000	SWS2	Bus					16.177	33.779				16.095
Trans1	0.400	Trans1	Bus					23.182	38.201				23.179
	0.400	Busbar 1	Busduct	50.000				23.182	38.201				
Trans2	0.400	Trans2	Bus					35.990	73.650				35.979
Trans5	0.400	Trans5	Bus					35.987	73.629				35.973
Trans6	0.400	Trans6	Bus					23.176	38.186				23.171
	0.400	Busbar 4	Busduct	50.000				23.176	38.186				
Trans7	0.400	Trans7	Bus					23.092	38.013				23.088
	0.400	Busbar 5	Busduct	50.000				23.092	38.013				
Trans8	0.400	Trans8	Bus					23.092	38.013				23.088
	0.400	Busbar 6	Busduct	50.000				23.092	38.013				
Trans9	0.400	Trans9	Bus					23.085	37.998				23.081
	0.400	Busbar 7	Busduct	50.000				23.085	37.998				
Trans10	0.400	Trans10	Bus					23.085	37.998				23.081

3-Phase Fault Currents

Bus		Device		Device Capacity (kA)				Short-Circuit Current (kA)					
				Making									
ID	kV	ID	Type	Peak	Ib sym	Ib asym	Idc	I"k	ip	Ib sym	Ib asym	Idc	Ik
Trans10	0.400	Busbar 8	Busduct	50.000				23.085	37.998				
Trans11	0.400	Trans11	Bus					35.789	72.854				35.778
Trans12	0.400	Trans12	Bus					35.789	72.854				35.778
Trans14	0.400	Trans14	Bus					23.085	37.996				23.079
	0.400	Busbar 9	Busduct	50.000				23.085	37.996				
Trans15	0.400	Trans15	Bus					23.086	37.999				23.080
	0.400	Busbar 10	Busduct	50.000				23.086	37.999				
Trans16	0.400	Trans16	Bus					31.174	62.859				28.935
	0.400	Busbar 11	Busduct	65.000				31.174	62.859				
Trans17	0.400	Trans17	Bus					23.089	38.005				23.083
	0.400	Busbar 12	Busduct	50.000				23.089	38.005				
Trans18	0.400	Trans18	Bus					23.090	38.008				23.084
	0.400	Busbar 13	Busduct	50.000				23.090	38.008				
Trans19	0.400	Trans19	Bus					23.091	38.010				23.085
	0.400	Busbar 14	Busduct	50.000				23.091	38.010				
Trans20	0.400	Trans20	Bus					23.029	37.929				23.023
	0.400	Busbar 15	Busduct	50.000				23.029	37.929				
TX2	11.000	TX2	Bus					17.263	38.955				17.194
TX5	11.000	TX5	Bus					17.243	38.808				17.162
TX11	11.000	TX11	Bus					16.186	33.867				16.127
TX12	11.000	TX12	Bus					16.186	33.867				16.127
TX13	0.400	TX13	Bus					18.481	30.340				18.477
	0.400	BusWay3	Busduct	65.000				18.481	30.340				
TX16	11.000	TX16	Bus					15.650	31.492				15.566
UPS North Output DB1	0.400	UPS North Output DB1	Bus					16.481	25.128				16.479
	0.400	CB119	CB	52.500	25.000	29.526		16.481	25.128	16.481	16.525	1.209	
	0.400	CB144	CB	52.500	25.000	29.526		16.481	25.128	16.481	16.525	1.209	
	0.400	CB147	CB	52.500	25.000	29.526		16.481	25.128	16.481	16.525	1.209	
	0.400	CB148	CB	52.500	25.000	29.526		16.481	25.128	16.481	16.525	1.209	
	0.400	CB156	CB	52.500	25.000	29.526		16.481	25.128	16.481	16.525	1.209	
	0.400	CB165	CB	52.500	25.000	29.526		16.481	25.128	16.481	16.525	1.209	

ip is calculated using method C
Ib does not include decay of non-terminal faulted induction motors
Ik is the maximum steady state fault current
Idc is based on X/R from Method C and Ib as specified above

LV CB duty determined based on service rating.
Total through current is used for device duty.

* Indicates a device with calculated duty exceeding the device capability.

\# Indicates a device with calculated duty exceeding the device marginal limit. (95 % times device capability)

Short-Circuit Summary Report

		Device Capacity			3-Phase Short-Circuit Duty Results		
Bus ID	Device ID	Ithr (kA)	Tkr (sec.)	Rated Thermal Energy (MJ)	Ith (kA)	Tkr (sec.)	Thermal Energy (MJ)
BB 1A	CB3	20.000	3.00	1200.00	18.555	3.00	1032.83
BB 1A	CB4	20.000	3.00	1200.00	18.555	3.00	1032.83
DB-Parking	CB67	42.000	1.00	1764.00	17.684	1.00	312.72
DB-Parking	CB70	25.000	1.00	625.00	17.684	1.00	312.72
DB-Parking	CB73	25.000	1.00	625.00	17.684	1.00	312.72
DB-Parking	CB81	25.000	1.00	625.00	17.684	1.00	312.72
DB-Parking	CB133	25.000	1.00	625.00	17.684	1.00	312.72
DB-Parking	CB134	25.000	1.00	625.00	17.684	1.00	312.72
DB-Parking	CB137	25.000	1.00	625.00	17.684	1.00	312.72
DB-Parking	CB167	25.000	1.00	625.00	17.684	1.00	312.72
DB-Parking	CB168	25.000	1.00	625.00	17.684	1.00	312.72
Input/Output UPS DB-South	CB25	25.000	1.00	625.00	17.714	1.00	313.80
Input/Output UPS DB-South	CB59	25.000	1.00	625.00	17.714	1.00	313.80
Input/Output UPS DB-South	CB60	25.000	1.00	625.00	17.714	1.00	313.80
Input/Output UPS DB-South	CB72	25.000	1.00	625.00	17.714	1.00	313.80
Input/Output UPS DB-South	CB88	25.000	1.00	625.00	17.714	1.00	313.80
Input/Output UPS DB-South	CB89	25.000	1.00	625.00	17.714	1.00	313.80
Inverter DB-Section1	CB100	66.000	1.00	4356.00	34.232	1.00	1171.82
Inverter DB-Section2	CB99	66.000	1.00	4356.00	33.780	1.00	1141.11
Inverter DB-Section2	CB101	36.000	1.00	1296.00	33.780	1.00	1141.11
Inverter DB-Section2	CB103	36.000	1.00	1296.00	33.780	1.00	1141.11
Inverter DB-Section2	CB104	36.000	1.00	1296.00	33.780	1.00	1141.11
Main Standby DB	CB123	36.000	1.00	1296.00	29.816	1.00	888.97
Main Standby DB	CB21	36.000	1.00	1296.00	29.816	1.00	888.97
Main Standby DB	CB22	36.000	1.00	1296.00	29.816	1.00	888.97
Main Standby DB	CB41	36.000	1.00	1296.00	29.816	1.00	888.97
Main Standby DB	CB42	36.000	1.00	1296.00	29.816	1.00	888.97
Main Standby DB	CB43	36.000	1.00	1296.00	29.816	1.00	888.97
Main Standby DB	CB44	36.000	1.00	1296.00	29.816	1.00	888.97
Main Standby DB	CB122	42.000	1.00	1764.00	29.816	1.00	888.97
MV-C/O-1	CB17	20.000	3.00	1200.00	17.405	3.00	908.75
MV-C/O-2	CB20	20.000	3.00	1200.00	17.417	3.00	910.07
North Main Substation	MP 2	20.000	3.00	1200.00	17.417	3.00	910.07
North Main Substation	CB1	20.000	3.00	1200.00	17.417	3.00	910.07
North Main Substation	CB20	20.000	3.00	1200.00	17.417	3.00	910.07
North Main Substation	CB24	20.000	3.00	1200.00	17.417	3.00	910.07

		Device Capacity			3-Phase Short-Circuit Duty Results		
Bus ID	Device ID	Ithr (kA)	Tkr (sec.)	Rated Thermal Energy (MJ)	Ith (kA)	Tkr (sec.)	Thermal Energy (MJ)
Parking Area Minisub	CB49	20.000	3.00	1200.00	15.483	3.00	719.14
Phase 1 Aircon S1	CB2	66.000	1.00	4356.00	34.366	1.00	1180.99
Phase 1 Aircon S2	CB7	66.000	1.00	4356.00	34.362	1.00	1180.73
Phase 1 Main DB NE S1	CB36	25.000	1.00	625.00	19.149	1.00	366.70
Phase 1 Main DB NE S1	CB37	25.000	1.00	625.00	19.149	1.00	366.70
Phase 1 Main DB NE S1	CB38	25.000	1.00	625.00	19.149	1.00	366.70
Phase 1 Main DB NE S1	CB39	25.000	1.00	625.00	19.149	1.00	366.70
Phase 1 Main DB NE S1	CB40	25.000	1.00	625.00	19.149	1.00	366.70
Phase 1 Main DB NE S1	CB31	25.000	1.00	625.00	19.149	1.00	366.70
Phase 1 Main DB NE S1	CB33	25.000	1.00	625.00	19.149	1.00	366.70
Phase 1 Main DB NE S1	CB10	42.000	1.00	1764.00	19.149	1.00	366.70
Phase 1 Main DB NE S2	CB26	25.000	1.00	625.00	18.709	1.00	350.01
Phase 1 Main DB NE S2	CB27	25.000	1.00	625.00	18.709	1.00	350.01
Phase 1 Main DB NE S2	CB28	25.000	1.00	625.00	18.709	1.00	350.01
Phase 1 Main DB NE S2	CB29	25.000	1.00	625.00	18.709	1.00	350.01
Phase 1 Main DB NE S2	CB30	25.000	1.00	625.00	18.709	1.00	350.01
Phase 1 Main DB NE S2	CB19	42.000	1.00	1764.00	18.709	1.00	350.01
Phase 1 Main DB NM S1	CB62	25.000	1.00	625.00	22.033	1.00	485.47
Phase 1 Main DB NM S1	CB63	25.000	1.00	625.00	22.033	1.00	485.47
Phase 1 Main DB NM S1	CB64	25.000	1.00	625.00	22.033	1.00	485.47
Phase 1 Main DB NM S1	CB65	25.000	1.00	625.00	22.033	1.00	485.47
Phase 1 Main DB NM S1	CB66	25.000	1.00	625.00	22.033	1.00	485.47
Phase 1 Main DB NM S1	CB58	42.000	1.00	1764.00	22.033	1.00	485.47
Phase 1 Main DB NM S1	CB118	50.000	1.00	2500.00	22.033	1.00	485.47
Phase 1 Main DB NM S2	CB53	25.000	1.00	625.00	22.033	1.00	485.47
Phase 1 Main DB NM S2	CB54	25.000	1.00	625.00	22.033	1.00	485.47
Phase 1 Main DB NM S2	CB55	25.000	1.00	625.00	22.033	1.00	485.47
Phase 1 Main DB NM S2	CB56	25.000	1.00	625.00	22.033	1.00	485.47
Phase 1 Main DB NM S2	CB57	25.000	1.00	625.00	22.033	1.00	485.47
Phase 1 Main DB NM S2	CB61	42.000	1.00	1764.00	22.033	1.00	485.47
Phase 1 Main DB NW S2	CB76	25.000	1.00	625.00	22.027	1.00	485.19
Phase 1 Main DB NW S2	CB77	25.000	1.00	625.00	22.027	1.00	485.19
Phase 1 Main DB NW S2	CB78	25.000	1.00	625.00	22.027	1.00	485.19
Phase 1 Main DB NW S2	CB79	25.000	1.00	625.00	22.027	1.00	485.19
Phase 1 Main DB NW S2	CB80	25.000	1.00	625.00	22.027	1.00	485.19
Phase 1 Main DB NW S2	CB94	25.000	1.00	625.00	22.027	1.00	485.19
Phase 1 Main DB NW S2	CB95	25.000	1.00	625.00	22.027	1.00	485.19
Phase 1 Main DB NW S2	CB90	42.000	1.00	1764.00	22.027	1.00	485.19
Phase 1 Main DB NW S6	CB82	25.000	1.00	625.00	22.027	1.00	485.19

		Device Capacity			3-Phase Short-Circuit Duty Results		
Bus ID	Device ID	Ithr (kA)	Tkr (sec.)	Rated Thermal Energy (MJ)	Ith (kA)	Tkr (sec.)	Thermal Energy (MJ)
Phase 1 Main DB NW S6	CB83	25.000	1.00	625.00	22.027	1.00	485.19
Phase 1 Main DB NW S6	CB84	25.000	1.00	625.00	22.027	1.00	485.19
Phase 1 Main DB NW S6	CB85	25.000	1.00	625.00	22.027	1.00	485.19
Phase 1 Main DB NW S6	CB86	25.000	1.00	625.00	22.027	1.00	485.19
Phase 1 Main DB NW S6	CB92	25.000	1.00	625.00	22.027	1.00	485.19
Phase 1 Main DB NW S6	CB87	42.000	1.00	1764.00	22.027	1.00	485.19
Phase 1 Main DB SE S1	CB110	25.000	1.00	625.00	16.354	1.00	267.45
Phase 1 Main DB SE S1	CB111	25.000	1.00	625.00	16.354	1.00	267.45
Phase 1 Main DB SE S1	CB112	25.000	1.00	625.00	16.354	1.00	267.45
Phase 1 Main DB SE S1	CB113	25.000	1.00	625.00	16.354	1.00	267.45
Phase 1 Main DB SE S1	CB114	25.000	1.00	625.00	16.354	1.00	267.45
Phase 1 Main DB SE S1	CB115	25.000	1.00	625.00	16.354	1.00	267.45
Phase 1 Main DB SE S1	CB116	25.000	1.00	625.00	16.354	1.00	267.45
Phase 1 Main DB SE S1	CB45	25.000	1.00	625.00	16.354	1.00	267.45
Phase 1 Main DB SE S1	CB117	42.000	1.00	1764.00	16.354	1.00	267.45
Phase 1 Main DB SE S2	CB97	25.000	1.00	625.00	15.991	1.00	255.72
Phase 1 Main DB SE S2	CB102	25.000	1.00	625.00	15.991	1.00	255.72
Phase 1 Main DB SE S2	CB105	25.000	1.00	625.00	15.991	1.00	255.72
Phase 1 Main DB SE S2	CB106	25.000	1.00	625.00	15.991	1.00	255.72
Phase 1 Main DB SE S2	CB107	25.000	1.00	625.00	15.991	1.00	255.72
Phase 1 Main DB SE S2	CB109	25.000	1.00	625.00	15.991	1.00	255.72
Phase 1 Main DB SE S2	CB120	42.000	1.00	1764.00	15.991	1.00	255.72
Phase 1 Main DB SM S1	CB139	25.000	1.00	625.00	22.031	1.00	485.35
Phase 1 Main DB SM S1	CB140	25.000	1.00	625.00	22.031	1.00	485.35
Phase 1 Main DB SM S1	CB141	25.000	1.00	625.00	22.031	1.00	485.35
Phase 1 Main DB SM S1	CB142	25.000	1.00	625.00	22.031	1.00	485.35
Phase 1 Main DB SM S1	CB143	25.000	1.00	625.00	22.031	1.00	485.35
Phase 1 Main DB SM S1	CB146	42.000	1.00	1764.00	22.031	1.00	485.35
Phase 1 Main DB SM S1	CB23	50.000	1.00	2500.00	22.031	1.00	485.35
Phase 1 Main DB SM S2	CB132	25.000	1.00	625.00	21.392	1.00	457.63
Phase 1 Main DB SM S2	CB135	25.000	1.00	625.00	21.392	1.00	457.63
Phase 1 Main DB SM S2	CB138	25.000	1.00	625.00	21.392	1.00	457.63
Phase 1 Main DB SM S2	CB149	42.000	1.00	1764.00	21.392	1.00	457.63
Phase 1 Main DB SW S1	CB159	25.000	1.00	625.00	22.027	1.00	485.18
Phase 1 Main DB SW S1	CB160	25.000	1.00	625.00	22.027	1.00	485.18
Phase 1 Main DB SW S1	CB161	25.000	1.00	625.00	22.027	1.00	485.18
Phase 1 Main DB SW S1	CB162	25.000	1.00	625.00	22.027	1.00	485.18
Phase 1 Main DB SW S1	CB163	25.000	1.00	625.00	22.027	1.00	485.18
Phase 1 Main DB SW S1	CB166	42.000	1.00	1764.00	22.027	1.00	485.18

		Device Capacity			3-Phase Short-Circuit Duty Results		
Bus ID	Device ID	Ithr (kA)	Tkr (sec.)	Rated Thermal Energy (MJ)	Ith (kA)	Tkr (sec.)	Thermal Energy (MJ)
Phase 1 Main DB SW S2	CB152	25.000	1.00	625.00	22.028	1.00	485.24
Phase 1 Main DB SW S2	CB153	25.000	1.00	625.00	22.028	1.00	485.24
Phase 1 Main DB SW S2	CB154	25.000	1.00	625.00	22.028	1.00	485.24
Phase 1 Main DB SW S2	CB155	25.000	1.00	625.00	22.028	1.00	485.24
Phase 1 Main DB SW S2	CB158	25.000	1.00	625.00	22.028	1.00	485.24
Phase 1 Main DB SW S2	CB169	42.000	1.00	1764.00	22.028	1.00	485.24
Phase 1 North Substation	CB32	20.000	3.00	1200.00	16.355	3.00	802.44
Phase 1 North Substation	CB34	20.000	3.00	1200.00	16.355	3.00	802.44
Phase 1 North Substation	CB35	20.000	3.00	1200.00	16.355	3.00	802.44
Phase 1 North Substation	CB75	20.000	3.00	1200.00	16.355	3.00	802.44
Phase 1 North Substation	CB74	20.000	3.00	1200.00	16.355	3.00	802.44
Phase 1 North Substation	CB96	20.000	3.00	1200.00	16.355	3.00	802.44
Phase 1 North Substation	CB98	20.000	3.00	1200.00	16.355	3.00	802.44
Phase 1 South Substation	CB8	20.000	3.00	1200.00	16.390	3.00	805.86
Phase 1 South Substation	CB93	20.000	3.00	1200.00	16.390	3.00	805.86
Phase 1 South Substation	CB91	20.000	3.00	1200.00	16.390	3.00	805.86
Phase 1 South Substation	CB121	20.000	3.00	1200.00	16.390	3.00	805.86
Phase 1 South Substation	CB131	20.000	3.00	1200.00	16.390	3.00	805.86
Phase 1 South Substation	CB130	20.000	3.00	1200.00	16.390	3.00	805.86
Phase 1 South Substation	CB151	20.000	3.00	1200.00	16.390	3.00	805.86
Phase 1 South Substation	CB150	20.000	3.00	1200.00	16.390	3.00	805.86
Phase 1 South Substation	CB170	20.000	3.00	1200.00	16.390	3.00	805.86
South Main Substation	MP 3	20.000	3.00	1200.00	17.405	3.00	908.75
South Main Substation	CB16	20.000	3.00	1200.00	17.405	3.00	908.75
South Main Substation	CB17	20.000	3.00	1200.00	17.405	3.00	908.75
South Main Substation	CB18	20.000	3.00	1200.00	17.405	3.00	908.75
UPS North Output DB1	CB119	25.000	1.00	625.00	16.513	1.00	272.69
UPS North Output DB1	CB144	25.000	1.00	625.00	16.513	1.00	272.69
UPS North Output DB1	CB147	25.000	1.00	625.00	16.513	1.00	272.69
UPS North Output DB1	CB148	25.000	1.00	625.00	16.513	1.00	272.69
UPS North Output DB1	CB156	25.000	1.00	625.00	16.513	1.00	272.69
UPS North Output DB1	CB165	25.000	1.00	625.00	16.513	1.00	272.69

Ithr = Rated short-time withstand current (Icw for low voltage circuit breaker)
Tkr = Rated short-time
Ith = Thermal equivalent short-time current

* Indicates a device with calculated duty exceeding the device capability.

\# Indicates a device with calculated duty exceeding the device marginal limit. (95 % times device capability)