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Table D.1.1 - SHETL Fault Levels (kA), Winter 2007/08

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
Abernethy	132	12.5	6.31	0.13	9.06	13.47	6.5	0.47	9.66
Abernthly	33	20.56	8.66	0.39	12.65	2.97	2.06	0	2.91
Alness	33	29.25	12.22	0.67	17.96	1.45	1.01	0	1.42
Arbroath	33	23.11	9.21	1.63	14.65	1.53	1.06	0	1.5
Ardmore	33	6.32	2.93	0.09	4.24	1.06	0.73	0	1.04
Beauly	33	30.15	11.59	4.08	20.47	1.48	1.02	0	1.45
Beauly	132	42.12	17.97	6.32	31.73	49.01	20.72	8.51	37.81
Beauly	275	22.23	9.36	3.17	16.4	21.63	8.95	3.86	16.52
Blackhillock	275	39.61	16.29	5.46	28.49	35.17	14.59	5.25	25.88
Boat Of Garten	33	17.29	7.16	0.59	10.71	1.48	1.03	0	1.45
Braco	33	36.52	14.86	1.42	22.43	1.65	1.14	0	1.62
Brechin	132	11.29	5.69	0.13	8.18	11.66	5.58	0.28	8.17
Bridge Of Dun	33	20.53	8.79	0.28	12.72	2.14	1.48	0	2.1

Broadford	33	6.83	2.97	0.13	4.33	0.74	0.51	0	0.73
Brora	33	5.97	2.32	0.57	3.85	0	0	0	0
Burghmuir	33	20.33	8.9	0.16	12.74	2.2	1.52	0	2.15
Burghmuir	132	10.25	5.3	0.06	7.56	11.55	5.64	0.25	8.23
Carradale	33	22.45	10.06	0.49	14.73	2.14	1.48	0	2.1
Cassley	33	5.65	2.35	0.28	3.61	0.38	0.27	0	0.38
Charleston	33	27.76	10.51	5.47	20.33	1.57	1.09	0	1.54
Charleston	132	30.56	13.21	5.15	23.82	36.16	15.73	5.82	28.07
Clayhills	33	28.05	10.9	2.6	18.02	2.99	2.07	0	2.93
Coupar Angus	33	30.71	12.33	2.28	19.72	2.18	1.51	0	2.14
Coupar Angus	132	17.47	8.34	1.01	12.8	17.19	7.99	1.5	12.8
Craigiebuckler	33	25.24	9.8	2.34	16.2	1.51	1.05	0	1.48
Craigiebuckler	132	33.12	13.48	5.46	24.52	41.23	16.97	6.02	30.02
Dounreay	132	11.06	4.81	1.51	8.31	11.82	5.13	1.53	8.78
Dounreay	275	6.89	2.92	0.76	4.89	6.38	2.67	0.81	4.59
Dudhope	33	30.07	11.6	4.33	20.73	2.88	2	0	2.82
Dunbeath	33	10.92	4.35	0.74	6.9	0	0.01	0	0.02
Dunoon	33	25.81	11.46	0.12	16.34	2.65	1.83	0	2.59
Dunvegan	11	9.66	4.4	0.14	6.36	0.75	0.52	0	0.74
Dyce	33	28.09	10.99	2.39	17.92	3	2.08	0	2.94
Elgin	33	23.92	9.52	1.47	14.94	1.82	1.26	0	1.78
Errochty	132	34.64	15.98	4.7	27.29	32.53	14.66	5.14	25.87
Fasnakyle	132	26.46	12.29	2.54	19.92	22.74	10.38	2.8	17.48
Fiddes	33	16.14	7.04	0.12	10.07	1.5	1.04	0	1.47
Fiddes	132	11.16	5.72	0.06	8.15	11.44	5.53	0.19	8.01
Fort Augustus	132	23.74	10.96	2.93	18.44	23.4	10.62	2.66	17.68
Fort William	132	6.87	3.43	0.47	5.31	7.23	3.41	0.89	5.71
Foyers	275	21.24	8.8	4.26	16.71	20.96	8.52	4.7	16.75
Fraserburgh	33	21.35	8.52	1.04	13.09	2.13	1.47	0	2.08
Ft Augustus	33	6.95	2.62	1.15	4.86	10.42	3.93	1.71	7.27
Ft William	33	19.08	8.13	0.63	12.12	0.82	0.6	0	0.85
Glenages*2	33	20.4	7.89	2.48	13.63	1.39	0.96	0	1.36
Inverary	132	22.04	10.25	1.98	16.47	22.19	10.24	1.79	16.27
Inverness	33	36.87	15.1	1.41	22.76	3.1	2.15	0	3.04

Keith	33	32.37	12.85	6.44	24.61	2.8	1.94	0	2.75
Keith	132	26.82	11.05	6.84	22.46	31.91	12.95	8.66	26.97
Keith	275	38.27	15.71	5.29	27.5	34.42	14.22	5.46	25.57
Killin	33	11.1	4.4	0.77	6.99	0.87	0.6	0	0.85
Killin	132	20.03	9.7	1.46	15.18	19.95	9.26	1.84	14.94
Kinlochleven	33	12.51	5.13	0.97	8.23	0.72	0.5	0	0.7
Kintore	33	32.95	12.58	5.49	23.28	2.3	1.6	0	2.26
Kintore	132	35.34	13.96	8.54	28.28	42.58	16.78	11.01	34.74
Kintore	275	50.86	20.24	9.72	38.34	49.12	19.77	9.04	36.99
Lairg	33	7.37	3.01	0.28	4.53	0.38	0.26	0	0.37
Lunanhead	33	29.64	11.65	2.99	19.46	2.17	1.5	0	2.13
Lyndhurst	33	29.48	11.43	3.82	19.98	2.91	2.02	0	2.85
Macduff	33	15.59	6.86	0.26	9.95	2.08	1.44	0	2.04
Milton Of Craigie	33	30.88	11.88	4.59	21.4	3.28	2.27	0	3.21
Milton Of Craigie	132	29.98	12.91	5.33	23.59	35.08	15.18	5.81	27.28
Mybster	33	34.11	13.72	3.68	23.08	3.28	2.27	0	3.21
Nairn	33	22.83	9.32	0.74	13.92	3.01	2.09	0	2.95
Persley	33	36.39	13.95	5.03	24.75	3.43	2.38	0	3.36
Persley	132	32.74	13.26	6.9	25.65	41.46	16.81	9.13	32.9
Persley	275	33.45	13.37	5.81	24.71	31.08	12.5	5.93	23.6
Peterhead	132	28.62	10.61	9.6	24.61	37.99	14.09	13.03	32.96
Peterhead	275	54.3	20.62	17.79	46.95	65.88	24.87	22.29	57.46
Peterhead Grange	33	24.57	9.37	3	16.26	0.59	0.41	0	0.58
Port Ann	33	18.81	8.25	0.28	11.95	1.84	1.27	0	1.8
Redmoss	33	26.45	10.15	3.08	17.44	2.94	2.04	0	2.88
Shin	132	13.44	6.54	0.74	9.99	12.72	5.97	0.95	9.39
Sloy	132	31.15	13.88	3.9	23.52	33.55	14.87	4.3	25.32
Strichen	33	21.76	8.65	1.16	13.38	1.51	1.05	0	1.48
Tarland	33	17.13	7.01	0.62	10.53	1.5	1.04	0	1.47
Taynuilt	33	24.2	10.28	0.96	15.5	2.18	1.51	0	2.13
Tealing	132	33.56	14.18	7.47	27.52	40.11	16.89	8.69	32.58
Tealing	275	46.77	18.86	6.76	33.43	40.61	16.55	6.07	29.48
Thurso	33	25.38	10.09	2.54	16.81	2.9	2.01	0	2.84
Willowdale	33	30.5	11.58	4.64	21.02	2.97	2.06	0	2.92

Woodhill	33	28.55	10.67	5.73	20.82	4.39	3.04	0	4.31
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Table D.1.2 - SHETL Fault Levels (kA), Winter 2008/09

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
Abernethy	132	12.46	6.29	0.13	9.03	13.42	6.47	0.47	9.62
Abernthly	33	20.5	8.64	0.39	12.61	2.96	2.05	0	2.9
Alness	33	29.82	12.43	0.71	18.29	1.46	1.01	0	1.43
Arbroath	33	23.04	9.18	1.62	14.61	1.52	1.06	0	1.49
Ardmore	33	7.89	3.43	0.27	5.11	1.09	0.76	0	1.07
Beaully	33	30.42	11.69	4.1	20.64	1.48	1.03	0	1.45
Beaully	132	43.61	18.66	6.43	32.82	50.58	21.44	8.66	38.98
Beaully	275	22.65	9.52	3.23	16.7	21.98	9.09	3.94	16.79
Blackhillock	275	39.72	16.36	5.45	28.58	35.2	14.62	5.24	25.91
Boat Of Garten	33	25	10.57	0.76	15.7	2.17	1.5	0	2.13
Braco	33	36.41	14.81	1.41	22.36	1.64	1.14	0	1.61
Brechin	132	11.26	5.68	0.13	8.16	11.63	5.56	0.28	8.15
Bridge Of Dun	33	20.49	8.78	0.28	12.69	2.14	1.48	0	2.1

Broadford	33	7.66	3.2	0.27	4.8	0.75	0.52	0	0.74
Brora	33	6.05	2.35	0.59	3.91	0	0	0	0
Burghmuir	33	20.27	8.87	0.16	12.7	2.19	1.52	0	2.15
Burghmuir	132	10.22	5.28	0.06	7.53	11.51	5.62	0.25	8.21
Carradale	33	27.5	12.12	0.9	18.03	2.17	1.5	0	2.13
Cassley	33	10.03	4.29	0.27	6.34	1.11	0.77	0	1.09
Charleston	33	27.67	10.47	5.48	20.29	1.57	1.09	0	1.53
Charleston	132	30.42	13.13	5.18	23.75	35.31	15.28	5.86	27.46
Clayhills	33	27.99	10.87	2.6	17.98	2.98	2.06	0	2.92
Coupar Angus	33	30.64	12.3	2.28	19.67	2.18	1.51	0	2.13
Coupar Angus	132	17.42	8.31	1.01	12.76	17.12	7.95	1.49	12.74
Craigiebuckler	33	25.19	9.78	2.34	16.17	1.51	1.05	0	1.48
Craigiebuckler	132	33.08	13.46	5.46	24.49	41.17	16.95	6.01	29.98
Dounreay	132	11.79	5.13	1.53	8.78	13.54	5.83	1.91	10.15
Dounreay	275	7.06	2.98	0.77	4.99	6.78	2.81	1.01	4.98
Dudhope	33	29.98	11.55	4.38	20.72	2.87	1.99	0	2.82
Dunbeath	33	10.98	4.37	0.75	6.93	0	0.01	0	0.02
Dunoon	33	26.24	11.67	0.11	16.62	2.63	1.82	0	2.58
Dunvegan	11	11.76	5.01	0.49	7.58	0.76	0.53	0	0.75
Dyce	33	28.02	10.96	2.38	17.88	2.99	2.07	0	2.93
Elgin	33	24.02	9.59	1.43	14.98	1.84	1.28	0	1.81
Errochty	132	34.52	15.89	4.66	27.13	32.42	14.58	5.11	25.73
Fasnakyle	132	26.99	12.6	2.54	20.35	23.05	10.55	2.81	17.73
Fiddes	33	16.11	7.02	0.12	10.04	1.49	1.04	0	1.46
Fiddes	132	11.14	5.71	0.06	8.13	11.41	5.52	0.19	8
Fort Augustus	132	24.33	11.29	2.92	18.89	23.81	10.84	2.65	17.98
Fort William	132	6.96	3.48	0.45	5.38	7.26	3.43	0.88	5.73
Foyers	275	21.44	8.89	4.28	16.85	21.1	8.58	4.71	16.85
Fraserburgh	33	21.35	8.52	1.04	13.09	2.13	1.47	0	2.08
Ft Augustus	33	6.99	2.64	1.15	4.88	10.47	3.95	1.71	7.31
Ft William	33	19.25	8.18	0.64	12.21	0.86	0.6	0	0.84
Inverary	132	28.02	12.93	1.94	20.22	26.66	12.28	1.69	19.06
Inverness	33	37.03	15.14	1.44	22.85	3.06	2.12	0	3
Keith	33	32.3	12.82	6.42	24.55	2.79	1.94	0	2.74

Keith	132	26.86	11.08	6.83	22.5	31.93	12.98	8.64	27
Keith	275	38.37	15.77	5.28	27.58	34.45	14.24	5.45	25.59
Killin	33	15.49	6.03	1.59	10.11	1.1	0.76	0	1.07
Killin	132	22.36	10.71	1.45	16.59	23.05	10.61	1.99	16.99
Kinlochleven	33	12.54	5.15	0.97	8.26	0.72	0.5	0	0.7
Kintore	33	32.88	12.56	5.48	23.23	2.3	1.59	0	2.25
Kintore	132	35.29	13.94	8.52	28.24	42.51	16.75	10.99	34.68
Kintore	275	50.87	20.26	9.71	38.36	49.07	19.76	9.03	36.97
Lairg	33	23.26	9.64	0.69	14.32	0	0.78	0	1.1
Lunanhead	33	29.55	11.61	2.98	19.4	2.16	1.5	0	2.12
Lyndhurst	33	29.39	11.39	3.83	19.94	2.9	2.01	0	2.85
Macduff	33	15.56	6.85	0.25	9.94	2.09	1.45	0	2.05
Milton Of Craigie	33	30.81	11.85	4.6	21.35	3.27	2.27	0	3.21
Milton Of Craigie	132	29.86	12.83	5.34	23.49	34.12	14.71	5.88	26.67
Mybster	33	34.92	14.05	3.6	23.47	3.27	2.27	0	3.21
Nairn	33	22.89	9.35	0.74	13.96	3.01	2.09	0	2.95
Persley	33	36.31	13.92	5.02	24.7	3.42	2.37	0	3.35
Persley	132	32.69	13.24	6.89	25.62	41.4	16.79	9.11	32.85
Persley	275	33.44	13.37	5.8	24.72	31.05	12.49	5.92	23.59
Peterhead	132	28.63	10.62	9.6	24.62	38.01	14.1	13.03	32.97
Peterhead	275	54.4	20.67	17.82	47.05	65.98	24.91	22.32	57.55
Peterhead Grange	33	24.57	9.37	3	16.26	0.59	0.41	0	0.58
Port Ann	33	19.62	8.56	0.28	12.38	1.83	1.27	0	1.79
Redmoss	33	26.6	10.22	3.05	17.51	2.98	2.07	0	2.93
Shin	132	15.16	7.27	0.98	11.26	14.54	6.79	1.14	10.74
Sloy	132	41.83	18.23	4.78	30.56	44.15	19.24	5.22	32.43
Strichen	33	21.76	8.65	1.16	13.38	1.51	1.05	0	1.48
Tarland	33	17.09	7	0.61	10.51	1.5	1.04	0	1.47
Taynuilt	33	25.62	10.75	1.16	16.36	2.17	1.5	0	2.13
Tealing	132	33.42	14.12	7.43	27.4	39.68	16.68	8.65	32.24
Tealing	275	46.66	18.82	6.74	33.36	40.4	16.47	6.07	29.36
Thurso	33	26.01	10.33	2.52	17.14	2.91	2.02	0	2.86
Willowdale	33	30.43	11.56	4.63	20.98	2.97	2.06	0	2.91
Woodhill	33	28.48	10.65	5.71	20.77	4.38	3.04	0	4.29

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Table D.1.3 - SHETL Fault Levels (kA), Winter 2009/10

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
Abernethy	132	12.5	6.31	0.13	9.06	13.47	6.5	0.47	9.66
Abernthly	33	20.56	8.66	0.39	12.65	2.97	2.06	0	2.91
Alness	33	29.25	12.22	0.67	17.96	1.45	1.01	0	1.42
Arbroath	33	23.11	9.21	1.63	14.65	1.53	1.06	0	1.5
Ardmore	33	6.32	2.93	0.09	4.24	1.06	0.73	0	1.04
Beaully	33	30.15	11.59	4.08	20.47	1.48	1.02	0	1.45
Beaully	132	42.12	17.97	6.32	31.73	49.01	20.72	8.51	37.81
Beaully	275	22.23	9.36	3.17	16.4	21.63	8.95	3.86	16.52
Blackhillock	275	39.61	16.29	5.46	28.49	35.17	14.59	5.25	25.88
Boat Of Garten	33	17.29	7.16	0.59	10.71	1.48	1.03	0	1.45
Braco	33	36.52	14.86	1.42	22.43	1.65	1.14	0	1.62
Brechin	132	11.29	5.69	0.13	8.18	11.66	5.58	0.28	8.17
Bridge Of Dun	33	20.53	8.79	0.28	12.72	2.14	1.48	0	2.1

Broadford	33	6.83	2.97	0.13	4.33	0.74	0.51	0	0.73
Brora	33	5.97	2.32	0.57	3.85	0	0	0	0
Burghmuir	33	20.33	8.9	0.16	12.74	2.2	1.52	0	2.15
Burghmuir	132	10.25	5.3	0.06	7.56	11.55	5.64	0.25	8.23
Carradale	33	22.45	10.06	0.49	14.73	2.14	1.48	0	2.1
Cassley	33	5.65	2.35	0.28	3.61	0.38	0.27	0	0.38
Charleston	33	27.76	10.51	5.47	20.33	1.57	1.09	0	1.54
Charleston	132	30.56	13.21	5.15	23.82	36.16	15.73	5.82	28.07
Clayhills	33	28.05	10.9	2.6	18.02	2.99	2.07	0	2.93
Coupar Angus	33	30.71	12.33	2.28	19.72	2.18	1.51	0	2.14
Coupar Angus	132	17.47	8.34	1.01	12.8	17.19	7.99	1.5	12.8
Craigiebuckler	33	25.24	9.8	2.34	16.2	1.51	1.05	0	1.48
Craigiebuckler	132	33.12	13.48	5.46	24.52	41.23	16.97	6.02	30.02
Dounreay	132	11.06	4.81	1.51	8.31	11.82	5.13	1.53	8.78
Dounreay	275	6.89	2.92	0.76	4.89	6.38	2.67	0.81	4.59
Dudhope	33	30.07	11.6	4.33	20.73	2.88	2	0	2.82
Dunbeath	33	10.92	4.35	0.74	6.9	0	0.01	0	0.02
Dunoon	33	25.81	11.46	0.12	16.34	2.65	1.83	0	2.59
Dunvegan	11	9.66	4.4	0.14	6.36	0.75	0.52	0	0.74
Dyce	33	28.09	10.99	2.39	17.92	3	2.08	0	2.94
Elgin	33	23.92	9.52	1.47	14.94	1.82	1.26	0	1.78
Errochty	132	34.64	15.98	4.7	27.29	32.53	14.66	5.14	25.87
Fasnakyle	132	26.46	12.29	2.54	19.92	22.74	10.38	2.8	17.48
Fiddes	33	16.14	7.04	0.12	10.07	1.5	1.04	0	1.47
Fiddes	132	11.16	5.72	0.06	8.15	11.44	5.53	0.19	8.01
Fort Augustus	132	23.74	10.96	2.93	18.44	23.4	10.62	2.66	17.68
Fort William	132	6.87	3.43	0.47	5.31	7.23	3.41	0.89	5.71
Foyers	275	21.24	8.8	4.26	16.71	20.96	8.52	4.7	16.75
Fraserburgh	33	21.35	8.52	1.04	13.09	2.13	1.47	0	2.08
Ft Augustus	33	6.95	2.62	1.15	4.86	10.42	3.93	1.71	7.27
Ft William	33	19.08	8.13	0.63	12.12	0.82	0.6	0	0.85
Glenages*2	33	20.4	7.89	2.48	13.63	1.39	0.96	0	1.36
Inverary	132	22.04	10.25	1.98	16.47	22.19	10.24	1.79	16.27
Inverness	33	36.87	15.1	1.41	22.76	3.1	2.15	0	3.04

Keith	33	32.37	12.85	6.44	24.61	2.8	1.94	0	2.75
Keith	132	26.82	11.05	6.84	22.46	31.91	12.95	8.66	26.97
Keith	275	38.27	15.71	5.29	27.5	34.42	14.22	5.46	25.57
Killin	33	11.1	4.4	0.77	6.99	0.87	0.6	0	0.85
Killin	132	20.03	9.7	1.46	15.18	19.95	9.26	1.84	14.94
Kinlochleven	33	12.51	5.13	0.97	8.23	0.72	0.5	0	0.7
Kintore	33	32.95	12.58	5.49	23.28	2.3	1.6	0	2.26
Kintore	132	35.34	13.96	8.54	28.28	42.58	16.78	11.01	34.74
Kintore	275	50.86	20.24	9.72	38.34	49.12	19.77	9.04	36.99
Lairg	33	7.37	3.01	0.28	4.53	0.38	0.26	0	0.37
Lunanhead	33	29.64	11.65	2.99	19.46	2.17	1.5	0	2.13
Lyndhurst	33	29.48	11.43	3.82	19.98	2.91	2.02	0	2.85
Macduff	33	15.59	6.86	0.26	9.95	2.08	1.44	0	2.04
Milton Of Craigie	33	30.88	11.88	4.59	21.4	3.28	2.27	0	3.21
Milton Of Craigie	132	29.98	12.91	5.33	23.59	35.08	15.18	5.81	27.28
Mybster	33	34.11	13.72	3.68	23.08	3.28	2.27	0	3.21
Nairn	33	22.83	9.32	0.74	13.92	3.01	2.09	0	2.95
Persley	33	36.39	13.95	5.03	24.75	3.43	2.38	0	3.36
Persley	132	32.74	13.26	6.9	25.65	41.46	16.81	9.13	32.9
Persley	275	33.45	13.37	5.81	24.71	31.08	12.5	5.93	23.6
Peterhead	132	28.62	10.61	9.6	24.61	37.99	14.09	13.03	32.96
Peterhead	275	54.3	20.62	17.79	46.95	65.88	24.87	22.29	57.46
Peterhead Grange	33	24.57	9.37	3	16.26	0.59	0.41	0	0.58
Port Ann	33	18.81	8.25	0.28	11.95	1.84	1.27	0	1.8
Redmoss	33	26.45	10.15	3.08	17.44	2.94	2.04	0	2.88
Shin	132	13.44	6.54	0.74	9.99	12.72	5.97	0.95	9.39
Sloy	132	31.15	13.88	3.9	23.52	33.55	14.87	4.3	25.32
Strichen	33	21.76	8.65	1.16	13.38	1.51	1.05	0	1.48
Tarland	33	17.13	7.01	0.62	10.53	1.5	1.04	0	1.47
Taynuilt	33	24.2	10.28	0.96	15.5	2.18	1.51	0	2.13
Tealing	132	33.56	14.18	7.47	27.52	40.11	16.89	8.69	32.58
Tealing	275	46.77	18.86	6.76	33.43	40.61	16.55	6.07	29.48
Thurso	33	25.38	10.09	2.54	16.81	2.9	2.01	0	2.84
Willowdale	33	30.5	11.58	4.64	21.02	2.97	2.06	0	2.92

Woodhill	33	28.55	10.67	5.73	20.82	4.39	3.04	0	4.31
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Table D.1.4 - SHETL Fault Levels (kA), Winter 2010/11

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
Abernethy	132	13.39	6.75	0.16	9.7	14.17	6.82	0.55	10.19
Abernthty	33	21.1	8.81	0.49	12.96	2.94	2.04	0	2.88
Alness	33	29.81	12.43	0.71	18.29	1.46	1.01	0	1.43
Arbroath	33	23.35	9.26	1.72	14.82	1.51	1.04	0	1.48
Ardmore	33	8.48	3.72	0.24	5.5	1.1	0.77	0	1.08
Beaulay	33	30.54	11.73	4.18	20.77	1.48	1.03	0	1.46
Beaulay	132	44.33	18.96	6.76	33.57	51.44	21.78	9.03	39.83
Beaulay	275	23.87	10.01	3.57	17.72	23.33	9.65	4.2	17.85
Blackhillock	275	40.84	16.85	5.55	29.37	35.85	14.91	5.31	26.39
Boat Of Garten	33	24.99	10.56	0.75	15.69	2.16	1.5	0	2.12
Braco	33	36.5	14.87	1.37	22.39	1.65	1.15	0	1.62
Brechin	132	11.46	5.81	0.12	8.33	11.75	5.63	0.28	8.24
Bridge Of Dun	33	20.59	8.8	0.29	12.73	2.11	1.46	0	2.06

Broadford	33	8.9	3.6	0.46	5.56	0.76	0.53	0	0.75
Brora	33	13.59	5.51	0.71	8.5	2.12	1.47	0	2.08
Burghmuir	33	21.31	9.19	0.29	13.29	2.19	1.51	0	2.14
Burghmuir	132	11.24	5.75	0.13	8.26	12.46	6.04	0.4	8.94
Carradale	33	27.35	12.05	0.89	17.93	2.16	1.5	0	2.11
Cassley	33	10.06	4.31	0.26	6.36	1.11	0.77	0	1.09
Charleston	33	28.07	10.56	5.85	20.8	1.55	1.07	0	1.52
Charleston	132	33.34	14.3	5.84	26.07	37.8	16.3	6.37	29.41
Clayhills	33	28.17	10.94	2.62	18.1	2.99	2.08	0	2.94
Coupar Angus	33	30.84	12.33	2.34	19.78	2.15	1.49	0	2.1
Coupar Angus	132	18.18	8.72	0.95	13.28	17.56	8.18	1.46	13.03
Craigiebuckler	33	25.35	9.84	2.35	16.27	1.52	1.05	0	1.49
Craigiebuckler	132	33.55	13.66	5.55	24.87	41.79	17.22	6.09	30.44
Dounreay	132	16.91	7.12	2.55	12.62	18.74	7.85	2.94	14.05
Dounreay	275	11.05	4.63	1.41	7.97	10.66	4.44	1.51	7.79
Dudhope	33	30.46	11.68	4.66	21.18	2.84	1.97	0	2.79
Dunbeath	33	11.22	4.45	0.78	7.08	0	0.01	0	0.02
Dunoon	33	26.09	11.6	0.11	16.52	2.61	1.81	0	2.56
Dunvegan	11	12.54	5.37	0.45	8.05	0.77	0.53	0	0.75
Dyce	33	27.98	10.94	2.4	17.87	2.95	2.05	0	2.89
Elgin	33	24.06	9.6	1.43	15.01	1.84	1.28	0	1.81
Errochty	132	38.38	17.57	4.99	29.84	35.55	15.95	5.39	27.96
Fasnakyle	132	27.36	12.77	2.51	20.58	23.27	10.66	2.81	17.88
Fiddes	33	19.65	8.36	0.25	12.07	2.12	1.47	0	2.08
Fiddes	132	11.25	5.78	0.06	8.23	12.11	5.81	0.28	8.5
Fort Augustus	132	24.92	11.54	2.96	19.28	24.47	11.14	2.68	18.43
Fort William	132	6.97	3.49	0.45	5.39	7.27	3.44	0.88	5.74
Foyers	275	21.87	9.07	4.32	17.15	21.43	8.72	4.76	17.1
Fraserburgh	33	21.37	8.53	1.04	13.1	2.13	1.47	0	2.08
Ft Augustus	33	6.99	2.64	1.16	4.88	10.48	3.95	1.72	7.31
Ft William	33	19.27	8.19	0.63	12.22	0.86	0.59	0	0.84
Inverary	132	27.87	12.87	1.93	20.13	26.52	12.22	1.68	18.97
Inverness	33	37.18	15.2	1.46	22.96	3.07	2.13	0	3.01
Keith	33	32.29	12.81	6.44	24.56	2.79	1.93	0	2.73

Keith	132	27.03	11.15	6.89	22.66	32.09	13.04	8.71	27.16
Keith	275	39.42	16.22	5.38	28.32	35.07	14.51	5.53	26.06
Killin	33	15.48	6.02	1.59	10.1	1.09	0.76	0	1.07
Killin	132	22.48	10.78	1.43	16.68	23.13	10.65	1.98	17.04
Kinlochleven	33	12.55	5.15	0.97	8.26	0.72	0.5	0	0.7
Kintore	33	33.09	12.63	5.53	23.4	2.31	1.6	0	2.26
Kintore	132	35.83	14.16	8.73	28.75	43.06	16.97	11.21	35.22
Kintore	275	53.09	21.13	10.37	40.25	50.52	20.34	9.42	38.19
Lairg	33	23.35	9.68	0.68	14.37	0	0.78	0	1.1
Lunanhead	33	30.13	11.78	3.18	19.84	2.14	1.49	0	2.1
Lyndhurst	33	29.88	11.52	4.07	20.36	2.87	1.99	0	2.82
Macduff	33	15.47	6.82	0.24	9.88	2.08	1.44	0	2.04
Milton Of Craigie	33	31.3	11.98	4.9	21.84	3.25	2.25	0	3.18
Milton Of Craigie	132	32.59	13.92	6.03	25.72	36.4	15.64	6.38	28.49
Mybster	33	39.83	16.07	3.48	26.21	3.23	2.24	0	3.17
Nairn	33	22.94	9.37	0.74	13.99	3.01	2.09	0	2.96
Persley	33	40.91	15.55	6.87	28.85	2.18	1.51	0	2.14
Persley	132	33.15	13.44	7.01	26.01	42.08	17.06	9.35	33.48
Persley	275	34.19	13.68	5.95	25.29	31.56	12.7	6.09	24.04
Peterhead	132	28.75	10.66	9.64	24.72	38.15	14.16	13.07	33.09
Peterhead	275	55.33	21.04	18.07	47.83	66.91	25.27	22.58	58.33
Peterhead Grange	33	24.59	9.38	3	16.27	0.59	0.41	0	0.58
Port Ann	33	19.52	8.51	0.28	12.32	1.82	1.26	0	1.78
Redmoss	33	26.77	10.29	3.08	17.63	3	2.08	0	2.94
Shin	132	15.5	7.5	0.95	11.56	14.97	7.04	1.1	11.06
Sloy	132	41.63	18.16	4.75	30.44	43.93	19.15	5.19	32.28
Strichen	33	21.78	8.65	1.15	13.39	1.51	1.05	0	1.48
Tarland	33	17.18	7.04	0.62	10.57	1.51	1.04	0	1.48
Taynuilt	33	25.53	10.71	1.15	16.3	2.16	1.5	0	2.12
Tealing	132	36.83	15.42	8.76	30.57	43.09	17.97	9.91	35.32
Tealing	275	55.42	21.99	10.73	41.83	44.58	18.06	7.68	33.21
Thurso	33	28.43	11.13	2.9	18.64	2.88	2	0	2.82
Willowdale	33	30.63	11.63	4.67	21.13	2.98	2.07	0	2.92
Woodhill	33	28.67	10.72	5.77	20.93	4.4	3.05	0	4.32

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Table D.1.5 - SHETL Fault Levels (kA), Winter 2011/12

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
Abernethy	132	13.34	6.7	0.14	9.61	14.19	6.81	0.52	10.14
Abernthly	33	21.08	8.8	0.46	12.91	2.97	2.06	0	2.91
Alness	33	29.77	12.38	0.73	18.23	1.45	1.01	0	1.42
Arbroath	33	23.33	9.27	1.65	14.76	1.52	1.06	0	1.49
Ardmore	33	8.25	3.61	0.23	5.34	1.05	0.73	0	1.03
Beaully	33	30.62	11.71	4.68	21.25	1.51	1.04	0	1.48
Beaully	132	42.7	17.62	9.24	34.16	50.76	20.76	12.19	41.55
Beaully	275	46.43	18.5	10.34	36.5	46.29	18.3	11.68	37.55
Blackhillock	275	46.61	19.39	6	33.42	40.6	16.93	5.91	29.86
Boat Of Garten	33	27.26	11.7	0.72	17.26	2.15	1.49	0	2.11
Braco	33	54.52	20.66	9.93	39.15	2.18	1.51	0	2.14
Brechin	132	11.41	5.78	0.12	8.3	11.71	5.61	0.28	8.21
Bridge Of Dun	33	20.53	8.77	0.29	12.69	2.1	1.46	0	2.06

Broadford	33	9	3.62	0.46	5.58	0.76	0.52	0	0.74
Brora	33	13.83	5.6	0.72	8.64	2.14	1.48	0	2.1
Burghmuir	33	21.26	9.14	0.27	13.2	2.18	1.51	0	2.13
Burghmuir	132	11.23	5.72	0.11	8.2	12.44	6	0.37	8.86
Carradale	33	27.72	12.21	0.9	18.18	2.18	1.51	0	2.14
Cassley	33	9.98	4.27	0.26	6.3	1.09	0.75	0	1.07
Charleston	33	28.12	10.58	5.72	20.69	1.56	1.08	0	1.53
Charleston	132	32.95	14.1	5.56	25.5	37.54	16.15	6.16	29
Clayhills	33	28.3	10.99	2.67	18.21	3	2.08	0	2.94
Coupar Angus	33	30.88	12.33	2.27	19.7	2.16	1.5	0	2.12
Coupar Angus	132	18.15	8.65	0.91	13.15	17.57	8.15	1.44	12.97
Craigiebuckler	33	25.46	9.88	2.39	16.37	1.52	1.05	0	1.49
Craigiebuckler	132	34.15	13.9	5.83	25.49	42.64	17.5	6.53	31.28
Dounreay	132	19.11	7.98	3.09	14.38	20.94	8.7	3.6	15.9
Dounreay	275	14.92	6.14	2.1	10.78	14.42	5.89	2.33	10.66
Dudhope	33	30.49	11.69	4.56	21.09	2.87	1.99	0	2.82
Dunbeath	33	26.16	10.86	0.74	16.09	1.1	0.76	0	1.08
Dunoon	33	26.12	11.62	0.11	16.54	2.62	1.81	0	2.57
Dunvegan	11	12.09	5.12	0.47	7.71	1.07	0.75	0	1.05
Dyce	33	28.13	10.99	2.41	17.96	2.96	2.05	0	2.9
Elgin	33	24.42	9.7	1.48	15.2	1.83	1.27	0	1.79
Errochty	132	42.08	17.47	9.65	34.35	39.82	16.52	9.26	32.62
Fiddes	33	19.66	8.37	0.25	12.08	2.12	1.47	0	2.07
Fiddes	132	11.28	5.8	0.06	8.26	12.13	5.82	0.28	8.51
Fort Augustus	132	41.14	15.52	12.51	34.47	48.03	18.2	14.65	40.39
Fort William	132	8.01	3.88	0.42	5.91	8.11	3.72	0.99	6.26
Foyers	275	27.66	11.52	4.54	20.83	25.33	10.37	5.03	19.69
Fraserburgh	33	21.41	8.54	1.04	13.12	2.13	1.47	0	2.08
Ft Augustus	33	7.08	2.63	1.39	5.12	10.62	3.95	2.09	7.67
Ft William	33	25.6	10.99	0.52	16.05	1.93	1.34	0	1.89
Inverary	132	27.94	12.91	1.93	20.19	26.58	12.25	1.68	19.01
Inverness	33	37.08	15.07	1.67	22.97	3.06	2.12	0	3
Keith	33	33.33	13.18	6.68	25.32	2.81	1.95	0	2.76
Keith	132	30.12	12.36	7.41	24.89	35.59	14.42	9.38	29.77

Keith	275	44.67	18.51	5.82	32	39.35	16.33	6.06	29.15
Killin	33	15.5	6.02	1.59	10.11	1.09	0.76	0	1.07
Killin	132	22.59	10.79	1.41	16.66	23.22	10.66	1.96	17.04
Kinlochleven	33	12.93	5.23	0.96	8.36	0.71	0.49	0	0.7
Kintore	33	46.27	17.67	7.62	32.62	3.43	2.38	0	3.36
Kintore	132	36.59	14.46	8.9	29.35	44.53	17.54	11.53	36.34
Kintore	275	56.88	22.81	10.81	43.07	53.8	21.76	9.91	40.68
Lairg	33	23.32	9.68	0.65	14.34	0	0.78	0	1.11
Lunanhead	33	30.05	11.76	3.08	19.71	2.17	1.5	0	2.12
Lyndhurst	33	29.89	11.53	3.96	20.27	2.9	2.01	0	2.85
Macduff	33	15.91	6.98	0.28	10.16	2.1	1.46	0	2.06
Milton Of Craigie	33	31.29	11.97	4.79	21.72	3.27	2.27	0	3.21
Milton Of Craigie	132	32.17	13.72	5.77	25.17	36.11	15.48	6.2	28.1
Mybster	33	41.95	16.82	3.59	27.39	3.27	2.27	0	3.21
Nairn	33	23.14	9.42	0.77	14.09	3.03	2.1	0	2.97
Persley	33	41.16	15.62	6.93	29.02	2.18	1.51	0	2.14
Persley	132	33.76	13.66	7.12	26.44	43	17.34	9.56	34.08
Persley	275	35.48	14.25	6.04	26.19	32.45	13.08	6.28	24.78
Peterhead	132	29.05	10.79	9.69	24.95	38.51	14.3	13.14	33.37
Peterhead	275	57.65	22.03	18.52	49.67	69.3	26.28	23.07	60.24
Peterhead Grange	33	24.64	9.4	3	16.3	0.59	0.41	0	0.58
Port Ann	33	19.58	8.54	0.28	12.36	1.82	1.26	0	1.79
Redmoss	33	26.89	10.33	3.13	17.74	3.01	2.08	0	2.95
Shin	132	16.08	7.75	0.92	11.88	15.36	7.21	1.09	11.28
Sloy	132	41.8	18.24	4.74	30.54	44.07	19.22	5.19	32.36
Strichen	33	21.82	8.67	1.15	13.42	1.51	1.05	0	1.48
Tarland	33	17.24	7.06	0.62	10.6	1.51	1.05	0	1.48
Taynuilt	33	25.55	10.72	1.15	16.31	2.16	1.5	0	2.12
Tealing	132	36.28	15.17	8.35	29.81	42.51	17.71	9.51	34.56
Tealing	275	56.13	22.3	10.73	42.27	45.05	18.25	7.73	33.55
Thurso	33	29.44	11.48	3.02	19.25	2.91	2.01	0	2.85
Willowdale	33	30.78	11.68	4.78	21.31	2.99	2.07	0	2.93
Woodhill	33	28.8	10.76	5.88	21.11	4.41	3.06	0	4.32

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Table D.1.6 - SHETL Fault Levels (kA), Winter 2012/13

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
Abernethy	132	13.37	6.72	0.14	9.64	14.2	6.82	0.51	10.15
Abernthly	33	21.07	8.8	0.46	12.9	2.97	2.06	0	2.91
Alness	33	29.62	12.32	0.74	18.16	1.45	1.01	0	1.42
Arbroath	33	23.39	9.29	1.65	14.79	1.52	1.05	0	1.49
Ardmore	33	8.27	3.63	0.23	5.35	1.05	0.73	0	1.03
Beaully	33	30.03	11.53	4.56	20.87	1.5	1.04	0	1.47
Beaully	132	38.27	15.9	8.48	30.96	45.73	18.71	11.32	37.78
Beaully	275	50.56	20.22	10.83	39.42	51.51	20.54	12.25	41.3
Blackhillock	275	47.21	19.7	5.98	33.84	40.99	17.13	5.89	30.12
Boat Of Garten	33	27.05	11.6	0.73	17.13	2.15	1.49	0	2.11
Braco	33	56.79	21.77	9.85	40.63	2.18	1.51	0	2.14
Brechin	132	12.74	6.31	0.33	9.25	12.62	5.93	0.53	8.91
Bridge Of Dun	33	27.78	11.73	0.5	17.09	2.15	1.49	0	2.11

Broadford	33	9.01	3.62	0.46	5.58	0.76	0.52	0	0.74
Brora	33	13.77	5.56	0.73	8.59	2.09	1.45	0	2.05
Burghmuir	33	21.25	9.14	0.27	13.19	2.17	1.51	0	2.13
Burghmuir	132	11.24	5.73	0.11	8.22	12.44	6.01	0.37	8.87
Carradale	33	34.69	13.69	2.93	22.29	2.19	1.52	0	2.15
Cassley	33	9.92	4.24	0.26	6.26	1.08	0.75	0	1.06
Charleston	33	28.14	10.59	5.71	20.69	1.56	1.08	0	1.53
Charleston	132	33.36	14.28	5.52	25.71	37.87	16.3	6.12	29.17
Clayhills	33	28.34	11.01	2.66	18.24	3	2.08	0	2.94
Coupar Angus	33	30.88	12.33	2.25	19.69	2.16	1.5	0	2.12
Coupar Angus	132	18.21	8.69	0.9	13.19	17.6	8.17	1.43	12.99
Craigiebuckler	33	25.49	9.9	2.39	16.39	1.52	1.05	0	1.49
Craigiebuckler	132	34.46	14.04	5.83	25.69	42.96	17.65	6.53	31.49
Dounreay	132	23.56	9.92	3.34	17.37	26.21	11.12	4	19.71
Dounreay	275	15.8	6.51	2.09	11.29	15.29	6.28	2.29	11.17
Dudhope	33	30.52	11.7	4.54	21.08	2.87	1.99	0	2.81
Dunbeath	33	27.73	11.67	0.68	17.18	1.1	0.77	0	1.08
Dunoon	33	26.1	11.6	0.11	16.52	2.63	1.82	0	2.58
Dunvegan	11	12.11	5.13	0.47	7.72	1.08	0.75	0	1.05
Dyce	33	28.15	11	2.41	17.97	2.96	2.05	0	2.9
Elgin	33	24.3	9.65	1.48	15.13	1.82	1.26	0	1.79
Errochty	132	41.88	17.42	9.6	34.23	39.8	16.53	9.21	32.58
Fiddes	33	19.91	8.44	0.3	12.23	2.12	1.47	0	2.08
Fiddes	132	11.6	5.93	0.08	8.47	12.38	5.91	0.33	8.7
Fort Augustus	132	41.52	15.66	12.66	34.8	48.42	18.35	14.78	40.73
Fort William	132	8.02	3.88	0.42	5.92	8.12	3.73	0.99	6.26
Foyers	275	28.27	11.83	4.51	21.23	25.74	10.57	5.03	19.99
Fraserburgh	33	21.42	8.55	1.04	13.13	2.13	1.47	0	2.08
Ft Augustus	33	7.08	2.63	1.39	5.11	10.62	3.95	2.09	7.67
Ft William	33	25.62	10.99	0.51	16.06	1.93	1.34	0	1.89
Inverary	132	23.11	10.92	1.25	16.68	21.75	10.2	1.2	15.62
Inverness	33	36.29	14.76	1.68	22.55	3.05	2.11	0	2.99
Keith	33	33.26	13.14	6.67	25.25	2.81	1.95	0	2.75
Keith	132	29.98	12.27	7.37	24.72	35.46	14.33	9.33	29.61

Keith	275	45.2	18.79	5.8	32.37	39.69	16.51	6.05	29.39
Killin	33	15.54	6.03	1.6	10.14	1.1	0.76	0	1.08
Killin	132	22.44	10.66	1.42	16.5	23.14	10.59	1.97	16.95
Kinlochleven	33	12.93	5.23	0.96	8.36	0.71	0.49	0	0.7
Kintore	33	46.35	17.71	7.62	32.66	3.42	2.37	0	3.36
Kintore	132	36.86	14.58	8.93	29.55	44.83	17.67	11.6	36.59
Kintore	275	57.95	23.28	10.91	43.84	55.08	22.29	10.14	41.65
Lairg	33	23.27	9.67	0.64	14.32	0	0.78	0	1.11
Lunanhead	33	30.09	11.77	3.06	19.71	2.16	1.5	0	2.12
Lyndhurst	33	29.92	11.54	3.95	20.26	2.9	2.01	0	2.84
Macduff	33	15.88	6.97	0.28	10.14	2.1	1.45	0	2.06
Milton Of Craigie	33	31.33	11.99	4.77	21.72	3.27	2.27	0	3.2
Milton Of Craigie	132	32.58	13.9	5.73	25.39	36.44	15.63	6.16	28.27
Mybster	33	52.72	21.57	3.28	33.79	3.28	2.28	0	3.22
Nairn	33	22.91	9.33	0.77	13.96	3.02	2.09	0	2.96
Persley	33	41.25	15.66	6.93	29.07	2.18	1.51	0	2.14
Persley	132	34.04	13.79	7.13	26.63	43.3	17.48	9.58	34.3
Persley	275	35.82	14.41	6.04	26.42	32.69	13.18	6.29	24.93
Peterhead	132	29.11	10.81	9.7	24.99	38.58	14.33	13.15	33.42
Peterhead	275	58.16	22.25	18.57	50.04	69.81	26.51	23.13	60.61
Peterhead Grange	33	24.66	9.41	3	16.3	0.59	0.41	0	0.58
Port Ann	33	17.79	8.03	0.09	11.45	1.82	1.26	0	1.79
Redmoss	33	26.93	10.35	3.13	17.77	3	2.08	0	2.95
Shin	132	16.15	7.82	0.91	11.97	15.39	7.24	1.08	11.32
Sloy	132	38.61	16.8	4.77	28.53	41.43	17.99	5.18	30.63
Strichen	33	21.83	8.68	1.15	13.42	1.51	1.05	0	1.48
Tarland	33	17.25	7.07	0.62	10.61	1.51	1.05	0	1.48
Taynuilt	33	26.86	10.47	2.39	17.2	2.2	1.52	0	2.15
Tealing	132	36.86	15.42	8.35	30.16	43.05	17.94	9.53	34.9
Tealing	275	56.95	22.65	10.78	42.8	45.74	18.54	7.82	34.03
Thurso	33	31.08	12.11	3.01	20.14	2.92	2.02	0	2.86
Willowdale	33	30.83	11.7	4.78	21.34	2.99	2.07	0	2.93
Woodhill	33	28.84	10.78	5.89	21.13	4.41	3.06	0	4.32

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Table D.1.7 - SHETL Fault Levels (kA), Winter 2013/14

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
Abernethy	132	13.31	6.69	0.14	9.6	14.16	6.79	0.51	10.12
Abernthly	33	21.04	8.79	0.45	12.89	2.97	2.06	0	2.91
Alness	33	47.24	19.83	1.09	29.13	2.17	1.5	0	2.13
Arbroath	33	23.35	9.28	1.65	14.77	1.52	1.06	0	1.49
Ardmore	33	8.26	3.62	0.23	5.35	1.05	0.73	0	1.03
Beaully	33	30.19	11.59	4.58	20.98	1.5	1.04	0	1.47
Beaully	132	39.24	16.34	8.65	31.76	46.66	19.13	11.53	38.59
Beaully	275	56.95	22.38	12.21	43.85	56.93	22.44	13.39	45.13
Blackhillock	275	48.5	19.76	7.11	35.06	41.71	17.13	6.54	30.77
Boat Of Garten	33	27.06	11.61	0.73	17.15	2.14	1.49	0	2.1
Braco	33	56.72	21.74	9.81	40.55	2.18	1.51	0	2.14
Brechin	132	12.71	6.29	0.33	9.22	12.6	5.92	0.53	8.89
Bridge Of Dun	33	27.76	11.72	0.5	17.07	2.15	1.49	0	2.11

Broadford	33	9	3.62	0.46	5.58	0.76	0.52	0	0.74
Brora	33	13.93	5.63	0.72	8.68	2.12	1.47	0	2.07
Burghmuir	33	21.22	9.13	0.27	13.18	2.17	1.51	0	2.13
Burghmuir	132	11.2	5.71	0.11	8.18	12.41	5.99	0.37	8.84
Carradale	33	34.69	13.69	2.93	22.29	2.19	1.52	0	2.15
Cassley	33	9.93	4.24	0.26	6.26	1.07	0.74	0	1.05
Charleston	33	28.08	10.57	5.67	20.62	1.56	1.08	0	1.53
Charleston	132	32.9	14.1	5.44	25.38	37.48	16.14	6.06	28.89
Clayhills	33	28.27	10.98	2.66	18.18	2.99	2.07	0	2.93
Coupar Angus	33	30.83	12.31	2.25	19.66	2.16	1.5	0	2.12
Coupar Angus	132	18.11	8.64	0.9	13.12	17.54	8.14	1.44	12.94
Craigiebuckler	33	25.43	9.87	2.39	16.34	1.51	1.05	0	1.48
Craigiebuckler	132	34.46	14.01	5.83	25.64	42.94	17.61	6.51	31.41
Dounreay	132	27.81	11.55	4.39	20.72	31.32	13.09	5.31	23.82
Dounreay	275	19.33	7.95	2.51	13.76	20.66	8.65	2.76	14.99
Dudhope	33	30.44	11.68	4.51	21.02	2.87	1.99	0	2.81
Dunbeath	33	27.97	11.78	0.67	17.33	1.11	0.77	0	1.09
Dunoon	33	26.02	11.56	0.11	16.47	2.62	1.82	0	2.57
Dunvegan	11	12.11	5.13	0.47	7.71	1.08	0.75	0	1.05
Dyce	33	28.07	10.97	2.4	17.91	2.95	2.04	0	2.89
Elgin	33	24.23	9.62	1.48	15.09	1.81	1.26	0	1.78
Errochty	132	41.74	17.34	9.6	34.13	39.68	16.47	9.2	32.49
Fiddes	33	19.87	8.42	0.29	12.21	2.12	1.47	0	2.08
Fiddes	132	11.58	5.92	0.08	8.45	12.36	5.9	0.33	8.68
Fort Augustus	132	41.98	15.79	12.95	35.27	48.82	18.45	15.03	41.13
Fort William	132	8.02	3.89	0.42	5.91	8.11	3.72	0.99	6.26
Foyers	275	35.04	14.43	5.4	25.81	30.16	12.3	5.82	23.22
Fraserburgh	33	21.42	8.55	1.04	13.13	2.13	1.47	0	2.09
Ft Augustus	33	7.07	2.63	1.39	5.11	10.6	3.94	2.09	7.66
Ft William	33	25.61	10.99	0.51	16.05	1.92	1.33	0	1.89
Inverary	132	23.06	10.89	1.24	16.65	21.71	10.17	1.2	15.59
Inverness	33	36.44	14.83	1.67	22.64	3.05	2.11	0	2.99
Keith	33	33.13	13.09	6.79	25.3	2.8	1.94	0	2.74
Keith	132	29.96	12.25	7.71	25.03	35.41	14.3	9.67	29.9

Keith	275	46.32	18.84	6.79	33.43	40.32	16.5	6.61	29.95
Killin	33	15.51	6.02	1.6	10.12	1.1	0.76	0	1.08
Killin	132	22.4	10.64	1.42	16.46	23.1	10.57	1.97	16.92
Kinlochleven	33	12.92	5.23	0.96	8.35	0.71	0.49	0	0.69
Kintore	33	46.23	17.65	7.64	32.59	3.41	2.37	0	3.35
Kintore	132	36.87	14.54	8.97	29.54	44.8	17.62	11.63	36.56
Kintore	275	58.53	23.28	11.07	44	55.37	22.25	10.18	41.65
Lairg	33	23.4	9.72	0.64	14.39	0	0.78	0	1.11
Lunanhead	33	30.02	11.75	3.05	19.66	2.16	1.5	0	2.12
Lyndhurst	33	29.85	11.52	3.92	20.21	2.9	2.01	0	2.84
Macduff	33	15.83	6.95	0.28	10.11	2.09	1.45	0	2.05
Milton Of Craigie	33	31.26	11.96	4.74	21.66	3.27	2.27	0	3.21
Milton Of Craigie	132	32.13	13.73	5.64	25.06	36.05	15.48	6.1	27.99
Mybster	33	54.16	22.11	3.51	34.78	3.29	2.28	0	3.23
Nairn	33	22.9	9.33	0.77	13.96	3.01	2.09	0	2.95
Persley	33	41.16	15.61	6.93	29.01	2.18	1.51	0	2.13
Persley	132	34.04	13.75	7.14	26.59	43.28	17.44	9.58	34.24
Persley	275	35.97	14.4	6.03	26.39	32.74	13.16	6.28	24.9
Peterhead	132	29.17	10.82	9.7	25	38.65	14.34	13.16	33.43
Peterhead	275	58.63	22.3	18.6	50.13	70.26	26.55	23.17	60.72
Peterhead Grange	33	24.67	9.41	3	16.3	0.59	0.41	0	0.58
Port Ann	33	17.75	8.01	0.09	11.42	1.82	1.26	0	1.78
Redmoss	33	26.87	10.32	3.13	17.72	2.99	2.08	0	2.94
Shin	132	16.82	8.17	0.9	12.45	15.9	7.5	1.08	11.68
Sloy	132	38.53	16.77	4.76	28.47	41.34	17.95	5.17	30.56
Strichen	33	21.83	8.68	1.15	13.42	1.51	1.05	0	1.48
Tarland	33	17.21	7.04	0.62	10.58	1.5	1.04	0	1.48
Taynuilt	33	26.84	10.46	2.39	17.19	2.2	1.52	0	2.15
Tealing	132	36.25	15.2	8.16	29.64	42.42	17.71	9.34	34.38
Tealing	275	56.79	22.56	10.7	42.6	45.6	18.46	7.81	33.92
Thurso	33	47.83	18.67	5.14	31.55	2.18	1.51	0	2.14
Willowdale	33	30.75	11.67	4.78	21.28	2.98	2.06	0	2.92
Woodhill	33	28.77	10.75	5.89	21.09	4.4	3.05	0	4.31

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Table D.2.1 - SPT Fault Levels (kA), Winter 2007/08

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
AUCH2-	275	9.54	3.87	1	6.46	7.02	3	0.49	4.72
AYR-3-	33	43.41	15.43	9.13	30.96	5.82	4.03	0	5.69
BAGA3-	33	27.72	10.05	2.75	16.96	4.36	3.01	0	4.26
BAIN1-	132	30.46	11.95	2.89	19.79	31.48	12.87	2.99	21.19
BAIN3-	33	34.67	12.86	4.15	22.33	2.99	2.07	0	2.93
BERW1Q	132	10.79	5.01	0.23	7.32	10.56	4.9	0.3	7.24
BERW1R	132	10.88	5.04	0.24	7.37	11.01	5.09	0.29	7.49
BERW3-	33	24.28	9.81	1.07	14.94	3.79	2.61	0	3.7
BLAK3A	33	29.81	7.94	5.28	16.5	2.25	1.55	0	2.2
BLAK3B	33	26.57	7.42	4.86	15.35	2.25	1.55	0	2.19
BONN1-	132	39.83	15.05	6.05	27.33	48.16	18.89	7.7	34.41
BONN2-	275	54.73	20.23	10.18	38.8	44.35	17.27	8.06	32.48
BONN3-	33	40.89	13.68	4.6	23.95	3.04	2.1	0	2.97

BPGR3-	33	103.92	40.64	19.05	76.53	63.14	26.82	2.02	39.94
BRAP1-	132	29.24	11.67	2.84	19.35	32.34	13.38	3	21.92
BRAP3-	33	29.12	10.65	4.62	19.68	4.38	3.03	0	4.29
BROX3-	33	25.76	9.19	3.1	16.1	4.29	2.97	0	4.2
BUSB2-	275	56.84	21.45	8.97	39.3	50.75	20.19	7.14	35.69
CAFA5-	11	21.92	8.44	2.4	14.34	11.63	4.42	2.06	8.31
CATY0J	25	9.97	3.67	2.79	7.98	0.33	0.37	0	0.52
CATY0K	25	9.97	3.67	2.79	7.98	0.33	0.37	0	0.52
CATY1Q	132	20.34	7.78	2.45	13.45	23.55	9.35	2.3	15.52
CATY1R	132	20.34	7.78	2.45	13.45	23.56	9.35	2.29	15.52
CATY3-	33	28.12	10.04	4.21	18.4	2.97	2.06	0	2.91
CHAP1-	132	29.51	12.11	0.93	18.05	28.85	12.18	1.64	18.87
CHAP3-	33	43.07	15.41	3.09	24.88	4.54	3.14	0	4.44
CHAS3-	33	49.44	17.4	10.26	34.87	5.9	4.08	0	5.78
CLYM2-	275	79.66	28.83	16.62	57.39	75.79	29.06	14.69	55.79
CLYM3-	33	48.75	17.23	11.29	35.65	5.91	4.09	0	5.79
COAT3-	33	40.88	14.2	11.74	31.82	5.83	4.04	0	5.71
COCK2-	275	75.77	26.88	19.53	57.55	82.3	30.24	22.52	65.29
COCK3-	33	49.36	17.76	11.58	36.69	5.96	4.13	0	5.85
COYL1-	132	28.42	10.94	5.06	20.54	34.03	13.26	6.55	25.31
COYL2-	275	29.83	11.1	6.5	22.19	30.04	11.58	6.33	22.71
COYL3-	33	37.48	13.39	4.44	23.37	3.03	2.09	0	2.96
CROO3J	33	34.16	12.9	3.37	21.61	3.01	2.09	0	2.95
CROO3K	33	31.85	12	3.48	20.46	3	2.08	0	2.94
CUMB3-	33	30.75	11.4	3.42	19.54	4.4	3.05	0	4.31
CUPA3-	33	29.34	11.64	0.34	16.8	2.95	2.04	0	2.89
CURR1-	132	25.52	8.96	7.7	20.37	32.67	11.94	9.45	26.34
CURR2-	275	67.44	24.75	13.04	48.04	62.13	24.17	11.26	45.44
CURR5-	11	33.55	12.51	5.74	23.44	6.34	3.48	0	4.92
DALL2-	275	30.03	11.05	5.83	21.45	26.57	10.24	4.79	19.26
DALM1-	132	24.23	8.72	6.84	19.18	30.86	11.32	8.83	24.84
DEVM0J	25	8.24	2.99	2.56	6.79	0.09	0.1	0	0.14
DEVM0K	25	8.24	2.99	2.56	6.79	0.09	0.1	0	0.14
DEVM1-	132	31.26	11.93	7.97	24.85	37.77	14.64	9.67	30.37
DEVM3-	33	34.8	13.07	4.71	23.2	2.99	2.07	0	2.93

DEVM4-	400	36.81	13.45	8.26	27.28	32.05	12.3	6.59	23.99
DEVO1-	132	21.94	9.39	0.69	13.96	21.48	9.31	1.25	14.42
DEVO3-	33	30.68	11.57	2.33	18.7	4.38	3.03	0	4.28
DEWP3-	33	50.09	17.45	10.89	35.57	5.9	4.08	0	5.78
DRCR3-	33	23.98	9.27	2.21	15.32	4.39	3.03	0	4.29
DRUM3-	33	49.33	17.37	10.91	35.47	5.92	4.1	0	5.8
DUMF1-	132	19.12	7.91	0.38	11.56	22.72	9.46	0.66	14.05
DUMF3-	33	43.73	15.88	1.4	23.85	4.5	3.11	0	4.39
DUMF3I	33	18.05	6.91	1.58	11.36	1.52	1.05	0	1.49
DUMF5-	11	33.77	13.2	1.64	20.3	6.88	3.47	0	4.91
DUNB3-	33	34.33	11.11	2.96	18.68	3.01	2.08	0	2.94
DUNF3-	33	30.07	11.14	3.71	19.47	4.39	3.04	0	4.3
EAST5-	11	21.85	8.38	2.58	14.43	11.59	4.4	2.11	8.33
ECCF0J	25	15.73	5.92	2.35	10.72	0.15	0.21	0	0.29
ECCF0K	25	19.11	7.24	2.4	12.65	0.15	0.21	0	0.29
ECCF1J	132	18.29	8.36	0.09	11.91	15.8	7.33	0.14	10.51
ECCF1K	132	18.26	8.35	0.09	11.89	15.79	7.33	0.14	10.51
ECCL1-	132	29.16	10.98	8.96	24.48	37.34	14.23	11.6	31.72
ECCL3-	33	33.52	12.24	5.45	22.76	4.37	3.02	0	4.27
ECCL4-	400	53.19	19.23	12.53	39.72	47.23	18.09	9.46	35.04
EERH2-	275	69.93	25.52	14.16	50.25	62.96	24.34	11.31	45.73
EERH3-	33	52.17	18.2	12.86	38.61	5.94	4.12	0	5.82
EKIL3-	33	51.84	18.29	14.05	39.91	5.89	4.08	0	5.77
EKIS2-	275	69.87	25.91	12.62	49.26	67.06	26.32	10.34	47.56
EKIS3-	33	38.73	13.88	10.12	29.75	5.88	4.07	0	5.76
ELDE3-	33	37.24	13.88	4.87	24.5	3.03	2.1	0	2.97
ELVA0J	25	17.68	6.44	5.05	14.15	0.13	0.18	0	0.25
ELVA0K	25	17.68	6.44	5.05	14.15	0.13	0.18	0	0.25
ELVA2-	275	27.58	10.84	3.56	18.89	20.62	8.52	2.01	14.06
ERSK3-	33	22.59	8.66	1.65	13.91	1.53	1.06	0	1.5
FIFE1-	132	28.59	11.51	5.22	21.51	32.46	13.3	5.81	24.61
FIFE1B	132	34.36	13.47	4.91	23.96	38.65	15.85	5.1	27.51
GALA1-	132	18.77	8.44	0.11	12.05	19.29	8.74	0.33	12.69
GALA3-	33	25.7	9.48	0.83	14.24	2.22	1.54	0	2.18
GIFF3-	33	50.06	17.8	9.94	35.11	5.94	4.11	0	5.82

GLLE1-	132	11.86	5.25	0.52	7.94	12.64	5.68	0.58	8.61
GLLE5-	11	41.62	12.12	8.18	25.32	33.89	8.89	7.35	19.92
GLLU3-	33	18.49	7.66	0.15	10.98	3.43	2.35	0	3.33
GLNI1-	132	42.36	16.42	6.17	29.39	50.02	20.18	6.35	34.89
GLNI3-	33	29.69	10.86	6.15	21.51	4.39	3.04	0	4.31
GLRO2-	275	43.26	16.64	5.75	29.28	36.9	14.77	5.26	26.14
GLRO3-	33	37.96	13.48	8.96	28.03	5.84	4.05	0	5.72
GORG3-	33	26.69	9.6	5.05	18.63	2.99	2.07	0	2.93
GOVA3-	33	35.06	13.18	3.46	22.09	3.02	2.09	0	2.95
GRMO2-	275	50.11	18.99	9.52	36.37	44.46	17.43	8.69	33.34
GRMO3A	33	38.55	13.87	9.85	29.46	5.68	3.93	0	5.56
GRMO3C	33	38.63	13.89	9.99	29.63	5.69	3.94	0	5.57
GRNA1-	132	37.76	14.61	5.89	26.54	41.9	16.41	7.75	30.95
GRNA2-	275	40.98	15.52	6.81	28.76	37.85	14.92	6.56	27.66
HAGR3-	33	34.4	12.98	2.76	21.12	3	2.08	0	2.94
HAWI1-	132	12.17	5.97	0.01	8.46	13.05	6.17	0.08	8.8
HAWI3-	33	21.82	8.98	0.23	12.93	2.94	2.04	0	2.88
HELE1-	132	16.28	7.32	0.03	10.38	16.73	7.57	0.18	10.87
HELE3-	33	24.46	9.69	0.61	14.31	2.25	1.56	0	2.21
HUER1-	132	26.48	8.75	8.64	21.01	33.42	11.65	10.48	26.95
HUER4-	400	48.53	17.07	13.02	37.17	52.88	19.23	15.24	42.44
HUNF3-	33	36.82	13.25	6.57	25.32	3.01	2.09	0	2.95
INKE3-	33	29.23	10.95	2.11	17.59	4.37	3.03	0	4.28
INKI4-	400	41.48	15.05	9.48	30.77	33.42	12.97	5.94	24.28
INWI0J	25	10.74	3.88	3.31	8.8	0.13	0.17	0	0.24
INWI0K	25	10.74	3.88	3.31	8.8	0.13	0.17	0	0.24
INWI1Q	132	26.35	9.3	6.58	19.73	31.93	11.5	7.67	23.93
INWI1R	132	26.35	9.3	6.58	19.73	31.93	11.5	7.67	23.93
JOHN3-	33	34.55	12.75	4.32	22.36	3.01	2.08	0	2.95
KAIM2-	275	72.46	26.29	15.05	52.22	73.77	28.12	14.55	54.33
KAIM3-	33	52.03	17.88	11	36.29	5.92	4.1	0	5.79
KEOO1-	132	12.23	5.46	0.45	8.18	12.32	5.59	0.5	8.4
KEOO5-	11	36.21	11.43	5.74	21.9	27.9	7.99	4.99	16.29
KIER3-	33	34.15	12.04	5.36	22.39	4.41	3.05	0	4.31
KILB3-	33	32.82	12.03	5.25	22.26	3.02	2.09	0	2.95

KILB5-	11	28.52	10.79	4.08	19.35	9.73	2.34	0	3.32
KILS2-	275	34.68	12.66	8.95	26.85	39.25	14.67	10.39	31.14
KILS3-	33	36.65	13.1	9.48	28.01	5.84	4.04	0	5.72
KILS4-	400	38.45	14.27	7.28	27.46	37.69	14.46	7.76	28.21
KILT3-	33	48.67	17.02	9.97	34.04	5.87	4.06	0	5.74
KILW3-	33	25.49	8.91	4.48	17.08	4.33	2.99	0	4.23
KINC2-	275	66.27	24.22	17.06	51.31	60.09	22.82	15.16	47.43
LAMB2-	275	62.28	22.95	10.58	43.03	52.84	20.59	8.85	37.97
LEVE3-	33	31.22	12.25	0.93	18.25	2.98	2.06	0	2.92
LING3-	33	25.59	9.06	2.83	15.64	4.29	2.96	0	4.19
LINM2-	275	36.34	14.1	4.92	24.86	29.1	11.77	4.27	20.91
LINM3-	33	51.76	18.39	8.47	34.48	20.13	5.44	0.34	8.03
LOAN2-	275	106.18	36.71	29.08	80.99	110.21	39.84	31.94	88.28
MARM0J	25	9.54	3.61	1.61	6.71	0.15	0.21	0	0.29
MARM0K	25	9.55	3.61	1.63	6.73	0.15	0.21	0	0.29
MAYB1-	132	18.32	7.69	0.45	11.33	18.51	7.95	0.76	12
MAYB3-	33	20.69	8	1.16	12.48	1.53	1.06	0	1.49
MEAD1-	132	15.07	5.53	0.97	8.78	16.23	6.29	1.83	10.72
MOSH5J	11	61.05	23.64	5.63	39.07	5.3	2.68	0	3.79
MOSH5K	11	61.08	23.65	5.66	39.1	5.3	2.68	0	3.79
MOSM1-	132	42.15	16.29	6.77	29.8	51.62	20.53	8.5	37.54
MOSM2Q	275	54.1	20.47	8.14	37.09	47.12	18.62	7.68	34.01
MOSM3Q	33	15.7	6.04	1.83	10.38	1.16	0.8	0	1.14
MOSM3R	33	15.7	6.04	1.83	10.38	1.16	0.8	0	1.14
NEAR2Q	275	54.46	20.52	8.76	37.78	48.88	19.32	7.66	34.99
NEAR3-	33	52.29	18.57	10.36	36.62	5.95	4.12	0	5.82
NEIL1-	132	45.04	16.88	10.31	34.18	55.77	21.59	12.72	43.26
NEIL2-	275	67.94	25.08	12.72	48.19	61.55	23.81	12.58	46.25
NETS1-	132	8.1	3.76	0.1	5.41	8.85	4.1	0.14	5.94
NETS3-	33	9.91	4.34	0.25	6.38	2.16	1.45	0	2.05
PAIS3-	33	36.44	13.38	5.45	24.37	3.01	2.08	0	2.95
PART3-	33	35.07	12.89	3.64	21.87	3.01	2.08	0	2.94
POOB0J	25	18.56	6.75	5.61	15.16	0.24	0.3	0	0.42
POOB0K	25	18.56	6.75	5.61	15.16	0.24	0.3	0	0.42
POOB2Q	275	49.17	18.53	8.46	34.67	44.02	17.55	6.48	31.3

POOB2R	275	49.17	18.53	8.46	34.67	44.02	17.55	6.46	31.28
POOB3-	33	52.51	18.27	13.94	39.78	5.86	4.06	0	5.74
PORD3-	33	51.06	17.9	12.17	37.48	5.94	4.11	0	5.81
RAVE3-	33	37.64	13.72	9.52	28.92	5.89	4.08	0	5.77
REDH1-	132	29.83	12.72	0.73	18.72	32.53	14.29	1.07	21.27
REDH3-	33	35.07	13.43	2.2	21.19	2.99	2.07	0	2.93
SAC00J	25	10.27	3.75	2.85	8.16	0.34	0.38	0	0.53
SAC00K	25	10.27	3.75	2.82	8.13	0.34	0.38	0	0.54
SAC01Q	132	17.83	6.31	2.49	11.41	20.09	7.56	2.54	13.23
SAC01R	132	17.72	6.32	2.29	11.23	20.15	7.59	2.44	13.17
SAC03J	33	33.67	10.8	4.86	20.13	4.19	2.84	0	4.02
SAC03K	33	33.9	11.62	4.14	20.58	4.2	2.87	0	4.06
SANX0J	25	16.46	6.06	4.4	12.97	0.44	0.45	0	0.63
SANX0K	25	16.46	6.06	4.4	12.97	0.45	0.45	0	0.64
SANX1Q	132	21.48	8.14	3	14.51	24.19	10.12	1.97	16.27
SANX1R	132	21.49	8.14	3	14.51	24.2	10.12	1.98	16.29
SANX3-	33	30.56	11.26	4.72	20.64	3	2.08	0	2.94
SHRU3-	33	46	16.4	10.16	33.36	5.89	4.08	0	5.77
SIGH3-	33	50.67	17.66	10.65	35.63	5.88	4.07	0	5.76
SMEA2-	275	72.63	26.19	16.33	53.36	75.66	28.56	15.99	56.38
SPAV3-	33	27.45	10.15	3.6	17.96	4.34	3	0	4.24
STHA2-	275	87.16	31.39	18.55	62.95	88.78	33.81	17.86	65.67
STHA3-	33	47.23	16.83	11.34	35.14	5.94	4.12	0	5.82
STHA4-	400	51.49	18.78	11.35	37.91	43.42	16.64	9.58	33.11
STIR3-	33	30.98	10.91	4.78	20.21	4.34	3	0	4.25
STLE0J	25	10.12	3.76	2.01	7.33	0.26	0.32	0	0.45
STLE0K	25	10.12	3.76	2.01	7.33	0.26	0.32	0	0.45
STLE1-	132	19.76	8.67	0.07	12.32	20.18	9	0.43	13.16
STLE3S	33	29.12	10.78	1.24	16.48	2.96	2.05	0	2.89
TELR3-	33	30.51	11.36	3.05	19.11	3	2.08	0	2.94
TONG1-	132	10.37	4.6	0.46	6.96	13.83	6.04	0.76	9.31
TONG5-	11	74.76	26.7	6.41	44.17	48.53	14.5	6.89	27.39
TORN1-	132	26.99	9.42	7.87	21.2	33.17	11.75	10.07	26.69
TORN4-	400	53.77	19.26	14.27	41.51	57.3	21.05	16.59	46.35
WFIE1A	132	31.78	12.88	5.78	24	35.97	14.73	6.97	27.8

WFIE1B	132	39.79	15.65	5.61	27.74	44.86	18.28	6.82	32.67
WFIE2-	275	59.1	22.17	9.25	40.6	54.83	21.41	9.37	39.65
WFIE3-	33	41.59	15.57	5.32	27.34	3.02	2.09	0	2.96
WGEO3-	33	50.44	17.93	10.07	35.43	5.94	4.12	0	5.82
WHHO3-	33	46.76	16.6	10.68	34.16	5.9	4.09	0	5.78
WHTL3-	33	24.54	9.67	0.74	14.41	2.23	1.54	0	2.18
WISH0J	25	20.75	7.51	6.34	16.96	0.07	0.07	0	0.1
WISH0K	25	20.77	7.52	6.34	16.98	0.12	0.15	0	0.21
WISH1-	132	15.98	5.2	4.59	11.94	19.46	6.5	5.69	14.88
WISH2-	275	66.2	24.59	11.06	45.84	63.51	24.8	10.68	45.75
WISH3-	33	50.05	17.72	11.04	36.1	5.93	4.11	0	5.81
WIYH1-	132	43.7	15.3	9.52	31.15	53.75	19.58	12.22	39.9
WIYH2-	275	67.6	24.56	12.65	47.39	63.45	24.15	13.27	47.42
WLEE2-	275	61.16	23.53	8.14	41.42	51.62	22.92	9.52	41.93
WLEE3A	33	57.79	21.95	8.38	39.42	3.01	2.09	0	2.95
WLEE3B	33	57.79	21.95	8.38	39.42	3.01	2.09	0	2.95
WLEE3C	33	57.79	21.95	8.38	39.42	3.01	2.09	0	2.95

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Table D.2.2 - SPT Fault Levels (kA), Winter 2008/09

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
AUCH2-	275	10.55	4.26	1.21	7.23	8.94	3.72	1.04	6.3
AYR-3-	33	43.95	15.64	9.28	31.39	5.88	4.07	0	5.76
BAGA3-	33	27.72	10.05	2.73	16.93	4.36	3.01	0	4.26
BAIN1-	132	30.19	11.85	2.84	19.6	31.31	12.8	2.96	21.06
BAIN3-	33	34.62	12.84	4.11	22.27	2.99	2.07	0	2.93
BERW1Q	132	11.55	5.29	0.36	7.85	11.52	5.29	0.38	7.86
BERW1R	132	11.55	5.3	0.36	7.85	11.53	5.29	0.38	7.86
BERW3-	33	33.5	13.64	1.29	20.59	4.58	3.17	0	4.48
BLAK3A	33	29.79	7.93	5.27	16.49	2.25	1.55	0	2.19
BLAK3B	33	26.55	7.41	4.86	15.34	2.25	1.55	0	2.19
BONN1-	132	39.37	14.89	5.89	26.94	47.75	18.75	7.55	34.07
BONN2-	275	54.52	20.15	10.17	38.66	45.37	17.62	8.19	33.11
BONN3-	33	40.86	13.66	4.55	23.88	3.04	2.1	0	2.97

BPGR3-	33	104.04	40.7	19.08	76.64	63.23	26.86	2.02	40
BRAP1-	132	29.14	11.64	2.86	19.32	32	13.26	3.02	21.77
BRAP3-	33	29.12	10.65	4.62	19.68	4.39	3.04	0	4.3
BROX3-	33	25.79	9.19	3.09	16.1	4.3	2.97	0	4.2
BUSB2-	275	55.5	20.91	9.22	38.8	49.79	19.8	7.11	35.11
CAFA5-	11	21.96	8.47	2.4	14.39	11.66	4.44	2.06	8.34
CATY0J	25	9.98	3.68	2.79	7.99	0.33	0.37	0	0.52
CATY0K	25	9.98	3.68	2.79	7.99	0.33	0.37	0	0.52
CATY1Q	132	20.21	7.72	2.46	13.38	23.21	9.24	2.2	15.26
CATY1R	132	20.21	7.72	2.46	13.38	23.22	9.24	2.2	15.27
CATY3-	33	28.11	10.03	4.21	18.39	2.98	2.06	0	2.92
CHAP1-	132	27.95	11.1	0.96	16.66	29	11.96	1.53	18.45
CHAP3-	33	42.56	15.12	3.13	24.51	4.56	3.16	0	4.46
CHAS3-	33	49.54	17.43	10.26	34.9	5.91	4.09	0	5.79
CLYM2-	275	79.77	28.93	16.73	57.64	81.19	30.94	16.07	59.82
CLYM3-	33	48.84	17.26	11.31	35.72	5.91	4.1	0	5.8
COAL1-	132	21.89	7.91	7.07	18.25	28.02	10.16	9.29	23.65
COAL4-	400	40.76	15.19	7.56	29.04	32.65	12.87	5.99	24.2
COAT3-	33	41.31	14.34	11.81	32.09	5.9	4.09	0	5.78
COCK2-	275	76.44	27.21	19.53	58.02	84.69	31.14	22.81	66.84
COCK3-	33	49.44	17.79	11.55	36.71	5.97	4.14	0	5.85
COYL1-	132	28.56	11	5.13	20.69	34.55	13.45	6.73	25.76
COYL2-	275	31.31	11.64	6.9	23.36	33.71	12.9	7.33	25.57
COYL3-	33	37.56	13.44	4.47	23.47	3.04	2.1	0	2.97
CROO3J	33	34.12	12.89	3.38	21.6	3.01	2.09	0	2.95
CROO3K	33	31.81	12	3.49	20.45	3	2.08	0	2.94
CUMB3-	33	30.73	11.39	3.39	19.5	4.41	3.05	0	4.31
CUPA3-	33	29.36	11.64	0.34	16.8	2.95	2.04	0	2.89
CURR1-	132	25.47	8.94	7.67	20.31	32.79	11.97	9.49	26.42
CURR2-	275	68.26	25.1	13.26	48.76	64.5	25.05	11.64	47.07
CURR5-	11	33.59	12.52	5.75	23.46	6.35	3.48	0	4.92
DALL2-	275	31.77	11.52	6.21	22.51	30.32	11.54	5.31	21.63
DALM1-	132	24.04	8.66	6.82	19.06	30.69	11.25	8.84	24.76
DEVM0J	25	8.26	2.99	2.57	6.8	0.09	0.1	0	0.14
DEVM0K	25	8.26	2.99	2.57	6.8	0.09	0.1	0	0.14

DEVM1-	132	31.27	11.94	7.96	24.84	37.89	14.68	9.7	30.46
DEVM3-	33	34.85	13.09	4.72	23.22	3	2.08	0	2.94
DEVM4-	400	37.22	13.6	8.32	27.56	32.94	12.65	6.69	24.58
DEVO1-	132	21.88	9.36	0.69	13.92	21.66	9.4	1.24	14.53
DEVO3-	33	30.7	11.57	2.32	18.68	4.38	3.03	0	4.29
DEWP3-	33	50.22	17.49	10.91	35.65	5.9	4.09	0	5.78
DRCR3-	33	23.96	9.26	2.19	15.29	4.39	3.04	0	4.29
DRUM3-	33	49.1	17.26	10.93	35.33	5.93	4.11	0	5.81
DUMF1-	132	18.61	7.55	0.39	11.06	22.26	9.14	0.68	13.61
DUMF3-	33	43.13	15.5	1.42	23.34	4.5	3.1	0	4.39
DUMF3I	33	17.94	6.84	1.59	11.26	1.52	1.05	0	1.49
DUMF5-	11	33.68	13.12	1.64	20.2	6.88	3.47	0	4.91
DUNB3-	33	34.34	11.11	2.95	18.67	3.01	2.08	0	2.94
DUNF3-	33	30.08	11.14	3.72	19.47	4.39	3.04	0	4.3
EAST5-	11	21.9	8.41	2.58	14.47	11.62	4.42	2.12	8.36
ECCF0J	25	15.64	5.86	2.36	10.65	0.15	0.21	0	0.29
ECCF0K	25	18.98	7.16	2.41	12.54	0.15	0.21	0	0.29
ECCF1J	132	17.67	7.87	0.09	11.23	15.85	7.26	0.13	10.39
ECCF1K	132	17.65	7.87	0.09	11.22	15.83	7.26	0.13	10.39
ECCL1-	132	29.81	11.12	8.07	23.8	38.11	14.37	10.64	30.95
ECCL3-	33	34.06	12.5	5.27	22.95	4.62	3.19	0	4.5
ECCL4-	400	53.31	19.3	12.65	39.94	48.74	18.6	9.96	36.27
EERH2-	275	70.12	25.64	14.45	50.72	64.33	24.86	11.52	46.68
EERH3-	33	52.28	18.24	12.86	38.65	5.95	4.12	0	5.83
EKIL3-	33	51.91	18.31	14.07	39.97	5.9	4.09	0	5.78
EKIS2-	275	69.39	25.73	12.72	49.11	67.38	26.43	10.26	47.63
EKIS3-	33	45.18	16.68	9.82	33.41	5.98	4.15	0	5.86
ELDE3-	33	37.18	13.87	4.87	24.48	3.03	2.1	0	2.97
ELVA0J	25	18.71	6.63	8.79	18.17	0.13	0.18	0	0.26
ELVA0K	25	18.71	6.63	8.79	18.17	0.13	0.18	0	0.26
ELVA4-	400	35.72	13.44	5.98	24.98	25.94	10.44	3.56	18.32
ERSK3-	33	22.59	8.67	1.65	13.91	1.53	1.06	0	1.5
FIFE1-	132	28.48	11.47	5.2	21.42	32.23	13.21	5.82	24.49
FIFE1B	132	34.23	13.42	4.9	23.88	38.49	15.79	5.1	27.44
GALA1-	132	19.28	8.2	0.36	11.96	20.49	8.91	0.63	13.23

GALA3-	33	25.94	9.39	1.32	14.61	2.23	1.54	0	2.18
GIFF3-	33	50.02	17.77	9.97	35.1	5.95	4.12	0	5.83
GLLE1-	132	11.86	5.25	0.52	7.94	12.69	5.7	0.58	8.64
GLLE5-	11	41.72	12.16	8.2	25.4	33.98	8.92	7.37	19.98
GLLU3-	33	18.47	7.65	0.15	10.97	3.44	2.36	0	3.34
GLNI1-	132	42.12	16.33	6.16	29.25	50.33	20.27	6.61	35.27
GLNI3-	33	29.69	10.86	6.14	21.5	4.4	3.05	0	4.31
GLRO2-	275	43.99	16.96	5.91	29.89	37.2	14.9	5.34	26.41
GLRO3-	33	47.41	17.2	9.12	33.45	5.92	4.1	0	5.8
GORG3-	33	26.69	9.6	5.05	18.62	2.99	2.07	0	2.93
GOVA3-	33	35	13.16	3.45	22.06	3.01	2.09	0	2.95
GRMO2-	275	50.24	19.09	9.46	36.46	45.8	17.96	8.77	34.17
GRMO3A	33	38.61	13.89	9.82	29.46	5.69	3.94	0	5.57
GRMO3C	33	38.69	13.91	9.97	29.65	5.69	3.94	0	5.57
GRNA1-	132	34.43	12.85	5.85	24.03	39.7	15.14	7.66	29.07
GRNA2-	275	40.4	15.21	6.82	28.33	38.4	15.06	6.65	27.95
HAGR3-	33	34.39	12.98	2.77	21.12	3	2.08	0	2.94
HAWI1-	132	9.24	4.52	0.01	6.4	10.42	4.93	0.06	7.03
HAWI3-	33	19.24	8.04	0.13	11.51	2.92	2.02	0	2.86
HELE1-	132	16.95	7.88	0.03	11.18	17.26	7.97	0.16	11.43
HELE3-	33	24.81	9.92	0.6	14.63	2.26	1.56	0	2.21
HUER1-	132	26.48	8.75	8.67	21.05	33.57	11.69	10.54	27.07
HUER4-	400	49.22	17.3	13.29	37.76	53.61	19.5	15.42	43
HUNF3-	33	36.85	13.26	6.6	25.36	3.02	2.09	0	2.96
INKE3-	33	29.25	10.95	2.1	17.58	4.38	3.03	0	4.29
INKI4-	400	42.09	15.27	9.57	31.16	34.94	13.55	6.13	25.29
INVR2-	275	31.48	11.62	5.19	21.62	27.09	10.71	3.12	18.26
INWI0J	25	10.75	3.89	3.31	8.81	0.13	0.17	0	0.24
INWI0K	25	10.75	3.89	3.31	8.81	0.13	0.17	0	0.24
INWI1Q	132	26.34	9.3	6.57	19.71	31.94	11.5	7.66	23.92
INWI1R	132	26.34	9.3	6.57	19.71	31.94	11.5	7.66	23.92
JOHN3-	33	34.51	12.74	4.32	22.34	3.01	2.09	0	2.95
KAIM2-	275	73.46	26.71	14.86	52.63	76.36	29.09	14.75	55.88
KAIM3-	33	52.16	17.92	11.01	36.36	5.93	4.1	0	5.8
KEOO1-	132	12.23	5.47	0.45	8.18	12.34	5.6	0.5	8.43

KEOO5-	11	36.31	11.47	5.76	21.98	27.98	8.02	5	16.35
KIER3-	33	34.23	12.16	5.34	22.54	4.42	3.06	0	4.32
KILB3-	33	32.88	12.16	5.23	22.42	3.02	2.09	0	2.96
KILB5-	11	28.57	10.83	4.08	19.41	9.75	2.35	0	3.32
KILS2-	275	36.12	13.19	9.34	27.99	41.23	15.42	10.92	32.73
KILS3-	33	37.03	13.25	9.61	28.34	5.89	4.08	0	5.77
KILS4-	400	39.58	14.65	7.58	28.31	39.11	14.98	8.15	29.34
KILT3-	33	49.21	17.21	10.12	34.46	5.92	4.1	0	5.8
KILW3-	33	25.51	8.92	4.48	17.09	4.34	3	0	4.24
KINC2-	275	66.64	24.39	17.27	51.76	61.27	23.3	15.25	48.21
LAMB2-	275	59.96	21.94	10.89	41.92	56.63	21.84	9.96	40.85
LEVE3-	33	31.23	12.25	0.93	18.26	2.98	2.07	0	2.92
LING3-	33	25.62	9.06	2.82	15.64	4.29	2.97	0	4.19
LINM2-	275	36.2	14.05	4.89	24.76	29.76	12.02	4.29	21.29
LINM3-	33	51.8	18.39	8.46	34.48	21.14	6.6	0.32	9.64
LOAN2-	275	107.34	37.15	28.62	81.16	113.41	40.99	31.67	89.64
MARM0J	25	9.65	3.63	1.78	6.92	0.15	0.21	0	0.29
MARM0K	25	9.65	3.63	1.78	6.92	0.15	0.21	0	0.29
MAYB1-	132	18.39	7.71	0.45	11.36	19.3	8.3	0.7	12.44
MAYB3-	33	20.72	8.04	1.16	12.53	1.53	1.06	0	1.5
MEAD1-	132	15.07	5.53	0.97	8.78	16.24	6.29	1.83	10.73
MOFF1-	132	39.27	13.43	9.68	28.67	46.35	16.31	11.6	34.66
MOFF4-	400	35.8	13.41	5.68	24.65	30	11.67	6.44	22.95
MOSH5J	11	61.06	23.65	5.63	39.08	5.3	2.68	0	3.79
MOSH5K	11	61.09	23.66	5.66	39.11	5.3	2.68	0	3.79
MOSM1-	132	41.93	16.2	6.74	29.66	51.54	20.5	8.5	37.49
MOSM2Q	275	54.52	20.67	8.21	37.44	47.52	18.79	7.73	34.31
MOSM3Q	33	15.71	6.05	1.83	10.38	1.16	0.8	0	1.14
MOSM3R	33	15.71	6.05	1.83	10.38	1.16	0.8	0	1.14
NEAR2Q	275	54.49	20.56	8.65	37.73	48.22	19.17	6.99	34.1
NEAR3-	33	52.37	18.6	10.35	36.65	5.95	4.13	0	5.83
NEIL1-	132	44.61	16.75	10.31	34	55.85	21.64	12.83	43.43
NEIL2-	275	62.74	23.15	12.74	45.48	62.07	23.85	12.88	46.61
NETS1-	132	8.1	3.76	0.1	5.41	9.06	4.18	0.15	6.06
NETS3-	33	9.92	4.34	0.25	6.39	2.16	1.45	0	2.06

PAIS3-	33	36.4	13.37	5.44	24.35	3.01	2.09	0	2.95
PART3-	33	35.15	13.04	3.65	22.08	3.01	2.08	0	2.95
POOB0J	25	18.59	6.76	5.62	15.18	0.24	0.3	0	0.43
POOB0K	25	18.59	6.76	5.62	15.18	0.24	0.3	0	0.43
POOB2Q	275	49.79	18.8	8.38	34.97	44.97	17.94	6.56	31.92
POOB2R	275	49.79	18.8	8.38	34.97	44.97	17.94	6.51	31.87
POOB3-	33	53.25	18.53	14.07	40.27	5.95	4.12	0	5.83
PORD3-	33	50.94	17.84	12.18	37.4	5.94	4.12	0	5.82
RAVE3-	33	37.69	13.74	9.53	28.96	5.9	4.09	0	5.79
REDH1-	132	29.76	12.68	0.74	18.67	32.45	14.25	1.08	21.23
REDH3-	33	35.09	13.43	2.2	21.19	3	2.08	0	2.94
SACO0J	25	10.28	3.76	2.86	8.17	0.34	0.38	0	0.53
SACO0K	25	10.28	3.76	2.82	8.14	0.34	0.38	0	0.54
SACO1Q	132	17.84	6.31	2.49	11.41	19.68	7.43	2.48	12.99
SACO1R	132	17.73	6.32	2.29	11.24	19.72	7.46	2.37	12.92
SACO3J	33	33.7	10.8	4.87	20.14	4.19	2.84	0	4.02
SACO3K	33	33.94	11.62	4.14	20.58	4.21	2.87	0	4.06
SANX0J	25	16.46	6.06	4.4	12.98	0.45	0.45	0	0.63
SANX0K	25	16.46	6.06	4.41	12.98	0.45	0.45	0	0.64
SANX1Q	132	21.34	8.08	3.01	14.44	24.09	10.07	1.97	16.21
SANX1R	132	21.34	8.08	3.01	14.44	24.1	10.07	1.99	16.22
SANX3-	33	30.52	11.24	4.72	20.62	3.01	2.09	0	2.95
SHRU3-	33	46.12	16.44	10.15	33.4	5.9	4.09	0	5.78
SIGH3-	33	50.8	17.7	10.67	35.7	5.89	4.08	0	5.76
SMEA2-	275	74.01	26.74	16.76	54.58	78.87	29.7	17.27	59.27
SPAV3-	33	27.49	10.17	3.6	17.98	4.34	3.01	0	4.25
STHA2-	275	87	31.33	18.87	63.17	93.28	35.24	19.51	69.35
STHA3-	33	47.3	16.85	11.4	35.23	5.95	4.13	0	5.83
STHA4-	400	52.65	19.13	11.59	38.64	49.6	18.87	10.82	37.5
STIR3-	33	31	10.91	4.74	20.17	4.35	3	0	4.25
STLE0J	25	10.18	3.79	2.06	7.42	0.27	0.32	0	0.45
STLE0K	25	10.18	3.79	2.06	7.42	0.27	0.32	0	0.45
STLE1-	132	20.91	9.44	0.08	13.43	21.08	9.54	0.48	13.98
STLE3S	33	32.82	12.65	1.13	19.01	2.98	2.07	0	2.92
TELR3-	33	30.52	11.35	3.05	19.11	3	2.08	0	2.94

TONG1-	132	10.33	4.57	0.46	6.92	13.79	6.01	0.77	9.26
TONG5-	11	74.65	26.65	6.41	44.1	48.51	14.5	6.89	27.39
TORN1-	132	26.98	9.42	7.87	21.19	33.18	11.75	10.07	26.69
TORN4-	400	53.95	19.34	14.16	41.52	58.19	21.4	16.49	46.76
WFIE1A	132	31.64	12.83	5.78	23.92	35.67	14.61	6.97	27.64
WFIE1B	132	39.6	15.57	5.6	27.62	44.63	18.21	6.83	32.57
WFIE2-	275	59.76	22.47	9.38	41.15	55.62	21.73	9.55	40.28
WFIE3-	33	41.6	15.56	5.32	27.34	3.02	2.1	0	2.96
WGEO3-	33	50.31	17.87	10.06	35.32	5.95	4.12	0	5.83
WHHO3-	33	46.87	16.64	10.67	34.2	5.9	4.09	0	5.78
WHTL3-	33	25.11	9.99	0.73	14.86	2.23	1.55	0	2.19
WISH0J	25	20.78	7.52	6.35	16.99	0.07	0.07	0	0.1
WISH0K	25	20.8	7.53	6.35	17.01	0.12	0.15	0	0.21
WISH1-	132	15.94	5.19	4.59	11.93	19.43	6.49	5.7	14.87
WISH2-	275	66.36	24.64	11.26	46.11	64.94	25.29	11.13	46.9
WISH3-	33	50.14	17.75	11.06	36.17	5.94	4.12	0	5.82
WIYH1-	132	43.96	16.04	9.48	32.17	54.38	20.45	12.24	41.16
WIYH2-	275	62.85	22.6	12.83	44.79	64.2	24.08	13.73	47.79
WLEE2-	275	60.77	23.39	8.2	41.27	51.61	22.97	9.56	42.04
WLEE3A	33	57.72	21.93	8.39	39.4	3.01	2.09	0	2.95
WLEE3B	33	57.72	21.93	8.39	39.4	3.01	2.09	0	2.95
WLEE3C	33	57.72	21.93	8.39	39.4	3.01	2.09	0	2.95

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Table D.2.3 - SPT Fault Levels (kA), Winter 2009/10

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
AUCH2-	275	11.95	4.82	1.42	8.24	11.19	4.59	1.44	7.94
AYR-3-	33	44.12	15.7	9.33	31.53	5.83	4.03	0	5.7
BAGA3-	33	31.68	11.94	2.55	19.43	4.4	3.04	0	4.3
BAIN1-	132	30.41	12.02	2.72	19.71	33.17	13.57	3	22.19
BAIN3-	33	34.68	12.88	4.05	22.27	2.99	2.07	0	2.93
BERW1Q	132	11.59	5.35	0.36	7.92	11.55	5.32	0.38	7.9
BERW1R	132	11.6	5.35	0.36	7.92	11.56	5.32	0.38	7.9
BERW3-	33	33.58	13.7	1.29	20.67	4.58	3.17	0	4.48
BLAK3A	33	29.79	7.93	5.29	16.5	2.25	1.55	0	2.19
BLAK3B	33	26.55	7.41	4.86	15.35	2.25	1.55	0	2.19
BONN1-	132	39.74	15.16	5.67	27.1	48.32	19.07	7.33	34.3
BONN2-	275	54.99	20.36	10.28	39.07	45.6	17.71	8.3	33.35
BONN3-	33	40.93	13.71	4.47	23.86	3.04	2.1	0	2.97

BPGR3-	33	103.99	40.68	19.17	76.7	63.16	26.83	2.02	39.96
BRAP1-	132	14.62	6.49	0.11	9.28	16.04	7.17	0.38	10.53
BRAP3-	33	23.73	9.08	1.03	13.87	4.3	2.97	0	4.21
BROX3-	33	25.84	9.21	3.11	16.13	4.29	2.97	0	4.2
BUSB2-	275	55.06	20.75	9.25	38.59	49.28	19.56	7.11	34.78
CAFA5-	11	21.91	8.44	2.4	14.33	11.63	4.42	2.06	8.3
CATY0J	25	9.96	3.67	2.79	7.98	0.33	0.37	0	0.52
CATY0K	25	9.96	3.67	2.79	7.98	0.33	0.37	0	0.52
CATY1Q	132	20.17	7.71	2.47	13.37	23.18	9.22	2.21	15.25
CATY1R	132	20.18	7.71	2.47	13.37	23.19	9.22	2.21	15.25
CATY3-	33	28.1	10.01	4.22	18.38	2.97	2.06	0	2.91
CHAP1-	132	30.49	12.36	0.88	18.36	30.77	12.87	1.54	19.73
CHAP3-	33	43.38	15.46	3.21	25.07	4.56	3.16	0	4.46
CHAS3-	33	49.47	17.39	10.28	34.87	5.9	4.08	0	5.78
CLYM2-	275	78.46	28.48	16.97	57.24	76.42	29.21	15.33	56.64
CLYM3-	33	48.75	17.22	11.33	35.68	5.9	4.09	0	5.78
COAL1-	132	23.72	8.45	7.23	19.18	30.59	11.03	9.53	25.12
COAL4-	400	46.11	16.8	8.33	32.1	38.05	14.8	6.55	27.48
COAT3-	33	40.78	14.15	11.77	31.78	5.8	4.02	0	5.68
COCK2-	275	78.58	28.1	19.82	59.56	86.67	31.97	22.94	68.15
COCK3-	33	49.52	17.83	11.62	36.83	5.96	4.13	0	5.85
COYL1-	132	28.75	11.06	5.17	20.81	34.78	13.51	6.76	25.87
COYL2-	275	33.83	12.63	7.22	25.08	36.56	14.04	7.58	27.44
COYL3-	33	37.58	13.41	4.48	23.44	3.03	2.09	0	2.96
CROO3J	33	33.33	12.5	3.48	21.15	3.01	2.08	0	2.94
CROO3K	33	31.12	11.65	3.58	20.07	3	2.07	0	2.93
CUMB3-	33	30.78	11.42	3.35	19.5	4.4	3.05	0	4.31
CUPA3-	33	29.4	11.65	0.34	16.82	2.95	2.04	0	2.89
CURR1-	132	25.66	9.01	7.83	20.56	32.97	12.04	9.62	26.64
CURR2-	275	70.39	25.92	14.02	50.67	63.25	24.72	11.45	46.41
CURR5-	11	33.61	12.53	5.76	23.47	6.34	3.48	0	4.92
DALL2-	275	31.82	11.57	6.17	22.54	30.27	11.54	5.29	21.61
DALM1-	132	24	8.64	6.84	19.06	30.65	11.23	8.87	24.76
DEVM0J	25	8.22	2.97	2.57	6.77	0.09	0.1	0	0.14
DEVM0K	25	8.22	2.97	2.57	6.77	0.09	0.1	0	0.14

DEVM1-	132	29.87	10.81	7.71	23	37.23	13.8	9.48	28.99
DEVM3-	33	44.9	16.88	5.06	28.94	3.03	2.1	0	2.97
DEVM4-	400	39.25	14.38	8.56	28.89	34.39	13.2	6.9	25.56
DEVO1-	132	21.95	9.42	0.67	14	21.48	9.33	1.24	14.44
DEVO3-	33	30.74	11.59	2.3	18.69	4.38	3.03	0	4.28
DEWP3-	33	50.35	17.54	10.99	35.8	5.9	4.08	0	5.78
DRCR3-	33	24.15	9.35	2.22	15.44	4.39	3.04	0	4.29
DRUM3-	33	49.14	17.27	10.94	35.36	5.92	4.1	0	5.8
DUMF1-	132	19.42	7.98	0.36	11.65	23.29	9.65	0.64	14.29
DUMF3-	33	44.07	15.94	1.4	23.94	4.49	3.1	0	4.39
DUMF3I	33	18.12	6.92	1.59	11.39	1.52	1.05	0	1.49
DUMF5-	11	33.88	13.21	1.64	20.33	6.88	3.47	0	4.91
DUNB3-	33	42.91	14.79	2.92	23.84	3.02	2.09	0	2.95
DUNF3-	33	30.11	11.15	3.72	19.49	4.39	3.04	0	4.3
EAST5-	11	21.85	8.38	2.58	14.42	11.59	4.4	2.11	8.33
ECCF0J	25	15.78	5.92	2.38	10.75	0.15	0.21	0	0.29
ECCF0K	25	19.18	7.25	2.43	12.69	0.15	0.21	0	0.29
ECCF1J	132	18.65	8.48	0.08	12.07	16.35	7.58	0.12	10.83
ECCF1K	132	18.62	8.47	0.08	12.06	16.33	7.57	0.12	10.82
ECCL1-	132	30.18	11.38	8.05	24.15	38.49	14.64	10.61	31.31
ECCL3-	33	34.16	12.56	5.26	23.03	4.62	3.19	0	4.51
ECCL4-	400	55.55	20.25	12.54	41.18	50.27	19.29	9.91	37.2
EERH2-	275	69.46	25.43	14.54	50.5	63.03	24.33	11.75	46.16
EERH3-	33	52.21	18.2	12.91	38.65	5.94	4.12	0	5.82
EKIL3-	33	51.78	18.26	14.08	39.9	5.89	4.08	0	5.77
EKIS2-	275	68.22	25.33	12.88	48.69	65.91	25.84	10.29	46.83
EKIS3-	33	45.1	16.64	9.84	33.38	5.97	4.14	0	5.85
ELDE3-	33	36.24	13.41	5.01	23.98	3.02	2.09	0	2.96
ELVA0J	25	18.7	6.61	8.87	18.22	0.13	0.18	0	0.26
ELVA0K	25	18.7	6.61	8.87	18.22	0.13	0.18	0	0.26
ELVA4-	400	40.63	14.61	6.91	27.57	39.5	14.71	8.68	29.48
ERSK3-	33	20.41	7.91	1.01	12.21	1.53	1.06	0	1.5
FIFE1-	132	28.62	11.54	5.23	21.56	32.34	13.26	5.83	24.59
FIFE1B	132	34.42	13.52	4.94	24.06	38.66	15.88	5.13	27.59
GALA1-	132	20.28	8.7	0.38	12.68	21.28	9.3	0.66	13.82

GALA3-	33	31.16	11.85	1.22	17.98	2.24	1.55	0	2.19
GIFF3-	33	49.93	17.73	10	35.08	5.93	4.11	0	5.81
GLLE1-	132	11.87	5.26	0.52	7.96	12.69	5.7	0.57	8.63
GLLE5-	11	41.6	12.12	8.17	25.31	33.88	8.88	7.35	19.91
GLLU3-	33	18.49	7.65	0.15	10.96	3.43	2.35	0	3.33
GLNI1-	132	42.45	16.48	6.2	29.51	50.65	20.41	6.64	35.51
GLNI3-	33	29.72	10.87	6.16	21.53	4.39	3.04	0	4.3
GLRO2-	275	44.21	17.06	5.94	30.07	37.9	15.17	5.42	26.87
GLRO3-	33	47.46	17.22	9.14	33.49	5.92	4.1	0	5.8
GORG3-	33	26.74	9.61	5.08	18.67	2.99	2.07	0	2.93
GOVA3-	33	32.9	12.23	3.53	20.83	2.98	2.06	0	2.92
GRMO2-	275	50.84	19.34	9.59	36.94	45.2	17.7	8.95	33.98
GRMO3A	33	38.65	13.9	9.86	29.52	5.68	3.93	0	5.56
GRMO3C	33	38.73	13.92	10.01	29.7	5.68	3.94	0	5.57
GRNA1-	132	40.43	15.11	7.6	28.97	48.89	18.58	10.28	36.56
GRNA4-	400	48.59	18.03	7.33	32.83	39.36	15.49	6.47	28.37
HAGR3-	33	32.47	12.11	2.87	19.99	2.99	2.07	0	2.93
HAWI1-	132	9.55	4.73	0.01	6.7	10.71	5.11	0.06	7.28
HAWI3-	33	19.56	8.2	0.13	11.73	2.92	2.02	0	2.86
HELE1-	132	16.94	7.89	0.03	11.18	17.2	7.94	0.16	11.39
HELE3-	33	24.81	9.92	0.6	14.63	2.25	1.56	0	2.21
HUER1-	132	26.74	8.85	8.74	21.25	33.98	11.84	10.64	27.37
HUER4-	400	52.14	18.45	13.35	39.44	55.78	20.38	15.46	44.28
HUNF3-	33	36.95	13.31	6.59	25.41	3.01	2.09	0	2.95
INKE3-	33	29.29	10.96	2.11	17.6	4.37	3.03	0	4.28
INKI4-	400	44.82	16.32	9.79	32.88	36.18	14.08	6.07	25.98
INVR2-	275	31.56	11.68	5.2	21.72	27.11	10.73	3.12	18.29
INWI0J	25	10.78	3.91	3.31	8.84	0.13	0.17	0	0.24
INWI0K	25	10.78	3.91	3.31	8.84	0.13	0.17	0	0.24
INWI1Q	132	27.77	10.05	6.63	20.84	33.36	12.24	7.71	25.02
INWI1R	132	27.77	10.05	6.63	20.84	33.36	12.24	7.71	25.02
JOHN3-	33	33.72	12.36	4.44	21.92	3	2.08	0	2.94
KAIM2-	275	75.95	27.71	15.82	55	77.32	29.56	14.99	56.79
KAIM3-	33	52.27	17.96	11.11	36.5	5.92	4.1	0	5.79
KEOO1-	132	12.24	5.48	0.45	8.2	12.38	5.61	0.51	8.45

KEOO5-	11	36.2	11.43	5.74	21.9	27.9	7.99	4.99	16.29
KIER3-	33	34.25	12.16	5.35	22.55	4.41	3.05	0	4.32
KILB3-	33	32.88	12.15	5.24	22.43	3.02	2.09	0	2.95
KILB5-	11	28.57	10.83	4.08	19.4	9.74	2.35	0	3.32
KILS2-	275	38.96	14.28	9.8	30	44.68	16.74	11.58	35.26
KILS3-	33	37.1	13.27	9.63	28.4	5.85	4.05	0	5.73
KILS4-	400	43.48	16.15	7.84	30.68	42.33	16.26	8.53	31.51
KILT3-	33	49.43	17.29	10.13	34.58	5.88	4.07	0	5.75
KILW3-	33	25.54	8.93	4.48	17.11	4.33	2.99	0	4.23
KINC2-	275	67.37	24.71	17.3	52.25	61.75	23.46	15.51	48.69
LAMB2-	275	60.67	22.25	10.9	42.37	56.81	21.97	9.7	40.77
LEVE3-	33	31.27	12.27	0.93	18.27	2.98	2.06	0	2.92
LING3-	33	25.67	9.08	2.84	15.68	4.29	2.96	0	4.19
LINM3-	33	37.02	12.87	6.2	24.4	19.93	6.87	0.4	10.12
LOAN2-	275	108.24	37.52	28.8	81.87	113.1	40.88	31.94	89.76
MARM0J	25	9.65	3.63	1.78	6.92	0.15	0.21	0	0.29
MARM0K	25	9.65	3.63	1.78	6.92	0.15	0.21	0	0.29
MAYB1-	132	18.41	7.73	0.44	11.38	19.31	8.3	0.69	12.43
MAYB3-	33	20.71	8.01	1.15	12.48	1.53	1.05	0	1.49
MEAD1-	132	15.14	5.57	0.96	8.83	17.04	6.63	1.67	11.04
MOFF1-	132	40.07	13.58	10.21	29.41	48.39	16.84	12.16	35.98
MOFF4-	400	38.89	14.16	6.26	26.29	34.46	13.16	6.8	25.41
MOSH5J	11	61.06	23.65	5.63	39.08	5.3	2.68	0	3.79
MOSH5K	11	61.09	23.66	5.66	39.12	5.3	2.68	0	3.79
MOSM1-	132	42.24	16.35	6.75	29.88	51.88	20.66	8.5	37.71
MOSM2Q	275	54.79	20.81	8.26	37.69	47.62	18.84	7.74	34.39
MOSM3Q	33	15.7	6.04	1.83	10.38	1.16	0.8	0	1.14
MOSM3R	33	15.7	6.04	1.83	10.38	1.16	0.8	0	1.14
NEAR2Q	275	54.18	20.46	8.84	37.78	48.96	19.35	7.71	35.07
NEAR3-	33	52.32	18.57	10.4	36.66	5.94	4.12	0	5.82
NEIL1-	132	39.48	14.48	10.43	30.91	50.42	19.11	12.99	40.02
NEIL2-	275	62.7	23.19	13.13	45.93	61.98	23.81	13.18	46.85
NETS1-	132	8.11	3.76	0.1	5.42	9.06	4.18	0.15	6.05
NETS3-	33	9.92	4.34	0.25	6.38	2.16	1.45	0	2.05
PAIS3-	33	34.84	12.68	5.53	23.47	3	2.08	0	2.94

PART3-	33	35.16	13.04	3.65	22.08	3	2.08	0	2.94
POOB0J	25	18.58	6.76	5.63	15.19	0.24	0.3	0	0.42
POOB0K	25	18.58	6.76	5.63	15.19	0.24	0.3	0	0.42
POOB2Q	275	51.1	19.38	8.65	36.06	45.83	18.33	6.67	32.59
POOB2R	275	51.1	19.38	8.65	36.06	45.83	18.33	6.64	32.57
POOB3-	33	53.51	18.62	14.2	40.53	5.96	4.13	0	5.84
PORD3-	33	50.98	17.85	12.2	37.44	5.93	4.11	0	5.81
RAVE3-	33	37.61	13.71	9.55	28.94	5.89	4.08	0	5.77
REDH1-	132	29.89	12.76	0.74	18.79	32.55	14.31	1.08	21.31
REDH3-	33	35.12	13.45	2.2	21.22	2.99	2.07	0	2.93
SACO0J	25	10.27	3.75	2.85	8.16	0.34	0.38	0	0.53
SACO0K	25	10.27	3.76	2.82	8.13	0.34	0.38	0	0.54
SACO1Q	132	17.95	6.36	2.48	11.48	19.78	7.48	2.47	13.04
SACO1R	132	17.84	6.37	2.28	11.3	19.82	7.5	2.36	12.97
SACO3J	33	33.78	10.84	4.86	20.18	4.19	2.84	0	4.02
SACO3K	33	34.02	11.66	4.14	20.63	4.2	2.87	0	4.06
SANX0J	25	16.43	6.05	4.4	12.96	0.44	0.45	0	0.63
SANX0K	25	16.43	6.05	4.4	12.96	0.45	0.45	0	0.64
SANX1Q	132	21.3	8.06	3.02	14.42	24.06	10.05	1.97	16.18
SANX1R	132	21.3	8.06	3.02	14.42	24.07	10.05	1.99	16.2
SANX3-	33	30.48	11.22	4.73	20.61	3	2.08	0	2.94
SHRU3-	33	46.23	16.48	10.26	33.56	5.89	4.08	0	5.77
SIGH3-	33	50.93	17.74	10.78	35.87	5.88	4.07	0	5.76
SMEA2-	275	76.92	27.9	17.43	56.89	81.64	30.81	17.91	61.47
SPAV3-	33	27.21	9.93	3.58	17.63	4.33	3	0	4.24
STHA2-	275	84.63	30.5	19.19	62.33	89.06	33.66	19.16	66.77
STHA3-	33	47.17	16.8	11.4	35.16	5.94	4.12	0	5.82
STHA4-	400	62.27	22.44	13.22	44.96	56.66	21.6	11.48	42.03
STIR3-	33	31.05	10.93	4.7	20.15	4.34	3	0	4.24
STLE0J	25	10.17	3.79	2.06	7.41	0.26	0.32	0	0.45
STLE0K	25	10.17	3.79	2.06	7.41	0.26	0.32	0	0.45
STLE1-	132	20.89	9.44	0.07	13.42	21.08	9.55	0.47	13.98
STLE3S	33	32.6	12.55	1.12	18.87	2.96	2.05	0	2.9
TEL3-	33	30.58	11.38	3.07	19.16	3	2.08	0	2.94
TONG1-	132	10.38	4.6	0.46	6.97	13.84	6.04	0.76	9.31

TONG5-	11	74.7	26.68	6.39	44.12	48.51	14.49	6.88	27.37
TORN1-	132	28.44	10.18	7.98	22.37	34.68	12.52	10.2	27.91
TORN4-	400	57.81	20.87	15	44.52	63.16	23.32	17.55	50.53
WFIE1A	132	31.82	12.92	5.79	24.06	35.82	14.68	6.99	27.76
WFIE1B	132	39.87	15.71	5.63	27.84	44.88	18.32	6.84	32.75
WFIE2-	275	60.14	22.63	9.42	41.43	55.69	21.76	9.46	40.24
WFIE3-	33	41.64	15.58	5.33	27.37	3.02	2.09	0	2.96
WGEO3-	33	50.34	17.87	10.09	35.37	5.94	4.11	0	5.82
WHHO3-	33	46.97	16.67	10.75	34.32	5.9	4.09	0	5.78
WHTL3-	33	25.09	9.99	0.73	14.85	2.23	1.54	0	2.18
WISH0J	25	20.74	7.51	6.35	16.97	0.07	0.07	0	0.1
WISH0K	25	20.76	7.52	6.35	16.99	0.12	0.15	0	0.21
WISH1-	132	15.94	5.19	4.6	11.94	19.43	6.48	5.71	14.88
WISH2-	275	66.13	24.58	11.59	46.35	64.66	25.16	11.24	46.82
WISH3-	33	50.07	17.72	11.11	36.17	5.93	4.11	0	5.81
WIYH1-	132	44.03	16.07	9.62	32.35	54.29	20.42	12.33	41.2
WIYH2-	275	63.81	23	12.91	45.45	64.74	24.32	13.76	48.15
WLEE2-	275	59.99	23.06	8.32	40.93	50.98	22.57	9.54	41.46
WLEE3A	33	57.68	21.91	8.4	39.39	3.01	2.09	0	2.95
WLEE3B	33	57.68	21.91	8.4	39.39	3.01	2.09	0	2.95
WLEE3C	33	57.68	21.91	8.4	39.39	3.01	2.09	0	2.95

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Table D.2.4 - SPT Fault Levels (kA), Winter 2010/11

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
AUCH2-	275	13.16	5.34	1.55	9.11	12.04	4.96	1.54	8.55
AYR-3-	33	45.24	16.12	9.8	32.59	5.84	4.04	0	5.72
BAGA3-	33	31.71	11.95	2.54	19.43	4.4	3.04	0	4.3
BAIN1-	132	30.42	12.03	2.71	19.73	31.5	12.94	2.86	21.15
BAIN3-	33	34.71	12.89	4.04	22.26	2.99	2.07	0	2.93
BERW1Q	132	11.6	5.35	0.36	7.92	11.55	5.32	0.38	7.9
BERW1R	132	11.6	5.35	0.36	7.93	11.56	5.32	0.38	7.91
BERW3-	33	33.6	13.71	1.3	20.68	4.58	3.17	0	4.48
BLAK3A	33	29.79	7.93	5.28	16.5	2.25	1.55	0	2.19
BLAK3B	33	26.55	7.41	4.87	15.35	2.25	1.55	0	2.19
BONN1-	132	39.78	15.18	5.61	27.08	48.28	19.07	7.24	34.22
BONN2-	275	55.24	20.51	10.37	39.37	45.69	17.77	8.34	33.47
BONN3-	33	40.96	13.72	4.46	23.86	3.03	2.1	0	2.97

BPGR3-	33	104.09	40.71	19.47	77.04	63.19	26.83	2.04	39.99
BRAP1-	132	14.64	6.51	0.11	9.31	16.21	7.26	0.37	10.63
BRAP3-	33	23.76	9.09	1.03	13.89	4.3	2.97	0	4.21
BROX3-	33	25.86	9.21	3.11	16.14	4.29	2.97	0	4.2
BUSB2-	275	55.92	21.16	9.44	39.36	49.84	19.83	7.13	35.18
CAFA5-	11	21.93	8.45	2.4	14.35	11.64	4.42	2.06	8.31
CATY0J	25	9.96	3.67	2.79	7.98	0.33	0.37	0	0.52
CATY0K	25	9.96	3.67	2.79	7.98	0.33	0.37	0	0.52
CATY1Q	132	20.17	7.71	2.47	13.37	23.18	9.22	2.21	15.25
CATY1R	132	20.17	7.71	2.47	13.37	23.19	9.22	2.21	15.26
CATY3-	33	28.12	10.02	4.22	18.39	2.97	2.06	0	2.91
CHAP1-	132	30.28	12.26	0.9	18.23	29.7	12.48	1.63	19.28
CHAP3-	33	43.34	15.44	3.21	25.04	4.56	3.16	0	4.46
CHAS3-	33	49.55	17.42	10.31	34.94	5.9	4.08	0	5.77
CLYM2-	275	79.75	29.03	17.34	58.39	79.43	30.31	16.17	59.04
CLYM3-	33	48.83	17.24	11.34	35.73	5.9	4.09	0	5.78
COAL1-	132	27.26	9.88	7.36	21.34	35.02	12.82	9.71	27.84
COAL4-	400	48.35	17.77	8.74	33.88	38.98	15.23	6.8	28.33
COAT3-	33	40.78	14.15	11.78	31.8	5.79	4.01	0	5.67
COCK2-	275	80.18	28.69	20.15	60.73	88.11	32.53	23.29	69.3
COCK3-	33	49.47	17.81	11.61	36.79	5.95	4.12	0	5.83
COYL1-	132	29.83	11.51	5.64	21.92	35.98	13.99	7.35	27.13
COYL2-	275	41.51	15.61	8.84	30.91	45.01	17.28	9.6	34.03
COYL3-	33	37.94	13.54	4.63	23.78	3.03	2.09	0	2.96
CROO3J	33	34.09	12.8	3.54	21.64	3.01	2.09	0	2.95
CROO3K	33	31.78	11.92	3.65	20.5	3	2.08	0	2.94
CUMB3-	33	30.8	11.42	3.34	19.49	4.4	3.05	0	4.31
CUPA3-	33	29.44	11.66	0.34	16.83	2.95	2.04	0	2.89
CURR1-	132	25.64	9	7.85	20.57	32.8	11.99	9.6	26.55
CURR2-	275	71.58	26.38	14.38	51.69	65.49	25.55	11.81	47.94
CURR5-	11	33.62	12.53	5.76	23.48	6.34	3.48	0	4.92
DALL2-	275	31.98	11.63	6.18	22.62	30.4	11.6	5.3	21.7
DALM1-	132	24	8.64	6.84	19.05	30.65	11.23	8.88	24.77
DEVM0J	25	8.22	2.97	2.57	6.77	0.09	0.1	0	0.14
DEVM0K	25	8.22	2.97	2.57	6.77	0.09	0.1	0	0.14

DEVM1-	132	29.96	10.85	7.79	23.14	37.36	13.84	9.6	29.17
DEVM3-	33	44.95	16.9	5.08	28.98	3.03	2.1	0	2.97
DEVM4-	400	40.06	14.76	8.61	29.47	34.17	13.14	6.87	25.45
DEVO1-	132	21.98	9.44	0.67	14.01	21.42	9.3	1.24	14.4
DEVO3-	33	30.77	11.6	2.3	18.7	4.38	3.03	0	4.28
DEWP3-	33	48.22	16.74	10.71	34.39	7.65	5.29	0	7.49
DRCR3-	33	24.16	9.35	2.22	15.44	4.39	3.04	0	4.29
DRUM3-	33	49.21	17.29	10.97	35.42	5.92	4.1	0	5.8
DUMF1-	132	19.35	7.94	0.37	11.6	22.94	9.49	0.66	14.08
DUMF3-	33	44.01	15.9	1.42	23.91	4.5	3.11	0	4.39
DUMF3I	33	18.11	6.92	1.6	11.38	1.52	1.05	0	1.49
DUMF5-	11	33.88	13.21	1.64	20.32	6.88	3.47	0	4.91
DUNB3-	33	42.98	14.82	2.92	23.88	3.02	2.09	0	2.95
DUNF3-	33	30.14	11.16	3.72	19.5	4.39	3.04	0	4.3
EAST5-	11	21.87	8.38	2.58	14.44	11.6	4.4	2.11	8.34
ECCF0J	25	15.77	5.92	2.38	10.75	0.15	0.21	0	0.29
ECCF0K	25	19.16	7.25	2.43	12.68	0.15	0.21	0	0.29
ECCF1J	132	18.57	8.43	0.08	12.01	16.04	7.44	0.13	10.65
ECCF1K	132	18.54	8.43	0.08	11.99	16.03	7.43	0.13	10.65
ECCL1-	132	30.18	11.38	8.21	24.3	38.5	14.63	10.82	31.52
ECCL3-	33	34.17	12.57	5.3	23.07	4.63	3.19	0	4.51
ECCL4-	400	59.73	21.56	14.63	45.12	55.43	21.08	11.8	41.62
EERH2-	275	70.4	25.82	14.52	51.04	64.15	24.81	11.53	46.61
EERH3-	33	52.29	18.23	12.93	38.71	5.94	4.12	0	5.82
EKIL3-	33	51.87	18.29	14.14	40.01	5.89	4.08	0	5.77
EKIS2-	275	69.37	25.85	12.95	49.51	66.89	26.26	10.33	47.47
EKIS3-	33	45.17	16.67	9.87	33.44	5.97	4.14	0	5.86
ELDE3-	33	36.83	13.66	4.98	24.29	3.03	2.1	0	2.96
ELVA0J	25	18.53	6.55	8.8	18.07	0.13	0.18	0	0.25
ELVA0K	25	18.53	6.55	8.8	18.07	0.13	0.18	0	0.25
ELVA4-	400	42.25	15.29	7.26	28.89	40.58	15.18	8.91	30.37
ERSK3-	33	20.43	7.92	1.01	12.22	1.53	1.06	0	1.5
FIFE1-	132	28.65	11.56	5.23	21.58	32.37	13.27	5.83	24.61
FIFE1B	132	34.48	13.54	4.93	24.09	38.71	15.9	5.11	27.6
GALA1-	132	20.31	8.71	0.38	12.69	21.15	9.24	0.67	13.74

GALA3-	33	31.19	11.85	1.23	17.99	2.24	1.55	0	2.19
GIFF3-	33	50.04	17.78	10.03	35.17	5.94	4.11	0	5.82
GLLE1-	132	11.94	5.29	0.53	8	12.73	5.71	0.58	8.66
GLLE5-	11	42.16	12.28	8.26	25.63	34.35	9.01	7.44	20.18
GLLU3-	33	18.56	7.68	0.15	11	3.43	2.36	0	3.33
GLNI1-	132	42.53	16.51	6.22	29.57	50.75	20.45	6.67	35.59
GLNI3-	33	29.75	10.88	6.16	21.54	4.39	3.04	0	4.31
GLRO2-	275	44.42	17.15	5.89	30.14	37.22	14.93	5.34	26.45
GLRO3-	33	47.53	17.24	9.18	33.56	5.92	4.1	0	5.8
GORG3-	33	26.75	9.61	5.09	18.68	2.99	2.07	0	2.93
GOVA3-	33	33.36	12.43	3.49	21.08	2.98	2.07	0	2.92
GRMO2-	275	52.01	19.64	10.74	38.52	43.55	17.13	8.97	33.19
GRMO3A	33	38.75	13.93	10.06	29.75	5.68	3.93	0	5.56
GRMO3C	33	38.84	13.95	10.21	29.93	5.69	3.94	0	5.57
GRNA1-	132	40.02	14.96	7.55	28.71	48.38	18.39	10.24	36.24
GRNA4-	400	49.4	18.38	7.48	33.47	39.53	15.58	6.52	28.55
HAGR3-	33	32.93	12.31	2.82	20.23	2.99	2.07	0	2.93
HAWI1-	132	9.53	4.72	0.01	6.68	10.7	5.1	0.06	7.27
HAWI3-	33	19.55	8.2	0.13	11.72	2.92	2.02	0	2.86
HELE1-	132	16.96	7.9	0.03	11.19	17.27	7.98	0.16	11.44
HELE3-	33	24.82	9.92	0.6	14.64	2.26	1.56	0	2.21
HUER1-	132	26.86	8.9	8.78	21.37	34.1	11.89	10.68	27.49
HUER4-	400	54.14	19.27	13.94	41.19	57.09	20.91	15.95	45.53
HUNF3-	33	37.01	13.34	6.61	25.48	3.01	2.09	0	2.95
INKE3-	33	29.32	10.97	2.1	17.61	4.37	3.03	0	4.28
INKI4-	400	46.03	16.88	9.88	33.75	35.37	13.82	5.93	25.47
INVR2-	275	31.71	11.75	5.19	21.8	27.18	10.76	3.12	18.33
INWI0J	25	10.79	3.91	3.32	8.84	0.13	0.17	0	0.24
INWI0K	25	10.79	3.91	3.32	8.84	0.13	0.17	0	0.24
INWI1Q	132	27.94	10.11	6.7	20.99	33.54	12.31	7.76	25.17
INWI1R	132	27.94	10.11	6.7	20.99	33.54	12.31	7.76	25.17
JOHN3-	33	34.22	12.57	4.41	22.19	3.01	2.08	0	2.94
KAIM2-	275	77.58	28.34	16.34	56.43	79.61	30.43	15.79	58.82
KAIM3-	33	52.38	17.99	11.14	36.58	5.92	4.1	0	5.8
KEOO1-	132	12.33	5.52	0.46	8.26	12.46	5.65	0.52	8.51

KEOO5-	11	36.46	11.51	5.78	22.05	28.1	8.05	5.02	16.41
KIER3-	33	34.28	12.17	5.35	22.57	4.41	3.05	0	4.32
KILB3-	33	32.9	12.16	5.24	22.43	3.02	2.09	0	2.95
KILB5-	11	28.59	10.84	4.09	19.41	9.74	2.35	0	3.32
KILS2-	275	45.76	16.94	11.03	34.99	51.52	19.44	12.77	40.26
KILS3-	33	37.68	13.49	9.85	28.93	5.85	4.06	0	5.74
KILS4-	400	47.43	17.73	8.79	33.86	45.53	17.54	9.23	34.03
KILT3-	33	50.39	17.66	10.38	35.36	5.88	4.07	0	5.76
KILW3-	33	25.57	8.95	4.49	17.14	4.33	2.99	0	4.23
KINC2-	275	67.91	24.94	17.41	52.68	61.9	23.6	15.27	48.65
LAMB2-	275	61.19	22.51	10.85	42.68	57.09	22.11	9.67	40.94
LEVE3-	33	31.29	12.27	0.93	18.28	2.98	2.06	0	2.92
LING3-	33	25.7	9.08	2.84	15.68	4.29	2.96	0	4.19
LINM3-	33	38.24	13.38	6.12	25.04	20.14	6.95	0.38	10.21
LOAN2-	275	109.05	37.94	29.44	83.1	113.49	41.15	32.12	90.31
MARM0J	25	9.65	3.63	1.78	6.92	0.15	0.21	0	0.29
MARM0K	25	9.65	3.63	1.78	6.92	0.15	0.21	0	0.29
MAYB1-	132	18.73	7.92	0.43	11.63	19.57	8.45	0.69	12.63
MAYB3-	33	20.83	8.06	1.16	12.56	1.53	1.06	0	1.49
MEAD1-	132	15.18	5.59	0.96	8.86	17.07	6.64	1.67	11.06
MOFF1-	132	44.12	15.25	10.47	32.04	53.19	18.81	12.47	39.08
MOFF4-	400	40.57	14.89	6.6	27.66	36.19	13.87	7.06	26.67
MOSH5J	11	61.08	23.66	5.63	39.09	5.3	2.68	0	3.79
MOSH5K	11	61.1	23.66	5.65	39.12	5.3	2.68	0	3.79
MOSM1-	132	42.32	16.39	6.78	29.96	52	20.71	8.61	37.89
MOSM2Q	275	55.07	20.93	8.18	37.78	49.19	19.41	7.94	35.39
MOSM3Q	33	15.7	6.05	1.83	10.38	1.16	0.8	0	1.14
MOSM3R	33	15.7	6.05	1.83	10.38	1.16	0.8	0	1.14
NEAR2Q	275	54.73	20.73	8.94	38.25	49.29	19.51	7.73	35.32
NEAR3-	33	52.39	18.6	10.4	36.7	5.94	4.12	0	5.82
NEIL1-	132	42.41	15.65	10.71	32.85	53.86	20.5	13.3	42.29
NEIL2-	275	64.37	23.87	13.42	47.19	63.18	24.29	13.35	47.7
NETS1-	132	8.14	3.78	0.1	5.44	9.09	4.19	0.15	6.07
NETS3-	33	9.94	4.35	0.25	6.39	2.16	1.45	0	2.05
PAIS3-	33	35.37	12.9	5.52	23.76	3	2.08	0	2.94

PART3-	33	35.18	13.04	3.65	22.1	3	2.08	0	2.94
POOB0J	25	18.59	6.77	5.63	15.2	0.24	0.3	0	0.42
POOB0K	25	18.59	6.77	5.63	15.2	0.24	0.3	0	0.42
POOB2Q	275	51.76	19.66	8.8	36.6	46.28	18.53	6.71	32.92
POOB2R	275	51.76	19.66	8.8	36.6	46.27	18.53	6.71	32.92
POOB3-	33	53.53	18.62	14.25	40.58	5.95	4.12	0	5.83
PORD3-	33	51.05	17.87	12.24	37.52	5.93	4.11	0	5.81
RAVE3-	33	37.65	13.73	9.55	28.97	5.89	4.08	0	5.78
REDH1-	132	29.94	12.79	0.73	18.81	32.6	14.33	1.07	21.33
REDH3-	33	35.16	13.46	2.2	21.23	2.99	2.07	0	2.93
SACO0J	25	10.28	3.76	2.85	8.17	0.34	0.38	0	0.53
SACO0K	25	10.27	3.76	2.82	8.14	0.34	0.38	0	0.54
SACO1Q	132	18	6.39	2.49	11.52	19.83	7.5	2.47	13.07
SACO1R	132	17.89	6.4	2.29	11.34	19.87	7.53	2.36	13.01
SACO3J	33	33.83	10.86	4.87	20.23	4.19	2.84	0	4.02
SACO3K	33	34.07	11.69	4.14	20.68	4.2	2.87	0	4.06
SANX0J	25	16.43	6.05	4.4	12.96	0.44	0.45	0	0.63
SANX0K	25	16.44	6.05	4.4	12.96	0.45	0.45	0	0.64
SANX1Q	132	21.3	8.06	3.02	14.42	24.05	10.05	1.97	16.19
SANX1R	132	21.3	8.06	3.02	14.42	24.07	10.05	1.99	16.21
SANX3-	33	30.49	11.23	4.73	20.61	3	2.08	0	2.94
SHRU3-	33	46.31	16.51	10.28	33.63	5.89	4.08	0	5.77
SIGH3-	33	51.03	17.77	10.82	35.95	5.88	4.07	0	5.76
SMEA2-	275	78.5	28.51	18.04	58.35	83.27	31.44	18.48	62.95
SPAV3-	33	27.27	9.95	3.58	17.66	4.34	3.01	0	4.25
STHA2-	275	86.35	31.24	19.44	63.63	91.06	34.46	19.57	68.31
STHA3-	33	47.25	16.83	11.44	35.25	5.94	4.12	0	5.82
STHA4-	400	65.75	23.86	13.68	47.41	56.83	21.8	11.51	42.34
STIR3-	33	31.1	10.94	4.68	20.16	4.34	3	0	4.24
STLE0J	25	10.17	3.79	2.06	7.42	0.26	0.32	0	0.45
STLE0K	25	10.17	3.79	2.06	7.42	0.26	0.32	0	0.45
STLE1-	132	20.9	9.45	0.08	13.44	21.17	9.6	0.47	14.04
STLE3S	33	32.65	12.56	1.12	18.89	2.97	2.06	0	2.91
TEL3-	33	30.58	11.38	3.07	19.16	3	2.08	0	2.94
TONG1-	132	10.35	4.57	0.47	6.94	13.56	5.88	0.8	9.12

TONG5-	11	75.03	26.77	6.49	44.34	48.95	14.62	6.96	27.64
TORN1-	132	28.63	10.24	8.09	22.58	34.88	12.59	10.33	28.13
TORN4-	400	60.43	21.73	15.94	46.67	65.45	24.15	18.42	52.58
WFIE1A	132	31.87	12.95	5.81	24.12	35.85	14.7	7.01	27.8
WFIE1B	132	39.97	15.74	5.61	27.88	44.96	18.35	6.82	32.77
WFIE2-	275	60.39	22.77	9.33	41.53	55.23	21.63	9.38	39.97
WFIE3-	33	41.68	15.59	5.33	27.38	3.02	2.09	0	2.96
WGEO3-	33	50.41	17.9	10.1	35.42	5.94	4.12	0	5.82
WHHO3-	33	47.06	16.7	10.81	34.43	5.9	4.09	0	5.78
WHTL3-	33	25.1	10	0.73	14.86	2.23	1.54	0	2.18
WISH0J	25	20.75	7.51	6.35	16.98	0.07	0.07	0	0.1
WISH0K	25	20.77	7.52	6.35	17	0.12	0.15	0	0.21
WISH1-	132	15.94	5.19	4.6	11.94	19.43	6.49	5.7	14.88
WISH2-	275	66.92	24.98	11.38	46.71	65.05	25.39	11.16	47.06
WISH3-	33	50.16	17.75	11.1	36.21	5.93	4.11	0	5.81
WIYH1-	132	44.08	16.1	9.6	32.37	54.36	20.45	12.34	41.26
WIYH2-	275	64.58	23.33	13.12	46.1	65.19	24.52	13.9	48.57
WLEE2-	275	60.87	23.48	8.3	41.51	51.47	22.88	9.56	41.92
WLEE3A	33	57.71	21.93	8.42	39.43	3.01	2.09	0	2.95
WLEE3B	33	57.71	21.93	8.42	39.43	3.01	2.09	0	2.95
WLEE3C	33	57.71	21.93	8.42	39.43	3.01	2.09	0	2.95

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Table D.2.5 - SPT Fault Levels (kA), Winter 2011/12

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
AUCH2-	275	9.54	3.87	1	6.46	7.02	3	0.49	4.72
AYR-3-	33	43.41	15.43	9.13	30.96	5.82	4.03	0	5.69
BAGA3-	33	27.72	10.05	2.75	16.96	4.36	3.01	0	4.26
BAIN1-	132	30.46	11.95	2.89	19.79	31.48	12.87	2.99	21.19
BAIN3-	33	34.67	12.86	4.15	22.33	2.99	2.07	0	2.93
BERW1Q	132	10.79	5.01	0.23	7.32	10.56	4.9	0.3	7.24
BERW1R	132	10.88	5.04	0.24	7.37	11.01	5.09	0.29	7.49
BERW3-	33	24.28	9.81	1.07	14.94	3.79	2.61	0	3.7
BLAK3A	33	29.81	7.94	5.28	16.5	2.25	1.55	0	2.2
BLAK3B	33	26.57	7.42	4.86	15.35	2.25	1.55	0	2.19
BONN1-	132	39.83	15.05	6.05	27.33	48.16	18.89	7.7	34.41
BONN2-	275	54.73	20.23	10.18	38.8	44.35	17.27	8.06	32.48
BONN3-	33	40.89	13.68	4.6	23.95	3.04	2.1	0	2.97

BPGR3-	33	103.92	40.64	19.05	76.53	63.14	26.82	2.02	39.94
BRAP1-	132	29.24	11.67	2.84	19.35	32.34	13.38	3	21.92
BRAP3-	33	29.12	10.65	4.62	19.68	4.38	3.03	0	4.29
BROX3-	33	25.76	9.19	3.1	16.1	4.29	2.97	0	4.2
BUSB2-	275	56.84	21.45	8.97	39.3	50.75	20.19	7.14	35.69
CAFA5-	11	21.92	8.44	2.4	14.34	11.63	4.42	2.06	8.31
CATY0J	25	9.97	3.67	2.79	7.98	0.33	0.37	0	0.52
CATY0K	25	9.97	3.67	2.79	7.98	0.33	0.37	0	0.52
CATY1Q	132	20.34	7.78	2.45	13.45	23.55	9.35	2.3	15.52
CATY1R	132	20.34	7.78	2.45	13.45	23.56	9.35	2.29	15.52
CATY3-	33	28.12	10.04	4.21	18.4	2.97	2.06	0	2.91
CHAP1-	132	29.51	12.11	0.93	18.05	28.85	12.18	1.64	18.87
CHAP3-	33	43.07	15.41	3.09	24.88	4.54	3.14	0	4.44
CHAS3-	33	49.44	17.4	10.26	34.87	5.9	4.08	0	5.78
CLYM2-	275	79.66	28.83	16.62	57.39	75.79	29.06	14.69	55.79
CLYM3-	33	48.75	17.23	11.29	35.65	5.91	4.09	0	5.79
COAT3-	33	40.88	14.2	11.74	31.82	5.83	4.04	0	5.71
COCK2-	275	75.77	26.88	19.53	57.55	82.3	30.24	22.52	65.29
COCK3-	33	49.36	17.76	11.58	36.69	5.96	4.13	0	5.85
COYL1-	132	28.42	10.94	5.06	20.54	34.03	13.26	6.55	25.31
COYL2-	275	29.83	11.1	6.5	22.19	30.04	11.58	6.33	22.71
COYL3-	33	37.48	13.39	4.44	23.37	3.03	2.09	0	2.96
CROO3J	33	34.16	12.9	3.37	21.61	3.01	2.09	0	2.95
CROO3K	33	31.85	12	3.48	20.46	3	2.08	0	2.94
CUMB3-	33	30.75	11.4	3.42	19.54	4.4	3.05	0	4.31
CUPA3-	33	29.34	11.64	0.34	16.8	2.95	2.04	0	2.89
CURR1-	132	25.52	8.96	7.7	20.37	32.67	11.94	9.45	26.34
CURR2-	275	67.44	24.75	13.04	48.04	62.13	24.17	11.26	45.44
CURR5-	11	33.55	12.51	5.74	23.44	6.34	3.48	0	4.92
DALL2-	275	30.03	11.05	5.83	21.45	26.57	10.24	4.79	19.26
DALM1-	132	24.23	8.72	6.84	19.18	30.86	11.32	8.83	24.84
DEVM0J	25	8.24	2.99	2.56	6.79	0.09	0.1	0	0.14
DEVM0K	25	8.24	2.99	2.56	6.79	0.09	0.1	0	0.14
DEVM1-	132	31.26	11.93	7.97	24.85	37.77	14.64	9.67	30.37
DEVM3-	33	34.8	13.07	4.71	23.2	2.99	2.07	0	2.93

DEVM4-	400	36.81	13.45	8.26	27.28	32.05	12.3	6.59	23.99
DEVO1-	132	21.94	9.39	0.69	13.96	21.48	9.31	1.25	14.42
DEVO3-	33	30.68	11.57	2.33	18.7	4.38	3.03	0	4.28
DEWP3-	33	50.09	17.45	10.89	35.57	5.9	4.08	0	5.78
DRCR3-	33	23.98	9.27	2.21	15.32	4.39	3.03	0	4.29
DRUM3-	33	49.33	17.37	10.91	35.47	5.92	4.1	0	5.8
DUMF1-	132	19.12	7.91	0.38	11.56	22.72	9.46	0.66	14.05
DUMF3-	33	43.73	15.88	1.4	23.85	4.5	3.11	0	4.39
DUMF3I	33	18.05	6.91	1.58	11.36	1.52	1.05	0	1.49
DUMF5-	11	33.77	13.2	1.64	20.3	6.88	3.47	0	4.91
DUNB3-	33	34.33	11.11	2.96	18.68	3.01	2.08	0	2.94
DUNF3-	33	30.07	11.14	3.71	19.47	4.39	3.04	0	4.3
EAST5-	11	21.85	8.38	2.58	14.43	11.59	4.4	2.11	8.33
ECCF0J	25	15.73	5.92	2.35	10.72	0.15	0.21	0	0.29
ECCF0K	25	19.11	7.24	2.4	12.65	0.15	0.21	0	0.29
ECCF1J	132	18.29	8.36	0.09	11.91	15.8	7.33	0.14	10.51
ECCF1K	132	18.26	8.35	0.09	11.89	15.79	7.33	0.14	10.51
ECCL1-	132	29.16	10.98	8.96	24.48	37.34	14.23	11.6	31.72
ECCL3-	33	33.52	12.24	5.45	22.76	4.37	3.02	0	4.27
ECCL4-	400	53.19	19.23	12.53	39.72	47.23	18.09	9.46	35.04
EERH2-	275	69.93	25.52	14.16	50.25	62.96	24.34	11.31	45.73
EERH3-	33	52.17	18.2	12.86	38.61	5.94	4.12	0	5.82
EKIL3-	33	51.84	18.29	14.05	39.91	5.89	4.08	0	5.77
EKIS2-	275	69.87	25.91	12.62	49.26	67.06	26.32	10.34	47.56
EKIS3-	33	38.73	13.88	10.12	29.75	5.88	4.07	0	5.76
ELDE3-	33	37.24	13.88	4.87	24.5	3.03	2.1	0	2.97
ELVA0J	25	17.68	6.44	5.05	14.15	0.13	0.18	0	0.25
ELVA0K	25	17.68	6.44	5.05	14.15	0.13	0.18	0	0.25
ELVA2-	275	27.58	10.84	3.56	18.89	20.62	8.52	2.01	14.06
ERSK3-	33	22.59	8.66	1.65	13.91	1.53	1.06	0	1.5
FIFE1-	132	28.59	11.51	5.22	21.51	32.46	13.3	5.81	24.61
FIFE1B	132	34.36	13.47	4.91	23.96	38.65	15.85	5.1	27.51
GALA1-	132	18.77	8.44	0.11	12.05	19.29	8.74	0.33	12.69
GALA3-	33	25.7	9.48	0.83	14.24	2.22	1.54	0	2.18
GIFF3-	33	50.06	17.8	9.94	35.11	5.94	4.11	0	5.82

GLLE1-	132	11.86	5.25	0.52	7.94	12.64	5.68	0.58	8.61
GLLE5-	11	41.62	12.12	8.18	25.32	33.89	8.89	7.35	19.92
GLLU3-	33	18.49	7.66	0.15	10.98	3.43	2.35	0	3.33
GLNI1-	132	42.36	16.42	6.17	29.39	50.02	20.18	6.35	34.89
GLNI3-	33	29.69	10.86	6.15	21.51	4.39	3.04	0	4.31
GLRO2-	275	43.26	16.64	5.75	29.28	36.9	14.77	5.26	26.14
GLRO3-	33	37.96	13.48	8.96	28.03	5.84	4.05	0	5.72
GORG3-	33	26.69	9.6	5.05	18.63	2.99	2.07	0	2.93
GOVA3-	33	35.06	13.18	3.46	22.09	3.02	2.09	0	2.95
GRMO2-	275	50.11	18.99	9.52	36.37	44.46	17.43	8.69	33.34
GRMO3A	33	38.55	13.87	9.85	29.46	5.68	3.93	0	5.56
GRMO3C	33	38.63	13.89	9.99	29.63	5.69	3.94	0	5.57
GRNA1-	132	37.76	14.61	5.89	26.54	41.9	16.41	7.75	30.95
GRNA2-	275	40.98	15.52	6.81	28.76	37.85	14.92	6.56	27.66
HAGR3-	33	34.4	12.98	2.76	21.12	3	2.08	0	2.94
HAWI1-	132	12.17	5.97	0.01	8.46	13.05	6.17	0.08	8.8
HAWI3-	33	21.82	8.98	0.23	12.93	2.94	2.04	0	2.88
HELE1-	132	16.28	7.32	0.03	10.38	16.73	7.57	0.18	10.87
HELE3-	33	24.46	9.69	0.61	14.31	2.25	1.56	0	2.21
HUER1-	132	26.48	8.75	8.64	21.01	33.42	11.65	10.48	26.95
HUER4-	400	48.53	17.07	13.02	37.17	52.88	19.23	15.24	42.44
HUNF3-	33	36.82	13.25	6.57	25.32	3.01	2.09	0	2.95
INKE3-	33	29.23	10.95	2.11	17.59	4.37	3.03	0	4.28
INKI4-	400	41.48	15.05	9.48	30.77	33.42	12.97	5.94	24.28
INWI0J	25	10.74	3.88	3.31	8.8	0.13	0.17	0	0.24
INWI0K	25	10.74	3.88	3.31	8.8	0.13	0.17	0	0.24
INWI1Q	132	26.35	9.3	6.58	19.73	31.93	11.5	7.67	23.93
INWI1R	132	26.35	9.3	6.58	19.73	31.93	11.5	7.67	23.93
JOHN3-	33	34.55	12.75	4.32	22.36	3.01	2.08	0	2.95
KAIM2-	275	72.46	26.29	15.05	52.22	73.77	28.12	14.55	54.33
KAIM3-	33	52.03	17.88	11	36.29	5.92	4.1	0	5.79
KEOO1-	132	12.23	5.46	0.45	8.18	12.32	5.59	0.5	8.4
KEOO5-	11	36.21	11.43	5.74	21.9	27.9	7.99	4.99	16.29
KIER3-	33	34.15	12.04	5.36	22.39	4.41	3.05	0	4.31
KILB3-	33	32.82	12.03	5.25	22.26	3.02	2.09	0	2.95

KILB5-	11	28.52	10.79	4.08	19.35	9.73	2.34	0	3.32
KILS2-	275	34.68	12.66	8.95	26.85	39.25	14.67	10.39	31.14
KILS3-	33	36.65	13.1	9.48	28.01	5.84	4.04	0	5.72
KILS4-	400	38.45	14.27	7.28	27.46	37.69	14.46	7.76	28.21
KILT3-	33	48.67	17.02	9.97	34.04	5.87	4.06	0	5.74
KILW3-	33	25.49	8.91	4.48	17.08	4.33	2.99	0	4.23
KINC2-	275	66.27	24.22	17.06	51.31	60.09	22.82	15.16	47.43
LAMB2-	275	62.28	22.95	10.58	43.03	52.84	20.59	8.85	37.97
LEVE3-	33	31.22	12.25	0.93	18.25	2.98	2.06	0	2.92
LING3-	33	25.59	9.06	2.83	15.64	4.29	2.96	0	4.19
LINM2-	275	36.34	14.1	4.92	24.86	29.1	11.77	4.27	20.91
LINM3-	33	51.76	18.39	8.47	34.48	20.13	5.44	0.34	8.03
LOAN2-	275	106.18	36.71	29.08	80.99	110.21	39.84	31.94	88.28
MARM0J	25	9.54	3.61	1.61	6.71	0.15	0.21	0	0.29
MARM0K	25	9.55	3.61	1.63	6.73	0.15	0.21	0	0.29
MAYB1-	132	18.32	7.69	0.45	11.33	18.51	7.95	0.76	12
MAYB3-	33	20.69	8	1.16	12.48	1.53	1.06	0	1.49
MEAD1-	132	15.07	5.53	0.97	8.78	16.23	6.29	1.83	10.72
MOSH5J	11	61.05	23.64	5.63	39.07	5.3	2.68	0	3.79
MOSH5K	11	61.08	23.65	5.66	39.1	5.3	2.68	0	3.79
MOSM1-	132	42.15	16.29	6.77	29.8	51.62	20.53	8.5	37.54
MOSM2Q	275	54.1	20.47	8.14	37.09	47.12	18.62	7.68	34.01
MOSM3Q	33	15.7	6.04	1.83	10.38	1.16	0.8	0	1.14
MOSM3R	33	15.7	6.04	1.83	10.38	1.16	0.8	0	1.14
NEAR2Q	275	54.46	20.52	8.76	37.78	48.88	19.32	7.66	34.99
NEAR3-	33	52.29	18.57	10.36	36.62	5.95	4.12	0	5.82
NEIL1-	132	45.04	16.88	10.31	34.18	55.77	21.59	12.72	43.26
NEIL2-	275	67.94	25.08	12.72	48.19	61.55	23.81	12.58	46.25
NETS1-	132	8.1	3.76	0.1	5.41	8.85	4.1	0.14	5.94
NETS3-	33	9.91	4.34	0.25	6.38	2.16	1.45	0	2.05
PAIS3-	33	36.44	13.38	5.45	24.37	3.01	2.08	0	2.95
PART3-	33	35.07	12.89	3.64	21.87	3.01	2.08	0	2.94
POOB0J	25	18.56	6.75	5.61	15.16	0.24	0.3	0	0.42
POOB0K	25	18.56	6.75	5.61	15.16	0.24	0.3	0	0.42
POOB2Q	275	49.17	18.53	8.46	34.67	44.02	17.55	6.48	31.3

POOB2R	275	49.17	18.53	8.46	34.67	44.02	17.55	6.46	31.28
POOB3-	33	52.51	18.27	13.94	39.78	5.86	4.06	0	5.74
PORD3-	33	51.06	17.9	12.17	37.48	5.94	4.11	0	5.81
RAVE3-	33	37.64	13.72	9.52	28.92	5.89	4.08	0	5.77
REDH1-	132	29.83	12.72	0.73	18.72	32.53	14.29	1.07	21.27
REDH3-	33	35.07	13.43	2.2	21.19	2.99	2.07	0	2.93
SAC00J	25	10.27	3.75	2.85	8.16	0.34	0.38	0	0.53
SAC00K	25	10.27	3.75	2.82	8.13	0.34	0.38	0	0.54
SAC01Q	132	17.83	6.31	2.49	11.41	20.09	7.56	2.54	13.23
SAC01R	132	17.72	6.32	2.29	11.23	20.15	7.59	2.44	13.17
SAC03J	33	33.67	10.8	4.86	20.13	4.19	2.84	0	4.02
SAC03K	33	33.9	11.62	4.14	20.58	4.2	2.87	0	4.06
SANX0J	25	16.46	6.06	4.4	12.97	0.44	0.45	0	0.63
SANX0K	25	16.46	6.06	4.4	12.97	0.45	0.45	0	0.64
SANX1Q	132	21.48	8.14	3	14.51	24.19	10.12	1.97	16.27
SANX1R	132	21.49	8.14	3	14.51	24.2	10.12	1.98	16.29
SANX3-	33	30.56	11.26	4.72	20.64	3	2.08	0	2.94
SHRU3-	33	46	16.4	10.16	33.36	5.89	4.08	0	5.77
SIGH3-	33	50.67	17.66	10.65	35.63	5.88	4.07	0	5.76
SMEA2-	275	72.63	26.19	16.33	53.36	75.66	28.56	15.99	56.38
SPAV3-	33	27.45	10.15	3.6	17.96	4.34	3	0	4.24
STHA2-	275	87.16	31.39	18.55	62.95	88.78	33.81	17.86	65.67
STHA3-	33	47.23	16.83	11.34	35.14	5.94	4.12	0	5.82
STHA4-	400	51.49	18.78	11.35	37.91	43.42	16.64	9.58	33.11
STIR3-	33	30.98	10.91	4.78	20.21	4.34	3	0	4.25
STLE0J	25	10.12	3.76	2.01	7.33	0.26	0.32	0	0.45
STLE0K	25	10.12	3.76	2.01	7.33	0.26	0.32	0	0.45
STLE1-	132	19.76	8.67	0.07	12.32	20.18	9	0.43	13.16
STLE3S	33	29.12	10.78	1.24	16.48	2.96	2.05	0	2.89
TELR3-	33	30.51	11.36	3.05	19.11	3	2.08	0	2.94
TONG1-	132	10.37	4.6	0.46	6.96	13.83	6.04	0.76	9.31
TONG5-	11	74.76	26.7	6.41	44.17	48.53	14.5	6.89	27.39
TORN1-	132	26.99	9.42	7.87	21.2	33.17	11.75	10.07	26.69
TORN4-	400	53.77	19.26	14.27	41.51	57.3	21.05	16.59	46.35
WFIE1A	132	31.78	12.88	5.78	24	35.97	14.73	6.97	27.8

WFIE1B	132	39.79	15.65	5.61	27.74	44.86	18.28	6.82	32.67
WFIE2-	275	59.1	22.17	9.25	40.6	54.83	21.41	9.37	39.65
WFIE3-	33	41.59	15.57	5.32	27.34	3.02	2.09	0	2.96
WGEO3-	33	50.44	17.93	10.07	35.43	5.94	4.12	0	5.82
WHHO3-	33	46.76	16.6	10.68	34.16	5.9	4.09	0	5.78
WHTL3-	33	24.54	9.67	0.74	14.41	2.23	1.54	0	2.18
WISH0J	25	20.75	7.51	6.34	16.96	0.07	0.07	0	0.1
WISH0K	25	20.77	7.52	6.34	16.98	0.12	0.15	0	0.21
WISH1-	132	15.98	5.2	4.59	11.94	19.46	6.5	5.69	14.88
WISH2-	275	66.2	24.59	11.06	45.84	63.51	24.8	10.68	45.75
WISH3-	33	50.05	17.72	11.04	36.1	5.93	4.11	0	5.81
WIYH1-	132	43.7	15.3	9.52	31.15	53.75	19.58	12.22	39.9
WIYH2-	275	67.6	24.56	12.65	47.39	63.45	24.15	13.27	47.42
WLEE2-	275	61.16	23.53	8.14	41.42	51.62	22.92	9.52	41.93
WLEE3A	33	57.79	21.95	8.38	39.42	3.01	2.09	0	2.95
WLEE3B	33	57.79	21.95	8.38	39.42	3.01	2.09	0	2.95
WLEE3C	33	57.79	21.95	8.38	39.42	3.01	2.09	0	2.95

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Table D.2.6 - SPT Fault Levels (kA), Winter 2012/13

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
AUCH2-	275	13.12	5.32	1.55	9.08	11.97	4.94	1.52	8.5
AYR-3-	33	45.25	16.12	9.76	32.55	5.83	4.04	0	5.72
BAGA3-	33	32.26	12.08	2.84	19.92	4.41	3.05	0	4.31
BAIN1-	132	33.34	12.93	3.41	21.7	32.86	13.18	3.44	22.08
BAIN3-	33	35.56	13.1	4.62	23.15	3	2.08	0	2.94
BERW1Q	132	11.57	5.33	0.36	7.9	11.23	5.17	0.38	7.7
BERW1R	132	11.57	5.33	0.36	7.91	11.23	5.18	0.38	7.7
BERW3-	33	33.59	13.69	1.29	20.66	4.57	3.16	0	4.47
BLAK3A	33	29.69	7.89	5.24	16.39	2.26	1.56	0	2.2
BLAK3B	33	26.46	7.37	4.82	15.24	2.25	1.55	0	2.2
BONN1-	132	44.96	16.65	8.48	32.03	45.07	17.5	7.24	31.98
BONN3-	33	41.98	13.96	5.22	24.96	3.04	2.1	0	2.97
BPGR3-	33	104.25	40.75	19.55	77.18	63.23	26.85	2.04	40.01

BRAP1-	132	14.63	6.5	0.1	9.29	16.2	7.25	0.37	10.63
BRAP3-	33	23.73	9.08	1.01	13.84	4.29	2.97	0	4.2
BROX3-	33	25.92	9.22	3.1	16.14	4.29	2.97	0	4.2
BUSB2-	275	56.49	21.33	9.44	39.6	50.78	20.15	7.37	35.86
CAFA5-	11	21.9	8.46	2.4	14.36	11.62	4.43	2.06	8.32
CATY0J	25	9.96	3.67	2.79	7.98	0.33	0.37	0	0.52
CATY0K	25	9.96	3.67	2.79	7.98	0.33	0.37	0	0.52
CATY1Q	132	20.19	7.71	2.46	13.36	23.19	9.22	2.2	15.24
CATY1R	132	20.19	7.71	2.46	13.37	23.2	9.22	2.2	15.25
CATY3-	33	28.16	10.02	4.22	18.39	2.97	2.06	0	2.91
CHAP1-	132	30.6	12.4	0.89	18.43	30.82	12.9	1.54	19.78
CHAP3-	33	43.46	15.48	3.22	25.1	4.56	3.15	0	4.46
CHAS3-	33	49.7	17.45	10.32	35	5.9	4.09	0	5.78
CLYM2-	275	81.22	29.43	16.93	58.55	80.02	30.5	15.61	58.74
CLYM3-	33	48.97	17.27	11.39	35.82	5.91	4.09	0	5.79
COAL1-	132	27.48	9.97	7.47	21.57	35.25	12.9	9.83	28.08
COAL4-	400	48.51	17.78	8.63	33.78	39.24	15.32	6.7	28.37
COAT3-	33	41.29	14.31	11.84	32.08	5.86	4.06	0	5.74
COCK2-	275	80.19	28.65	20.16	60.68	88.08	32.49	23.28	69.23
COCK3-	33	49.49	17.81	11.62	36.8	5.94	4.12	0	5.83
COYL1-	132	29.76	11.48	5.63	21.86	35.87	13.96	7.33	27.07
COYL2-	275	41.57	15.62	8.88	30.98	45	17.27	9.71	34.13
COYL3-	33	37.84	13.54	4.61	23.75	3.03	2.1	0	2.97
CROO3J	33	34.06	12.79	3.53	21.61	3.01	2.09	0	2.95
CROO3K	33	31.75	11.91	3.64	20.48	3	2.08	0	2.94
CUMB3-	33	31.35	11.56	3.75	20.1	4.41	3.05	0	4.32
CUPA3-	33	29.52	11.69	0.33	16.86	2.95	2.04	0	2.89
CURR1-	132	25.83	9.05	7.9	20.69	33.07	12.07	9.66	26.74
CURR2-	275	71.93	26.41	14.25	51.59	65.73	25.6	11.81	48
CURR5-	11	33.68	12.54	5.77	23.5	6.34	3.48	0	4.92
DALL2-	275	36.01	12.71	7.25	25.22	33.06	12.42	5.76	23.32
DALM1-	132	24.03	8.64	6.86	19.08	30.68	11.24	8.89	24.79
DENN1-	132	39.84	15.21	6.81	28.32	30.92	12.97	1.78	20.12
DENN2-	275	91.08	31.55	20.8	65.41	65.31	25.21	9.44	45.09
DEVM0J	25	8.22	2.97	2.57	6.77	0.09	0.1	0	0.14

DEVM0K	25	8.22	2.97	2.57	6.77	0.09	0.1	0	0.14
DEVM1-	132	30.02	10.86	7.81	23.17	37.43	13.87	9.61	29.22
DEVM3-	33	44.93	16.89	5.08	28.96	3.03	2.1	0	2.97
DEVM4-	400	40.61	14.91	8.81	29.89	34.83	13.39	6.96	25.89
DEVO1-	132	22.67	9.68	0.69	14.37	22.08	9.53	1.28	14.76
DEVO3-	33	31.03	11.65	2.47	18.95	4.38	3.03	0	4.29
DEWP3-	33	48.27	16.74	10.69	34.37	7.64	5.28	0	7.47
DRCR3-	33	24.55	9.46	2.4	15.78	4.4	3.05	0	4.31
DRUM3-	33	49.55	17.38	11.13	35.71	5.92	4.1	0	5.8
DUMF1-	132	19.42	7.99	0.36	11.66	23.29	9.66	0.64	14.3
DUMF3-	33	44.09	15.94	1.41	23.95	4.49	3.1	0	4.39
DUMF3I	33	18.13	6.93	1.59	11.39	1.52	1.05	0	1.49
DUMF5-	11	33.95	13.24	1.64	20.36	6.89	3.48	0	4.92
DUNB3-	33	42.96	14.81	2.91	23.85	3.02	2.09	0	2.95
DUNF3-	33	30.23	11.18	3.72	19.54	4.39	3.04	0	4.3
EAST5-	11	21.83	8.39	2.58	14.45	11.59	4.41	2.11	8.34
ECCF0J	25	15.78	5.93	2.37	10.76	0.15	0.21	0	0.29
ECCF0K	25	19.18	7.26	2.43	12.69	0.15	0.21	0	0.29
ECCF1J	132	18.68	8.5	0.08	12.1	16.35	7.58	0.12	10.84
ECCF1K	132	18.65	8.49	0.08	12.09	16.34	7.58	0.12	10.84
ECCL1-	132	30.08	11.34	8.2	24.24	38.47	14.62	10.78	31.46
ECCL3-	33	34.14	12.55	5.28	23.03	4.62	3.18	0	4.5
ECCL4-	400	59.64	21.51	14.43	44.85	55.35	21.05	11.62	41.39
EERH2-	275	71.63	26.17	14.49	51.5	64.61	24.95	11.43	46.71
EERH3-	33	52.47	18.27	12.94	38.77	5.94	4.12	0	5.82
EKIL3-	33	52	18.32	14.16	40.07	5.89	4.08	0	5.78
EKIS2-	275	70.34	26.09	13.18	50.07	68.84	26.85	10.98	48.95
EKIS3-	33	45.23	16.69	9.88	33.48	5.98	4.14	0	5.86
ELDE3-	33	36.82	13.66	4.97	24.28	3.02	2.1	0	2.97
ELVA0J	25	18.56	6.57	8.82	18.1	0.13	0.18	0	0.25
ELVA0K	25	18.56	6.57	8.82	18.1	0.13	0.18	0	0.25
ELVA4-	400	42.35	15.31	7.28	28.93	40.65	15.2	8.96	30.46
ERSK3-	33	20.41	7.91	1	12.19	1.52	1.06	0	1.49
FIFE1-	132	28.94	11.7	5.25	21.79	32.66	13.4	5.85	24.81
FIFE1B	132	34.85	13.7	4.95	24.33	39.07	16.06	5.13	27.84

GALA1-	132	20.28	8.69	0.38	12.67	21.28	9.3	0.66	13.81
GALA3-	33	31.2	11.85	1.23	17.99	2.24	1.55	0	2.19
GIFF3-	33	50.14	17.8	10.05	35.22	5.94	4.11	0	5.82
GLLE1-	132	11.91	5.28	0.53	8	12.69	5.71	0.58	8.65
GLLE5-	11	42.13	12.29	8.25	25.64	34.34	9.02	7.44	20.19
GLLU3-	33	18.45	7.65	0.15	10.96	3.43	2.36	0	3.34
GLNI1-	132	43.12	16.75	6.22	29.91	51.48	20.75	6.62	35.96
GLNI3-	33	29.83	10.9	6.19	21.61	4.4	3.05	0	4.31
GLRO2-	275	45.35	17.38	5.93	30.5	37.52	15	5.28	26.5
GLRO3-	33	47.69	17.27	9.22	33.65	5.92	4.1	0	5.8
GORG3-	33	26.76	9.61	5.08	18.67	2.98	2.06	0	2.92
GOVA3-	33	33.41	12.45	3.48	21.09	3	2.08	0	2.94
GRMO2-	275	52.51	19.74	10.79	38.7	43.87	17.21	8.96	33.3
GRMO3A	33	38.89	13.96	10.13	29.87	5.68	3.93	0	5.56
GRMO3C	33	38.98	13.98	10.28	30.06	5.69	3.94	0	5.57
GRNA1-	132	40.66	15.21	7.69	29.19	49.11	18.68	10.39	36.8
GRNA4-	400	49.78	18.47	7.54	33.66	39.79	15.67	6.56	28.71
HAGR3-	33	32.91	12.3	2.8	20.2	2.99	2.07	0	2.93
HAWI1-	132	9.57	4.74	0.01	6.72	10.73	5.12	0.06	7.29
HAWI3-	33	19.59	8.21	0.13	11.74	2.92	2.02	0	2.86
HELE1-	132	16.83	7.86	0.03	11.14	17.13	7.92	0.16	11.37
HELE3-	33	24.77	9.91	0.6	14.62	2.26	1.56	0	2.21
HUER1-	132	29.58	9.56	9.07	22.59	37.18	12.7	11.03	29
HUER4-	400	55.09	19.5	14.15	41.72	58.06	21.2	16.19	46.17
HUNF3-	33	38.31	13.73	6.49	25.9	3.02	2.09	0	2.95
INKE3-	33	29.41	10.99	2.1	17.64	4.37	3.03	0	4.28
INKI4-	400	46.66	17.04	10.13	34.23	37.02	14.43	6.22	26.63
INVR2-	275	34.66	12.55	6.24	23.99	29.69	11.56	3.76	20.11
INWI0J	25	10.78	3.91	3.31	8.84	0.13	0.17	0	0.24
INWI0K	25	10.78	3.91	3.31	8.84	0.13	0.17	0	0.24
INWI1Q	132	27.88	10.09	6.68	20.95	33.57	12.31	7.75	25.17
INWI1R	132	27.88	10.09	6.68	20.95	33.57	12.31	7.75	25.17
JOHN3-	33	34.22	12.57	4.4	22.17	3	2.08	0	2.95
KAIM1-	132	14.7	5.41	4.15	11.79	18	6.62	5.38	14.74
KAIM2-	275	77.89	28.36	16.17	56.28	79.85	30.45	15.67	58.74

KAIM3-	33	52.47	18	11.15	36.61	5.92	4.1	0	5.79
KEOO1-	132	12.29	5.51	0.46	8.25	12.43	5.64	0.52	8.5
KEOO5-	11	36.42	11.52	5.76	22.06	28.08	8.06	5.01	16.41
KIER3-	33	34.41	12.2	5.39	22.64	4.41	3.05	0	4.32
KILB3-	33	32.99	12.18	5.29	22.51	3.02	2.09	0	2.96
KILB5-	11	28.65	10.85	4.1	19.45	9.75	2.35	0	3.32
KILS2-	275	45.86	16.96	11.11	35.1	51.51	19.42	12.82	40.29
KILS3-	33	37.7	13.5	9.87	28.96	5.85	4.06	0	5.74
KILS4-	400	47.79	17.79	8.75	33.91	45.52	17.49	9.33	34.07
KILT3-	33	50.46	17.68	10.38	35.38	5.88	4.08	0	5.76
KILW3-	33	26.16	9.13	4.47	17.38	4.34	3	0	4.24
KINC2-	275	68.92	25.05	17.9	53.32	62.9	23.83	15.55	49.25
LAMB2-	275	67.08	24.2	12.18	46.41	58.64	22.56	10.07	41.98
LEVE3-	33	31.38	12.3	0.91	18.31	2.98	2.06	0	2.92
LING3-	33	25.76	9.09	2.82	15.68	4.29	2.96	0	4.19
LINM3-	33	37.96	13.28	6.16	24.95	19.7	6.79	0.37	9.98
LOAN2-	275	117.14	39.87	31.54	87.93	119.84	42.85	33.94	94.54
MARM0J	25	9.64	3.63	1.78	6.92	0.15	0.21	0	0.29
MARM0K	25	9.64	3.63	1.78	6.92	0.15	0.21	0	0.29
MAYB1-	132	18.67	7.89	0.43	11.58	19.5	8.43	0.68	12.6
MAYB3-	33	20.76	8.07	1.14	12.56	1.53	1.06	0	1.5
MEAD1-	132	15.98	5.85	0.86	9.13	17.78	6.89	1.61	11.35
MOFF1-	132	45.26	15.62	10.71	32.8	54.37	19.22	12.65	39.84
MOFF4-	400	40.72	14.93	6.63	27.74	36.21	13.88	7	26.62
MOSH5J	11	61.17	23.7	5.63	39.14	5.3	2.68	0	3.79
MOSH5K	11	61.2	23.7	5.67	39.19	5.3	2.68	0	3.79
MOSM1-	132	42.93	16.62	6.83	30.34	52.87	21.03	8.66	38.4
MOSM2Q	275	56.47	21.29	8.27	38.39	50.19	19.72	8.06	35.94
MOSM3Q	33	15.73	6.05	1.83	10.39	1.16	0.8	0	1.14
MOSM3R	33	15.73	6.05	1.83	10.39	1.16	0.8	0	1.14
NEAR2Q	275	55.32	20.9	8.81	38.36	48.63	19.32	7.02	34.34
NEAR3-	33	52.52	18.62	10.41	36.74	5.95	4.12	0	5.83
NEIL1-	132	42.61	15.7	10.74	32.95	54.05	20.56	13.33	42.41
NEIL2-	275	65.33	24.13	13.53	47.66	63.47	24.35	13.46	47.89
NETS1-	132	8.12	3.77	0.1	5.43	9.06	4.19	0.15	6.07

NETS3-	33	9.92	4.34	0.25	6.39	2.16	1.45	0	2.05
PAIS3-	33	35.37	12.9	5.5	23.74	3	2.08	0	2.94
PART3-	33	35.29	13.07	3.67	22.15	3.01	2.08	0	2.94
POOB0J	25	18.59	6.77	5.63	15.2	0.24	0.3	0	0.42
POOB0K	25	18.59	6.77	5.63	15.2	0.24	0.3	0	0.42
POOB2Q	275	51.85	19.65	8.71	36.49	46.31	18.52	6.69	32.88
POOB2R	275	51.85	19.65	8.71	36.49	46.31	18.52	6.69	32.88
POOB3-	33	53.55	18.61	14.26	40.57	5.94	4.11	0	5.82
PORD3-	33	51.54	18	12.54	37.99	5.94	4.11	0	5.82
RAVE3-	33	37.68	13.74	9.55	28.99	5.89	4.09	0	5.78
REDH1-	132	30.21	12.93	0.71	19	32.82	14.45	1.05	21.49
REDH3-	33	35.26	13.49	2.18	21.26	2.99	2.07	0	2.93
SACO0J	25	10.35	3.78	2.86	8.21	0.34	0.38	0	0.53
SACO0K	25	10.35	3.78	2.83	8.18	0.34	0.38	0	0.54
SACO1Q	132	19.13	6.72	2.36	11.86	21.23	7.96	2.42	13.67
SACO1R	132	19	6.74	2.15	11.68	21.29	7.99	2.32	13.62
SACO3J	33	34.66	11.1	4.81	20.51	4.2	2.85	0	4.03
SACO3K	33	35.03	11.98	4.06	21.01	4.21	2.88	0	4.07
SANX0J	25	16.43	6.05	4.4	12.96	0.44	0.45	0	0.63
SANX0K	25	16.43	6.05	4.4	12.96	0.45	0.45	0	0.64
SANX1Q	132	21.32	8.07	3.02	14.42	24.07	10.05	1.98	16.2
SANX1R	132	21.32	8.07	3.02	14.42	24.08	10.05	1.99	16.21
SANX3-	33	30.5	11.22	4.73	20.6	3	2.08	0	2.94
SHRU3-	33	46.36	16.51	10.26	33.62	5.89	4.08	0	5.77
SIGH3-	33	51.16	17.79	10.83	35.99	5.88	4.07	0	5.76
SMEA2-	275	78.61	28.5	17.85	58.15	83.33	31.44	18.33	62.8
SPAV3-	33	27.26	9.94	3.56	17.62	4.34	3.01	0	4.25
STHA2-	275	87.78	31.62	19.66	64.37	91.73	34.64	19.57	68.57
STHA3-	33	47.36	16.85	11.45	35.29	5.95	4.12	0	5.83
STHA4-	400	66.18	23.93	13.51	47.35	58.89	22.52	11.67	43.52
STIR3-	33	31.58	11.04	5.23	20.85	4.35	3.01	0	4.25
STLE0J	25	10.17	3.79	2.06	7.42	0.26	0.32	0	0.45
STLE0K	25	10.17	3.79	2.06	7.42	0.26	0.32	0	0.45
STLE1-	132	20.87	9.45	0.07	13.43	21.03	9.54	0.47	13.96
STLE3S	33	32.66	12.56	1.13	18.89	2.96	2.05	0	2.9

TELR3-	33	30.63	11.38	3.06	19.16	3	2.08	0	2.94
TONG1-	132	10.31	4.56	0.47	6.92	13.5	5.87	0.8	9.1
TONG5-	11	74.63	26.67	6.45	44.17	48.67	14.57	6.92	27.52
TORN1-	132	28.57	10.22	8.08	22.53	34.91	12.59	10.3	28.11
TORN4-	400	60.42	21.71	15.94	46.65	65.55	24.15	18.43	52.57
WFIE1A	132	32.24	13.12	5.84	24.4	36.23	14.86	7.05	28.07
WFIE1B	132	40.48	15.97	5.65	28.22	45.46	18.57	6.86	33.13
WFIE2-	275	62.1	23.16	9.46	42.22	56.59	22.02	9.51	40.66
WFIE3-	33	41.81	15.64	5.32	27.44	3.02	2.09	0	2.96
WGEO3-	33	50.9	18.03	10.35	35.85	5.94	4.12	0	5.82
WHHO3-	33	47.12	16.71	10.79	34.42	5.9	4.09	0	5.78
WHTL3-	33	25.14	10.01	0.81	14.96	2.23	1.55	0	2.19
WISH0J	25	20.76	7.52	6.35	16.99	0.07	0.07	0	0.1
WISH0K	25	20.77	7.53	6.35	17	0.12	0.15	0	0.21
WISH1-	132	15.94	5.18	4.58	11.9	19.41	6.47	5.69	14.84
WISH2-	275	67.67	25.18	11.55	47.17	66.29	25.77	11.56	48.01
WISH3-	33	50.26	17.77	11.12	36.25	5.93	4.11	0	5.81
WIYH1-	132	44.67	16.25	9.95	32.94	55.1	20.65	12.74	41.95
WIYH2-	275	68.86	24.54	13.98	48.67	68.01	25.33	14.79	50.61
WLEE2-	275	61.48	23.67	8.24	41.72	52.21	23.28	9.63	42.55
WLEE3A	33	57.69	21.92	8.4	39.4	3.01	2.08	0	2.95
WLEE3B	33	57.69	21.92	8.4	39.4	3.01	2.08	0	2.95
WLEE3C	33	57.69	21.92	8.4	39.4	3.01	2.08	0	2.95

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Table D.2.7 - SPT Fault Levels (kA), Winter 2013/14

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
AUCH2-	275	13.07	5.3	1.54	9.04	12.02	4.95	1.53	8.53
AYR-3-	33	45.55	16.22	9.82	32.75	5.88	4.07	0	5.76
BAGA3-	33	32.14	12.02	2.82	19.83	4.41	3.05	0	4.31
BAIN1-	132	32.31	12.51	3.34	21.03	32.19	12.9	3.39	21.64
BAIN3-	33	35.32	13.01	4.58	22.98	3	2.08	0	2.94
BERW1Q	132	11.51	5.3	0.37	7.86	11.2	5.15	0.38	7.67
BERW1R	132	11.51	5.3	0.37	7.86	11.2	5.16	0.38	7.68
BERW3-	33	33.53	13.66	1.3	20.61	4.57	3.16	0	4.47
BLAK3A	33	29.56	7.83	5.27	16.34	2.25	1.55	0	2.2
BLAK3B	33	26.34	7.31	4.85	15.2	2.25	1.55	0	2.19
BONN1-	132	43.06	15.94	8.03	30.57	43.78	17	7.01	31.06
BONN3-	33	41.7	13.85	5.15	24.74	3.04	2.1	0	2.97
BPGR3-	33	104.05	40.68	19.36	76.89	63.2	26.84	2.03	39.98

BRAP1-	132	14.49	6.41	0.11	9.18	16.08	7.18	0.38	10.54
BRAP3-	33	23.71	9.05	1.03	13.83	4.29	2.97	0	4.2
BROX3-	33	25.75	9.14	3.11	16.03	4.29	2.96	0	4.19
BUSB2-	275	55.73	21.05	9.18	38.95	50.11	19.89	7.21	35.34
CAFA5-	11	22.74	8.72	2.6	14.93	11.81	4.48	2.15	8.49
CATY0J	25	9.93	3.66	2.78	7.95	0.33	0.37	0	0.52
CATY0K	25	9.93	3.66	2.78	7.95	0.33	0.37	0	0.52
CATY1Q	132	19.35	7.36	2.46	12.87	22.43	8.89	2.22	14.8
CATY1R	132	19.35	7.36	2.46	12.87	22.44	8.89	2.23	14.81
CATY3-	33	27.84	9.89	4.2	18.18	2.97	2.06	0	2.91
CHAP1-	132	33.52	13.07	2.43	20.91	34.45	14.04	2.65	22.51
CHAP3-	33	44.23	15.62	4.62	26.7	4.54	3.14	0	4.44
CHAS3-	33	49.6	17.41	10.2	34.82	5.9	4.09	0	5.78
CLYM2-	275	80.31	29.08	17.1	58.23	79.2	30.18	15.69	58.37
CLYM3-	33	48.9	17.24	11.3	35.68	5.91	4.09	0	5.79
COAL1-	132	26.5	9.61	7.13	20.72	34.16	12.51	9.44	27.13
COAL4-	400	48.1	17.66	8.74	33.71	38.92	15.2	6.72	28.21
COAT3-	33	40.94	14.18	11.68	31.74	5.82	4.03	0	5.7
COCK2-	275	79.34	28.36	19.75	59.85	87.25	32.21	22.83	68.38
COCK3-	33	49.44	17.78	11.56	36.7	5.95	4.12	0	5.83
COYL1-	132	36.59	14.1	6.64	26.58	44.4	17.2	9.04	33.36
COYL2-	275	42.64	16.01	8.99	31.62	45.82	17.56	9.84	34.67
COYL3-	33	39.81	14.23	4.84	24.97	3.04	2.11	0	2.98
CROO3J	33	33.99	12.77	3.55	21.6	3.01	2.09	0	2.95
CROO3K	33	31.69	11.89	3.66	20.47	3	2.08	0	2.94
CUMB3-	33	31.22	11.5	3.72	19.98	4.41	3.05	0	4.32
CUPA3-	33	29.46	11.64	0.34	16.8	2.95	2.04	0	2.89
CURR1-	132	24.73	8.65	7.54	19.76	31.83	11.62	9.32	25.75
CURR2-	275	70.98	26.06	13.87	50.73	66.92	25.97	11.96	48.69
CURR5-	11	33.57	12.49	5.76	23.42	6.34	3.48	0	4.92
DALL2-	275	35.41	12.49	7.15	24.82	32.54	12.22	5.69	22.97
DALM1-	132	22.83	8.21	6.51	18.11	29.31	10.74	8.49	23.68
DENN1-	132	38.22	14.58	6.45	27.07	30.28	12.69	1.79	19.73
DENN2-	275	89.7	31.11	20.21	64.2	64.1	24.78	9.23	44.27
DEVM0J	25	8.21	2.97	2.56	6.76	0.09	0.1	0	0.14

DEVM0K	25	8.21	2.97	2.56	6.76	0.09	0.1	0	0.14
DEVM1-	132	29.23	10.58	7.56	22.52	36.56	13.55	9.33	28.5
DEVM3-	33	44.73	16.8	5.05	28.81	3.03	2.1	0	2.97
DEVM4-	400	40.22	14.78	8.73	29.63	34.48	13.26	6.92	25.67
DEVO1-	132	22.38	9.52	0.7	14.17	21.9	9.44	1.28	14.64
DEVO3-	33	30.99	11.62	2.46	18.89	4.38	3.03	0	4.29
DEWP3-	33	48.77	16.9	10.72	34.61	7.75	5.36	0	7.58
DRCR3-	33	24.44	9.41	2.39	15.71	4.4	3.05	0	4.31
DRUM3-	33	49.42	17.32	11.03	35.53	5.93	4.1	0	5.8
DUMF1-	132	22.71	9.15	0.63	13.57	26.77	10.93	1	16.46
DUMF3-	33	47.72	17.04	2.22	26.32	4.55	3.14	0	4.45
DUMF3I	33	18.8	7.13	1.97	12.06	1.53	1.06	0	1.49
DUMF5-	11	34.69	13.47	1.86	20.91	6.91	3.49	0	4.93
DUNB3-	33	42.88	14.77	2.92	23.81	3.02	2.09	0	2.95
DUNF3-	33	30.1	11.13	3.69	19.44	4.39	3.04	0	4.3
EAST5-	11	22.92	8.72	2.95	15.29	11.82	4.48	2.24	8.57
ECCF0J	25	15.95	5.96	2.69	11.12	0.15	0.21	0	0.29
ECCF0K	25	19.43	7.31	2.83	13.16	0.15	0.21	0	0.29
ECCF1J	132	19.82	8.85	0.16	12.68	17.4	8	0.15	11.48
ECCF1K	132	19.78	8.84	0.16	12.66	17.38	8	0.15	11.47
ECCL1-	132	29.54	11.14	7.97	23.73	37.84	14.39	10.54	30.89
ECCL3-	33	34.05	12.51	5.26	22.95	4.62	3.18	0	4.5
ECCL4-	400	59.1	21.32	13.97	44.12	54.82	20.85	11.46	40.95
EERH2-	275	70.66	25.8	14.56	51.05	63.77	24.62	11.42	46.24
EERH3-	33	52.36	18.22	12.88	38.64	5.94	4.12	0	5.82
EKIL3-	33	51.86	18.27	14.04	39.87	5.89	4.08	0	5.78
EKIS2-	275	69.5	25.83	13.1	49.63	68.12	26.63	10.91	48.57
EKIS3-	33	45.16	16.66	9.83	33.39	5.97	4.14	0	5.86
ELDE3-	33	36.71	13.63	4.95	24.22	3.03	2.1	0	2.97
ELVA0J	25	18.59	6.58	8.82	18.12	0.13	0.18	0	0.25
ELVA0K	25	18.59	6.58	8.82	18.12	0.13	0.18	0	0.25
ELVA4-	400	42.08	15.19	7.25	28.74	40.36	15.09	8.89	30.23
ERSK3-	33	20.38	7.89	1.01	12.17	1.52	1.06	0	1.49
FIFE1-	132	28.33	11.44	5.06	21.24	32.04	13.15	5.68	24.28
FIFE1B	132	33.99	13.34	4.82	23.69	38.26	15.72	5.03	27.26

GALA1-	132	20.14	8.61	0.39	12.56	21.18	9.24	0.67	13.73
GALA3-	33	31.17	11.83	1.23	17.96	2.24	1.55	0	2.19
GIFF3-	33	50	17.74	9.91	35	5.94	4.11	0	5.82
GLLE1-	132	24.33	9.96	1.27	15.36	26.59	11.08	1.39	17.06
GLLE5-	11	43.58	12.69	9.41	27.36	35.03	9.17	8.02	20.99
GLLU3-	33	22.89	9.3	0.32	13.47	3.51	2.42	0	3.43
GLNI1-	132	41.7	16.18	6.02	28.91	50.06	20.17	6.5	35.03
GLNI3-	33	29.7	10.85	6.11	21.46	4.39	3.04	0	4.3
GLRO2-	275	44.56	17.08	5.82	29.97	36.96	14.77	5.28	26.17
GLRO3-	33	47.57	17.22	9.13	33.49	5.92	4.1	0	5.8
GORG3-	33	26.56	9.52	5.06	18.52	2.99	2.07	0	2.93
GOVA3-	33	33.29	12.41	3.5	21.05	2.98	2.07	0	2.92
GRMO2-	275	51.66	19.42	10.51	37.97	43.49	17.05	8.9	33.02
GRMO3A	33	38.8	13.93	10.06	29.76	5.68	3.93	0	5.56
GRMO3C	33	38.89	13.95	10.21	29.94	5.69	3.94	0	5.57
GRNA1-	132	41.82	15.72	7.33	29.56	50.45	19.25	9.98	37.2
GRNA4-	400	49.68	18.43	7.53	33.6	39.7	15.62	6.61	28.7
HAGR3-	33	32.87	12.29	2.82	20.2	2.99	2.07	0	2.93
HAWI1-	132	9.67	4.81	0.01	6.81	10.81	5.17	0.05	7.36
HAWI3-	33	19.75	8.28	0.13	11.84	2.92	2.02	0	2.86
HELE1-	132	16.62	7.7	0.03	10.92	16.97	7.81	0.17	11.22
HELE3-	33	24.69	9.86	0.61	14.55	2.26	1.56	0	2.21
HUER1-	132	29.46	9.51	8.98	22.44	37.05	12.65	10.93	28.82
HUER4-	400	54.66	19.41	13.78	41.23	57.33	21	15.73	45.43
HUNF3-	33	38.2	13.67	6.48	25.81	3.02	2.09	0	2.96
INKE3-	33	29.31	10.94	2.09	17.57	4.37	3.03	0	4.28
INKI4-	400	46.28	16.92	10.05	33.99	36.68	14.3	6.16	26.38
INVR2-	275	34.02	12.31	6.14	23.55	29.16	11.36	3.69	19.75
INWI0J	25	10.78	3.91	3.31	8.83	0.13	0.17	0	0.24
INWI0K	25	10.78	3.91	3.31	8.83	0.13	0.17	0	0.24
INWI1Q	132	27.52	9.95	6.61	20.68	33.18	12.17	7.7	24.9
INWI1R	132	27.52	9.95	6.61	20.68	33.18	12.17	7.7	24.9
JOHN3-	33	34.15	12.55	4.4	22.14	3.01	2.08	0	2.95
KAIM1-	132	14	5.15	3.94	11.23	17.27	6.36	5.15	14.14
KAIM2-	275	76.99	28.03	15.99	55.64	80.68	30.66	16.29	59.65

KAIM3-	33	52.39	17.96	11.11	36.51	5.92	4.1	0	5.8
KEOO1-	132	20.44	8.76	0.54	12.92	19.33	8.54	0.52	12.6
KEOO5-	11	37.48	11.82	6.35	23.07	28.55	8.17	5.29	16.84
KIER3-	33	34.21	12.11	5.35	22.48	4.41	3.05	0	4.32
KILB3-	33	32.75	12.08	5.24	22.32	3.02	2.09	0	2.96
KILB5-	11	28.61	10.83	4.09	19.41	9.75	2.35	0	3.32
KILS2-	275	46.6	17.25	11.1	35.49	52.1	19.65	12.85	40.64
KILS3-	33	37.9	13.57	9.87	29.06	5.89	4.08	0	5.77
KILS4-	400	47.83	17.83	8.79	34.01	45.41	17.46	9.27	33.96
KILT3-	33	50.75	17.77	10.39	35.52	5.92	4.1	0	5.8
KILW3-	33	26.09	9.1	4.44	17.3	4.34	3	0	4.24
KINC2-	275	67.71	24.63	17.6	52.44	61.86	23.45	15.34	48.5
LAMB2-	275	65.84	23.78	12.03	45.66	57.76	22.23	9.92	41.35
LEVE3-	33	31.29	12.25	0.92	18.24	2.98	2.06	0	2.92
LING3-	33	25.61	9.01	2.84	15.59	4.28	2.96	0	4.18
LINM3-	33	38.12	13.32	6.07	24.91	20.14	6.95	0.39	10.22
LOAN2-	275	115.7	39.43	30.74	86.5	118.26	42.34	33.09	92.97
MARM0J	25	9.64	3.63	1.78	6.91	0.15	0.21	0	0.29
MARM0K	25	9.64	3.63	1.78	6.91	0.15	0.21	0	0.29
MAYB1-	132	20.86	8.92	0.43	13.05	21.24	9.27	0.7	13.81
MAYB3-	33	21.47	8.34	1.22	13.02	1.54	1.06	0	1.51
MEAD1-	132	15.9	5.82	0.85	9.08	17.69	6.85	1.6	11.29
MOFF1-	132	44.01	15.19	10.44	31.92	53.03	18.74	12.37	38.88
MOFF4-	400	40.45	14.82	6.69	27.65	36.08	13.81	7.07	26.6
MOSH5J	11	60.96	23.61	5.61	39	5.3	2.68	0	3.79
MOSH5K	11	60.99	23.62	5.63	39.04	5.3	2.68	0	3.79
MOSM1-	132	41.47	16.05	6.55	29.24	51.29	20.42	8.34	37.21
MOSM2Q	275	55.55	20.95	8.02	37.64	49.37	19.39	7.9	35.33
MOSM3Q	33	15.68	6.04	1.82	10.36	1.16	0.8	0	1.14
MOSM3R	33	15.68	6.04	1.82	10.36	1.16	0.8	0	1.14
NEAR2Q	275	54.48	20.57	8.68	37.78	47.96	19.05	6.95	33.89
NEAR3-	33	52.38	18.56	10.31	36.57	5.95	4.12	0	5.83
NEIL1-	132	41.39	15.36	10.43	32.14	52.68	20.16	12.99	41.49
NEIL2-	275	64.6	23.91	13.23	47.04	62.61	24.06	13.14	47.17
NETS1-	132	12.8	5.89	0.1	8.43	13.2	6.12	0.14	8.79

NETS3-	33	11.11	4.82	0.34	7.17	2.2	1.49	0	2.1
PAIS3-	33	35.29	12.88	5.5	23.71	3.01	2.08	0	2.95
PART3-	33	35.05	12.95	3.66	21.98	3.01	2.08	0	2.94
POOB0J	25	18.58	6.76	5.62	15.18	0.24	0.3	0	0.42
POOB0K	25	18.58	6.76	5.62	15.18	0.24	0.3	0	0.42
POOB2Q	275	51.15	19.38	8.59	36.01	45.75	18.3	6.61	32.49
POOB2R	275	51.15	19.38	8.59	36.01	45.73	18.3	6.61	32.49
POOB3-	33	53.32	18.52	14.11	40.3	5.92	4.1	0	5.8
PORD3-	33	51.38	17.93	12.37	37.73	5.94	4.11	0	5.82
RAVE3-	33	37.6	13.71	9.47	28.86	5.9	4.09	0	5.78
REDH1-	132	29.65	12.64	0.74	18.61	32.37	14.22	1.07	21.18
REDH3-	33	35.13	13.43	2.19	21.18	2.99	2.08	0	2.93
SACO0J	25	10.35	3.78	2.86	8.2	0.34	0.38	0	0.53
SACO0K	25	10.35	3.78	2.82	8.17	0.34	0.38	0	0.54
SACO1Q	132	19.06	6.69	2.34	11.8	21.17	7.93	2.41	13.63
SACO1R	132	18.93	6.71	2.13	11.62	21.23	7.96	2.31	13.57
SACO3J	33	34.57	11.06	4.78	20.42	4.2	2.85	0	4.03
SACO3K	33	34.93	11.93	4.04	20.92	4.21	2.88	0	4.07
SANX0J	25	16.34	6.01	4.37	12.88	0.44	0.45	0	0.63
SANX0K	25	16.34	6.02	4.37	12.88	0.45	0.45	0	0.64
SANX1Q	132	20.38	7.68	2.99	13.85	23.24	9.66	1.99	15.65
SANX1R	132	20.38	7.68	2.99	13.86	23.25	9.66	2.01	15.66
SANX3-	33	30.08	11.05	4.7	20.33	3	2.08	0	2.94
SHRU3-	33	46.28	16.48	10.2	33.5	5.89	4.08	0	5.77
SIGH3-	33	51.09	17.75	10.77	35.87	5.88	4.07	0	5.76
SMEA2-	275	77.73	28.18	17.66	57.52	82.43	31.13	18.07	62.09
SPAV3-	33	27.18	9.9	3.57	17.57	4.33	3	0	4.25
STHA2-	275	86.81	31.31	19.46	63.75	90.77	34.35	19.29	67.86
STHA3-	33	47.3	16.83	11.4	35.2	5.95	4.12	0	5.83
STHA4-	400	65.73	23.81	13.79	47.46	58.45	22.35	11.69	43.3
STIR3-	33	31.49	11	5.18	20.74	4.35	3.01	0	4.25
STLE0J	25	10.16	3.78	2.06	7.41	0.27	0.32	0	0.45
STLE0K	25	10.16	3.78	2.06	7.41	0.27	0.32	0	0.45
STLE1-	132	20.54	9.22	0.08	13.12	20.81	9.39	0.49	13.76
STLE3S	33	32.56	12.5	1.14	18.81	2.97	2.05	0	2.91

TELR3-	33	30.32	11.24	3.08	18.98	3	2.08	0	2.94
TONG1-	132	14.17	5.86	0.66	8.95	13.09	5.45	0.91	8.61
TONG5-	11	82.64	28.77	8.5	49.19	51.14	15.06	8.17	29.46
TORN1-	132	28.18	10.08	7.94	22.19	34.47	12.44	10.13	27.72
TORN4-	400	59.79	21.54	15.45	45.92	64.68	23.89	17.93	51.71
WFIE1A	132	31.45	12.78	5.61	23.69	35.43	14.54	6.8	27.37
WFIE1B	132	39.28	15.46	5.45	27.32	44.32	18.1	6.63	32.24
WFIE2-	275	61.07	22.8	9.16	41.41	55.71	21.69	9.31	39.98
WFIE3-	33	41.62	15.56	5.3	27.3	3.02	2.09	0	2.96
WGEO3-	33	50.72	17.96	10.22	35.62	5.94	4.12	0	5.82
WHHO3-	33	47.07	16.68	10.71	34.31	5.9	4.09	0	5.78
WHTL3-	33	24.9	9.91	0.74	14.76	2.23	1.55	0	2.19
WISH0J	25	20.75	7.51	6.34	16.96	0.07	0.07	0	0.1
WISH0K	25	20.76	7.52	6.34	16.98	0.12	0.15	0	0.21
WISH1-	132	15.23	4.93	4.38	11.35	18.65	6.19	5.46	14.22
WISH2-	275	66.81	24.85	11.22	46.37	65.61	25.5	11.33	47.4
WISH3-	33	50.18	17.73	11.05	36.12	5.93	4.11	0	5.82
WIYH1-	132	42.61	15.46	9.39	31.26	52.88	19.8	12.08	40.08
WIYH2-	275	67.71	24.14	13.76	47.89	66.95	24.94	14.54	49.81
WLEE2-	275	60.76	23.42	8.15	41.27	51.92	23.07	9.77	42.4
WLEE3A	33	57.69	21.92	8.35	39.35	3.01	2.09	0	2.96
WLEE3B	33	57.69	21.92	8.35	39.35	3.01	2.09	0	2.96
WLEE3C	33	57.69	21.92	8.35	39.35	3.01	2.09	0	2.96

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Table D.3.1a - NGET Forecast Short-Circuit Currents at 400kV and 275kV Nodes for 2007/08 (kA)

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABHA4A	400	37.16	13.34	7.08	25.94	34.5	13.34	6.08	24.94
ABHA4B	400	37.13	13.33	7.07	25.92	34.48	13.33	6.08	24.93
ABTH20	275	85.37	30.11	21.99	64.57	92.96	34.68	25.43	74.47
ALDW20	275	62.21	22.74	10.13	42.29	60.12	23.69	10.11	43.61
ALVE4A	400	25.74	9.64	4.25	17.89	21.35	8.49	3.13	15.13
ALVE4B	400	25.84	9.68	4.25	17.94	21.57	8.58	3.14	15.27
AMEM4A	400	54.13	20.32	10.72	39.46	43.85	17.39	7.17	31.77
AMEM4B	400	50.4	19.18	9.25	36.37	40.67	16.22	6.57	29.5
AXMI40	400	40.77	14.65	8.73	29.44	33.77	13.1	6.35	24.88
BAGB20	275	54.34	20.13	11.57	40.04	51.98	20.2	11.43	39.99
BARK21	275	73.68	26.54	21.02	58.56	75.24	28.49	19.53	59.81
BARK22	275	75.41	27.18	22.01	60.45	78.35	29.62	20.62	62.51

BARK40	400	108.33	38.15	27.65	81.6	96.27	37.41	20.05	72.95
BARP21	275	65.81	23.91	17.67	51.48	64.36	24.67	14.58	49.47
BARP22	275	67.96	24.66	18.82	53.7	67.92	25.96	15.81	52.53
BEDD21	275	54.96	20.32	12.59	41.32	57.37	22.16	12.72	44.06
BEDD22	275	82.06	29.37	18.74	60.27	83.4	32.36	17.26	63.02
BEDD4A	400	63.25	23.38	13.25	46.31	51.17	20.45	11.26	40.18
BEDD4B	400	11.15	4.03	4.03	9.74	11.25	4.12	4.06	9.88
BESW20	275	63.87	22.86	11.81	44.14	57.05	22.33	9.68	41.26
BIRK20	275	51.85	17.99	16.01	41.45	54.05	20.23	13.76	42.37
BISW20	275	69.44	24.87	12.62	47.79	65.06	25.63	10.39	46.64
BLYT21	275	62.21	22.74	9.39	41.55	56.42	22.22	8.8	40.22
BLYT22	275	52.82	19.95	7.22	35.44	43.99	17.67	5.78	30.78
BOLN40	400	64.53	23.39	13.35	46.43	53.09	20.73	10.45	39.76
BOTW40	400	75.17	26.27	16.78	53.93	68.45	26.26	13.29	50.43
BRAI4A	400	61.72	22.71	13.72	45.84	46.88	18.36	8.32	34.29
BRAI4B	400	65.16	24.07	14.41	48.44	47.67	18.71	8.39	34.85
BRAW20	275	72.49	26.07	16.74	53.61	70.91	27.31	14.58	53.2
BRAW4A	400	38.69	14.29	9.39	29.59	33.98	13	7.99	26.38
BRED20	275	70.08	25.6	14.3	50.51	68.45	26.6	12.46	50.08
BRFO40	400	64.09	23.15	14.72	47.45	56.77	21.86	11.4	42.31
BRIM2A	275	86.49	31.54	21.32	65.92	81.02	31.47	16.68	61.18
BRIM2B	275	84.36	30.87	20	63.66	80.08	31.59	16.39	61.06
BRIM2C	275	86.57	31.6	21.47	66.16	80.78	31.45	16.26	60.74
BRIM2D	275	82.47	30.31	19.03	61.89	77.19	30.64	14.69	58.02
BRIN21	275	66.03	23.75	14.8	48.38	71.1	27.68	13.91	53.05
BRIN22	275	70.55	25.46	18.11	54.11	73.53	28.18	17.6	57.45
BRIN2M	275	27.64	9.95	10.34	24.41	28.46	10.46	9.75	24.54
BRIN40	400	75.13	27.41	17.31	56.07	56.11	21.73	12.52	43.25
BRLE40	400	120.06	41.85	27.71	86.9	101.87	39.28	20.35	75.9
BRWA2A	275	19.72	7.23	5.39	15.61	19.83	7.55	4.78	15.46
BRWA2B	275	19.68	7.2	5.43	15.61	19.66	7.48	4.82	15.39
BRWA2C	275	19.66	7.2	5.38	15.57	19.76	7.52	4.78	15.42
BURW40	400	94	33.82	23.78	71.61	61.29	24.46	10.45	45.04
BUSH20	275	64.11	23.03	12.91	45.48	61.61	24.02	10.55	44.52
BUST21	275	71.4	25.33	15.92	51.74	65.05	25.97	12.05	48.78

BUST22	275	70.21	24.93	15.63	50.88	62.32	25.32	10.55	46.35
CANT40	400	91.38	33.39	18.55	65.77	70.18	28.18	10.68	50.53
CAPE21	275	54.55	18.91	18.38	45.12	59.93	22.03	18.3	49.45
CAPE22	275	35.13	12.51	12.91	30.6	38.72	14.17	13.11	33.14
CAPE4A	400	97.01	33.89	25.21	73.14	83.76	31.79	18.49	63.44
CAPE4B	400	103.53	35.77	28.13	78.71	90.43	34.15	20.61	68.9
CARE20	275	47.71	17.95	8.43	33.82	42.1	16.68	7.71	31.3
CARR20	275	81.12	28.92	22.17	63.07	86.31	32.57	20.99	67.05
CARR4A	400	115.63	41.6	21.84	80.67	87.89	34.78	14.73	63.92
CARR4B	400	114.85	41.43	21.16	79.76	88.58	35.05	14.74	64.31
CARR4H	400	119.77	42.95	22.9	83.65	89.94	35.7	14.04	64.52
CELL40	400	94.96	34.63	16.73	65.71	75.05	29.61	13.31	55.19
CHIC41	400	38.47	13.96	8.31	28.05	30.88	12.03	5.74	22.76
CHIC42	400	38.18	13.84	8.29	27.86	29.47	11.53	5.28	21.58
CHSI20	275	86.48	31.23	18.04	62.21	76.75	30.28	13.02	55.85
CHTE20	275	71.64	25.32	18.16	53.96	62.71	24.15	13.39	47.55
CILF2A	275	48.5	17.81	13.41	38.59	43.8	16.7	11.45	35.07
CILF2B	275	48.46	17.78	13.4	38.54	48.24	18.39	12.19	38.21
CILF40	400	77.4	27.66	18.37	57.49	65.81	25.36	13.04	48.9
CITR41	400	98.65	34.54	25.46	74.31	105.03	40.22	21.78	78.66
CITR42	400	98.57	34.52	25.43	74.24	104.85	40.19	21.59	78.42
CLEV4A	400	91.37	33.34	19.12	66.28	69.02	27.72	9.24	48.44
COSO40	400	97.89	35.13	23.61	73.29	86.17	32.91	20.8	67.35
COTT40	400	120.78	42.58	32.27	92.49	115.97	43.06	33.59	94.48
COVE20	275	64.12	22.83	12.8	45.09	60.52	23.33	11.53	44.52
COVE2A	275	63.47	22.6	12.79	44.75	59.94	23.08	11.53	44.17
COWB2A	275	65.8	24.11	13.4	47.49	58.91	23.26	8.98	41.87
COWL40	400	132.36	46.41	34.63	100.27	113.93	43.38	24.9	86.25
CREB2A	275	76.45	27.29	25.38	63.98	75.6	28.14	21.74	61.54
CREB2B	275	76.38	27.27	25.36	63.92	75.56	28.13	21.72	61.5
CREB40	400	145.06	51.29	37.65	110.19	111.55	43.09	23.15	84.08
CULJ4A	400	118.87	41.79	31.9	91	112.71	42.18	28.9	88.55
DAIN40	400	129.7	46.14	25.33	90.58	101.25	39.79	17.68	73.96
DAMC40	400	114.32	39.55	34.79	90.72	117.81	43.3	35.61	96.84
DEES41	400	119.8	41.14	32.41	90.6	117.4	43.47	32.38	93.86

DEES42	400	111.26	38.72	28.19	82.94	104.89	39.28	26.53	82.08
DIDC41	400	126.5	43.91	36.24	98.35	129	47.3	39.51	106.41
DIDC42	400	110.21	37.91	33.84	87.45	111.86	40.74	36.46	94.07
DINO40	400	86.83	29.04	26.24	67.31	89.5	32.67	26.52	72.73
DRAK21	275	67.67	23.94	17.35	51.21	68.07	25.63	17.08	53.33
DRAK22	275	69.29	24.69	19.19	54.1	71.46	26.83	18.02	55.97
DRAK41	400	100.11	35.93	19.88	70.7	86.81	33.69	16.02	63.67
DRAK42	400	80.56	29.28	15.08	56.5	70.5	27.6	11.22	50.25
DRAX41	400	144.47	50.17	41.02	111.97	145.9	53.58	43.26	119.03
DRAX42	400	144.67	49.69	41.96	112.23	146.14	53.51	43.44	119.12
DUBR4A	400	40.03	14.87	9.07	30.11	31.63	12.3	6	23.4
DUBR4B	400	49.38	18.54	10.68	36.9	40.39	15.94	7.37	29.9
DUNG20	275	43.07	15.85	12.62	35.03	47.87	18.02	13.69	39.17
DUNG40	400	66.54	25.7	12.29	48.64	69.17	27.73	12.93	52.15
EALI20	275	62.52	22.21	17.88	49.29	67.61	26.64	13.66	51.33
EASO40	400	85.31	30.78	20.4	63.93	66.25	25.5	14.79	50.86
ECLA40	400	117.4	42.41	25.23	85.2	92.16	36.09	16.35	67.39
EGGB41	400	107.89	38.25	28.26	82.35	101.49	38.04	25.52	79.32
EGGB42	400	132.54	45.67	36.8	101.4	129.31	47.91	33.27	101.02
ELLA20	275	69.29	25.21	13.52	49.17	61.3	24.09	10.41	44.48
ELST21	275	68.15	24.48	17.49	52.1	74.13	28	18.7	58.3
ELST22	275	63.75	22.88	13.44	45.8	70.91	27.1	14.32	52.65
ELST2A	275	67.4	24.2	17.42	51.64	73.24	27.64	18.62	57.72
ELST2B	275	63.09	22.65	13.42	45.45	70.1	26.77	14.3	52.16
ELST40	400	83.82	29.91	20.65	62.94	92.36	35.19	21.61	71.38
ELST4A	400	58.95	21.99	14.34	45.44	54.03	20.69	14.33	43.58
ELST4B	400	45.21	17.18	8.36	32.65	41.43	16.13	8.43	31.24
ENDE40	400	88.83	32.45	18.1	63.99	58.78	23.54	8.61	41.9
EXET40	400	58.54	20.41	12.87	41.73	53.97	20.63	10.94	40.12
FAWL40	400	80.71	27.81	18.84	58.16	79.16	29.6	19.71	61.56
FECK20	275	67.34	24.32	15.22	49.61	67.11	25.72	15.54	51.91
FECK40	400	84.02	30.95	14.91	58.68	70.63	27.68	13.8	52.95
FENW4A	400	117.5	42.21	28.54	88.23	97.41	37.45	18.72	71.69
FERR21	275	71.38	25.46	19.71	55.72	75.55	28.29	20.32	60.32
FERR22	275	77.01	27.19	24.55	63	83.25	30.64	26.02	69.35

FERR23	275	84.73	29.61	25.22	67.09	93.06	34.34	27	75.56
FERR2A	275	84.81	29.64	25.29	67.21	92.82	34.28	26.79	75.26
FERR2B	275	70.89	25.31	19.45	55.24	74.65	28.02	19.46	59.09
FERR4A	400	89.63	31.76	23.54	68.45	80.34	30.23	20.28	63.03
FFES21	275	37.44	13.87	7.66	27.28	36.57	14.38	6.48	26.81
FFES22	275	35.12	13.26	5.88	24.63	33.56	13.44	4.46	23.47
FIDF21	275	67.67	22.92	23.87	56.28	71.87	25.85	24.84	61.4
FIDF22	275	68.15	23.24	23.84	56.71	71.48	25.84	24.43	60.97
FIDF23	275	85.44	28.83	25.9	66.67	87.38	31.8	26.79	71.77
FIDF24	275	85.92	28.91	26.08	66.96	88.62	32.2	27.26	72.79
FLEE40	400	102.72	35.85	22.73	73.42	88.61	34.02	18.96	67.07
FORD4A	400	39.27	14.62	8.75	29.43	31.11	12.16	5.8	23
FORD4B	400	49.36	18.56	10.4	36.65	40.05	15.91	6.48	28.99
FOUR20	275	29.63	11.82	3.07	19.78	23.18	9.62	2.28	15.89
FROD2A	275	66.38	22.74	23.18	55.34	69.4	25.22	22.6	58.27
FROD2B	275	65.42	22.3	23.08	54.61	68.08	24.68	22.34	57.24
FROD40	400	106.67	36.36	30.53	81.95	93.64	34.78	25.57	74.76
GRAI40	400	156.88	53.61	45.61	121.42	161.43	59.46	47.68	131.77
GREN40	400	84.28	31.56	14.33	58.96	53.62	21.74	8.72	39.46
GRIW40	400	78.62	28.33	20.71	60.77	66.62	25.61	13.56	49.78
GRST21	275	90.45	31.41	27.48	71.91	98.86	36.2	29.26	80.45
GRST22	275	90.73	31.5	27.63	72.19	99.37	36.36	29.51	80.94
GRTO2A	275	57.32	20.75	12.1	41.45	56.38	22.63	8.03	40.04
GRTO2B	275	57.38	20.77	12.15	41.52	56.49	22.65	8.12	40.15
HACK2A	275	67.88	25.13	16.16	51.7	64.67	25.31	12.31	48.1
HACK2B	275	67.55	24.98	16.05	51.37	62.58	24.5	12.17	46.81
HAKB2A	275	41.96	15.98	7.11	29.7	38.69	15.39	6.13	27.89
HAKB4A	400	44.59	17	6.43	30.48	35.4	14.03	5.96	25.79
HAMB4A	400	69.8	25.6	13.22	49.42	57.92	22.92	8.69	41.1
HAMB4B	400	69.73	25.58	13.2	49.37	57.83	22.88	8.67	41.03
HAMH20	275	79.17	27.87	16.73	56.14	74.46	28.65	13.77	54.29
HAMH2A	275	69.67	24.77	17.3	52.34	67.56	25.58	15.5	51.67
HAMH40	400	78.35	28.53	14.5	54.84	69.61	27.11	12.37	50.71
HAMH4A	400	76.94	28	14.51	54.12	68.5	26.64	12.38	50.05
HARK21	275	49.81	18.58	9.54	35.82	52.79	20.36	11.11	39.9

HARK22	275	45.85	17.04	9.4	33.51	49.88	19.17	10.94	38.04
HARK40	400	51.35	19.37	7.47	34.86	44.68	17.41	8.83	33.45
HARM20	275	66.75	24.21	12.28	46.52	57.81	22.72	8.9	41.03
HATL20	275	91.11	31.46	22.53	67.02	90.49	33.89	22.89	70.82
HAWP20	275	79.44	28.33	17.01	57.08	72	27.84	13.49	52.86
HAWP4A	400	51.26	18.71	11.73	38.19	41.72	16.03	9	31.67
HEYS40	400	98.96	34.47	25.57	74.32	103	38.16	28.59	82.56
HIGM20	275	71.04	25.83	19.81	56.35	66.36	25.5	15.78	51.85
HIGM2A	275	46.33	16.78	15.2	38.93	46.44	17.4	13.18	37.78
HIGM40	400	94.96	35.25	19.32	69.17	74.67	29.57	12.07	53.89
HIGM4A	400	70.5	26.08	17.42	54.29	58.3	22.63	11.86	43.87
HINP21	275	23.89	8.53	8.13	20.19	26.24	9.62	8.84	22.45
HINP22	275	23.92	8.55	8.06	20.15	26.67	9.79	8.89	22.73
HINP40	400	70.8	24.92	17.04	52.29	69.79	26.18	18.7	55.73
HUMR40	400	119.78	41.97	34.84	94.2	116.3	43.28	32.04	93.25
HURS20	275	71.09	25.23	18.72	54.4	72.83	29.49	15.68	57.38
HUTT40	400	66.7	24.64	11.56	46.41	48.43	19.49	6.89	34.45
IMPP40	400	55.84	20.51	12.29	41.29	46.9	18.1	9.76	35.36
INDQ40	400	35.13	12.45	6.74	24.35	35.38	13.48	7.25	26.31
IROA20	275	60.91	22.74	11.42	43.58	55.9	22.06	10.37	41.57
IROA2A	275	60.32	22.51	11.42	43.25	55.39	21.84	10.37	41.25
IROA2B	275	60.32	22.51	11.42	43.25	55.39	21.84	10.37	41.25
IRON40	400	89.67	31.83	19.74	64.76	85.27	32.38	19.77	65.57
IVER21	275	66.25	23.95	16.39	50.26	69.51	26.43	16.68	54.06
IVER22	275	66.56	24.08	15.29	49.35	62.82	24.31	13.47	47.85
IVER2A	275	46.35	17.06	11.52	35.64	45.55	17.6	10.52	35.42
IVER4A	400	48.84	18.14	11.18	36.84	44.72	17.21	10.54	34.88
IVER4B	400	43.81	16.53	9.5	32.88	38.5	14.99	8.68	29.88
JORD20	275	51.28	19.04	9.33	36.26	51.81	21.32	8.03	38.17
KEAD41	400	123.05	44.1	32.09	94.45	106.58	40.57	23.97	81.34
KEAD42	400	120.56	42.97	32	92.77	105.19	39.94	24.68	81.17
KEAD43	400	101.74	37.28	22.52	75.25	80.9	31.5	14.73	59.27
KEAD4A	400	119.33	42.82	30.91	91.48	95.2	36.84	17.51	69.61
KEAD4B	400	121.53	43.41	31.95	93.35	96.88	37.45	18.2	71.16
KEAD4C	400	85.82	30.92	25.27	69	75.3	28.4	20.56	60.73

KEAD4D	400	85.82	30.92	25.27	69	75.3	28.4	20.56	60.73
KEAP41	400	117.84	42.39	30.11	90.07	101.71	38.97	21.75	76.85
KEAP42	400	117.76	42.09	30.68	90.21	102.42	38.97	23.75	78.86
KEAR20	275	73.37	25.4	19.43	55.35	79.91	29.71	19.94	61.97
KEAR40	400	91.85	33.34	17.1	64.25	77.6	30.24	14.73	57.5
KEMS40	400	143.91	49.86	38.78	109.29	125.23	48.17	24.57	92.69
KIBY21	275	86.65	29.36	23.29	64.81	85.26	32.27	17.97	63.61
KIBY22	275	76.55	26.43	19.76	57.14	70.5	26.66	15.4	53.11
KILL40	400	130.15	45.19	39	102.91	134.05	49.23	39.82	109.44
KINO41	400	133.99	46.09	39.65	104.82	131.2	48.46	38.01	106.53
KINO42	400	117.22	40.44	36.09	93.28	120.41	44.1	37.37	99.74
KIRK20	275	60.25	21.8	13.77	44.6	57.12	22.36	10.97	42.6
KIRK2A	275	61.69	22.17	14.39	45.74	57.52	22.93	10.96	43.39
KITW20	275	68.03	24.28	12.46	46.8	67.46	26.27	11.27	48.41
KNAR20	275	30.68	12.48	2.6	20.25	25.06	10.45	2.89	17.67
LACK20	275	61.08	21.55	16.26	46.73	63.59	23.8	17.07	50.74
LACK2A	275	86.72	30.32	25.44	68.33	95.06	34.97	26.84	76.3
LACK2B	275	91.6	31.77	28.12	73.06	101.56	37.05	30.64	83.04
LACK2C	275	87.98	30.7	26.08	69.51	96.44	35.44	27.44	77.56
LACK40	400	89.69	31.91	21.99	67.12	84.09	31.53	21.96	66.55
LALE20	275	62.22	22.2	17.19	48.59	67.91	26.4	16.1	53.43
LAND41	400	33.99	12.15	6.53	23.72	33.41	12.86	6.07	24.25
LAND42	400	34.08	12.18	6.56	23.79	33.37	12.85	6.05	24.22
LAND4A	400	33.81	12.08	6.56	23.65	33.11	12.74	6.05	24.06
LANG40	400	42.8	14.88	9.52	30.56	45.78	17.03	11.73	35.82
LEGA40	400	102.1	35.95	23.44	74.28	76.61	30.12	13.3	55.9
LEGA4A	400	67.88	24.24	19.12	53.4	54.81	21.09	12.38	42.21
LEGA4B	400	67.93	24.25	19.12	53.41	54.88	21.12	12.38	42.25
LEIB4A	400	77.7	28.71	16.68	57.29	57.63	22.66	9.63	41.68
LEIB4B	400	103.4	37.71	22.24	75.57	75	29.63	11.77	53.67
LISD20	275	79.53	27.24	20.24	58.77	78.52	30.29	16.09	58.92
LISD2A	275	50.9	17.71	15.99	41.04	52.59	19.85	13.28	41.35
LITB40	400	80.75	29.2	19.21	60.51	64.05	24.7	15.66	50.6
LITT2A	275	60.07	21.71	15.57	46.28	59.63	23.68	14.99	48.48
LITT2B	275	59.94	21.68	15.39	46.05	60.52	23.91	15.58	49.38

LITT2C	275	50.04	18.55	13.45	39.69	48.7	18.56	13.4	39.65
LITT2D	275	50.41	18.71	13.56	40.01	49.23	18.78	13.51	40.07
LITT40	400	101.28	35.74	26.36	76.89	106.88	39.95	29.92	86.41
LITT4A	400	90.86	32.71	20.66	66.92	81.37	31.71	14.11	58.95
LITT4B	400	90.89	32.73	20.65	66.93	81.36	31.71	14.1	58.94
LOVE40	400	93.18	32.22	20.71	66.27	85.03	32.55	16.38	62.41
MACC20	275	54.17	20.02	13.33	41.65	51.76	19.96	11.56	39.78
MACC40	400	84.29	31.15	15.44	59.5	63.26	25.29	9.52	45.29
MAGA20	275	56.49	21.06	10.39	40.17	52.73	20.72	9.81	39.11
MANN40	400	57.29	20.26	12.43	41.08	52.06	19.89	11.05	39.18
MEDW40	400	131.68	46.13	33.19	98.43	126.57	47.81	30.25	97.87
MELK2A	275	46.1	17.05	13.43	37.55	45.5	17.31	12.35	36.83
MELK2B	275	44.8	16.61	12.82	36.31	45.53	17.34	12.21	36.73
MELK40	400	111.41	39.92	22.75	79.2	90.12	35.27	16.33	66.21
MILH2A	275	43.7	16.41	6.99	30.19	43.79	17.94	6.68	32.05
MILH2B	275	43.67	16.39	6.97	30.16	43.75	17.93	6.66	32.02
MITY40	400	86.18	31.87	15.51	60.58	62.52	25.11	9.17	44.68
MONF21	275	86.87	30.46	27.07	70.14	92.54	34.34	25.71	74.28
MONF22	275	78.64	27.88	24.43	63.86	80.98	30.19	22.6	65.29
MONF40	400	101.52	35.86	26.27	76.99	90.72	34.26	21.02	69.47
MONF4A	400	88.42	31.48	22.71	67.23	78.13	29.56	18	59.8
NECH20	275	86.13	30.01	19.85	62.29	79.77	30.66	15.31	58.67
NEEP20	275	60.58	21.98	13.53	44.62	66.51	26.19	12.49	49.52
NEEP4A	400	48.56	18.12	9.96	35.59	43.84	17.27	8.15	32.58
NEWX20	275	77.81	27.44	19.45	58.25	83.35	33.4	16.09	63.33
NFLE40	400	118.3	41.37	30.19	88.7	91.51	35.81	16.22	66.86
NHYD2A	275	45.96	17.51	7.42	32.19	39.11	18.42	3.12	29.17
NHYD2B	275	46.12	17.59	7.05	31.92	37.23	17.42	3.19	27.83
NINF40	400	60.62	22.64	11.89	43.91	55.55	21.88	11.12	42.06
NORL2A	275	53.01	19.58	10.23	37.92	53.94	22.26	7.32	38.81
NORL2B	275	51.98	19.28	9.46	36.73	52.5	21.97	6.57	37.64
NORT21	275	74.59	26.19	18.07	55.11	74.66	28.23	17.03	56.95
NORT22	275	65.83	23.73	16.12	49.68	61.89	23.6	13.97	47.34
NORT40	400	86.15	30.8	19.51	63.07	72.36	27.77	14.96	54.24
NORW40	400	59.33	21.81	11.05	41.9	46.57	18.26	8.76	34.58

NURS40	400	61.39	21.75	13.72	44.48	55.82	21.27	11.66	41.74
NURS4A	400	53.44	19.18	11.63	38.75	47.52	18.18	9.8	35.52
OCKH20	275	66.26	23.74	12.56	46.14	66.74	25.87	11.77	48.35
OCKH2A	275	57.11	20.55	12.27	41.34	56.08	21.64	11.54	42.14
OFFE20	275	70.26	25.44	12.32	48.3	61.19	24.04	9.93	43.92
OLDB20	275	56.59	20.62	10.39	39.55	57.79	22.48	10.18	41.98
OLDB2A	275	56.08	20.43	10.4	39.29	57.25	22.26	10.19	41.67
OLDB4A	400	36.86	13.89	6.78	26.42	33.43	13.08	6.34	24.84
OSBA41	400	75.71	27.78	17.18	56.47	54.59	21.44	9.16	39.48
OSBA42	400	75.57	27.77	17.2	56.48	52.92	20.82	8.81	38.26
PADI40	400	85.06	30.95	17.29	61.06	61.57	24.46	9.31	43.9
PAFB4A	400	56.47	21.54	9.4	39.85	36.6	15.07	3.6	24.91
PAFB4B	400	56.58	21.58	9.42	39.94	36.68	15.1	3.62	24.97
PELH40	400	142.65	50.24	36.12	107.17	112.54	43.55	22.19	83.78
PEMB40	400	46.7	16.88	11.35	35.23	46.4	17.51	11.31	36.08
PENN20	275	73.99	26.37	16.56	53.85	76.37	29.13	16.24	57.43
PENN2A	275	73.11	26.05	16.53	53.37	75.43	28.74	16.21	56.86
PENN4A	400	47.43	17.67	9.3	34.3	41.35	16.13	8.47	31.28
PENN4B	400	49.58	18.47	9.53	35.64	45.18	17.6	8.98	33.87
PENT40	400	92.32	30.78	27.38	70.92	92.08	33.9	24.24	72.19
PEWO21	275	70.87	25.2	20.7	56.34	70.44	26.49	18.13	55.59
PEWO22	275	71.6	25.42	21.23	57.17	67.46	25.3	18.17	53.94
PEWO2A	275	71.93	25.53	21.37	57.47	67.76	25.38	18.45	54.34
PEWO2B	275	72.61	25.75	21.57	57.98	73.31	27.45	19.66	58.48
PEWO40	400	108.89	38.15	24.73	78.69	97.41	37.46	19.02	72
PITS20	275	62.02	22.46	13.48	45.24	68.75	27.03	12.54	50.77
POPP20	275	30.01	12.37	1.98	19.48	23.76	10.01	2.65	16.82
PYLE20	275	59.83	22.25	10.68	42.15	54.22	21.44	9.23	39.55
PYLE2A	275	59.27	22.03	10.69	41.85	53.76	21.24	9.24	39.27
PYLE2B	275	59.27	22.03	10.69	41.85	53.76	21.24	9.24	39.27
QUER4A	400	83.8	30.06	18.06	60.57	74.33	28.79	13.26	53.97
QUER4B	400	83.73	30.06	17.95	60.46	74.46	28.84	13.28	54.07
RAIN20	275	102.18	33.78	30.23	78	98.2	36.41	23.65	75.15
RASS40	400	53.62	19.68	11.61	39.44	41.86	16.45	6.76	30.03
RATS2A	275	43.49	15.85	13.38	35.79	44.71	16.64	14.06	37.59

RATS41	400	97.38	35.08	21.47	71.08	96.05	36.33	22.79	74.18
RATS42	400	107.09	38.01	23.36	77.11	106.79	40.16	25.56	82.36
RAYL40	400	105.51	37.74	24.53	77.91	83.01	32.36	15.64	61.4
REBR21	275	76.08	27.76	19.01	58.27	71.47	28.05	13.33	53.01
REBR22	275	76.55	27.97	19.28	58.84	72	28.4	12.75	52.91
ROCH20	275	63	22.65	14.23	46.27	61.83	23.76	12.47	46.08
ROCH4A	400	32.49	12.13	7.63	24.79	28.93	11.14	6.67	22.42
ROCK40	400	102.61	35.13	28.87	78.55	88.58	33.09	23.41	70.2
ROWD40	400	69.06	25.41	14.42	50.36	53.92	21.61	7.47	38.04
RUGE40	400	67.89	24.6	13.63	48.42	66.67	25.43	15.19	51.15
RYEH40	400	85	30.32	22.75	65.63	82.84	31.09	22.32	66.28
RYEH4A	400	77.09	28.04	19.56	59.21	68.64	26.13	16.94	53.89
SAEN20	275	73.07	25.87	21.57	58.15	72.93	27	21.78	59.97
SAES20	275	73.74	26.06	21.93	58.78	74.41	27.44	23.26	62.06
SALH20	275	76.71	26.97	17.2	55.34	74.42	28.36	14.97	55.07
SEAB40	400	69.85	24.64	17.26	52.11	67.94	25.32	18.82	54.63
SELL40	400	72.76	27.5	13.42	52.3	70.89	28.07	13.89	53.58
SHBA40	400	94.75	33.55	27.12	74.58	91.83	34.25	25.94	74.37
SHEC20	275	55.19	20.27	11.14	39.8	58.04	23.72	8.23	41.78
SHRE4A	400	66.27	24.19	13.48	47.69	53.12	20.98	8.22	37.9
SING40	400	110.47	38.98	27.67	82.79	85.6	33.44	14.71	62
SIZE40	400	67.61	23.94	17.46	51.31	66.14	24.72	18.31	53.26
SJOW20	275	87.05	31.44	22.58	67.04	96.81	37.4	25.88	78.78
SJOW2A	275	72.01	25.58	21	57.17	73.82	30.09	19.48	62.03
SJOW2B	275	72.01	25.58	21	57.17	73.82	30.09	19.48	62.03
SJOW40	400	99.16	34.67	25.96	74.99	106.92	40.49	26.39	83.65
SKLG20	275	68.96	24.68	15.54	50.44	64.61	25.11	12.41	47.92
SMAN20	275	73.85	26.69	17.02	54.77	71.55	27.7	13.31	52.49
SPEN21	275	51.27	18.91	9.11	35.86	45.12	17.72	7.68	32.74
SPEN22	275	53.13	19.63	9.23	36.99	44.69	17.72	7.16	32.22
SPLN40	400	69.68	25.3	18.74	54.52	60.95	23.14	16.42	49.15
SSHI20	275	65.08	23.77	10.05	43.66	56.56	22.3	9.16	40.69
STAH4A	400	61.21	22.71	11.01	43.13	49.18	19.64	6.94	34.7
STAH4B	400	61.16	22.69	11	43.1	49.12	19.61	6.93	34.66
STAL21	275	46.05	16.92	11.08	35.02	45.51	17.41	10.19	34.81

STAL22	275	56.92	21.27	10.18	40.26	50.32	19.84	8.68	36.74
STAL4A	400	34.55	12.87	7.86	26.07	29.14	11.24	6.5	22.39
STAY41	400	66.53	24.79	12.61	47.66	48.31	19.44	6.03	33.53
STAY42	400	58.66	22.17	10.87	42.22	39.83	16.17	4.66	27.53
STAY4A	400	61.89	23.09	12.4	45.06	45.88	18.38	6.15	32.14
STEW20	275	87.99	31.31	14.85	59.13	87.84	33.81	15.37	63.19
STEW2A	275	87.82	31.25	14.8	59	87.58	33.76	15.12	62.87
STEW4A	400	35.81	13.12	8.52	27.07	34.38	13.06	8.48	26.95
STEW4B	400	36.21	13.24	8.73	27.45	35.38	13.42	8.76	27.75
STSB40	400	60.14	22.14	13.31	44.62	52.74	20.54	10.51	39.56
STSB4A	400	50.69	18.83	12.03	38.66	44.46	17.25	9.76	34.15
SUND41	400	117.77	42.5	26.13	86.23	91.63	35.77	16.71	67.29
SUND42	400	93.76	34.31	20.09	68.61	74.97	29.24	13.91	55.26
SUTB4A	400	87.78	31.57	21.45	66.1	76.36	29.11	19.19	60.36
SWAN20	275	53.9	19.74	12.9	40.81	58.09	22.17	13.29	44.64
SWAN40	400	45.05	16.5	10.09	33.43	40.83	15.65	9.03	31.16
SWAN4A	400	44.56	16.34	9.91	33.01	40.3	15.46	8.86	30.72
SWAN4B	400	44.57	16.34	9.91	33.02	40.33	15.47	8.87	30.75
TAUN4A	400	51.2	18.41	10.47	36.51	43.8	17.17	6.92	31.2
TAUN4B	400	52.09	18.7	10.64	37.09	45.25	17.7	7.38	32.41
TEMP21	275	60.84	22.09	12.92	44.17	64.68	25.6	11.65	47.86
TEMP22	275	61.07	22.16	13.02	44.37	65.23	25.81	11.81	48.31
THOM20	275	76.62	27.27	21.52	60.09	78.51	29.65	20.3	62.23
THOM40	400	112.15	39.61	27.41	83.43	95.83	36.67	19.26	71.12
THTO41	400	117.52	42.18	28.7	88.35	87.57	34.14	14.82	63.1
THTO42	400	118.06	42.31	28.93	88.77	86.96	33.91	14.68	62.64
THUR20	275	65.71	24.4	10.88	45.39	65.27	25.84	10.57	47.11
THUR2A	275	66.17	24.66	10.26	45.14	61.81	24.81	8.22	43.31
TILB21	275	75.41	26.74	21.24	59.05	79.37	29.49	21.91	63.61
TILB22	275	76.01	26.94	22.4	60.5	80.19	29.74	23.08	65.14
TILB4A	400	99.07	35.28	25.73	75.62	87.03	33.13	20.1	66.95
TILB4B	400	99.15	35.54	24.72	74.98	87.17	33.28	19.8	66.86
TINP2A	275	59.99	22.01	13.77	44.89	58.68	22.84	12.31	44.62
TINP2B	275	59.99	22.01	13.77	44.89	58.69	22.84	12.31	44.62
TODP20	275	63.32	22.42	15.26	46.97	57.92	22.32	11.2	42.76

TOTE21	275	82.42	30.02	20.79	63.24	80.71	31.28	16.79	61.02
TOTE22	275	82.89	30.23	21.02	63.77	82.4	31.95	16.92	62.1
TOTW21	275	78.36	28.79	17.86	58.58	77.71	32.04	13.96	59.27
TOTW22	275	79.18	29.05	18.21	59.29	78.48	32.29	14.36	60.02
TRAW20	275	45.76	16.18	13.85	36.74	48.42	18.19	11.89	37.62
TRAW40	400	62.61	22.8	12.63	44.88	48.81	19.32	8.5	35.83
TREM20	275	43.87	17.08	5.91	30.06	36.28	14.87	4.43	25.46
TREU4A	400	97.75	34.6	22.38	71.31	77.41	30.3	12.48	55.34
TREU4B	400	99.79	35.26	22.83	72.7	79.25	31.04	12.66	56.55
TYNE20	275	60.33	22.05	9.08	40.26	53.4	21.04	8.56	38.31
TYNE2A	275	56.8	21.11	8.28	38.14	48.47	19.27	7.28	34.53
UPPB21	275	49	18.1	11.71	37.31	47.12	18.26	9.74	35.56
UPPB22	275	48.94	18.1	11.7	37.29	44.7	17.26	9.95	34.35
USKM2A	275	58.94	22.03	11.75	42.9	57.12	22.44	10.3	42.03
USKM2B	275	60.36	22.43	12.4	44.12	59.22	23.15	11.07	43.81
USKM2C	275	59.1	22	12.02	43.14	57.58	22.55	10.63	42.51
USKM2D	275	53.23	20.74	7.38	36.72	50.01	20.41	6.68	35.54
USKM2E	275	53.23	20.74	7.38	36.72	48.76	20	5.99	34.27
WALH40	400	62.62	23.01	11.94	44.47	47.84	18.92	8.04	34.79
WALP40	400	102.39	36.37	27.1	78.54	87.57	33.31	21.53	68.64
WALX21	275	97.21	35	26.88	76.38	94.47	36	24.72	75.63
WALX22	275	96.56	34.82	26.81	76.05	93.56	35.7	24.54	75.02
WALX4A	400	78.84	28.23	21.39	61.32	75.19	28.36	19.33	59.44
WALX4B	400	72.63	26.39	19.05	56.37	65.86	25.04	16.48	51.89
WARL20	275	82.74	29.53	19.73	61.5	70.37	27.42	13.03	51.81
WASF2A	275	64.23	22.9	14.54	46.93	52.97	20.78	8.39	37.78
WASF2B	275	68.55	24.27	15.6	49.92	57.7	22.74	8.64	40.8
WATS21	275	64.29	23.33	15.03	48.02	65.09	25.1	13.28	48.77
WATS22	275	61.97	22.36	12.77	44.4	63.73	24.7	11.54	46.47
WBOL20	275	74.17	26.64	12.29	49.95	63.51	24.96	10.38	45.67
WBUR40	400	151.97	54.11	38.72	115.25	138.04	52.15	34.59	108.34
WEAV4A	400	76.43	28.3	13.92	53.94	52.71	21.4	5.82	36.08
WEAV4B	400	77.73	28.72	14.32	54.93	53.6	21.75	5.92	36.69
WHAM2A	275	56.67	21.13	14.01	43.9	57.68	22.22	13.69	45.11
WHAM2B	275	56.43	21.03	13.94	43.68	54.08	20.87	13.04	42.56

WHAM40	400	104.72	36.89	26.57	78.74	103.47	40.13	20.91	77.67
WHAM4A	400	90.6	32.13	22.18	67.62	89.86	36.11	17.46	68.53
WHAM4B	400	90.62	32.15	22.09	67.56	89.93	36.14	17.31	68.43
WHGA20	275	65.67	23.29	15.14	48.07	63.54	24.45	12.05	46.62
WHSO20	275	72.52	26.47	16.91	54.35	76.76	29.42	17.5	59.11
WHSO2A	275	54.35	20.15	14.08	42.58	55.23	21.18	14.46	44.4
WHSO2B	275	54.35	20.15	14.08	42.58	55.23	21.18	14.46	44.4
WHSO4A	400	65.19	23.39	15.86	48.94	57.21	21.81	12.98	43.83
WIBA20	275	60.68	22.05	12.81	43.99	65.54	26.28	10.13	47.29
WIEN2A	275	54.14	19.83	9.4	37.44	52.57	20.62	8.56	37.72
WIEN2B	275	58.2	20.97	12.01	41.67	56.79	22.09	10.68	41.93
WILE40	400	106.44	38.14	21.46	75.4	93.88	36.39	17.41	68.87
WILL20	275	40.97	14.65	14.24	34.97	44.21	16.23	14.42	37.38
WIMB20	275	84.52	29.64	21.24	63.16	92.5	36.25	19.83	71.09
WIMB2M	275	39.7	15.07	7.56	28.88	37.55	14.88	6.45	27.49
WISD20	275	81.81	28.67	24.81	65.35	89.91	34.67	21.84	70.88
WISD2A	275	63.47	22.5	19.07	50.88	68.06	26.62	17.73	55.38
WISD2B	275	71.95	25.61	20.03	56.25	72.92	29.4	18.7	60.29
WMEL20	275	74.67	26.7	14.28	52.04	71.57	27.82	13.84	53.18
WTHU2A	275	52	19.28	13.52	40.78	49.23	18.93	11.82	38.59
WTHU2B	275	52.59	19.52	13.68	41.29	49.95	19.23	11.86	39.05
WWEY21	275	77.34	28.09	17.4	57.12	78.38	30.15	16.76	59.39
WWEY22	275	64.67	23.94	12.94	46.79	63.25	24.53	12.35	47.03
WWEY2A	275	55.79	20.19	14.84	43.4	56.8	21.9	13.58	44.54
WWEY4A	400	44.3	16.75	8.21	31.89	39.11	15.32	7.72	29.38
WWEY4B	400	51.63	19.16	11.69	38.79	45.99	17.87	10.42	35.7
WYLF40	400	66.89	22.32	19.02	50.58	67.48	24.48	19.65	54.28
WYMO40	400	114.57	41.13	26.79	84.96	86.15	33.59	15.62	63.12
YGAR4A	400	59.62	21.61	12.71	43.27	45.6	18.15	6.9	32.57
YWER4A	400	59.43	21.47	12.92	43.29	45.48	18.09	6.61	32.19

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Table D.3.1b - NGET Forecast Short-Circuit Currents at 132kV and Lower Voltage Nodes for 2007/08 (kA)

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABTH11	132	31.35	12.15	7.03	24.22	37.36	14.5	9.54	30.05
ABTH12	132	51.74	18.98	14.02	40.87	61.63	23.15	18.1	50.84
ABTH13	132	11.74	4.63	1.6	8.15	10.34	3.95	2.34	7.93
AMEM10	132	27.63	9.95	9.86	23.93	33.89	12.49	11.08	28.74
AXMI10	132	27.21	9.44	9.04	22.39	32.96	12.02	10.2	27.21
BARK10	132	26.14	9.2	9.93	22.94	28.29	10.28	10.35	24.89
BLYT60	66	51.26	16.99	14.95	38.98	29.7	10.77	11.98	27.22
BRIM10	132	52.85	18.16	20.5	46.18	64.48	23.11	24.39	57.08
BRWE10	132	19.96	6.98	8.09	17.96	6.07	2.23	2.12	5.27
CARR11	132	28.23	10.35	8.34	22.98	33.04	12.53	9.43	27.15
CARR12	132	51.27	17.62	16.55	41.46	63.07	23.1	19.55	52.23
CELL11	132	45.16	15.23	14.81	36.36	56.25	20.26	17.11	45.76

CELL12	132	30.58	10.65	10.48	25.54	36.46	13.28	11.68	30.46
DRAK10	132	34.93	10.21	9.48	23.91	42.77	14.24	12.46	32.6
DRAX11	132	15.73	5.41	5.64	13.29	19.69	7.01	7.18	17.09
DRAX12	132	14.95	5.13	5.38	12.64	18.75	6.67	6.86	16.29
EALI60	66	60.22	20.59	19.18	48.31	69.54	25.52	20.53	56.61
ECLA10	132	45.6	15.73	16.45	38.69	53.06	19.34	17.79	45.14
ELLA11	132	27.75	9.72	9.04	22.79	33.74	12.45	10.2	27.81
ELLA12	132	28.26	9.91	9.09	23.11	33.82	12.49	10.17	27.83
ELST11	132	29.79	9.85	10.27	24.2	37.4	13.51	12.26	31.37
ELST12	132	38.37	12.52	11.92	29.63	45.72	16.57	13.38	36.82
ELST1A	132	10.57	3.82	3.32	8.72	12.95	4.81	3.84	10.64
ELST1B	132	10.24	3.73	3.15	8.42	12.55	4.68	3.66	10.28
FAWL10	132	51.37	16.43	17.92	41.16	70.21	24.16	24.89	59.06
FERR11	132	35.52	12.14	12.23	29.4	42.8	15.47	15.1	36.98
FERR12	132	32.56	11.18	10.46	26.27	39.74	14.47	12.96	33.43
FERR13	132	10.76	3.97	3.4	9.01	11.35	4.2	3.59	9.53
GREN11	132	42.45	16.12	12.24	35.04	49.06	19.41	13.55	41
GREN12	132	44.36	16.41	12.96	36.16	51.12	19.95	14.03	42.24
HAMH11	132	28.53	9.83	10.63	24.54	35.39	12.81	12.49	30.61
HAMH12	132	28.27	9.72	10.32	24.07	29.48	10.7	10.15	25.28
HARK11	132	35.37	11.39	7.82	23.93	39.91	14.81	8.88	29.82
HARK12	132	32.79	11.15	7.86	23.63	36.73	13.88	8.85	28.48
HARK13	132	28.18	11.82	6.12	22.83	26.5	10.73	6.32	21.5
HEYS10	132	41.38	14.95	15.05	36.2	51.04	18.75	17.53	44.04
IROA11	132	58.5	20.79	15.51	44.91	69.71	26.15	17.36	54.34
IROA12	132	50.85	18.05	13	38.53	58.51	22	14.39	45.5
IRON11	132	26.95	7.45	6.79	17.32	32.54	10.59	8.96	23.93
IRON12	132	14.59	5.3	5.4	12.89	19.44	7.07	7.26	17.26
KINO10	132	35.74	11.83	11.51	28.24	45.43	15.98	15.14	37.73
LITT11	132	19.92	6.95	8.03	17.86	26.45	9.56	10.06	23.59
LITT13	132	19.98	6.99	8.01	17.89	26.34	9.45	10.76	24.13
LITT1M	132	14.8	5.38	5.44	13.05	17.39	6.36	6.23	15.23
MELK10	132	42.26	14.82	15.67	36.63	55.59	20.1	19.13	47.56
MILH11	132	23.91	8.44	8.22	20.16	30.09	11.02	9.91	25.5
MILH12	132	24.19	8.67	7.38	19.64	30.46	11.3	8.97	24.95

NFLE11	132	38.25	12.35	12.68	30.15	46.86	16.8	14.59	38.35
NFLE12	132	31.8	11.68	11.23	27.75	34.69	12.91	11.69	29.95
NHYD60	66	40.44	13.62	12.44	31.69	54.62	19.94	15.53	43.74
OCKH10	132	26.19	9.23	8.19	21.24	30.09	11	9.27	24.83
OLDS11	132	41.42	14.54	9.65	30.22	43.02	16.21	10.1	33.03
OLDS12	132	44.06	15.82	10.18	32.56	47.85	18.18	10.97	36.68
PADI10	132	28.8	9.82	10.05	23.94	35.29	12.69	11.41	29.35
PEMB10	132	28.72	10.21	9.53	23.97	36.14	13.31	11.39	30.22
RATS10	132	51.28	16.29	15.95	38.99	63.13	21.89	20.27	51.23
RUGE10	132	27.92	9.57	10.01	23.55	31.18	11.11	11.79	27.5
SIZE11	132	28.83	10.16	11.06	25.42	30.68	11.22	11.14	27
SIZE12	132	28.84	10.16	11.07	25.44	30.76	11.27	11.18	27.12
STEN10	132	39.53	12.35	9.93	27.4	49.08	17.52	11.98	36.76
STES10	132	33.96	11.43	9.97	26.13	42.27	15.22	11.92	33.45
STYC10	132	30.11	10.19	11.08	25.5	26.62	9.73	8.93	22.68
TYNE50	22	55.19	19.73	19.29	47.18	60.06	21.83	22.03	52.9
USKM10	132	53.81	19.43	16.91	44.39	66.15	24.51	19.99	54.65
WALP11	132	48.92	17.48	12.64	37.36	53.33	20.57	13.35	42.44
WALP12	132	39.45	14.53	11.49	32.05	44.17	17.02	12.61	36.68
WALP13	132	31.91	12.18	8.46	25.69	34.52	13.65	9.04	28.35
WBUR10	132	32.94	10.84	10.9	26.23	43.76	15.34	14.3	36
WILL10	132	53.89	18.24	19.05	44.84	66.55	24.07	22.44	56.48
WIMB11	132	33.14	10.89	10.94	26.34	43.46	15.68	13.61	35.77
WIMB12	132	27.36	9.94	9.4	23.46	33.32	12.28	11	28.37
WIMB13	132	21.98	7.67	7.9	18.74	27.74	10.13	9.4	23.73
WIMB14	132	21.65	7.62	7.8	18.58	27.3	9.96	9.42	23.51
WISD60	66	49.86	17.06	17.41	41.54	6.54	4.52	0	6.4
WYLF10	132	48.65	15.02	15.31	36.55	61.02	21.11	18.31	48.16

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Table D.3.2a - NGET Forecast Short-Circuit Currents at 400kV and 275kV Nodes for 2008/09 (kA)

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABHA4A	400	37.28	13.39	7.1	26.04	34.65	13.4	6.1	25.05
ABHA4B	400	37.25	13.38	7.1	26.02	34.63	13.39	6.1	25.03
ABTH20	275	85.54	30.12	22.03	64.63	92.85	34.61	25.38	74.33
ALDW20	275	61.95	22.63	10.1	42.11	59.94	23.61	10.09	43.48
ALVE4A	400	25.78	9.66	4.26	17.92	21.41	8.52	3.13	15.17
ALVE4B	400	25.87	9.69	4.26	17.97	21.63	8.61	3.14	15.31
AMEM4A	400	54.2	20.38	10.72	39.54	43.87	17.4	7.17	31.78
AMEM4B	400	50.44	19.22	9.25	36.43	40.67	16.22	6.56	29.5
AXMI40	400	41.09	14.77	8.86	29.75	34.1	13.22	6.43	25.12
BAGB20	275	55.21	20.45	11.8	40.71	52.52	20.4	11.58	40.43
BARK21	275	73.81	26.62	21.03	58.68	75.33	28.54	19.53	59.89
BARK22	275	75.48	27.25	21.99	60.52	78.35	29.64	20.61	62.53

BARK40	400	108.71	38.39	27.69	81.98	96.47	37.52	20.05	73.12
BARP21	275	65.9	23.97	17.68	51.57	64.4	24.7	14.57	49.51
BARP22	275	67.98	24.71	18.78	53.72	67.86	25.95	15.77	52.47
BEDD21	275	55.02	20.36	12.6	41.4	57.39	22.18	12.72	44.08
BEDD22	275	82.21	29.47	18.76	60.44	83.47	32.41	17.27	63.1
BEDD4A	400	63.39	23.46	13.29	46.46	51.25	20.48	11.28	40.25
BEDD4B	400	11.14	4.03	4.03	9.73	11.24	4.11	4.06	9.87
BESW20	275	64.55	23.16	12.14	44.89	57.36	22.47	9.82	41.59
BIRK20	275	51.89	18	16.02	41.48	54.24	20.29	13.89	42.58
BISW20	275	70.16	25.19	12.91	48.54	65.38	25.78	10.51	46.97
BLYT21	275	62.12	22.68	9.38	41.46	56.37	22.19	8.79	40.17
BLYT22	275	52.46	19.75	7.24	35.17	43.86	17.59	5.8	30.68
BOLN40	400	65.4	23.68	14.12	47.6	53.59	20.91	10.77	40.35
BOTW40	400	79.61	27.7	18.93	58.1	72.66	27.84	14.34	53.71
BRAI4A	400	62.62	23.12	13.85	46.55	47.29	18.54	8.33	34.56
BRAI4B	400	65.41	24.21	14.42	48.66	47.78	18.77	8.38	34.92
BRAW20	275	72.38	26.01	16.74	53.52	70.83	27.27	14.57	53.14
BRAW4A	400	38.65	14.26	9.39	29.56	33.96	12.99	7.99	26.36
BRED20	275	70.15	25.63	14.36	50.6	68.51	26.62	12.49	50.14
BRFO40	400	67.22	24.42	15.33	49.87	59.22	22.85	11.63	43.94
BRIM2A	275	87.11	31.81	21.33	66.32	81.36	31.64	16.66	61.4
BRIM2B	275	85.81	31.42	20.2	64.63	80.99	32	16.47	61.72
BRIM2C	275	87.2	31.88	21.5	66.58	81.14	31.63	16.26	60.98
BRIM2D	275	83.91	30.85	19.23	62.86	78.08	31.04	14.76	58.66
BRIN21	275	65.77	23.64	14.76	48.18	70.87	27.58	13.88	52.88
BRIN22	275	70.13	25.3	17.93	53.71	73.13	28.03	17.47	57.1
BRIN2M	275	27.17	9.77	10.15	23.97	28.05	10.3	9.62	24.19
BRIN40	400	70.55	25.61	16.68	52.9	53.86	20.77	12.27	41.65
BRLE40	400	122.01	42.61	28.4	88.67	106.46	40.9	22.01	79.85
BRWA2A	275	19.7	7.22	5.38	15.59	19.8	7.54	4.78	15.44
BRWA2B	275	19.66	7.2	5.42	15.6	19.64	7.47	4.81	15.37
BRWA2C	275	19.63	7.2	5.37	15.55	19.73	7.51	4.77	15.4
BURW40	400	94.67	34.19	23.79	72.14	61.62	24.62	10.44	45.26
BUSH20	275	64.81	23.34	13.27	46.27	61.99	24.18	10.71	44.91
BUST21	275	72.8	25.87	16.81	53.4	65.96	26.34	12.48	49.73

BUST22	275	71.44	25.41	16.43	52.37	63.06	25.64	10.85	47.12
CANT40	400	79.43	28.94	18.35	59.28	64.49	25.65	10.99	47.26
CAPE21	275	54.6	18.92	18.39	45.15	59.99	22.05	18.31	49.5
CAPE22	275	35.14	12.52	12.91	30.62	38.73	14.17	13.11	33.15
CAPE4A	400	97.22	33.99	25.25	73.32	83.85	31.83	18.5	63.51
CAPE4B	400	103.76	35.88	28.17	78.91	90.54	34.2	20.63	68.99
CARE20	275	48.26	18.05	8.68	34.21	42.95	16.98	7.82	31.83
CARR20	275	81.3	28.98	22.3	63.28	86.75	32.71	21.25	67.51
CARR4A	400	116.62	41.93	22.12	81.42	91.28	35.98	15.61	66.5
CARR4B	400	115.83	41.76	21.43	80.49	89.29	35.34	14.72	64.7
CARR4H	400	121.28	43.44	23.18	84.62	93.71	36.96	15.91	68.19
CELL40	400	98.03	35.8	17.89	68.52	76.83	30.33	13.81	56.71
CHIC41	400	38.89	14.12	8.51	28.47	31.14	12.14	5.81	22.98
CHIC42	400	38.6	14	8.49	28.28	29.71	11.63	5.34	21.78
CHSI20	275	86.69	31.37	18.08	62.43	76.82	30.33	13.03	55.92
CHTE20	275	71.45	25.25	18.09	53.8	62.59	24.1	13.37	47.46
CILF2A	275	48.99	17.97	13.69	39.11	44.09	16.8	11.6	35.36
CILF2B	275	48.95	17.94	13.69	39.06	48.61	18.52	12.37	38.56
CILF40	400	81.84	29.19	19.67	60.95	68.22	26.31	13.46	50.66
CITR41	400	99.49	34.98	25.6	75.07	105.8	40.59	21.85	79.24
CITR42	400	99.41	34.95	25.56	75	105.62	40.55	21.65	79
CLEV40	400	74.19	27.07	18.1	56.38	59.46	23.54	9.67	42.97
COSO40	400	98.22	35.33	23.62	73.58	86.29	32.98	20.78	67.42
COTT40	400	123.88	43.74	33.1	94.96	119.41	44.35	34.47	97.2
COVE20	275	64.83	23.14	13.17	45.89	60.91	23.49	11.73	44.94
COVE2A	275	64.16	22.89	13.17	45.54	60.31	23.24	11.73	44.59
COWB2A	275	65.98	24.13	13.45	47.57	59.06	23.29	8.98	41.92
COWL40	400	133.05	46.79	34.76	100.93	114.23	43.54	24.93	86.5
CREB2A	275	76.93	27.48	25.59	64.46	75.92	28.27	21.84	61.82
CREB2B	275	76.86	27.46	25.56	64.4	75.88	28.26	21.82	61.78
CREB40	400	148.27	52.52	38.47	112.75	112.82	43.64	23.33	85.05
CULJ4A	400	119.39	42.08	32	91.51	113	42.32	28.94	88.79
DAIN40	400	130.97	46.56	25.71	91.55	102.15	40.16	17.54	74.34
DAMC40	400	114.52	39.72	34.77	90.94	117.9	43.37	35.58	96.91
DEES41	400	120.14	41.3	32.48	90.89	117.54	43.55	32.38	93.97

DEES42	400	111.57	38.87	28.24	83.21	104.98	39.33	26.52	82.14
DIDC41	400	127.07	44.22	36.36	98.91	129.34	47.47	39.58	106.71
DIDC42	400	110.92	38.24	34.07	88.15	112.37	40.96	36.61	94.53
DINO40	400	86.81	29.05	26.2	67.29	89.4	32.65	26.45	72.62
DRAK21	275	69.09	24.46	18.49	53.09	70.76	26.48	19.5	56.95
DRAK22	275	71.64	25.49	21.12	57.17	76.18	28.31	22	62.04
DRAK41	400	111.91	39.85	25.66	82.01	107.17	40.57	26.61	83.99
DRAK42	400	86.8	31.41	18.08	62.5	81.26	31.25	17.07	61.26
DRAX41	400	124.87	43.13	36.68	97.68	129.38	47.23	39.62	106.42
DRAX42	400	142.34	48.78	41.37	110.35	144.23	52.75	42.99	117.59
DUBR4A	400	39.76	14.76	9.05	29.92	31.49	12.24	5.99	23.31
DUBR4B	400	49.04	18.4	10.64	36.65	40.2	15.85	7.35	29.77
DUNG20	275	42.44	15.6	12.73	34.78	47.38	17.83	13.8	39.01
DUNG40	400	63.96	24.59	12.81	47.59	67.63	27.03	13.36	51.58
EALI20	275	62.54	22.25	17.89	49.36	67.61	26.65	13.67	51.36
EASO40	400	85.46	30.91	20.35	64.06	66.02	25.44	14.68	50.66
ECLA40	400	117.71	42.64	25.26	85.56	91.92	36.04	16.27	67.24
EGGB41	400	99.66	35.09	26.96	76.59	95.83	35.74	24.78	75.31
EGGB42	400	130.83	44.98	36.48	100.09	128.09	47.4	33.09	100.12
ELLA20	275	69.2	25.15	13.52	49.1	61.24	24.06	10.41	44.44
ELST21	275	68.23	24.54	17.51	52.21	74.19	28.04	18.73	58.38
ELST22	275	63.78	22.92	13.44	45.85	70.94	27.12	14.32	52.68
ELST2A	275	67.48	24.26	17.44	51.75	73.3	27.68	18.65	57.79
ELST2B	275	63.12	22.68	13.42	45.49	70.12	26.79	14.3	52.19
ELST40	400	84.29	30.18	20.7	63.38	92.87	35.43	21.69	71.8
ELST4A	400	58.93	22.02	14.34	45.49	54	20.69	14.33	43.59
ELST4B	400	45.19	17.19	8.35	32.65	41.39	16.12	8.42	31.21
ENDE40	400	90.62	33.17	18.79	65.7	61.36	24.49	9.49	44.12
EXET40	400	58.96	20.56	13.02	42.09	55.36	21.11	11.42	41.27
FAWL40	400	86.32	29.55	21.72	63.51	85.87	31.95	22.13	67.32
FECK20	275	67.93	24.59	15.53	50.3	67.45	25.86	15.74	52.31
FECK40	400	85.3	31.53	15.32	59.9	71.25	27.95	14.02	53.56
FENW4A	400	85.44	30.65	21.53	64.87	70.97	27.2	14.12	52.59
FERR21	275	71.24	25.39	19.69	55.59	75.47	28.24	20.31	60.25
FERR22	275	76.78	27.08	24.49	62.78	83.07	30.56	25.98	69.19

FERR23	275	84.49	29.49	25.17	66.87	92.83	34.24	26.94	75.37
FERR2A	275	84.56	29.52	25.24	66.99	92.6	34.18	26.73	75.07
FERR2B	275	70.75	25.23	19.43	55.11	74.57	27.98	19.45	59.02
FERR4A	400	88.94	31.45	23.44	67.91	79.95	30.06	20.23	62.74
FFES21	275	37.59	13.92	7.76	27.44	36.83	14.46	6.63	27.07
FFES22	275	35.18	13.28	5.87	24.65	33.68	13.48	4.48	23.55
FIDF21	275	67.71	22.93	23.89	56.32	71.91	25.87	24.85	61.44
FIDF22	275	68.19	23.26	23.86	56.75	71.52	25.86	24.44	61.01
FIDF23	275	85.51	28.85	25.92	66.72	87.46	31.84	26.81	71.84
FIDF24	275	85.99	28.92	26.11	67.01	88.71	32.23	27.29	72.86
FLEE40	400	105.14	36.74	23.62	75.57	90.71	34.84	19.44	68.71
FORD4A	400	39.02	14.52	8.73	29.26	30.98	12.1	5.79	22.91
FORD4B	400	49.04	18.43	10.37	36.43	39.87	15.83	6.48	28.87
FOUR20	275	28.72	11.35	3.16	19.21	22.84	9.43	2.33	15.66
FROD2A	275	66.42	22.76	23.2	55.38	69.43	25.23	22.61	58.29
FROD2B	275	65.46	22.31	23.1	54.65	68.11	24.69	22.35	57.27
FROD40	400	106.86	36.45	30.57	82.12	93.72	34.82	25.57	74.82
GRAI40	400	156.75	53.65	45.65	121.52	161.18	59.36	47.67	131.62
GREN40	400	84.03	31.51	14.28	58.85	53.49	21.7	8.7	39.38
GRIW40	400	80.68	29.13	21.24	62.44	67.85	26.12	13.7	50.63
GRST21	275	90.32	31.35	27.46	71.8	98.76	36.15	29.25	80.37
GRST22	275	90.6	31.44	27.62	72.08	99.27	36.31	29.5	80.86
GRTO2A	275	57.24	20.71	12.09	41.38	56.32	22.6	8.03	39.99
GRTO2B	275	57.3	20.72	12.14	41.45	56.43	22.62	8.12	40.11
HACK2A	275	68.05	25.23	16.16	51.83	64.76	25.37	12.3	48.17
HACK2B	275	67.7	25.07	16.03	51.49	62.65	24.54	12.16	46.86
HAKB2A	275	13.05	5.17	1.71	9.01	9.42	3.95	0.81	6.39
HAKB4A	400	43.87	16.63	6.48	30	36.18	14.4	5.53	25.89
HAMB4A	400	69.78	25.55	13.25	49.37	57.95	22.92	8.7	41.11
HAMB4B	400	69.71	25.52	13.23	49.32	57.86	22.88	8.68	41.04
HAMH20	275	80.49	28.4	17.48	57.65	75.3	28.99	14.17	55.17
HAMH2A	275	70.82	25.23	18.11	53.79	68.42	25.9	16.01	52.64
HAMH40	400	81.13	29.6	15.66	57.53	71.81	27.97	13.04	52.6
HAMH4A	400	79.62	29.03	15.66	56.72	70.62	27.46	13.06	51.89
HARK21	275	40.95	15	9.04	30.26	44.86	17.05	10.43	34.55

HARK22	275	45.82	16.96	9.38	33.36	50.07	19.21	10.89	38.06
HARK40	400	49.5	18.57	7.27	33.53	44.52	17.37	8.51	33.08
HARM20	275	66.65	24.15	12.28	46.42	57.75	22.69	8.9	40.99
HATL20	275	90.94	31.38	22.5	66.87	90.34	33.83	22.85	70.69
HAWP20	275	79.26	28.24	16.99	56.93	71.9	27.78	13.49	52.77
HAWP4A	400	51.13	18.64	11.72	38.09	41.67	16	8.99	31.62
HEYS40	400	98.83	34.32	25.66	74.2	103.09	38.14	28.71	82.66
HIGM20	275	70.46	25.67	19.47	55.78	65.98	25.36	15.69	51.57
HIGM2A	275	45.84	16.63	14.94	38.46	46.09	17.27	13.09	37.51
HIGM40	400	86.58	32.13	18.41	63.85	70.98	27.96	12.07	51.61
HIGM4A	400	67.11	24.88	16.6	51.78	56.71	21.98	11.75	42.83
HINP21	275	23.87	8.52	8.12	20.17	26.21	9.61	8.82	22.42
HINP22	275	23.9	8.54	8.05	20.13	26.64	9.78	8.86	22.7
HINP40	400	70.86	24.97	16.98	52.29	69.67	26.16	18.6	55.59
HUMR40	400	130.01	45.41	39.1	103.32	130.83	48.26	39.15	107.39
HURS20	275	71.19	25.3	18.75	54.53	72.87	29.52	15.68	57.43
HUTT40	400	66.04	24.3	11.51	45.88	48.35	19.44	6.88	34.37
IMPP40	400	57.18	21.01	12.59	42.31	47.56	18.36	9.9	35.87
INDQ40	400	35.27	12.5	6.75	24.44	36.25	13.8	7.41	26.92
IROA20	275	55.1	20.28	10.68	39.36	53.22	20.75	10.22	39.56
IROA2A	275	54.6	20.09	10.68	39.09	52.76	20.55	10.22	39.28
IROA2B	275	54.6	20.09	10.68	39.09	52.76	20.55	10.22	39.28
IRON40	400	90.72	32.31	20.07	65.77	85.64	32.57	19.89	65.95
IVER21	275	66.29	23.99	16.4	50.33	69.53	26.45	16.68	54.08
IVER22	275	66.63	24.13	15.3	49.43	62.87	24.33	13.47	47.89
IVER2A	275	46.33	17.07	11.51	35.64	45.5	17.59	10.51	35.38
IVER4A	400	48.87	18.18	11.18	36.89	44.73	17.22	10.54	34.89
IVER4B	400	43.82	16.56	9.49	32.91	38.48	14.99	8.67	29.87
JORD20	275	51.1	18.96	9.3	36.12	51.67	21.25	8.02	38.07
KEAD41	400	131	46.97	34.65	101.08	107.15	41.1	23.27	81.4
KEAD42	400	123.67	44.21	32.74	95.26	106.4	40.53	24.43	81.75
KEAD43	400	58.3	21.64	12.11	42.72	42.87	17.08	5.8	29.96
KEAD4A	400	126.02	45.31	32.85	96.93	96.86	37.67	17.39	70.66
KEAD4B	400	125.08	44.81	32.82	96.2	98.34	38.12	18.14	72.05
KEAD4C	400	87.25	31.5	25.71	70.26	75.9	28.69	20.44	61

KEAD4D	400	87.25	31.5	25.71	70.26	75.9	28.69	20.44	61
KEAP41	400	125.1	45.04	32.34	96.04	102.24	39.46	21.22	77.02
KEAP42	400	120.73	43.28	31.35	92.56	103.57	39.53	23.53	79.44
KEAR20	275	75.01	26.19	20.28	57.33	81.31	30.29	20.65	63.48
KEAR40	400	91.98	33.41	17.35	64.6	78.22	30.45	15.04	58.1
KEMS40	400	143.58	49.82	38.83	109.28	124.73	47.94	24.59	92.39
KIBY21	275	86.76	29.38	23.33	64.88	86.31	32.69	18.1	64.33
KIBY22	275	76.6	26.44	19.78	57.17	70.81	26.78	15.46	53.32
KILL40	400	139.87	48.5	42.92	111.5	145.58	53.32	44.04	119.44
KINO41	400	134.12	46.22	39.68	105.04	131.24	48.48	38.01	106.58
KINO42	400	117.45	40.61	36.07	93.51	120.51	44.17	37.34	99.81
KIRK20	275	60.17	21.75	13.76	44.52	57.07	22.33	10.97	42.56
KIRK2A	275	61.59	22.12	14.38	45.66	57.46	22.9	10.96	43.34
KITW20	275	68.86	24.63	12.86	47.69	67.93	26.46	11.48	48.9
KNAR20	275	30.71	12.48	2.61	20.27	24.97	10.41	2.88	17.6
LACK20	275	60.99	21.5	16.25	46.65	63.52	23.77	17.06	50.68
LACK2A	275	86.6	30.26	25.43	68.23	94.97	34.92	26.83	76.22
LACK2B	275	91.47	31.71	28.1	72.94	101.45	36.99	30.63	82.95
LACK2C	275	87.86	30.64	26.07	69.4	96.34	35.4	27.43	77.48
LACK40	400	89.29	31.72	21.97	66.83	83.85	31.42	21.94	66.37
LALE20	275	62.25	22.24	17.2	48.66	67.9	26.41	16.1	53.44
LAND41	400	34.09	12.2	6.54	23.8	33.57	12.93	6.08	24.37
LAND42	400	34.18	12.23	6.58	23.87	33.53	12.92	6.06	24.33
LAND4A	400	33.91	12.13	6.57	23.73	33.27	12.81	6.06	24.17
LANG40	400	42.95	14.94	9.55	30.68	45.94	17.11	11.76	35.95
LEGA40	400	102.53	36.16	23.54	74.68	76.75	30.19	13.32	56.02
LEGA4A	400	68.14	24.37	19.19	53.66	54.9	21.14	12.4	42.3
LEGA4B	400	68.18	24.38	19.2	53.67	54.97	21.16	12.4	42.33
LEIB4A	400	77.8	28.8	16.67	57.41	57.61	22.67	9.61	41.67
LEIB4B	400	103.65	37.89	22.26	75.85	74.98	29.64	11.74	53.66
LISD20	275	79.64	27.26	20.28	58.83	79.97	30.72	16.92	60.36
LISD2A	275	50.94	17.72	16	41.07	52.82	19.91	13.63	41.78
LITB40	400	80.88	29.31	19.15	60.61	63.82	24.65	15.51	50.37
LITT2A	275	60.15	21.76	15.58	46.36	59.66	23.7	15	48.52
LITT2B	275	60.01	21.73	15.41	46.14	60.55	23.93	15.59	49.42

LITT2C	275	50.05	18.57	13.45	39.71	48.69	18.56	13.39	39.65
LITT2D	275	50.42	18.73	13.56	40.05	49.24	18.79	13.52	40.08
LITT40	400	101.49	35.85	26.42	77.13	107.07	40.03	29.99	86.6
LITT4A	400	91.01	32.81	20.7	67.1	81.45	31.74	14.13	59.02
LITT4B	400	91.04	32.82	20.69	67.11	81.45	31.75	14.11	59.01
LOVE40	400	98.86	34.02	23.53	71.64	90.17	34.45	17.82	66.54
MACC20	275	54.23	20.05	13.4	41.75	51.81	19.97	11.59	39.84
MACC40	400	85.04	31.45	15.73	60.21	63.59	25.43	9.59	45.55
MAGA20	275	57.07	21.27	10.5	40.57	53.07	20.84	9.88	39.36
MANN40	400	58.8	20.79	13.13	42.53	53.27	20.34	11.46	40.22
MEDW40	400	131.59	46.16	33.22	98.51	126.43	47.75	30.25	97.78
MELK2A	275	44.73	16.46	13.07	36.35	44.51	16.88	12.11	35.98
MELK2B	275	43.45	16.02	12.48	35.14	44.5	16.9	11.96	35.86
MELK40	400	110.87	39.79	22.36	78.63	89.89	35.2	16.17	65.95
MILH2A	275	43.71	16.42	6.98	30.2	43.8	17.95	6.68	32.06
MILH2B	275	43.67	16.41	6.97	30.17	43.75	17.93	6.66	32.02
MITY40	400	86.07	31.88	15.39	60.49	62.42	25.08	9.12	44.59
MONF21	275	86.62	30.33	27	69.9	92.31	34.24	25.66	74.09
MONF22	275	78.4	27.77	24.37	63.64	80.8	30.11	22.57	65.15
MONF40	400	100.7	35.5	26.15	76.36	90.24	34.05	20.97	69.12
MONF4A	400	87.69	31.16	22.61	66.68	77.71	29.38	17.95	59.5
NECH20	275	88.01	30.72	21.05	64.49	81	31.14	15.86	59.9
NEEP20	275	60.32	21.87	13.48	44.41	66.28	26.09	12.46	49.35
NEEP4A	400	47.89	17.82	9.94	35.14	43.44	17.09	8.14	32.31
NEWX20	275	77.94	27.52	19.48	58.39	83.39	33.44	16.05	63.34
NFLE40	400	118.61	41.58	30.21	89.01	91.61	35.87	16.21	66.95
NHYD2A	275	45.97	17.53	7.42	32.21	39.1	18.43	3.13	29.19
NHYD2B	275	46.16	17.62	7.05	31.96	37.25	17.44	3.2	27.86
NINF40	400	60.03	22.37	12.4	44.03	55.25	21.74	11.4	42.14
NORL2A	275	52.81	19.49	10.2	37.77	53.78	22.19	7.31	38.7
NORL2B	275	51.79	19.2	9.44	36.59	52.36	21.9	6.57	37.54
NORT21	275	74.46	26.12	18.05	54.99	74.56	28.18	17.02	56.87
NORT22	275	65.69	23.66	16.09	49.56	61.79	23.55	13.95	47.26
NORT40	400	85.76	30.62	19.49	62.79	72.16	27.68	14.95	54.1
NORW40	400	60.55	22.38	11.1	42.76	47.18	18.54	8.77	34.99

NURS40	400	64.35	22.65	15.7	47.73	63.16	23.74	15.04	48.62
NURS4A	400	55.05	19.74	12.41	40.33	49.83	18.98	10.93	37.77
OCKH20	275	67.02	24.08	12.94	46.99	67.2	26.06	11.98	48.83
OCKH2A	275	57.64	20.78	12.58	41.97	56.36	21.75	11.71	42.48
OFFE20	275	70.1	25.34	12.32	48.16	61.12	24	9.92	43.86
OLDB20	275	57.21	20.89	10.73	40.26	58.21	22.65	10.4	42.44
OLDB2A	275	56.68	20.69	10.73	39.99	57.66	22.42	10.41	42.12
OLDB4A	400	37.61	14.19	7.09	27.16	33.95	13.29	6.51	25.31
OSBA41	400	74.48	27.26	17.07	55.63	54.11	21.22	9.16	39.17
OSBA42	400	75.43	27.71	17.2	56.38	52.86	20.8	8.81	38.22
PADI40	400	84.97	30.89	17.32	61	61.6	24.47	9.32	43.91
PAFB4A	400	56.83	21.71	9.48	40.18	36.95	15.21	3.66	25.17
PAFB4B	400	56.94	21.75	9.51	40.27	37.03	15.24	3.67	25.23
PELH40	400	144.07	50.96	36.21	108.27	113.1	43.84	22.16	84.16
PEMB40	400	59.62	21.09	16.26	46.09	65.96	24.41	17.86	52.38
PENN20	275	74.7	26.69	16.86	54.61	76.77	29.3	16.42	57.86
PENN2A	275	73.8	26.37	16.82	54.11	75.82	28.91	16.39	57.28
PENN4A	400	47.75	17.83	9.42	34.63	41.5	16.2	8.54	31.44
PENN4B	400	49.93	18.64	9.64	36.01	45.34	17.68	9.04	34.04
PENT40	400	92.33	30.81	27.35	70.92	92	33.88	24.2	72.12
PEWO21	275	70.91	25.19	20.74	56.37	70.51	26.51	18.16	55.65
PEWO22	275	71.63	25.41	21.26	57.19	67.52	25.31	18.2	53.99
PEWO2A	275	71.96	25.51	21.41	57.49	67.82	25.39	18.48	54.39
PEWO2B	275	72.65	25.74	21.61	58.01	73.39	27.47	19.7	58.55
PEWO40	400	108.96	38.08	24.83	78.68	97.62	37.51	19.08	72.12
PITS20	275	61.77	22.35	13.44	45.05	68.53	26.94	12.52	50.61
POPP20	275	29.95	12.34	1.98	19.43	23.72	9.99	2.66	16.79
PYLE20	275	60.31	22.41	10.77	42.46	54.49	21.54	9.27	39.73
PYLE2A	275	59.74	22.19	10.77	42.15	54.02	21.33	9.28	39.44
PYLE2B	275	59.74	22.19	10.77	42.15	54.02	21.33	9.28	39.44
QUER4A	400	83.59	29.9	18.09	60.37	74.32	28.76	13.28	53.95
QUER4B	400	83.54	29.9	17.99	60.28	74.45	28.81	13.3	54.05
RAIN20	275	102.29	33.8	30.27	78.07	98.47	36.52	23.69	75.34
RASS40	400	55.28	20.3	12.04	40.75	42.61	16.76	6.85	30.56
RATS2A	275	43.78	15.97	13.6	36.18	44.94	16.73	14.22	37.88

RATS41	400	99.68	35.98	22.48	73.36	98.1	37.12	23.53	76.03
RATS42	400	112.52	39.98	25.54	82.09	111.68	42.01	27.25	86.67
RAYL40	400	106.22	38.11	24.61	78.51	83.3	32.51	15.64	61.62
REBR21	275	76.3	27.88	19.01	58.43	71.59	28.12	13.33	53.1
REBR22	275	76.75	28.09	19.27	58.99	72.12	28.47	12.75	53.01
ROCH20	275	63.43	22.93	14.35	46.78	62.1	23.9	12.53	46.32
ROCH4A	400	32.19	12.01	7.67	24.65	28.77	11.06	6.69	22.34
ROCK40	400	102.79	35.21	28.9	78.7	88.64	33.12	23.4	70.24
ROWD40	400	69.21	25.5	14.45	50.51	53.99	21.64	7.48	38.09
RUGE40	400	70.28	25.49	14.61	50.66	68.86	26.26	15.95	53.09
RYEH40	400	85.46	30.56	22.75	65.97	82.88	31.15	22.21	66.26
RYEH4A	400	77.53	28.26	19.59	59.56	68.77	26.21	16.9	53.97
SAEN20	275	73.4	26	21.66	58.44	73.15	27.09	21.85	60.16
SAES20	275	74.07	26.2	22.02	59.07	74.64	27.53	23.33	62.27
SALH20	275	76.59	26.9	17.18	55.23	74.33	28.31	14.96	55
SEAB40	400	69.58	24.57	17	51.75	67.6	25.21	18.57	54.23
SELL40	400	67.65	25.43	13.81	49.77	68.57	27	14.31	52.5
SHBA40	400	98.12	34.81	28.17	77.4	94.29	35.22	26.57	76.38
SHEC20	275	54.97	20.17	11.1	39.63	57.86	23.64	8.23	41.66
SHRE4A	400	66.75	24.42	13.6	48.14	53.26	21.05	8.25	38.02
SING40	400	110.69	39.14	27.68	83.04	85.67	33.49	14.7	62.06
SIZE40	400	73.62	26.22	18.99	56.07	74.04	27.57	20.68	59.67
SJOW20	275	91.62	32.95	23.88	70.48	101.86	39.22	27.36	82.83
SJOW2A	275	72.1	25.65	21.04	57.32	73.85	30.12	19.5	62.09
SJOW2B	275	72.1	25.65	21.04	57.32	73.85	30.12	19.5	62.09
SJOW40	400	100.09	35.14	26.14	75.83	107.83	40.89	26.59	84.41
SKLG20	275	68.84	24.61	15.53	50.34	64.54	25.07	12.42	47.87
SMAN20	275	73.97	26.72	17.1	54.9	71.71	27.76	13.38	52.64
SPEN21	275	51.21	18.87	9.1	35.79	45.08	17.7	7.67	32.71
SPEN22	275	53.07	19.6	9.22	36.93	44.65	17.7	7.16	32.19
SPLN40	400	66.15	24.1	17.73	51.82	59.2	22.46	15.93	47.68
SSHI20	275	64.89	23.66	10.05	43.51	56.47	22.24	9.16	40.62
STAH4A	400	61.2	22.67	11.03	43.09	49.2	19.63	6.94	34.71
STAH4B	400	61.14	22.65	11.02	43.05	49.14	19.61	6.93	34.66
STAL21	275	46.01	16.93	11.06	35.01	45.47	17.4	10.18	34.78

STAL22	275	56.91	21.26	10.19	40.26	50.31	19.83	8.68	36.73
STAL4A	400	34.38	12.8	7.85	25.96	29.05	11.2	6.49	22.33
STAY41	400	71.25	26.42	14.1	51.47	57.81	22.72	10.8	42.93
STAY42	400	59.11	22.37	10.91	42.55	40.06	16.27	4.65	27.66
STAY4A	400	64.98	24.18	13.64	47.84	52.58	20.62	10.37	39.53
STEW20	275	87.91	31.25	14.82	59.01	87.87	33.81	15.35	63.16
STEW2A	275	87.74	31.2	14.76	58.88	87.61	33.75	15.1	62.83
STEW4A	400	35.77	13.1	8.48	27.01	34.33	13.04	8.46	26.9
STEW4B	400	36.17	13.22	8.69	27.39	35.33	13.41	8.73	27.69
STSB40	400	59	21.65	13.23	43.85	52.07	20.25	10.48	39.12
STSB4A	400	50.18	18.62	11.94	38.28	44.15	17.12	9.72	33.93
SUND41	400	118.03	42.72	26.11	86.52	91.66	35.81	16.68	67.32
SUND42	400	93.9	34.44	20.07	68.78	74.97	29.26	13.89	55.27
SUTB4A	400	88.52	31.99	21.39	66.64	77.78	29.7	19.28	61.28
SWAN20	275	55.58	20.32	13.64	42.38	59.53	22.69	13.82	45.91
SWAN40	400	48.04	17.56	10.96	35.8	42.76	16.39	9.47	32.66
SWAN4A	400	47.46	17.37	10.75	35.31	42.16	16.18	9.28	32.16
SWAN4B	400	47.47	17.37	10.75	35.32	42.2	16.19	9.3	32.19
TAUN4A	400	51.34	18.48	10.49	36.62	44	17.25	6.94	31.33
TAUN4B	400	52.23	18.77	10.66	37.21	45.45	17.78	7.4	32.55
TEMP21	275	60.6	21.99	12.88	43.99	64.48	25.51	11.63	47.71
TEMP22	275	60.83	22.06	12.98	44.19	65.03	25.72	11.79	48.16
THOM20	275	76.07	27.05	21.34	59.6	77.82	29.4	20.01	61.59
THOM40	400	109.61	38.61	27	81.6	93.2	35.66	18.73	69.16
THTO41	400	113.94	40.77	28.26	85.92	86.04	33.46	14.81	62.13
THTO42	400	117.86	42.22	28.93	88.64	86.87	33.87	14.68	62.58
THUR20	275	65.4	24.28	10.82	45.15	65.02	25.74	10.54	46.94
THUR2A	275	65.91	24.55	10.22	44.95	61.62	24.73	8.2	43.18
TILB21	275	75.49	26.79	21.25	59.13	79.42	29.52	21.92	63.66
TILB22	275	76.07	26.99	22.41	60.58	80.24	29.77	23.08	65.18
TILB4A	400	99.37	35.46	25.73	75.89	87.16	33.2	20.1	67.05
TILB4B	400	99.34	35.68	24.73	75.18	87.25	33.32	19.79	66.92
TINP2A	275	59.67	21.88	13.65	44.6	58.43	22.74	12.25	44.41
TINP2B	275	59.67	21.88	13.65	44.6	58.44	22.74	12.25	44.41
TODP20	275	63.23	22.37	15.25	46.89	57.86	22.29	11.19	42.71

TOTE21	275	82.75	30.18	20.78	63.46	80.93	31.4	16.77	61.18
TOTE22	275	83.22	30.39	21.02	64	82.63	32.07	16.92	62.27
TOTW21	275	80.6	29.58	18.32	60.15	79.4	32.83	14.17	60.59
TOTW22	275	81.43	29.84	18.66	60.86	80.17	33.08	14.56	61.35
TRAW20	275	45.94	16.24	13.9	36.86	48.6	18.25	11.94	37.75
TRAW40	400	62.75	22.86	12.68	45.01	48.95	19.38	8.54	35.95
TREM20	275	42.98	16.63	5.91	29.43	36.02	14.7	4.45	25.24
TREU4A	400	98.07	34.76	22.44	71.59	77.51	30.36	12.49	55.42
TREU4B	400	100.12	35.42	22.9	72.99	79.36	31.1	12.67	56.64
TYNE20	275	60.22	21.98	9.08	40.17	53.35	21	8.56	38.26
TYNE2A	275	56.59	20.99	8.29	37.98	48.4	19.22	7.29	34.47
UPPB21	275	49.41	18.23	11.9	37.68	47.38	18.35	9.83	35.78
UPPB22	275	49.35	18.23	11.88	37.66	44.94	17.34	10.04	34.56
USKM2A	275	56.92	21.09	11.7	41.53	56.92	22.12	11.07	42.35
USKM2B	275	63.61	23.23	14.05	46.91	67.82	26.04	14.43	51.25
WALH40	400	64.01	23.56	12.27	45.59	48.34	19.13	8.13	35.18
WALP40	400	103.5	36.95	27.13	79.39	90.32	34.34	22.39	70.94
WALX21	275	98.36	35.46	27.02	77.16	95.14	36.3	24.77	76.11
WALX22	275	97.72	35.28	26.97	76.85	94.26	36.01	24.6	75.53
WALX4A	400	79.28	28.45	21.42	61.66	75.32	28.45	19.3	59.54
WALX4B	400	73.04	26.6	19.09	56.7	66.02	25.12	16.48	52.01
WARL20	275	82.85	29.6	19.74	61.61	70.42	27.45	13.03	51.86
WASF2A	275	64.26	22.91	14.55	46.95	53.05	20.81	8.4	37.83
WASF2B	275	68.6	24.28	15.62	49.95	57.94	22.84	8.65	40.95
WATS21	275	64.36	23.38	15.04	48.1	65.13	25.12	13.28	48.81
WATS22	275	62.01	22.4	12.77	44.45	63.76	24.72	11.53	46.49
WBOL20	275	73.97	26.52	12.28	49.79	63.42	24.9	10.38	45.6
WBUR40	400	118.71	42.68	30.33	90.69	115.9	43.61	29.61	91.28
WEAV4A	400	76.7	28.41	13.97	54.15	52.82	21.45	5.8	36.13
WEAV4B	400	78	28.83	14.37	55.14	53.7	21.8	5.9	36.74
WHAM2A	275	56.75	21.18	14	43.96	57.72	22.25	13.68	45.15
WHAM2B	275	56.49	21.07	13.93	43.73	54.09	20.89	13.03	42.57
WHAM40	400	105.18	37.16	26.63	79.19	103.82	40.32	20.93	77.95
WHAM4A	400	91.2	32.47	22.24	68.15	90.31	36.36	17.47	68.89
WHAM4B	400	91.23	32.48	22.16	68.09	90.37	36.39	17.32	68.79

WHGA20	275	66.48	23.74	15.44	49.01	64.06	24.69	12.18	47.1
WHSO20	275	68.19	24.66	16.24	51.12	74.08	28.18	17.22	57.08
WHSO2A	275	51.82	18.9	13.49	40.22	53.76	20.36	14.1	42.9
WHSO2B	275	51.82	18.9	13.49	40.22	53.76	20.36	14.1	42.9
WHSO4A	400	65.47	23.5	15.78	49.01	57.47	21.91	13.04	44.03
WIBA20	275	60.44	21.95	12.77	43.81	65.34	26.18	10.12	47.15
WIEN2A	275	54.6	20.05	9.61	37.96	52.8	20.72	8.67	37.97
WIEN2B	275	58.74	21.21	12.32	42.32	57.08	22.22	10.84	42.26
WILE40	400	112.63	40.37	24.06	81.15	99.03	38.38	18.76	73.03
WILL20	275	41.53	14.85	14.73	35.73	44.82	16.44	14.85	38.1
WIMB20	275	84.68	29.74	21.27	63.33	92.57	36.3	19.84	71.18
WIMB2M	275	39.72	15.09	7.56	28.91	37.54	14.88	6.45	27.49
WISD20	275	81.96	28.77	24.87	65.56	90	34.73	21.88	70.99
WISD2A	275	63.5	22.54	19.08	50.95	68.04	26.63	17.74	55.4
WISD2B	275	72.04	25.68	20.07	56.38	72.95	29.43	18.72	60.34
WMEL20	275	74.29	26.55	14.21	51.75	71.29	27.7	13.79	52.97
WTHU2A	275	52.01	19.3	13.51	40.81	49.22	18.93	11.81	38.59
WTHU2B	275	52.61	19.55	13.68	41.33	49.96	19.24	11.86	39.06
WWEY21	275	77.47	28.18	17.43	57.28	78.46	30.19	16.77	59.47
WWEY22	275	64.79	24.02	12.96	46.93	63.33	24.57	12.36	47.11
WWEY2A	275	55.8	20.22	14.85	43.45	56.79	21.9	13.57	44.54
WWEY4A	400	44.42	16.82	8.22	32.01	39.19	15.36	7.72	29.44
WWEY4B	400	51.76	19.25	11.71	38.92	46.07	17.92	10.43	35.77
WYLF40	400	66.88	22.33	19	50.58	67.45	24.48	19.63	54.25
WYMO40	400	114.94	41.39	26.77	85.29	86.19	33.64	15.59	63.16
YGAR4A	400	59.71	21.65	12.73	43.35	45.67	18.18	6.92	32.62
YWER4A	400	59.5	21.51	12.95	43.36	45.54	18.11	6.61	32.23

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Table D.3.2b - NGET Forecast Short-Circuit Currents at 132kV and Lower Voltage Nodes for 2008/09 (kA)

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABTH11	132	31.31	12.13	7.01	24.17	37.31	14.48	9.52	29.99
ABTH12	132	51.72	18.95	14.04	40.84	61.59	23.12	18.12	50.81
ABTH13	132	11.73	4.62	1.6	8.14	10.33	3.95	2.35	7.93
AMEM10	132	27.59	9.94	9.85	23.9	33.83	12.47	11.06	28.69
AXMI10	132	27.23	9.44	9.07	22.42	32.98	12.03	10.23	27.24
BARK10	132	26.02	9.16	9.89	22.84	28.16	10.24	10.3	24.78
BLYT60	66	51.25	16.98	14.95	38.96	29.7	10.77	11.98	27.21
BRIM10	132	52.91	18.19	20.51	46.24	64.53	23.13	24.4	57.11
BRWE10	132	19.96	6.98	8.09	17.95	6.07	2.23	2.12	5.27
CARR11	132	28.21	10.34	8.34	22.96	33.01	12.52	9.42	27.12
CARR12	132	51.24	17.6	16.56	41.45	63.03	23.08	19.55	52.2
CELL11	132	45.08	15.2	14.88	36.38	56.14	20.22	17.16	45.75

CELL12	132	30.49	10.61	10.5	25.51	36.35	13.24	11.69	30.41
DRAK10	132	34.8	10.16	9.51	23.88	42.64	14.18	12.52	32.58
DRAX11	132	15.65	5.38	5.61	13.21	19.6	6.98	7.14	17.01
DRAX12	132	14.88	5.11	5.35	12.57	18.67	6.64	6.83	16.22
EALI60	66	60.19	20.59	19.17	48.29	69.52	25.51	20.52	56.6
ECLA10	132	45.7	15.77	16.49	38.79	53.14	19.37	17.82	45.21
ELLA11	132	27.72	9.71	9.03	22.76	33.71	12.44	10.19	27.78
ELLA12	132	28.23	9.9	9.08	23.08	33.78	12.47	10.16	27.8
ELST11	132	29.75	9.84	10.25	24.17	37.34	13.49	12.24	31.32
ELST12	132	38.36	12.52	11.92	29.62	45.7	16.57	13.37	36.8
ELST1A	132	10.55	3.81	3.31	8.7	12.92	4.8	3.83	10.62
ELST1B	132	10.23	3.72	3.15	8.42	12.53	4.67	3.65	10.27
FAWL10	132	51.67	16.53	18.21	41.59	70.59	24.28	25.27	59.61
FERR11	132	35.72	12.21	12.33	29.59	43.07	15.56	15.23	37.24
FERR12	132	32.82	11.26	10.59	26.51	40.11	14.6	13.12	33.77
FERR13	132	10.76	3.97	3.4	9.01	11.35	4.2	3.59	9.53
GREN11	132	42.31	16.07	12.18	34.91	48.89	19.35	13.49	40.86
GREN12	132	44.23	16.36	12.91	36.04	50.96	19.89	13.97	42.1
HAMH11	132	28.25	9.73	10.59	24.35	35.03	12.67	12.43	30.35
HAMH12	132	28.31	9.73	10.41	24.17	29.56	10.72	10.24	25.4
HARK11	132	35.79	11.5	8.06	24.33	40.71	15.07	9.2	30.51
HARK12	132	32.88	11.16	7.94	23.71	36.97	13.95	8.95	28.68
HARK13	132	23.83	9.47	5.75	19.14	23.33	9.21	5.98	19
HEYS10	132	41.37	14.94	15.06	36.19	51.03	18.74	17.54	44.03
IROA11	132	42.94	15.59	11.41	33.45	52.53	19.89	13.32	41.45
IROA12	132	43.72	15.73	11.42	33.66	53.12	20.02	13.4	41.7
IRON11	132	26.95	7.45	6.8	17.33	32.54	10.59	8.96	23.93
IRON12	132	14.6	5.3	5.41	12.9	19.45	7.08	7.27	17.27
KINO10	132	35.74	11.83	11.51	28.24	45.43	15.98	15.13	37.73
LITT11	132	19.92	6.95	8.03	17.86	26.44	9.56	10.06	23.58
LITT13	132	19.97	6.98	8.01	17.89	26.33	9.45	10.76	24.12
LITT1M	132	14.8	5.38	5.44	13.05	17.4	6.36	6.24	15.23
MELK10	132	41.95	14.71	15.53	36.33	55.21	19.97	18.98	47.21
MILH11	132	23.94	8.45	8.24	20.19	30.14	11.04	9.92	25.54
MILH12	132	24.22	8.68	7.39	19.67	30.51	11.32	8.99	24.99

NFLE11	132	38.21	12.34	12.66	30.12	46.81	16.78	14.57	38.3
NFLE12	132	31.76	11.67	11.21	27.72	34.64	12.89	11.67	29.91
NHYD60	66	40.51	13.65	12.45	31.75	54.7	19.98	15.55	43.81
OCKH10	132	26.03	9.17	8.18	21.15	29.92	10.94	9.24	24.71
OLDS11	132	30.5	11.25	5.77	21.67	29.5	11.62	4.62	21.05
OLDS12	132	29.16	11.04	5.64	21.25	26.92	10.87	3.46	18.83
PADI10	132	28.78	9.82	10.04	23.92	35.27	12.68	11.41	29.34
PEMB10	132	29.42	10.44	10.08	24.84	37.05	13.6	12.08	31.32
RATS10	132	51.47	16.36	16.13	39.27	63.33	21.96	20.46	51.51
RUGE10	132	27.93	9.58	10.08	23.62	31.19	11.11	11.84	27.56
SIZE11	132	44.85	16.17	14.52	37.39	55.16	20.3	17.27	45.99
SIZE12	132	44.86	16.17	14.53	37.4	55.19	20.33	17.18	45.92
STEN10	132	39.46	12.33	9.91	27.34	49	17.49	11.96	36.68
STES10	132	33.89	11.41	9.94	26.07	42.19	15.19	11.89	33.38
STYC10	132	30.89	10.47	11.5	26.3	28.1	10.2	10.15	24.58
TYNE50	22	55.38	19.79	19.35	47.34	60.22	21.88	22.09	53.03
USKM10	132	31.08	11.08	10.63	26.29	40.02	14.67	12.99	33.74
WALP11	132	48.97	17.51	12.65	37.41	53.42	20.61	13.39	42.53
WALP12	132	39.49	14.55	11.51	32.09	44.24	17.05	12.64	36.75
WALP13	132	31.95	12.2	8.48	25.72	34.58	13.68	9.07	28.41
WBUR10	132	32.72	10.76	10.77	25.99	43.53	15.26	14.16	35.75
WILL10	132	54.2	18.34	19.34	45.28	66.9	24.18	22.75	56.94
WIMB11	132	33.08	10.87	10.92	26.29	43.38	15.65	13.58	35.71
WIMB12	132	27.3	9.92	9.38	23.41	33.24	12.25	10.98	28.3
WIMB13	132	21.94	7.66	7.89	18.71	27.69	10.11	9.39	23.69
WIMB14	132	21.61	7.61	7.79	18.55	27.25	9.95	9.4	23.47
WISD60	66	49.9	17.08	17.42	41.57	6.54	4.52	0	6.39
WYLF10	132	48.64	15.01	15.3	36.53	61	21.1	18.3	48.14

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Table D.3.3a - NGET Forecast Short-Circuit Currents at 400kV and 275kV Nodes for 2009/10 (kA)

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABHA4A	400	37.37	13.44	7.11	26.12	34.7	13.43	6.1	25.09
ABHA4B	400	37.34	13.43	7.11	26.1	34.68	13.42	6.1	25.07
ABTH20	275	88.82	31.38	22.83	67.21	95.71	35.72	26.17	76.68
ALDW20	275	60.52	22.01	10.21	41.34	59	23.16	10.14	42.89
ALVE4A	400	25.82	9.68	4.26	17.95	21.43	8.53	3.13	15.19
ALVE4B	400	25.91	9.72	4.26	18	21.65	8.62	3.14	15.32
AMEM4A	400	54.31	20.43	10.73	39.62	43.92	17.43	7.17	31.81
AMEM4B	400	50.53	19.26	9.25	36.49	40.71	16.24	6.56	29.53
AXMI40	400	41.28	14.86	8.92	29.93	34.23	13.28	6.45	25.23
BAGB20	275	55.96	20.79	11.88	41.28	52.98	20.61	11.63	40.78
BARK21	275	74.54	26.81	21.24	59.15	76.01	28.77	19.71	60.4
BARK22	275	76.23	27.44	22.21	61.02	79.09	29.91	20.77	63.07

BARK40	400	112.87	39.26	28.32	83.85	99.84	38.71	20.35	75.1
BARP21	275	66.47	24.12	17.81	51.92	64.88	24.87	14.66	49.83
BARP22	275	68.59	24.87	18.95	54.11	68.43	26.16	15.87	52.87
BEDD21	275	55.06	20.39	12.59	41.42	57.42	22.19	12.71	44.1
BEDD22	275	82.34	29.52	18.75	60.5	83.57	32.45	17.26	63.15
BEDD4A	400	63.44	23.49	13.27	46.48	51.28	20.5	11.27	40.27
BEDD4B	400	11.15	4.03	4.03	9.74	11.24	4.11	4.06	9.87
BESW20	275	64.56	23.17	12.14	44.91	57.34	22.46	9.82	41.59
BICF4A	400	62.27	23.02	15.54	48.09	45.07	17.71	8.31	33.36
BICF4B	400	59.8	22.02	15.56	46.7	46.83	18.26	9.01	34.84
BIRK20	275	51.89	18.02	16.01	41.49	54.24	20.29	13.88	42.58
BISW20	275	70.18	25.21	12.91	48.57	65.37	25.78	10.51	46.97
BLYT21	275	62.23	22.78	9.34	41.55	56.39	22.22	8.77	40.19
BLYT22	275	52.64	19.88	7.23	35.34	43.88	17.62	5.78	30.7
BOLN40	400	66.12	23.96	14.36	48.24	53.93	21.05	10.87	40.64
BOTW40	400	81.9	28.47	19.88	60.14	74.4	28.52	14.71	55.03
BRAI4A	400	65.43	24.14	14.57	48.71	49.48	19.39	8.79	36.2
BRAI4B	400	65.39	24.2	14.41	48.63	47.54	18.69	8.28	34.71
BRAW20	275	72.55	26.12	16.75	53.68	70.93	27.33	14.57	53.22
BRAW4A	400	38.67	14.29	9.38	29.59	33.94	12.99	7.97	26.35
BRED20	275	70.17	25.67	14.34	50.64	68.48	26.63	12.48	50.13
BRFO40	400	83.2	29.93	19.89	62.22	70.93	27.38	13.92	52.64
BRIM2A	275	88.34	32.15	21.72	67.19	82.59	32.07	16.91	62.27
BRIM2B	275	86.68	31.66	20.33	65.11	81.69	32.25	16.55	62.16
BRIM2C	275	88.4	32.21	21.88	67.44	82.47	32.11	16.46	61.87
BRIM2D	275	84.75	31.08	19.35	63.31	78.76	31.29	14.8	59.06
BRIN21	275	61.64	22.12	14.21	45.49	67.06	25.95	13.52	50.22
BRIN22	275	69.52	25.02	18.08	53.47	72.68	27.8	17.58	56.9
BRIN2M	275	27.58	9.93	10.33	24.37	28.41	10.44	9.73	24.5
BRIN40	400	74.79	27.32	17.29	55.93	55.92	21.65	12.51	43.13
BRLE40	400	123.27	43.14	28.7	89.71	107.1	41.18	22.13	80.37
BRWA2A	275	19.71	7.23	5.38	15.6	19.81	7.55	4.78	15.45
BRWA2B	275	19.68	7.21	5.42	15.61	19.64	7.47	4.81	15.38
BRWA2C	275	19.65	7.2	5.37	15.56	19.74	7.52	4.77	15.41
BURW40	400	95.86	34.65	24.01	73.01	61.96	24.77	10.49	45.53

BUSH20	275	64.81	23.35	13.26	46.28	61.96	24.18	10.71	44.9
BUST21	275	72.8	25.88	16.81	53.41	65.95	26.34	12.48	49.73
BUST22	275	71.44	25.43	16.42	52.38	63.04	25.64	10.85	47.11
CANT40	400	79.46	29	18.21	59.22	64.43	25.64	10.93	47.2
CAPE21	275	54.6	18.93	18.38	45.16	59.99	22.06	18.3	49.49
CAPE22	275	35.14	12.52	12.91	30.62	38.72	14.17	13.11	33.15
CAPE4A	400	97.19	34.02	25.22	73.33	83.81	31.83	18.48	63.49
CAPE4B	400	103.74	35.91	28.14	78.92	90.51	34.2	20.61	68.98
CARE20	275	51.5	19.29	9.4	36.68	45.12	17.86	8.21	33.47
CARR20	275	81.31	29.02	22.28	63.33	86.71	32.72	21.22	67.49
CARR4A	400	116.79	42.11	22.08	81.64	91.27	36.01	15.58	66.52
CARR4B	400	115.99	41.94	21.39	80.7	89.28	35.37	14.69	64.71
CARR4H	400	121.48	43.65	23.14	84.87	93.71	37	15.88	68.21
CELL40	400	98	35.84	17.86	68.55	76.77	30.32	13.8	56.67
CHIC41	400	39.12	14.21	8.59	28.69	31.39	12.24	5.87	23.18
CHIC42	400	38.83	14.09	8.57	28.49	29.93	11.72	5.38	21.95
CHSI20	275	86.82	31.43	18.07	62.52	76.89	30.37	13.02	55.96
CHTE20	275	69.44	24.49	17.88	52.52	61.44	23.62	13.31	46.71
CILF2A	275	50.12	18.42	14.11	40.16	44.78	17.07	11.83	35.97
CILF2B	275	50.08	18.39	14.1	40.11	49.47	18.86	12.63	39.31
CILF40	400	88.14	31.44	21.43	65.89	71.94	27.81	14.06	53.39
CITR41	400	102.29	35.55	26.05	76.33	109.17	41.77	22.14	81.21
CITR42	400	102.2	35.53	26.01	76.26	108.99	41.73	21.94	80.96
CLEV40	400	74.14	27.1	17.92	56.25	59.3	23.5	9.59	42.83
COSO40	400	96.37	34.7	23.13	72.21	85.17	32.55	20.56	66.59
COTT40	400	123.93	43.77	33.09	94.99	119.5	44.39	34.46	97.24
COVE20	275	64.84	23.15	13.17	45.91	60.89	23.49	11.73	44.94
COVE2A	275	64.17	22.91	13.16	45.56	60.29	23.24	11.72	44.58
COWB2A	275	68.33	25.08	13.86	49.32	60.48	23.9	9.09	42.89
COWL40	400	133.89	47.14	34.94	101.6	114.68	43.73	24.98	86.83
CREB2A	275	77.93	27.93	25.65	65.15	76.68	28.61	21.87	62.32
CREB2B	275	77.9	27.92	25.63	65.12	76.67	28.61	21.84	62.31
CREB40	400	147.75	52.44	38.24	112.41	112.8	43.65	23.28	85.01
CULJ4A	400	120.02	42.35	32.13	92.02	113.4	42.49	29.02	89.11
DAIN40	400	131.22	46.79	25.67	91.83	102.16	40.21	17.5	74.37

DAMC40	400	114.18	39.65	34.07	90.15	117.46	43.33	35.01	96.28
DEES41	400	120.09	41.33	32.43	90.88	117.44	43.53	32.32	93.88
DEES42	400	111.52	38.89	28.19	83.19	104.87	39.31	26.46	82.05
DIDC41	400	127.73	44.51	36.53	99.47	129.85	47.68	39.72	107.15
DIDC42	400	111.43	38.47	34.2	88.61	112.69	41.1	36.71	94.82
DINO40	400	86.82	29.06	26.21	67.31	89.44	32.67	26.48	72.68
DRAK21	275	69.08	24.47	18.48	53.09	70.73	26.47	19.48	56.92
DRAK22	275	71.63	25.5	21.1	57.17	76.14	28.31	21.97	62.01
DRAK41	400	111.86	39.87	25.62	81.99	107.03	40.54	26.54	83.87
DRAK42	400	86.82	31.45	18.07	62.54	81.25	31.25	17.06	61.26
DRAX41	400	142.23	49.51	40.82	110.84	143.91	52.84	43.03	117.76
DRAX42	400	145.1	49.96	42	112.65	146.28	53.62	43.41	119.25
DUBR4A	400	40.05	14.9	9.08	30.15	31.57	12.29	6	23.37
DUBR4B	400	48.71	18.34	10.55	36.48	39.47	15.55	7.34	29.33
DUNG20	275	42.53	15.63	12.76	34.87	47.45	17.85	13.82	39.07
DUNG40	400	64.22	24.72	12.85	47.8	67.83	27.11	13.4	51.74
EALI20	275	62.69	22.29	17.92	49.45	67.73	26.7	13.68	51.43
EASO40	400	85.87	31.06	20.4	64.33	66.23	25.53	14.71	50.81
ECLA40	400	118.27	42.88	25.3	85.93	92.17	36.15	16.28	67.4
EGGB41	400	106.69	37.91	28.2	81.81	100.55	37.67	25.48	78.75
EGGB42	400	132.85	45.88	36.84	101.71	129.47	48.01	33.28	101.17
ELLA20	275	69.34	25.25	13.52	49.23	61.3	24.1	10.41	44.49
ELST21	275	68.52	24.62	17.57	52.38	74.5	28.15	18.78	58.58
ELST22	275	63.93	22.97	13.45	45.94	71.09	27.18	14.33	52.78
ELST2A	275	67.76	24.34	17.49	51.92	73.6	27.79	18.7	57.99
ELST2B	275	63.27	22.73	13.44	45.58	70.28	26.85	14.32	52.29
ELST40	400	85.82	30.52	20.89	64.06	94.72	36.14	21.87	72.99
ELST4A	400	59.31	22.13	14.4	45.7	54.34	20.82	14.39	43.82
ELST4B	400	45.36	17.25	8.36	32.76	41.54	16.17	8.44	31.31
ENDE40	400	90.71	33.23	18.78	65.77	61.38	24.51	9.48	44.14
EXET40	400	59.26	20.69	13.09	42.35	55.55	21.2	11.46	41.44
FAWL40	400	89.32	30.52	23.07	66.23	88.71	32.99	23.02	69.68
FECK20	275	67.98	24.62	15.55	50.37	67.46	25.87	15.75	52.33
FECK40	400	85.8	31.75	15.39	60.29	71.49	28.06	14.06	53.75
FENW4A	400	111.59	40.16	27.91	84.7	92.87	35.65	18.48	68.89

FERR21	275	71.43	25.5	19.72	55.78	75.6	28.31	20.32	60.36
FERR22	275	77.07	27.23	24.56	63.06	83.28	30.66	26.03	69.39
FERR23	275	84.78	29.65	25.22	67.15	93.06	34.36	26.98	75.57
FERR2A	275	84.86	29.68	25.3	67.27	92.83	34.29	26.77	75.27
FERR2B	275	70.94	25.34	19.46	55.3	74.69	28.04	19.46	59.12
FERR4A	400	89.77	31.85	23.55	68.6	80.41	30.27	20.28	63.09
FFES21	275	37.36	13.86	7.61	27.22	36.44	14.34	6.4	26.68
FFES22	275	35.09	13.25	5.89	24.63	33.5	13.42	4.45	23.43
FIDF21	275	67.72	22.95	23.87	56.32	71.9	25.88	24.83	61.42
FIDF22	275	68.2	23.27	23.84	56.75	71.52	25.86	24.42	60.99
FIDF23	275	85.51	28.88	25.88	66.73	87.41	31.84	26.76	71.79
FIDF24	275	85.99	28.96	26.07	67.02	88.66	32.23	27.23	72.82
FLEE40	400	106.53	37.29	23.99	76.72	91.43	35.14	19.61	69.3
FORD4A	400	39.29	14.65	8.75	29.48	31.06	12.15	5.8	22.97
FORD4B	400	48.74	18.37	10.3	36.28	39.2	15.54	6.48	28.45
FOUR20	275	29	11.49	3.19	19.45	22.94	9.48	2.34	15.74
FROD2A	275	66.43	22.77	23.18	55.39	69.42	25.24	22.59	58.29
FROD2B	275	65.46	22.33	23.08	54.66	68.11	24.7	22.34	57.26
FROD40	400	106.85	36.48	30.54	82.13	93.68	34.82	25.54	74.79
GRAI41	400	142.88	49.34	42.39	112.16	147.42	54.33	44.57	121.4
GRAI42	400	121.63	42.88	32.06	92.71	118.22	44.43	30.76	93.59
GREN40	400	83.85	31.46	14.23	58.72	52.82	21.44	8.58	38.89
GRIW40	400	79.88	28.8	21.16	61.9	67.47	25.95	13.69	50.39
GRST21	275	90.52	31.46	27.48	71.97	98.92	36.23	29.25	80.49
GRST22	275	90.8	31.55	27.63	72.25	99.42	36.39	29.51	80.97
GRTO2A	275	57.29	20.76	12.08	41.43	56.35	22.63	8.02	40.02
GRTO2B	275	57.35	20.77	12.13	41.51	56.46	22.65	8.11	40.13
HACK2A	275	69.7	25.69	17.2	53.52	70.64	27.3	15.4	54
HACK2B	275	69.41	25.54	17.09	53.21	67.25	26	15.25	52.02
HACK40	400	94.85	33.15	22.53	69.41	92.2	36.61	15.7	67.48
HACK4A	400	93.57	32.97	22.34	68.97	90.11	36.11	13.88	64.95
HAKB4A	400	49.9	18.98	7.59	34.43	41.81	16.6	6.8	30.27
HAKB4B	400	50.25	19.1	7.61	34.61	42.44	16.82	7.08	30.87
HAMB4A	400	70.29	25.86	13.18	49.75	59.62	23.53	9.35	42.63
HAMB4B	400	70.22	25.83	13.16	49.7	59.53	23.5	9.33	42.56

HAMH20	275	80.5	28.43	17.48	57.68	75.29	28.99	14.16	55.16
HAMH2A	275	70.82	25.24	18.11	53.81	68.4	25.9	16.01	52.63
HAMH40	400	81.23	29.67	15.66	57.62	71.85	27.99	13.04	52.63
HAMH4A	400	79.71	29.09	15.67	56.81	70.66	27.48	13.06	51.92
HARK21	275	43.29	15.86	10.24	32.68	47.43	17.99	11.62	37.06
HARK22	275	47.82	17.71	10.51	35.56	52.43	20.08	12.03	40.42
HARK40	400	58.83	22.12	8.93	40.21	52.32	20.46	10.14	39.07
HARM20	275	66.69	24.22	12.23	46.47	57.73	22.7	8.88	40.98
HATL20	275	90.96	31.47	22.36	66.86	90.1	33.79	22.65	70.44
HAWP20	275	79.4	28.36	16.95	57.05	71.94	27.82	13.46	52.81
HAWP4A	400	51.28	18.74	11.71	38.21	41.72	16.04	8.99	31.67
HEYS40	400	100.21	35.04	25.59	75.14	104.07	38.64	28.59	83.24
HIGM20	275	68.86	25.05	19.23	54.65	64.44	24.76	15.5	50.52
HIGM2A	275	45.13	16.36	14.77	37.91	45.27	16.97	12.92	36.91
HIGM40	400	82.94	30.75	18.36	61.84	67.21	26.37	12.13	49.42
HIGM4A	400	65.47	24.28	16.42	50.76	54.76	21.21	11.64	41.63
HINP21	275	23.89	8.54	8.13	20.2	26.23	9.62	8.83	22.43
HINP22	275	23.93	8.56	8.06	20.16	26.65	9.79	8.87	22.71
HINP40	400	71.23	25.15	17.03	52.6	69.89	26.27	18.64	55.79
HIRN40	400	63.79	23.23	14.83	47.68	44.42	17.62	6.46	31.39
HUMR40	400	126.44	44.07	38.47	100.8	128.45	47.3	38.71	105.6
HURS20	275	71.3	25.34	18.74	54.57	72.96	29.56	15.68	57.48
HUTT40	400	69.21	25.65	11.93	48.2	49.63	20.04	6.96	35.29
IMPP40	400	59.3	21.83	13.12	43.98	48.76	18.84	10.18	36.83
INDQ40	400	35.33	12.54	6.76	24.49	36.3	13.82	7.41	26.96
IROA20	275	58.06	21.42	11.29	41.58	55.27	21.58	10.61	41.13
IROA2A	275	57.52	21.21	11.29	41.29	54.78	21.37	10.61	40.82
IROA2B	275	57.52	21.21	11.29	41.29	54.78	21.37	10.61	40.82
IRON40	400	90.72	32.34	20.03	65.77	85.52	32.55	19.83	65.85
IVER21	275	66.37	24.03	16.41	50.39	69.59	26.47	16.68	54.12
IVER22	275	66.82	24.2	15.33	49.55	63.02	24.39	13.49	47.99
IVER2A	275	46.39	17.09	11.51	35.68	45.54	17.61	10.51	35.41
IVER4A	400	48.95	18.21	11.19	36.95	44.78	17.24	10.55	34.92
IVER4B	400	43.88	16.59	9.49	32.95	38.51	15	8.67	29.89
JORD20	275	48.26	17.86	9.1	34.36	49.29	20.13	7.92	36.38

KEAD41	400	118.38	42.46	31.85	91.9	102.22	38.88	23.78	78.76
KEAD42	400	122.71	43.84	32.58	94.58	106.01	40.34	24.77	81.81
KEAD43	400	90.46	33.26	20.81	67.85	71.89	28.01	13.53	53.14
KEAD4A	400	117.89	42.34	31.24	91.13	93.96	36.35	17.67	69.07
KEAD4B	400	123.83	44.34	32.62	95.33	97.87	37.9	18.3	71.89
KEAD4C	400	86.97	31.4	25.61	70.01	75.79	28.63	20.61	61.11
KEAD4D	400	86.97	31.4	25.61	70.01	75.79	28.63	20.61	61.11
KEAP41	400	113.57	40.88	29.92	87.74	97.75	37.41	21.65	74.55
KEAP42	400	119.81	42.93	31.21	91.92	103.19	39.34	23.83	79.46
KEAR20	275	75.27	26.35	20.29	57.56	81.47	30.38	20.64	63.6
KEAR40	400	92.19	33.59	17.33	64.83	78.27	30.5	15.02	58.15
KEAR4A	400	86.48	31.95	15.07	60.24	68.73	27.2	11.45	49.91
KEMS40	400	142.71	49.74	37.8	108.15	123.17	47.47	23.88	91.01
KEMS4A	400	85.27	30.36	26.8	69.73	77.33	29.3	20.18	61.61
KEMS4B	400	85.27	30.36	26.8	69.73	77.33	29.3	20.18	61.61
KIBY21	275	86.82	29.44	23.3	64.93	86.34	32.72	18.08	64.36
KIBY22	275	76.64	26.49	19.75	57.22	70.83	26.8	15.44	53.34
KILL40	400	135.91	47.03	42.17	108.68	142.76	52.2	43.5	117.33
KINO41	400	132.26	45.52	39.62	103.99	129.35	47.73	37.98	105.48
KINO42	400	117.08	40.54	35.32	92.66	120.04	44.13	36.7	99.11
KIRK20	275	60.28	21.83	13.77	44.64	57.13	22.37	10.97	42.61
KIRK2A	275	61.74	22.21	14.39	45.8	57.54	22.95	10.97	43.42
KITW20	275	68.87	24.65	12.85	47.71	67.91	26.46	11.47	48.89
KNAR20	275	30.76	12.52	2.61	20.31	24.99	10.42	2.88	17.62
LACK20	275	61.05	21.55	16.23	46.71	63.56	23.8	17.05	50.71
LACK2A	275	86.78	30.37	25.44	68.39	95.12	35	26.84	76.33
LACK2B	275	91.67	31.82	28.12	73.12	101.61	37.08	30.64	83.08
LACK2C	275	88.04	30.75	26.08	69.57	96.49	35.47	27.43	77.6
LACK40	400	89.86	32.02	21.96	67.25	84.17	31.58	21.94	66.6
LALE20	275	62.38	22.29	17.22	48.74	68.01	26.45	16.11	53.52
LAND41	400	34.16	12.24	6.55	23.85	33.61	12.95	6.08	24.4
LAND42	400	34.25	12.27	6.58	23.92	33.57	12.94	6.06	24.36
LAND4A	400	33.97	12.17	6.58	23.78	33.31	12.83	6.06	24.2
LANG40	400	43.05	15	9.55	30.76	46.01	17.14	11.77	36
LEGA40	400	102.46	36.17	23.51	74.65	76.71	30.18	13.32	56

LEGA4A	400	68.11	24.38	19.17	53.64	54.88	21.14	12.39	42.28
LEGA4B	400	68.16	24.38	19.17	53.66	54.95	21.16	12.39	42.32
LEIB4A	400	78.2	28.96	16.72	57.68	57.8	22.75	9.63	41.8
LEIB4B	400	104.2	38.11	22.3	76.19	75.19	29.74	11.74	53.79
LISD20	275	79.68	27.31	20.25	58.88	79.99	30.74	16.9	60.38
LISD2A	275	50.94	17.74	15.99	41.08	52.82	19.91	13.62	41.78
LITB40	400	81.23	29.45	19.2	60.85	64.02	24.73	15.55	50.52
LITT2A	275	60.22	21.79	15.57	46.39	59.72	23.72	15	48.55
LITT2B	275	60.09	21.76	15.4	46.17	60.62	23.95	15.59	49.46
LITT2C	275	50.27	18.63	13.47	39.83	48.86	18.63	13.42	39.76
LITT2D	275	50.63	18.79	13.58	40.15	49.39	18.85	13.53	40.19
LITT40	400	101.55	35.89	26.35	77.11	107.18	40.08	29.96	86.65
LITT4A	400	91.01	32.83	20.61	67.04	81.45	31.76	14.09	59
LITT4B	400	91.04	32.85	20.6	67.05	81.44	31.76	14.07	58.99
LOVE40	400	101.85	35.01	24.79	74.3	92.37	35.3	18.33	68.25
MACC20	275	54.21	20.06	13.38	41.75	51.77	19.97	11.58	39.82
MACC40	400	85	31.51	15.71	60.27	63.46	25.38	9.58	45.48
MAGA20	275	58.11	21.73	10.58	41.31	53.69	21.12	9.94	39.8
MANN40	400	59.59	21.08	13.42	43.22	55.14	21.02	11.92	41.65
MAWO40	400	70.97	24.67	18.69	53.57	73.66	27.27	20.77	59.33
MEDW40	400	106.36	38.09	25.32	79.18	100.55	38.27	23.62	77.74
MELK2A	275	45.54	16.8	13.29	37.05	45.1	17.12	12.25	36.46
MELK2B	275	44.24	16.35	12.68	35.81	45.11	17.14	12.1	36.34
MELK40	400	112.99	40.66	22.92	80.43	90.89	35.63	16.37	66.76
MILH2A	275	43.8	16.45	6.99	30.26	43.88	17.98	6.68	32.12
MILH2B	275	43.76	16.44	6.98	30.23	43.84	17.97	6.67	32.08
MITY40	400	86.88	32.25	15.56	61.17	62.73	25.23	9.16	44.83
MONF21	275	86.97	30.51	27.09	70.24	92.58	34.37	25.71	74.32
MONF22	275	78.71	27.93	24.44	63.94	81.02	30.22	22.6	65.33
MONF40	400	101.72	35.99	26.29	77.19	90.81	34.31	21.02	69.55
MONF4A	400	88.55	31.58	22.72	67.37	78.18	29.6	17.99	59.85
NECH20	275	88.04	30.75	21.05	64.53	80.99	31.14	15.86	59.9
NEEP20	275	55.4	20.1	12.56	40.98	60.39	23.82	12.03	45.71
NEEP2A	275	44.68	16.16	12.63	35.49	48.11	18.26	11.78	37.6
NEEP4A	400	45.82	17.18	9.56	33.85	39.44	15.42	7.84	29.65

NEWX20	275	78.07	27.57	19.47	58.46	83.5	33.49	16.05	63.41
NFLE40	400	122.13	42.53	30.66	90.81	92.35	36.31	15.78	67.13
NHYD2A	275	46.01	17.55	7.42	32.24	39.11	18.44	3.13	29.21
NHYD2B	275	46.27	17.66	7.06	32.03	37.33	17.47	3.21	27.92
NINF40	400	60.4	22.53	12.5	44.36	55.47	21.83	11.45	42.32
NORL2A	275	49.36	18.18	9.83	35.54	50.64	20.73	7.28	36.6
NORL2B	275	48.84	18.06	9.22	34.76	49.88	20.69	6.55	35.82
NORT21	275	74.55	26.21	18.01	55.08	74.58	28.21	16.98	56.88
NORT22	275	65.76	23.74	16.06	49.63	61.77	23.56	13.92	47.24
NORT40	400	86.31	30.92	19.48	63.2	72.41	27.81	14.94	54.27
NORW40	400	61.97	22.96	11.24	43.71	47.95	18.87	8.84	35.53
NURS40	400	67.37	23.61	17.08	50.47	67.18	25.16	16.33	51.92
NURS4A	400	55.86	20.04	12.73	41.07	50.8	19.33	11.21	38.55
OCKH20	275	67.03	24.09	12.93	47	67.17	26.06	11.97	48.82
OCKH2A	275	57.63	20.79	12.58	41.98	56.33	21.75	11.71	42.46
OFFE20	275	70.22	25.45	12.28	48.27	61.16	24.03	9.91	43.89
OLDB20	275	57.2	20.89	10.72	40.27	58.18	22.65	10.4	42.42
OLDB2A	275	56.67	20.7	10.72	39.99	57.63	22.41	10.4	42.1
OLDB4A	400	37.6	14.19	7.09	27.16	33.93	13.28	6.51	25.3
OSBA41	400	75.94	27.92	17.2	56.68	54.66	21.48	9.16	39.53
OSBA42	400	75.83	27.92	17.21	56.7	52.99	20.87	8.81	38.32
PADI40	400	85.28	31.11	17.29	61.28	61.68	24.53	9.29	43.98
PAFB4A	400	56.92	21.76	9.47	40.25	36.98	15.22	3.66	25.19
PAFB4B	400	57.03	21.8	9.5	40.33	37.05	15.25	3.67	25.24
PELH40	400	148.17	52.32	37.15	111.14	115.9	44.95	22.53	86.09
PEMB40	400	60.16	21.31	16.43	46.57	66.35	24.57	17.97	52.72
PENN20	275	74.7	26.71	16.85	54.62	76.75	29.3	16.4	57.84
PENN2A	275	73.8	26.38	16.81	54.12	75.79	28.91	16.37	57.26
PENN4A	400	47.74	17.84	9.41	34.64	41.48	16.19	8.53	31.43
PENN4B	400	49.92	18.65	9.64	36.01	45.32	17.67	9.04	34.03
PENT40	400	92.32	30.82	27.35	70.93	92.03	33.9	24.21	72.16
PEWO21	275	71.06	25.29	20.74	56.51	70.71	26.6	18.2	55.82
PEWO22	275	71.79	25.52	21.26	57.35	67.71	25.4	18.24	54.16
PEWO2A	275	72.12	25.63	21.41	57.65	68.01	25.48	18.53	54.56
PEWO2B	275	72.8	25.85	21.61	58.16	73.61	27.57	19.75	58.74

PEWO40	400	110.08	38.69	24.77	79.49	98.79	38.04	19.15	72.95
PITS20	275	57.42	20.76	12.78	42.14	63.95	25.01	12.24	47.61
POPP20	275	29.99	12.37	1.98	19.47	23.74	10	2.66	16.8
PYLE20	275	61.65	23	10.87	43.4	55.25	21.88	9.32	40.26
PYLE2A	275	61.04	22.76	10.88	43.07	54.76	21.66	9.33	39.96
PYLE2B	275	61.04	22.76	10.88	43.07	54.76	21.66	9.33	39.96
QUER4A	400	85.03	30.6	18.14	61.43	75.15	29.17	13.25	54.5
QUER4B	400	84.94	30.6	18.01	61.28	75.26	29.22	13.26	54.58
RAIN20	275	102.33	33.86	30.22	78.12	98.48	36.55	23.66	75.35
RASS40	400	56.14	20.66	12.21	41.43	43.18	17	6.93	30.96
RATS2A	275	43.76	15.97	13.59	36.17	44.91	16.72	14.21	37.85
RATS41	400	99.52	35.95	22.45	73.29	97.87	37.05	23.48	75.87
RATS42	400	112.53	40.02	25.52	82.11	111.64	42.01	27.22	86.63
RAYL40	400	106.47	38.2	24.69	78.72	83.49	32.58	15.69	61.77
REBR21	275	77.44	28.18	19.47	59.32	72.94	28.62	13.61	54.08
REBR22	275	77.85	28.39	19.72	59.87	73.64	29.06	12.95	54.04
ROCH20	275	63.77	23.12	14.38	47.08	62.25	23.99	12.52	46.45
ROCH4A	400	32.54	12.18	7.69	24.92	28.95	11.15	6.7	22.47
ROCK40	400	102.77	35.24	28.87	78.71	88.59	33.12	23.37	70.21
ROWD40	400	69.25	25.53	14.42	50.52	54.02	21.66	7.48	38.11
RUGE40	400	70.28	25.51	14.59	50.66	68.8	26.25	15.92	53.04
RYEH40	400	86.52	30.92	22.97	66.7	83.62	31.43	22.33	66.78
RYEH4A	400	78.53	28.6	19.8	60.25	69.41	26.46	17	54.41
SAEN20	275	76.5	27.21	22.25	60.74	77.45	28.69	22.98	63.55
SAES20	275	77.09	27.37	22.59	61.3	78.65	29.04	24.26	65.32
SALH20	275	76.64	26.98	17.11	55.27	74.31	28.33	14.91	54.97
SEAB40	400	71.26	25.21	17.62	53.27	68.86	25.69	19.07	55.41
SELL40	400	67.82	25.52	13.8	49.89	68.69	27.06	14.31	52.58
SHBA40	400	96.79	34.28	28.01	76.49	93.46	34.87	26.47	75.79
SHEC20	275	51.07	18.72	10.57	37.05	53.95	21.92	8.24	39.24
SHRE4A	400	66.74	24.43	13.59	48.14	53.22	21.05	8.24	38
SING40	400	119.79	41.83	30.04	89.2	88.39	34.69	14.6	63.65
SIZE40	400	74.07	26.38	19.13	56.44	74.59	27.77	20.84	60.12
SJOW20	275	92.56	33.18	24	70.93	102.79	39.57	27.49	83.45
SJOW2A	275	72.45	25.74	21.11	57.52	74.16	30.24	19.54	62.31

SJOW2B	275	72.45	25.74	21.11	57.52	74.16	30.24	19.54	62.31
SJOW40	400	102.71	35.68	26.55	77.01	110.76	41.98	26.94	86.3
SKLG20	275	69.03	24.72	15.55	50.51	64.65	25.13	12.42	47.96
SMAN20	275	73.98	26.77	17.08	54.94	71.67	27.76	13.36	52.62
SPEN21	275	51.23	18.92	9.08	35.83	45.04	17.7	7.65	32.68
SPEN22	275	53.1	19.65	9.2	36.98	44.62	17.7	7.14	32.17
SPLN40	400	69.37	25.28	18.59	54.35	61.24	23.27	16.42	49.32
SSHI20	275	65.03	23.77	10.02	43.63	56.53	22.29	9.15	40.67
STAH4A	400	61.57	22.91	10.98	43.38	50.98	20.27	7.75	36.42
STAH4B	400	61.52	22.89	10.97	43.34	50.92	20.25	7.74	36.37
STAL21	275	46.16	17.03	11.08	35.16	45.54	17.44	10.18	34.84
STAL22	275	56.93	21.3	10.18	40.3	50.27	19.83	8.68	36.71
STAL4A	400	34.57	12.9	7.87	26.12	29.13	11.24	6.5	22.4
STAY41	400	71.27	26.43	14.1	51.49	57.82	22.73	10.79	42.94
STAY42	400	59.23	22.43	10.91	42.63	40.11	16.29	4.65	27.69
STAY4A	400	65	24.2	13.63	47.85	52.59	20.62	10.37	39.54
STEW20	275	88.5	31.57	14.78	59.43	88.16	33.97	15.31	63.35
STEW2A	275	88.33	31.52	14.73	59.3	87.9	33.92	15.06	63.02
STEW4A	400	35.89	13.18	8.46	27.1	34.34	13.06	8.43	26.9
STEW4B	400	36.29	13.31	8.67	27.48	35.34	13.43	8.71	27.69
STSB40	400	57.95	21.4	13.07	43.33	49.87	19.31	10.41	37.72
STSB4A	400	49.71	18.53	11.81	38.01	42.86	16.58	9.64	33.09
SUND41	400	118.84	43	26.19	87.01	91.98	35.94	16.68	67.51
SUND42	400	94.47	34.65	20.15	69.16	75.23	29.37	13.91	55.44
SUTB4A	400	89.79	32.53	21.48	67.48	78.17	29.9	19.22	61.5
SWAN20	275	56.25	20.61	13.79	42.94	60.06	22.92	13.92	46.33
SWAN40	400	48.78	17.87	11.13	36.4	43.17	16.57	9.56	32.98
SWAN4A	400	48.18	17.67	10.9	35.9	42.57	16.35	9.36	32.48
SWAN4B	400	48.19	17.68	10.91	35.91	42.6	16.36	9.38	32.51
TAUN4A	400	51.54	18.58	10.51	36.78	44.09	17.3	6.94	31.4
TAUN4B	400	52.44	18.87	10.69	37.38	45.55	17.83	7.41	32.62
TEMP21	275	56.82	20.58	12.43	41.54	60.95	23.95	11.37	45.24
TEMP22	275	57	20.64	12.52	41.7	61.43	24.13	11.51	45.63
THOM20	275	76.03	27.01	21.54	59.74	78.04	29.44	20.31	61.94
THOM40	400	112.21	39.71	27.42	83.58	95.68	36.64	19.25	71.07

THTO41	400	118.17	42.54	28.79	88.94	87.8	34.26	14.82	63.27
THTO42	400	118.82	42.71	29.01	89.41	87.24	34.06	14.67	62.84
THUR20	275	64.76	23.98	10.96	44.87	64.6	25.53	10.62	46.72
THUR2A	275	65.17	24.21	10.35	44.59	61.17	24.51	8.27	42.93
TILB21	275	75.53	26.8	21.22	59.12	79.45	29.53	21.9	63.66
TILB22	275	75.81	26.91	22.14	60.19	79.97	29.68	22.85	64.83
TILB4A	400	99.65	35.58	25.6	75.92	87.3	33.29	20.02	67.1
TILB4B	400	94.5	34.09	23.16	71.36	83.55	31.95	18.93	64.11
TINP2A	275	59.22	21.67	13.77	44.42	58.13	22.59	12.32	44.26
TINP2B	275	59.22	21.67	13.77	44.42	58.14	22.59	12.32	44.27
TODP20	275	63.28	22.43	15.22	46.94	57.87	22.31	11.17	42.72
TOTE21	275	84.33	30.6	21.54	64.82	83.41	32.23	17.75	63.33
TOTE22	275	84.76	30.82	21.77	65.35	85.61	33.1	17.78	64.59
TOTW21	275	81.35	29.79	18.39	60.51	80.16	33.1	14.26	61.08
TOTW22	275	82.19	30.05	18.73	61.23	80.9	33.35	14.7	61.86
TRAW20	275	45.69	16.17	13.82	36.69	48.33	18.16	11.87	37.55
TRAW40	400	62.61	22.83	12.61	44.9	48.76	19.32	8.47	35.79
TREM20	275	45.29	17.58	6.14	31	37.51	15.35	4.52	26.23
TREU4A	400	98	34.76	22.41	71.57	77.46	30.35	12.48	55.4
TREU4B	400	100.05	35.43	22.87	72.97	79.31	31.09	12.66	56.62
TYNE20	275	60.31	22.07	9.04	40.25	53.37	21.03	8.54	38.28
TYNE2A	275	56.71	21.09	8.27	38.09	48.42	19.25	7.27	34.5
UPPB21	275	50.52	18.69	12.19	38.62	48.14	18.66	9.97	36.36
UPPB22	275	50.46	18.69	12.18	38.61	45.61	17.61	10.19	35.1
USKM20	275	74.81	27	18.7	56.88	82.49	31.2	20.59	64.71
USKM2A	275	62.15	23.01	13.11	45.65	62.59	24.24	12.55	46.83
USKM2B	275	74.38	26.86	18.48	56.47	81.25	30.79	19.75	63.3
WALH40	400	67.65	24.88	13.15	48.33	50.08	19.84	8.39	36.45
WALP40	400	105.37	37.7	27.38	80.7	91.05	34.67	22.44	71.47
WALX21	275	99.59	35.8	27.35	77.97	96.15	36.66	24.96	76.81
WALX22	275	98.92	35.61	27.28	77.64	95.27	36.37	24.78	76.22
WALX4A	400	80.18	28.75	21.62	62.29	75.97	28.69	19.41	59.99
WALX4B	400	73.91	26.89	19.28	57.3	66.61	25.35	16.58	52.43
WARL20	275	82.84	29.6	19.67	61.53	70.43	27.46	13.01	51.84
WARO20	275	76.45	27.2	22.22	60.69	77.37	28.68	22.86	63.41

WASF2A	275	64.3	22.96	14.53	46.99	53.07	20.83	8.39	37.84
WASF2B	275	68.65	24.33	15.59	50	57.96	22.86	8.63	40.96
WATS21	275	64.6	23.45	15.08	48.24	65.34	25.2	13.31	48.95
WATS22	275	62.16	22.45	12.79	44.54	63.89	24.77	11.55	46.58
WBOL20	275	74.15	26.66	12.24	49.94	63.5	24.95	10.37	45.66
WBUR41	400	109.62	39.53	29.86	85.76	100.09	37.73	26.76	80.11
WBUR42	400	90.72	32.93	24.78	71.34	85.12	32.03	23.34	68.63
WEAV4A	400	76.69	28.44	13.95	54.18	52.78	21.44	5.79	36.12
WEAV4B	400	77.99	28.86	14.35	55.17	53.67	21.8	5.89	36.72
WHAM40	400	110.16	38.13	27.56	81.47	110.61	42.54	22.5	82.66
WHAM4A	400	93.8	33	22.64	69.31	93.55	37.43	18.37	71.31
WHAM4B	400	93.83	33.02	22.56	69.25	93.61	37.46	18.2	71.19
WHGA20	275	66.8	23.92	15.45	49.28	64.2	24.77	12.18	47.21
WHSO20	275	78.3	28.1	20.24	59.97	85.78	32.4	21.28	67.1
WHSO2A	275	56.82	20.64	15.89	45.07	59.12	22.26	16.48	47.96
WHSO2B	275	56.82	20.64	15.89	45.07	59.12	22.26	16.48	47.96
WHSO4A	400	68.69	24.67	17.09	51.98	59.95	22.82	14.07	46.34
WIBA20	275	56.42	20.46	12.24	41.18	61.39	24.43	10	44.55
WIEN2A	275	54.59	20.05	9.61	37.97	52.77	20.71	8.66	37.96
WIEN2B	275	58.74	21.22	12.31	42.32	57.06	22.21	10.83	42.25
WILE40	400	112.59	40.39	24.04	81.16	98.98	38.37	18.74	73
WILL20	275	41.52	14.86	14.72	35.73	44.81	16.44	14.85	38.09
WIMB20	275	84.84	29.8	21.27	63.41	92.72	36.37	19.84	71.27
WIMB2M	275	39.74	15.11	7.56	28.92	37.56	14.88	6.45	27.5
WISD20	275	82.35	28.87	24.95	65.78	90.38	34.87	21.92	71.23
WISD2A	275	63.66	22.58	19.12	51.06	68.19	26.68	17.75	55.49
WISD2B	275	72.24	25.74	20.1	56.5	73.12	29.5	18.74	60.45
WMEL20	275	73.32	26.12	14.35	51.29	70.69	27.41	13.86	52.63
WTHU2A	275	52.28	19.38	13.55	40.95	49.41	19.01	11.83	38.71
WTHU2B	275	52.86	19.62	13.71	41.45	50.14	19.31	11.87	39.17
WWEY21	275	77.58	28.23	17.44	57.36	78.54	30.23	16.77	59.52
WWEY22	275	64.88	24.06	12.97	46.99	63.38	24.59	12.36	47.14
WWEY2A	275	55.9	20.26	14.87	43.52	56.85	21.93	13.58	44.59
WWEY4A	400	44.49	16.86	8.22	32.06	39.21	15.37	7.72	29.46
WWEY4B	400	51.86	19.3	11.71	39	46.11	17.94	10.43	35.8

WYLF40	400	66.89	22.34	19	50.59	67.47	24.49	19.64	54.27
WYMO40	400	116.03	41.78	26.92	86.01	86.71	33.86	15.61	63.49
YGAR4A	400	59.63	21.64	12.69	43.29	45.57	18.15	6.89	32.55
YWER4A	400	59.44	21.5	12.91	43.31	45.46	18.08	6.6	32.18

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Table D.3.3b - NGET Forecast Short-Circuit Currents at 132kV and Lower Voltage Nodes for 2009/10 (kA)

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABTH11	132	31.52	12.24	7.05	24.35	37.51	14.56	9.56	30.16
ABTH12	132	52.33	19.22	14.2	41.38	62.18	23.36	18.29	51.33
ABTH13	132	11.74	4.63	1.61	8.16	10.34	3.95	2.35	7.94
AMEM10	132	27.56	9.93	9.84	23.88	33.79	12.46	11.05	28.66
AXMI10	132	27.24	9.45	9.08	22.44	32.99	12.04	10.24	27.26
BARK10	132	26.12	9.19	9.93	22.93	28.25	10.27	10.34	24.87
BICF10	132	28.35	10.29	10.59	25.14	31.29	11.48	10.83	27.06
BLYT60	66	51.24	16.98	14.92	38.94	29.7	10.77	11.97	27.2
BRIM10	132	53.02	18.22	20.56	46.33	64.67	23.18	24.46	57.24
BRWE10	132	19.96	6.98	8.09	17.96	6.07	2.23	2.12	5.27
CARR11	132	28.09	10.3	8.29	22.86	32.86	12.46	9.37	27
CARR12	132	51.03	17.53	16.49	41.28	62.77	22.99	19.46	51.98

CELL11	132	44.97	15.17	14.84	36.28	56	20.17	17.11	45.64
CELL12	132	30.41	10.59	10.47	25.44	36.26	13.2	11.66	30.33
DRAK10	132	34.75	10.14	9.49	23.84	42.58	14.16	12.5	32.53
DRAX11	132	15.72	5.4	5.64	13.28	19.68	7.01	7.18	17.09
DRAX12	132	14.95	5.13	5.38	12.63	18.74	6.67	6.86	16.29
EALI60	66	60.22	20.6	19.18	48.31	69.55	25.52	20.52	56.61
ECLA10	132	45.65	15.75	16.47	38.75	53.07	19.35	17.8	45.16
ELLA11	132	27.68	9.7	9.02	22.73	33.66	12.42	10.17	27.74
ELLA12	132	28.19	9.89	9.07	23.05	33.73	12.46	10.14	27.76
ELST11	132	29.83	9.86	10.28	24.23	37.44	13.53	12.27	31.4
ELST12	132	38.46	12.56	11.95	29.71	45.82	16.61	13.41	36.91
ELST1A	132	10.57	3.82	3.32	8.72	12.95	4.81	3.84	10.64
ELST1B	132	10.27	3.74	3.16	8.45	12.57	4.69	3.67	10.3
FAWL10	132	51.79	16.58	18.33	41.77	70.75	24.34	25.41	59.83
FERR11	132	35.73	12.22	12.33	29.61	43.08	15.57	15.23	37.25
FERR12	132	32.84	11.27	10.6	26.54	40.13	14.61	13.13	33.79
FERR13	132	10.76	3.97	3.4	9.02	11.36	4.2	3.59	9.53
GREN11	132	42.74	16.23	12.35	35.31	49.36	19.53	13.66	41.28
GREN12	132	44.65	16.52	13.07	36.43	51.42	20.07	14.14	42.51
HAMH11	132	28.21	9.72	10.57	24.32	34.98	12.66	12.41	30.31
HAMH12	132	28.27	9.72	10.39	24.13	29.52	10.71	10.22	25.37
HARK11	132	35.92	11.57	8.26	24.61	40.81	15.11	9.38	30.76
HARK12	132	33.02	11.23	8.14	24.01	37.08	14	9.13	28.93
HARK13	132	28.89	11.96	6.11	23.03	26.96	10.84	6.33	21.66
HEYS10	132	41.44	14.98	15.06	36.25	51.1	18.77	17.53	44.08
IROA11	132	43.97	15.99	11.78	34.39	53.66	20.32	13.7	42.43
IROA12	132	44.76	16.13	11.79	34.61	54.25	20.45	13.77	42.69
IRON11	132	26.95	7.45	6.79	17.33	32.54	10.59	8.96	23.93
IRON12	132	14.6	5.3	5.41	12.91	19.45	7.08	7.27	17.27
KINO10	132	35.72	11.83	11.5	28.22	45.46	15.99	15.14	37.76
LITT11	132	19.92	6.95	8.03	17.86	26.45	9.56	10.06	23.58
LITT13	132	19.98	6.99	8.01	17.89	26.34	9.45	10.76	24.13
LITT1M	132	14.8	5.38	5.44	13.05	17.4	6.36	6.24	15.23
LODR6M	66	20.52	7.53	6.89	17.54	2.26	1.57	0	2.22
MELK10	132	42.03	14.74	15.59	36.45	55.31	20	19.04	47.33

MILH11	132	24.04	8.49	8.27	20.27	30.27	11.09	9.96	25.65
MILH12	132	24.32	8.72	7.42	19.75	30.64	11.36	9.02	25.09
NFLE11	132	38.38	12.4	12.72	30.25	46.99	16.85	14.61	38.44
NFLE12	132	31.93	11.73	11.27	27.85	34.81	12.96	11.7	30.02
NHYD60	66	40.57	13.67	12.47	31.8	54.78	20.01	15.57	43.87
OCKH10	132	25.97	9.15	8.15	21.1	29.85	10.91	9.22	24.65
OLDS11	132	30.98	11.45	5.86	22.05	29.83	11.76	4.66	21.29
OLDS12	132	29.64	11.24	5.73	21.63	27.22	10.99	3.48	19.03
PADI10	132	28.66	9.77	9.99	23.82	35.12	12.63	11.35	29.21
PEMB10	132	29.45	10.45	10.09	24.87	37.08	13.62	12.09	31.35
RATS10	132	51.43	16.35	16.11	39.23	63.27	21.94	20.43	51.46
RUGE10	132	27.92	9.57	10.07	23.61	31.17	11.11	11.83	27.54
SIZE11	132	44.95	16.2	14.58	37.49	55.28	20.34	17.33	46.11
SIZE12	132	44.96	16.21	14.58	37.5	55.31	20.37	17.24	46.04
STEN10	132	39.22	12.24	9.83	27.14	48.7	17.37	11.86	36.43
STES10	132	33.61	11.31	9.86	25.86	41.84	15.07	11.78	33.09
STYC10	132	30.88	10.46	11.49	26.29	28.09	10.2	10.14	24.57
TYNE50	22	55.58	19.87	19.41	47.51	60.39	21.95	22.14	53.18
WALP11	132	48.99	17.52	12.66	37.43	53.42	20.61	13.38	42.53
WALP12	132	39.5	14.56	11.51	32.1	44.24	17.05	12.63	36.74
WALP13	132	31.96	12.2	8.48	25.73	34.57	13.68	9.06	28.4
WBUR10	132	33.17	10.92	10.99	26.43	44.07	15.45	14.42	36.27
WILL10	132	54.22	18.35	19.35	45.3	66.9	24.19	22.75	56.96
WIMB11	132	33.11	10.88	10.93	26.32	43.42	15.66	13.59	35.74
WIMB12	132	27.33	9.93	9.39	23.43	33.28	12.26	10.99	28.33
WIMB13	132	21.96	7.66	7.89	18.73	27.71	10.12	9.39	23.71
WIMB14	132	21.63	7.62	7.79	18.57	27.27	9.96	9.41	23.49
WISD60	66	49.93	17.09	17.43	41.59	6.54	4.52	0	6.39
WYLF10	132	48.64	15.01	15.3	36.53	61	21.1	18.3	48.14

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Table D.3.4a - NGET Forecast Short-Circuit Currents at 400kV and 275kV Nodes for 2010/11 (kA)

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABHA4A	400	39.98	14.32	7.82	28.08	36.96	14.28	6.44	26.64
ABHA4B	400	39.95	14.31	7.82	28.06	36.94	14.27	6.44	26.63
ABTH20	275	90.75	32.1	23.3	68.69	97.52	36.41	26.67	78.16
ALDW20	275	60.67	22.09	10.23	41.47	59.11	23.21	10.16	42.98
ALVE4A	400	26.47	9.94	4.34	18.4	21.75	8.66	3.16	15.41
ALVE4B	400	26.56	9.98	4.34	18.45	21.97	8.75	3.17	15.55
AMEM4A	400	55.01	20.72	10.82	40.12	44.62	17.72	7.21	32.27
AMEM4B	400	51.25	19.57	9.34	37.01	41.3	16.49	6.6	29.92
AXMI40	400	42.25	15.22	9.12	30.64	34.63	13.45	6.49	25.51
BAGB20	275	56.77	21.09	12.11	41.94	53.82	20.92	11.95	41.53
BARK21	275	63.41	22.96	18.09	50.57	64.92	24.6	17.39	52.18
BARK22	275	65.44	23.7	19.19	52.7	68.4	25.86	18.59	55.17

BARK40	400	156.24	54.67	36.75	114.07	136.63	53.39	24.79	100.29
BARP21	275	57.72	21.03	15.7	45.43	57.07	21.84	13.53	44.42
BARP22	275	60.1	21.86	16.95	47.87	61	23.26	14.89	47.78
BEDD21	275	66.63	24.59	15.9	50.68	68.08	26.26	15.45	52.58
BEDD22	275	84.65	30.61	18.64	61.93	85.2	33.21	17.3	64.26
BEDD2M	275	17.1	6.23	6.03	14.85	18.08	6.71	5.93	15.42
BEDD4A	400	46.21	17.21	11.26	35.59	41.43	16.22	10.14	33.07
BEDD4B	400	44.3	17	8.31	32.35	37.07	14.95	7.48	28.63
BESW20	275	65.47	23.48	12.36	45.57	58.44	22.88	9.99	42.35
BICF4A	400	65.43	24.21	16.84	51.07	46.44	18.27	8.61	34.45
BICF4B	400	61.85	22.8	16.39	48.64	47.8	18.65	9.23	35.6
BIRK20	275	51.75	17.94	16	41.38	54.13	20.24	13.88	42.51
BISW20	275	71.15	25.55	13.15	49.29	66.52	26.22	10.71	47.79
BLYT21	275	69.89	25.42	12.3	48.24	67.78	26.33	12.14	49.37
BLYT22	275	55.66	20.72	9.86	39.16	52.15	20.43	9.06	37.95
BLYT4A	400	33.94	12.5	7.53	25.21	31.34	12.02	7.08	24.07
BLYT4B	400	32.98	12.23	6.98	24.27	29.89	11.55	6.23	22.56
BOLN40	400	67.35	24.49	14.5	49.13	54.47	21.28	10.91	41.01
BOTW40	400	82.72	28.83	19.99	60.76	74.99	28.76	14.75	55.43
BRAI4A	400	64.06	23.73	14.46	48.02	48.56	19	8.81	35.68
BRAI4B	400	63.63	23.71	13.98	47.51	45.36	17.87	7.89	33.16
BRAW20	275	72.24	25.99	16.75	53.5	70.53	27.16	14.57	52.98
BRAW4A	400	38.12	14.06	9.4	29.29	33.36	12.74	7.97	25.98
BRED20	275	70.22	25.67	14.41	50.71	68.53	26.63	12.53	50.18
BRFO40	400	89.28	31.94	22.11	67.28	84.36	31.84	21.05	66.08
BRIM2A	275	86.86	31.65	22.02	66.77	81.83	31.72	17.15	62.01
BRIM2B	275	87.14	31.89	20.71	65.81	82.18	32.44	16.76	62.63
BRIM2C	275	87.18	31.8	22.19	67.17	81.92	31.83	16.72	61.74
BRIM2D	275	85.29	31.34	19.7	64.03	79.3	31.5	14.99	59.53
BRIN21	275	61.87	22.22	14.27	45.69	67.26	26.04	13.56	50.39
BRIN22	275	69.75	25.13	18.16	53.7	72.87	27.89	17.64	57.08
BRIN2M	275	27.61	9.95	10.34	24.41	28.44	10.46	9.75	24.53
BRIN40	400	74.98	27.41	17.36	56.12	56.01	21.69	12.54	43.22
BRLE40	400	124.93	43.9	28.85	90.93	108.03	41.6	22.18	81
BRWA2A	275	19.81	7.27	5.41	15.69	19.88	7.57	4.79	15.5

BRWA2B	275	19.77	7.25	5.45	15.7	19.72	7.5	4.83	15.44
BRWA2C	275	19.74	7.24	5.4	15.65	19.81	7.55	4.79	15.46
BURW40	400	100.97	36.55	26.06	77.74	64.39	25.78	10.83	47.29
BUSH20	275	65.76	23.68	13.5	46.98	63.12	24.62	10.91	45.73
BUST21	275	73.88	26.25	17.09	54.22	67.12	26.8	12.69	50.58
BUST22	275	72.53	25.79	16.71	53.18	64.24	26.11	11.06	47.98
CANT40	400	88.01	32.45	19.71	65.59	68.15	27.24	11.29	49.82
CAPE21	275	54.39	18.84	18.33	44.97	59.83	21.99	18.27	49.36
CAPE22	275	35.01	12.46	12.86	30.49	38.63	14.13	13.08	33.06
CAPE4A	400	95.45	33.3	25.01	72.1	83.09	31.5	18.46	63
CAPE4B	400	101.93	35.18	27.9	77.65	89.63	33.82	20.55	68.38
CARE20	275	53.2	19.93	9.72	37.91	46.28	18.33	8.38	34.3
CARR20	275	81.18	28.95	22.32	63.26	86.21	32.51	21.22	67.19
CARR4A	400	115.16	41.42	22.24	80.81	88.17	34.65	15.61	64.6
CARR4B	400	114.38	41.25	21.55	79.89	87.01	34.29	14.84	63.34
CARR4H	400	119.24	42.73	23.31	83.74	89.6	35.2	15.85	65.63
CELL40	400	98.26	35.88	17.99	68.73	77.19	30.45	13.9	56.96
CHIC41	400	39.74	14.46	8.71	29.15	31.51	12.3	5.84	23.23
CHIC42	400	39.29	14.27	8.65	28.84	29.76	11.66	5.3	21.8
CHSI20	275	92.83	33.83	18.74	66.59	80.32	31.85	13.21	58.25
CHTE20	275	69.77	24.63	18.01	52.83	61.65	23.71	13.36	46.89
CILF2A	275	50.74	18.67	14.31	40.72	45.14	17.22	11.93	36.28
CILF2B	275	50.69	18.64	14.3	40.66	49.92	19.04	12.75	39.68
CILF40	400	91.11	32.53	22.27	68.27	73.5	28.43	14.32	54.53
CITR41	400	120.94	42.88	27.39	88.03	124.88	48.73	22.24	91.15
CITR42	400	120.83	42.85	27.35	87.94	124.65	48.68	22.01	90.86
CLEV40	400	85.51	31.57	20.41	65.05	64.96	25.84	10.39	46.93
COSO40	400	112.06	40.44	26.46	83.65	95.86	36.9	22.41	74.59
COTT40	400	127.78	45.21	33.92	97.86	122.35	45.55	35.06	99.48
COVE20	275	65.62	23.42	13.38	46.5	61.73	23.8	11.89	45.55
COVE2A	275	64.96	23.18	13.37	46.16	61.15	23.56	11.89	45.2
COWB2A	275	69.69	25.61	14.06	50.28	61.32	24.25	9.13	43.43
COWL40	400	136.4	48.09	35.47	103.48	116.4	44.43	25.15	87.98
CREB2A	275	78.11	28.01	25.72	65.33	76.81	28.66	21.91	62.44
CREB2B	275	78.07	28	25.7	65.3	76.8	28.67	21.88	62.43

CREB40	400	148.79	52.91	38.48	113.31	113.24	43.86	23.34	85.36
CULJ4A	400	121.94	43.08	32.56	93.48	115	43.11	29.28	90.24
DAIN40	400	129.07	45.9	25.83	90.74	99	38.75	17.69	72.49
DAMC40	400	130.88	45.75	38.33	103.03	132.34	49.1	38.28	107.71
DEES41	400	117.13	40.19	32	88.83	115.77	42.82	32.15	92.7
DEES42	400	108.76	37.79	27.85	81.29	103.88	38.83	26.54	81.45
DIDC41	400	129.8	45.27	37.07	101.09	132.1	48.5	40.41	109
DIDC42	400	112.46	38.9	34.49	89.5	113.7	41.48	37.05	95.71
DINO40	400	75.84	25.68	21.95	58.27	79.48	29.09	23.38	64.51
DRAK21	275	70	24.78	18.76	53.8	71.99	26.93	19.83	57.92
DRAK22	275	72.61	25.83	21.4	57.93	77.28	28.72	22.29	62.91
DRAK41	400	112.68	40.13	25.76	82.5	107.94	40.88	26.7	84.51
DRAK42	400	87.3	31.58	18.15	62.81	81.85	31.47	17.11	61.61
DRAX41	400	142.99	49.86	41	111.51	144.46	53.08	43.18	118.24
DRAX42	400	145.11	49.98	42.11	112.79	146.29	53.62	43.49	119.32
DUBR4A	400	40.06	14.91	9.09	30.18	31.59	12.29	6.01	23.39
DUBR4B	400	50.14	18.87	10.71	37.39	40.11	15.8	7.39	29.74
DUNG20	275	43.55	16.03	13.03	35.71	48.15	18.12	13.98	39.6
DUNG40	400	67.53	26.12	13.18	50.12	69.69	27.9	13.5	52.96
EALI20	275	63.39	22.61	18.07	50.05	68.34	26.98	13.71	51.86
EASO40	400	97.25	35.19	22.92	72.69	74.01	28.6	16.02	56.47
ECLA40	400	121.7	44.22	25.63	88.16	94.92	37.27	16.55	69.26
EGGB41	400	107.26	38.16	28.28	82.24	100.89	37.82	25.52	79
EGGB42	400	132.53	45.76	36.92	101.63	129.25	47.91	33.33	101.07
ELLA20	275	69.2	25.18	13.55	49.16	61.23	24.05	10.43	44.45
ELST21	275	70.79	25.52	18.03	54.13	76.58	28.99	19.19	60.18
ELST22	275	65.54	23.61	13.78	47.16	72.8	27.87	14.62	54.04
ELST2A	275	69.99	25.23	17.96	53.64	75.64	28.61	19.11	59.57
ELST2B	275	64.85	23.35	13.76	46.79	71.95	27.52	14.61	53.53
ELST40	400	104.35	37.96	21.29	74.97	110.88	43.24	22.17	83.32
ELST4A	400	104.33	37.96	21.29	74.96	110.82	43.22	22.14	83.26
ELST4B	400	48.15	18.36	8.66	34.62	44.05	17.21	8.6	32.94
ENDE40	400	91.81	33.65	18.95	66.54	62.14	24.83	9.53	44.64
EXET40	400	62.13	21.7	13.76	44.44	57.4	21.93	11.77	42.78
FAWL40	400	90.28	30.92	23.24	66.96	89.59	33.34	23.23	70.37

FECK20	275	68.9	24.92	15.8	51.04	68.21	26.15	15.87	52.86
FECK40	400	86.31	31.91	15.47	60.6	71.08	27.93	13.86	53.36
FENW4A	400	112.25	40.45	28.09	85.3	93.23	35.8	18.54	69.17
FERR21	275	71.38	25.46	19.77	55.77	75.65	28.31	20.4	60.44
FERR22	275	76.95	27.17	24.59	63.02	83.27	30.64	26.08	69.42
FERR23	275	84.7	29.6	25.26	67.11	93.05	34.34	27.03	75.59
FERR2A	275	84.77	29.63	25.33	67.23	92.81	34.27	26.82	75.28
FERR2B	275	70.89	25.3	19.5	55.29	74.74	28.05	19.53	59.19
FERR4A	400	89.61	31.78	23.59	68.54	80.35	30.24	20.33	63.09
FFES21	275	36.9	13.67	7.54	26.87	36.13	14.2	6.37	26.45
FFES22	275	34.66	13.07	5.83	24.31	33.23	13.3	4.44	23.24
FIDF21	275	67.59	22.88	23.86	56.22	71.79	25.82	24.82	61.33
FIDF22	275	68.06	23.2	23.83	56.65	71.4	25.81	24.41	60.91
FIDF23	275	85.32	28.77	25.92	66.6	87.27	31.75	26.78	71.69
FIDF24	275	85.8	28.85	26.1	66.9	88.51	32.15	27.25	72.72
FLEE40	400	107.74	37.85	24.06	77.59	92.1	35.44	19.65	69.77
FORD4A	400	39.31	14.66	8.77	29.5	31.08	12.15	5.8	22.99
FORD4B	400	50.1	18.88	10.43	37.13	39.81	15.78	6.51	28.83
FOUR20	275	43.59	17.11	4.71	28.91	35.22	14.69	3.09	23.86
FROD2A	275	66.26	22.69	23.14	55.24	69.29	25.18	22.57	58.18
FROD2B	275	65.3	22.25	23.04	54.51	67.98	24.64	22.31	57.15
FROD40	400	105.34	35.87	30.36	81.08	92.88	34.48	25.45	74.22
GRAI41	400	157.74	55.32	47.91	126.15	167.18	61.63	52.84	140
GRAI42	400	137.47	48.87	36.46	105.58	132.75	49.97	34.89	105.55
GREN40	400	86.25	32.46	14.34	60.25	54.85	22.3	8.69	40.23
GRIW40	400	80.26	28.98	21.21	62.2	67.66	26.04	13.7	50.52
GRST21	275	90.69	31.54	27.6	72.2	99.07	36.29	29.35	80.67
GRST22	275	90.97	31.63	27.75	72.48	99.58	36.46	29.6	81.16
GRTO2A	275	57.4	20.82	12.11	41.55	56.36	22.64	8.03	40.04
GRTO2B	275	57.46	20.83	12.16	41.62	56.48	22.66	8.11	40.16
HACK2A	275	68.71	25.31	17.72	53.52	70.42	27.08	16.59	54.88
HACK2B	275	68.16	25.08	17.58	53.05	66.6	25.66	15.87	52.17
HACK40	400	127.3	44.97	28.17	91.76	120.58	47.85	20.62	88.3
HAKB4A	400	51.15	19.48	7.83	35.38	42.23	16.77	6.9	30.61
HAKB4B	400	51.28	19.51	7.82	35.41	42.74	16.94	7.16	31.12

HAMB4A	400	85.84	30.27	20.53	63.34	72.21	27.92	13.54	53.02
HAMB4B	400	85.84	30.27	20.53	63.34	72.13	27.89	13.51	52.95
HAMH20	275	81.47	28.74	17.75	58.4	76.62	29.48	14.45	56.14
HAMH2A	275	71.98	25.63	18.43	54.68	69.73	26.38	16.32	53.64
HAMH40	400	81.99	29.9	15.81	58.1	72.72	28.32	13.2	53.25
HAMH4A	400	80.48	29.34	15.82	57.31	71.53	27.81	13.21	52.54
HARK21	275	45.98	16.97	10.62	34.62	49.67	18.96	11.92	38.74
HARK22	275	48	17.78	10.75	35.89	52.48	20.08	12.2	40.61
HARK40	400	60.42	22.74	9.27	41.43	52.99	20.72	10.37	39.67
HARM20	275	67.18	24.43	12.37	46.93	58	22.81	8.93	41.2
HATL20	275	91.66	31.76	22.65	67.57	90.62	33.99	22.88	70.96
HAWP20	275	80.32	28.74	17.39	58.03	72.55	28.08	13.66	53.36
HAWP4A	400	51.53	18.85	11.9	38.56	41.87	16.1	9.07	31.83
HEYS40	400	102.09	35.15	27.6	77.31	105.77	38.88	30.22	85.21
HIGM20	275	69.38	25.25	19.5	55.21	64.98	24.98	15.57	50.89
HIGM2A	275	45.42	16.47	14.95	38.25	45.6	17.09	12.99	37.16
HIGM40	400	85.17	31.63	18.99	63.72	69	27.15	12.09	50.49
HIGM4A	400	66.63	24.73	16.89	51.86	55.39	21.52	11.64	42.07
HILL40	400	83.2	29.4	19.4	60.98	68.63	26.62	13.19	50.84
HINP21	275	24.03	8.59	8.19	20.34	26.36	9.67	8.89	22.57
HINP22	275	24.07	8.61	8.12	20.3	26.79	9.84	8.94	22.85
HINP40	400	73.21	25.9	17.44	54.07	71.55	26.89	19.1	57.14
HIRN40	400	65.85	23.99	15.37	49.3	45.28	17.98	6.53	31.96
HUMR40	400	127.4	44.49	38.68	101.59	129.15	47.6	38.86	106.17
HURS20	275	73.4	26.28	18.67	55.83	74	30.24	15.22	57.98
HUTT40	400	69.92	25.74	12.61	49.02	49.69	20.02	7.08	35.39
IMPP40	400	60.44	22.28	13.38	44.89	49.42	19.1	10.32	37.34
INDQ40	400	37.36	13.24	7.24	25.97	37.8	14.4	7.79	28.15
IROA20	275	59.7	22.05	11.58	42.76	56.42	22.05	10.79	41.97
IROA2A	275	59.13	21.83	11.58	42.45	55.91	21.83	10.79	41.66
IROA2B	275	59.13	21.83	11.58	42.45	55.91	21.83	10.79	41.66
IRON40	400	90.95	32.36	20.16	65.93	86.12	32.74	20.01	66.32
IVER21	275	68.68	24.94	16.8	52.08	72.25	27.54	17.04	55.99
IVER22	275	69.36	25.14	15.81	51.37	66.94	25.99	13.84	50.59
IVER2A	275	46.8	17.27	11.6	36.03	45.97	17.78	10.59	35.73

IVER4A	400	49.5	18.44	11.3	37.38	45.7	17.6	10.69	35.57
IVER4B	400	44.47	16.83	9.63	33.43	39.14	15.25	8.78	30.36
JORD20	275	48.41	17.93	9.13	34.49	49.41	20.18	7.94	36.48
KEAD41	400	120.44	43.28	32.53	93.74	103.93	39.55	24.19	80.12
KEAD42	400	124.21	44.47	32.85	95.74	106.79	40.68	24.9	82.43
KEAD43	400	91.12	33.55	21.01	68.46	72.22	28.15	13.6	53.42
KEAD4A	400	119.42	42.97	31.68	92.45	94.93	36.75	17.79	69.77
KEAD4B	400	125.03	44.85	32.83	96.26	98.41	38.14	18.34	72.28
KEAD4C	400	88.17	31.9	25.81	70.92	76.38	28.89	20.71	61.58
KEAD4D	400	88.17	31.9	25.81	70.92	76.38	28.89	20.71	61.58
KEAP41	400	115.46	41.64	30.52	89.41	99.31	38.03	21.99	75.78
KEAP42	400	121.24	43.53	31.45	93.01	103.94	39.67	23.96	80.06
KEAR20	275	75.09	26.28	20.31	57.47	80.72	30.11	20.52	63.09
KEAR40	400	91.27	33.19	17.45	64.39	75.24	29.23	14.97	56.3
KEAR4A	400	82.7	30.47	15.23	58.32	58.92	23.21	10.46	43.28
KEMS40	400	159.98	56.49	42.54	122.43	134.69	52.23	25.51	99.37
KEMS4A	400	92.13	33.13	29.08	75.93	82.12	31.19	21.37	65.48
KEMS4B	400	94.66	34.09	29.46	77.67	83.57	31.78	21.48	66.43
KIBY21	275	86.55	29.29	23.39	64.81	86.09	32.59	18.13	64.21
KIBY22	275	76.42	26.36	19.85	57.13	70.64	26.69	15.48	53.23
KILL40	400	137.01	47.5	42.42	109.59	143.62	52.56	43.7	118.03
KINO41	400	142.77	49.88	42.56	113.1	137.5	51.04	39.97	112.16
KINO42	400	134.81	46.98	39.99	106.43	135.74	50.16	40.43	111.37
KIRK20	275	60.14	21.76	13.79	44.56	57.05	22.33	10.99	42.57
KIRK2A	275	61.63	22.16	14.4	45.73	57.49	22.92	10.97	43.38
KITW20	275	69.86	25	13.09	48.45	69.17	26.94	11.7	49.8
KNAR20	275	30.74	12.51	2.61	20.3	24.99	10.42	2.88	17.62
LACK20	275	61.17	21.62	16.29	46.86	63.56	23.81	17.07	50.73
LACK2A	275	86.94	30.44	25.54	68.6	95.26	35.06	26.92	76.5
LACK2B	275	91.85	31.9	28.24	73.36	101.77	37.14	30.74	83.27
LACK2C	275	88.21	30.82	26.19	69.78	96.64	35.53	27.52	77.77
LACK40	400	90.19	32.18	22.14	67.65	84.35	31.66	22.04	66.81
LALE20	275	63.04	22.59	17.36	49.3	68.61	26.72	16.2	53.99
LAND41	400	36.79	13.11	7.31	25.86	36.03	13.86	6.5	26.1
LAND42	400	36.91	13.15	7.36	25.95	36.01	13.86	6.47	26.07

LAND4A	400	36.59	13.03	7.35	25.79	35.71	13.73	6.48	25.9
LANG40	400	48.03	16.52	11.52	34.88	53.32	19.6	14.62	42.34
LEGA40	400	100.52	35.36	23.32	73.33	76.15	29.91	13.32	55.62
LEGA4A	400	67.68	24.17	19.07	53.25	54.87	21.11	12.41	42.27
LEGA4B	400	67.72	24.17	19.07	53.26	54.94	21.14	12.41	42.31
LEIB4A	400	86.56	31.98	18.63	63.85	63.16	24.84	10.53	45.66
LEIB4B	400	110.55	40.52	22.94	80.24	80.18	31.74	12.43	57.31
LISD20	275	79.45	27.18	20.31	58.75	79.79	30.63	16.93	60.24
LISD2A	275	50.83	17.68	16	40.99	52.73	19.87	13.63	41.73
LITB40	400	91.22	33.1	21.36	68.17	71.11	27.57	16.95	55.94
LITT2A	275	61.81	22.52	15.45	47.3	60.07	24.09	14.14	48.21
LITT2B	275	61.67	22.49	15.27	47.07	60.93	24.32	14.64	49.02
LITT41	400	106.06	38.58	22.34	76.89	97.75	37.96	21.48	75.16
LITT42	400	56.84	20.9	13.32	42.88	61.27	23.15	16.03	48.77
LITT4A	400	94.03	34.72	18.58	67.69	77.97	30.97	12.29	56.09
LITT4B	400	65.06	23.92	15.12	48.94	61.76	23.93	12	45.84
LOVE40	400	103.15	35.58	24.96	75.27	93.2	35.66	18.37	68.8
MACC20	275	54.37	20.1	13.45	41.88	51.89	20	11.63	39.92
MACC40	400	85.33	31.58	15.82	60.48	63.6	25.4	9.64	45.57
MAGA20	275	58.92	22.06	10.7	41.89	54.27	21.36	10.02	40.22
MANN40	400	60.35	21.38	13.55	43.79	55.6	21.21	11.99	41.98
MAWO40	400	71.54	24.91	18.79	54.02	74.23	27.49	20.92	59.79
MEDW40	400	117.99	42.66	27.87	88.2	109.89	42	25.37	84.77
MELK2A	275	46.12	17.04	13.44	37.53	45.56	17.3	12.35	36.82
MELK2B	275	44.8	16.58	12.82	36.28	45.57	17.33	12.2	36.71
MELK40	400	115.19	41.58	23.24	82.04	92.03	36.12	16.49	67.57
MILH2A	275	44.66	16.82	7.09	30.88	44.62	18.31	6.77	32.67
MILH2B	275	44.63	16.81	7.08	30.85	44.57	18.3	6.75	32.63
MITY40	400	88.19	32.81	15.7	62.09	63.4	25.51	9.21	45.29
MONF21	275	86.86	30.46	27.11	70.19	92.5	34.33	25.73	74.28
MONF22	275	78.55	27.85	24.46	63.86	80.94	30.17	22.63	65.3
MONF40	400	101.25	35.81	26.34	76.97	90.43	34.14	21.04	69.33
MONF4A	400	88.41	31.52	22.76	67.33	78.07	29.55	18.02	59.8
NECH20	275	89.08	31.09	21.35	65.32	82.31	31.63	16.12	60.86
NEEP20	275	55.6	20.18	12.61	41.15	60.57	23.9	12.07	45.87

NEEP2A	275	44.88	16.24	12.69	35.66	48.29	18.33	11.81	37.74
NEEP4A	400	46.34	17.4	9.58	34.19	39.75	15.56	7.86	29.86
NEWX20	275	80.39	28.59	19.5	59.94	85.11	34.31	15.97	64.49
NFLE40	400	155.51	54.58	38.34	115.52	118.26	46.61	19.65	85.57
NHYD2A	275	48.36	18.45	8.06	34.16	42.14	19.42	5.54	33
NHYD2B	275	48.88	18.59	7.76	34.05	42.67	18.96	7.4	34.22
NINF40	400	62.36	23.34	12.73	45.74	56.52	22.26	11.58	43.06
NORL2A	275	49.52	18.26	9.86	35.68	50.78	20.79	7.3	36.71
NORL2B	275	49	18.13	9.25	34.89	50	20.75	6.57	35.91
NORT21	275	75.16	26.47	18.3	55.73	75.01	28.39	17.16	57.31
NORT22	275	66.37	24	16.37	50.31	62.14	23.72	14.08	47.62
NORT40	400	86.84	31.15	19.83	63.88	72.68	27.93	15.09	54.59
NORW40	400	71.68	26.11	16.6	53.54	61.67	23.7	13.75	47.26
NURS40	400	67.89	23.84	17.16	50.88	67.61	25.34	16.39	52.22
NURS4A	400	56.42	20.28	12.81	41.5	51.21	19.5	11.27	38.85
OCKH20	275	68.03	24.44	13.17	47.73	68.49	26.55	12.22	49.77
OCKH2A	275	58.62	21.13	12.82	42.71	57.51	22.19	11.96	43.34
OFFE20	275	71.37	25.89	12.86	49.48	62.02	24.38	10.15	44.63
OLDB20	275	58.19	21.25	10.94	40.99	59.38	23.1	10.63	43.3
OLDB2A	275	57.66	21.05	10.94	40.71	58.83	22.87	10.63	42.97
OLDB4A	400	38.2	14.4	7.2	27.57	34.55	13.52	6.63	25.75
OSBA41	400	76.16	28.03	17.26	56.9	54.75	21.52	9.17	39.61
OSBA42	400	75.98	28	17.27	56.87	53.05	20.89	8.82	38.37
PADI40	400	80.19	29.18	17.32	58.58	51.31	20.32	8.47	37.21
PAFB4A	400	57.69	22.08	9.54	40.76	37.44	15.42	3.67	25.49
PAFB4B	400	57.81	22.12	9.57	40.85	37.52	15.46	3.69	25.54
PELH40	400	152.97	54.16	38.67	115.26	131.33	50.25	28.56	99.62
PEMB40	400	64.94	22.89	18.21	50.58	72.92	26.89	20.22	58.24
PENN20	275	75.63	27.03	17.11	55.33	77.94	29.74	16.68	58.74
PENN2A	275	74.73	26.7	17.07	54.84	76.98	29.35	16.66	58.16
PENN4A	400	48.23	18	9.53	34.98	42.02	16.4	8.64	31.83
PENN4B	400	50.42	18.81	9.76	36.36	45.87	17.88	9.15	34.44
PENT40	400	79.01	26.78	22.1	59.98	80.4	29.76	20.94	63.02
PEWO21	275	70.63	25.05	21.09	56.52	68.86	25.89	17.89	54.52
PEWO22	275	71.31	25.25	21.62	57.33	65.87	24.7	17.89	52.82

PEWO2A	275	71.63	25.35	21.77	57.63	66.16	24.78	18.16	53.2
PEWO2B	275	72.35	25.59	21.98	58.17	71.59	26.81	19.36	57.27
PEWO40	400	107.52	37.32	26.28	79.06	90.22	34.51	18.74	67.55
PEWO4A	400	76.82	27.36	21.25	59.95	26.4	10.83	2.96	18.27
PEWO4B	400	78.42	27.83	21.74	61.1	29.19	11.84	3.54	20.28
PITS20	275	57.63	20.85	12.84	42.33	64.15	25.1	12.28	47.77
POPP20	275	29.98	12.36	1.98	19.46	23.74	10	2.66	16.8
PYLE20	275	62.56	23.37	10.98	44.04	55.83	22.12	9.38	40.66
PYLE2A	275	61.94	23.13	10.99	43.7	55.33	21.9	9.38	40.36
PYLE2B	275	61.94	23.13	10.99	43.7	55.33	21.9	9.38	40.36
QUER4A	400	88.19	31.07	21.92	65.86	76.39	29.36	14.26	55.79
QUER4B	400	87.95	31.01	21.79	65.64	76.9	29.54	14.5	56.29
RAIN20	275	102.03	33.69	30.32	77.97	98.25	36.42	23.71	75.21
RASS40	400	57.26	21.1	12.47	42.3	43.75	17.23	6.99	31.36
RATS2A	275	44.5	16.23	13.84	36.78	45.85	17.06	14.51	38.63
RATS41	400	100.52	36.31	22.65	74	99.9	37.82	23.77	77.24
RATS42	400	114.06	40.51	25.97	83.26	114.02	42.88	27.7	88.34
RAYL41	400	90.89	33.19	21.34	68.28	70.7	27.58	13.75	52.75
RAYL42	400	93.27	34.16	21.17	69.47	68.7	27.02	12.61	50.82
REBR21	275	72.1	26.28	18.87	56.04	68.93	26.98	13.55	51.7
REBR22	275	72.86	26.6	19.22	56.84	70.02	27.55	12.94	51.9
ROCH20	275	63.72	23.09	14.42	47.07	62.25	23.97	12.56	46.47
ROCH4A	400	32.58	12.2	7.7	24.95	28.99	11.16	6.71	22.5
ROCK40	400	101.41	34.68	28.72	77.76	87.88	32.81	23.3	69.7
RUGE40	400	70.7	25.63	14.68	50.93	69.33	26.44	16.04	53.43
RYEH40	400	87.52	31.31	23.47	67.76	85.57	32.13	22.98	68.42
RYEH4A	400	79.46	28.99	20.19	61.18	70.92	27.02	17.37	55.58
SAEN20	275	76.63	27.27	22.29	60.86	77.54	28.73	23	63.64
SAES20	275	77.22	27.44	22.62	61.42	78.75	29.08	24.28	65.41
SALH20	275	77.17	27.21	17.31	55.79	74.66	28.48	15.02	55.29
SBAR40	400	63.53	24	12	45.95	53.04	20.92	9.46	39.05
SEAB40	400	72.41	25.64	17.98	54.24	69.88	26.07	19.44	56.3
SELL40	400	72.73	27.58	14.38	53.38	70.71	27.95	14.48	54
SHBA40	400	97.29	34.51	28.08	76.88	93.78	35.02	26.52	76.04
SHEC20	275	51.24	18.8	10.61	37.19	54.1	21.99	8.26	39.36

SHRE4A	400	66.98	24.48	13.69	48.3	53.65	21.2	8.33	38.31
SING40	400	148.61	52.41	36.36	110.49	104.85	41.45	16.32	74.94
SIZE40	400	76.11	27.04	20.08	58.33	79.54	29.47	22.4	64.07
SJOW20	275	95.08	34.21	24.78	73.16	105.11	40.51	28.17	85.46
SJOW2A	275	73.79	26.34	21.35	58.61	75.26	30.76	19.7	63.2
SJOW2B	275	73.79	26.34	21.35	58.61	75.26	30.76	19.7	63.2
SJOW40	400	121.21	42.97	27.67	88.44	126.59	48.91	27.72	96.89
SKLG20	275	68.89	24.65	15.55	50.42	64.58	25.09	12.42	47.9
SMAN20	275	73.94	26.73	17.14	54.94	71.55	27.69	13.41	52.57
SPEN21	275	52.06	19.24	9.52	36.74	45.54	17.89	7.87	33.18
SPEN22	275	53.95	19.98	9.66	37.91	45.1	17.89	7.34	32.64
SPLN40	400	73.07	26.65	20.17	57.86	63.5	24.12	17.32	51.44
SSH20	275	66.55	24.29	11.03	45.38	58.34	22.98	9.65	42.14
STAH4A	400	83.18	29.42	19.38	60.98	68.38	26.55	13.03	50.57
STAH4B	400	83.18	29.42	19.38	60.98	68.34	26.53	13.02	50.54
STAL21	275	46.2	17.03	11.1	35.19	45.59	17.45	10.2	34.88
STAL22	275	56.99	21.31	10.23	40.36	50.34	19.85	8.71	36.77
STAL4A	400	34.59	12.91	7.88	26.14	29.15	11.25	6.51	22.41
STAY41	400	76.15	28.07	15.67	55.37	68.23	26.29	15.32	52.5
STAY42	400	59.96	22.75	10.95	43.12	40.45	16.46	4.64	27.92
STAY4A	400	67.79	25.12	14.89	50.42	59.03	22.73	14.21	46.36
STEW20	275	95.58	33.92	18.24	66.2	95.72	36.73	18.12	70.07
STEW2A	275	95.42	33.87	18.17	66.06	95.45	36.68	17.82	69.69
STEW4A	400	43.26	15.61	10.8	32.87	41.13	15.55	10.26	32.24
STEW4B	400	43.28	15.62	10.89	32.98	41.73	15.77	10.43	32.73
STEW4C	400	43.22	15.65	10.6	32.73	39.47	15.08	8.67	30
STEW4D	400	43.06	15.6	10.61	32.67	39.59	15.14	8.67	30.08
STSB40	400	58.84	21.76	13.13	43.9	50.4	19.53	10.45	38.06
STSB4A	400	51.59	19.22	12.04	39.23	43.74	16.94	9.72	33.67
SUND41	400	135.38	49.06	27.96	97.34	107.97	42.14	20.39	79.98
SUND42	400	113.65	41.35	24.68	83.15	91.39	35.37	18.49	68.52
SUTB4A	400	101.21	36.56	26.04	77.74	85.52	32.65	22.09	68.26
SUTB4B	400	111.19	40	30.4	86.97	70.15	25.28	27.15	62.9
SWAN20	275	56.99	20.88	14.06	43.6	60.76	23.18	14.11	46.9
SWAN40	400	50.01	18.33	11.44	37.37	43.95	16.87	9.71	33.57

SWAN4A	400	49.39	18.12	11.21	36.84	43.33	16.65	9.5	33.05
SWAN4B	400	49.4	18.13	11.21	36.84	43.36	16.66	9.52	33.08
TAUN4A	400	53.12	19.18	10.77	37.9	44.96	17.66	7	31.97
TAUN4B	400	54.05	19.49	10.95	38.51	46.45	18.21	7.48	33.23
TEMP21	275	57.02	20.67	12.48	41.72	61.13	24.03	11.4	45.39
TEMP22	275	57.2	20.73	12.57	41.88	61.61	24.21	11.54	45.78
THOM20	275	76.16	27.07	21.58	59.87	78.15	29.49	20.34	62.05
THOM40	400	112.27	39.74	27.5	83.71	95.73	36.66	19.28	71.13
THTO41	400	118.68	42.78	28.91	89.42	88.02	34.36	14.84	63.44
THTO42	400	119.13	42.86	29.12	89.74	87.36	34.12	14.69	62.94
THUR20	275	64.96	24.08	10.99	45.04	64.75	25.6	10.64	46.84
THUR2A	275	65.37	24.31	10.38	44.76	61.31	24.57	8.28	43.04
TILB21	275	78.4	27.86	22.58	61.98	82.63	30.68	23.39	66.78
TILB22	275	79.33	28.13	24.24	64.02	84.02	31.1	25.12	69.1
TILB40	400	174.08	60.36	47.28	132.64	149.8	57.2	33.53	114.42
TINP2A	275	59.39	21.75	13.82	44.58	58.26	22.65	12.35	44.38
TINP2B	275	59.39	21.75	13.82	44.58	58.27	22.65	12.35	44.38
TODP20	275	63.47	22.52	15.29	47.14	57.95	22.34	11.2	42.8
TOTE21	275	80.94	29.42	21.51	63.12	80.88	31.15	18.12	62.17
TOTE22	275	81.79	29.77	21.84	63.94	83.52	32.17	18.38	63.88
TOTW21	275	82.57	30.32	18.78	61.65	81.14	33.55	14.53	61.97
TOTW22	275	83.38	30.56	19.14	62.36	81.83	33.77	14.94	62.7
TRAW20	275	44.95	15.9	13.48	35.96	47.74	17.93	11.69	37.05
TRAW40	400	60.16	21.91	12.12	43.09	47.65	18.84	8.33	34.98
TREM20	275	46.69	18.14	6.26	31.92	38.41	15.74	4.56	26.81
TREU4A	400	95.8	33.86	22.17	70.06	76.72	29.99	12.51	54.92
TREU4B	400	97.82	34.52	22.63	71.45	78.49	30.7	12.68	56.09
TYNE20	275	63	23.05	10.1	42.7	56.1	22.1	9.09	40.34
TYNE2A	275	58.18	21.55	9.43	39.91	50.92	20.16	7.99	36.51
UPPB21	275	51.13	18.94	12.34	39.12	48.54	18.83	10.03	36.66
UPPB22	275	51.07	18.94	12.32	39.1	45.97	17.76	10.26	35.38
USKM20	275	81.17	29.08	21.42	62.54	91.72	34.4	24.43	73.08
USKM2A	275	65.51	24.2	14.06	48.28	66.35	25.64	13.5	49.75
USKM2B	275	80.54	28.88	21.06	61.9	89.86	33.81	23.12	70.92
WALH40	400	68.79	25.32	13.36	49.18	50.73	20.11	8.48	36.92

WALN2A	275	12.51	4.23	3.54	9.53	13.11	4.75	3.69	10.41
WALN2B	275	12.51	4.23	3.54	9.53	13.11	4.75	3.69	10.41
WALN2C	275	11.76	3.95	2.47	8.05	8.66	3.69	0.34	5.56
WALN2D	275	11.76	3.95	2.47	8.05	8.66	3.69	0.34	5.56
WALP40	400	121.94	43.37	35.23	96.56	100.81	38.33	26.06	80.26
WALX21	275	99.24	35.72	27.85	78.36	96.36	36.69	25.35	77.24
WALX22	275	98.77	35.61	27.78	78.13	95.59	36.44	25.17	76.71
WALX4A	400	80.92	29.05	22.03	63.12	77.11	29.12	19.73	60.91
WALX4B	400	74.63	27.2	19.63	58.1	67.65	25.74	16.83	53.23
WARL20	275	85.24	30.57	20.18	63.41	71.91	28.09	13.17	52.9
WARO20	275	76.58	27.26	22.26	60.81	77.47	28.72	22.89	63.5
WASF2A	275	64.09	22.83	14.65	46.93	52.8	20.7	8.42	37.69
WASF2B	275	68.43	24.19	15.72	49.93	57.68	22.72	8.67	40.8
WATS21	275	66.61	24.26	15.39	49.69	67.15	25.96	13.49	50.21
WATS22	275	63.79	23.1	13.05	45.72	65.51	25.45	11.71	47.7
WBOL20	275	76.04	27.33	13.31	51.96	65.17	25.62	10.8	47.03
WBUR41	400	115.43	41.63	32.52	91.39	109.23	40.95	31.24	89.14
WBUR42	400	92.05	33.45	25.35	72.66	86.73	32.59	24.22	70.31
WEAV4A	400	75.91	28.07	14	53.7	52.43	21.25	5.85	35.91
WEAV4B	400	77.23	28.51	14.4	54.71	53.29	21.6	5.95	36.49
WHAM40	400	139.69	49.08	31.42	100.83	133.49	52.21	23.77	97.61
WHAM4A	400	109.92	39.42	23.92	79.67	105.8	43.14	18.86	79.87
WHAM4B	400	109.95	39.44	23.79	79.58	105.87	43.18	18.65	79.71
WHGA20	275	66.71	23.87	15.49	49.25	64.11	24.72	12.22	47.18
WHSO20	275	84.19	30.05	22.6	65.09	93.05	35	23.63	73.14
WHSO2A	275	59.59	21.57	17.22	47.73	62.26	23.37	17.78	50.83
WHSO2B	275	59.59	21.57	17.22	47.73	62.26	23.37	17.78	50.83
WHSO4A	400	70.42	25.31	17.75	53.55	61.35	23.33	14.59	47.59
WIBA20	275	56.62	20.55	12.29	41.35	61.58	24.52	10.03	44.7
WIEN2A	275	55.58	20.4	9.81	38.66	53.94	21.16	8.85	38.78
WIEN2B	275	59.71	21.56	12.55	43.04	58.21	22.65	11.05	43.08
WILE40	400	113.62	40.73	24.21	81.81	100.16	38.84	18.81	73.73
WILL20	275	42.06	15.05	14.92	36.2	45.41	16.66	15.03	38.59
WIMB20	275	87.3	30.89	21.33	65.02	94.65	37.28	19.83	72.55
WIMB2M	275	45.52	17.33	8.67	33.19	41.8	16.6	7.03	30.5

WISD20	275	83.88	29.56	25.2	67.01	91.74	35.48	22	72.18
WISD2A	275	64.42	22.92	19.3	51.72	68.85	26.98	17.85	56
WISD2B	275	73.49	26.34	20.13	57.38	74.04	29.95	18.74	61.1
WMEL20	275	73.5	26.2	14.38	51.43	70.81	27.47	13.89	52.74
WTHU41	400	97.75	35.9	19.19	69.96	77.52	30.96	11.43	55.21
WTHU42	400	97.75	35.9	19.19	69.96	77.52	30.96	11.43	55.21
WTHU4A	400	145.14	51.58	33.05	106	117.9	46.36	19.37	84.93
WTHU4B	400	145.14	51.58	33.05	106	117.9	46.36	19.37	84.93
WWEY21	275	80.39	29.41	17.71	59.3	80.61	31.1	16.95	60.93
WWEY22	275	67.02	24.99	13.13	48.47	64.84	25.21	12.47	48.13
WWEY2A	275	56.44	20.51	14.99	43.99	57.3	22.12	13.66	44.94
WWEY4A	400	45.27	17.21	8.34	32.67	39.68	15.56	7.8	29.81
WWEY4B	400	52.52	19.6	11.84	39.56	46.53	18.12	10.51	36.13
WYLF40	400	51.14	17.78	12.49	37.64	42.28	16.12	9.02	31.83
WYMO40	400	154.65	55.03	36.07	113.89	131.71	50.55	27.44	98.93
YGAR4A	400	56.78	20.59	12.04	41.16	44.27	17.59	6.78	31.66
YWER4A	400	56.32	20.37	12.18	40.99	44.03	17.48	6.5	31.23

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Table D.3.4b - NGET Forecast Short-Circuit Currents at 132kV and Lower Voltage Nodes for 2010/11 (kA)

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABTH11	132	31.62	12.29	7.06	24.44	37.61	14.61	9.58	30.24
ABTH12	132	52.76	19.4	14.33	41.77	62.65	23.54	18.46	51.75
ABTH13	132	11.77	4.64	1.61	8.17	10.36	3.96	2.35	7.95
AMEM10	132	27.96	10.07	9.98	24.23	34.25	12.63	11.2	29.05
AXMI10	132	27.87	9.68	9.32	23	33.69	12.29	10.48	27.86
BARK10	132	25.62	9.02	9.65	22.41	27.74	10.1	10.09	24.37
BICF10	132	28.56	10.36	10.73	25.39	31.49	11.55	10.95	27.28
BLYT60	66	52.03	17.25	15.69	40.09	29.88	10.83	12.23	27.55
BRIM10	132	53.1	18.25	20.66	46.47	64.79	23.21	24.58	57.41
BRWE10	132	20.73	7.25	8.64	18.9	6.12	2.24	2.15	5.31
CARR11	132	28.21	10.34	8.34	22.96	33	12.51	9.42	27.11
CARR12	132	51.31	17.63	16.59	41.52	63.07	23.1	19.57	52.25

CELL11	132	45.97	15.52	15.2	37.15	57.22	20.62	17.53	46.68
CELL12	132	31.09	10.83	10.71	26.03	37.04	13.49	11.92	31
DRAK10	132	35.97	10.59	9.89	24.87	43.99	14.7	12.98	33.76
DRAX11	132	15.74	5.41	5.65	13.3	19.7	7.02	7.18	17.11
DRAX12	132	14.96	5.14	5.38	12.65	18.76	6.68	6.86	16.3
EALI60	66	60.41	20.68	19.24	48.49	69.72	25.59	20.57	56.76
ECLA10	132	46.48	16.06	16.78	39.48	54	19.69	18.12	45.96
ELLA11	132	27.76	9.72	9.05	22.8	33.75	12.46	10.21	27.82
ELLA12	132	28.27	9.91	9.1	23.12	33.83	12.49	10.18	27.84
ELST11	132	30.34	10.05	10.48	24.7	38.04	13.75	12.49	31.94
ELST12	132	39.09	12.79	12.19	30.27	46.53	16.88	13.66	37.53
ELST1A	132	10.75	3.88	3.37	8.87	13.15	4.89	3.9	10.81
ELST1B	132	10.46	3.81	3.22	8.6	12.79	4.77	3.73	10.48
FAWL10	132	51.89	16.62	18.37	41.87	70.88	24.39	25.47	59.96
FERR11	132	35.73	12.21	12.34	29.61	43.08	15.57	15.23	37.26
FERR12	132	32.83	11.27	10.6	26.53	40.13	14.61	13.13	33.79
FERR13	132	10.76	3.97	3.4	9.02	11.36	4.2	3.59	9.53
GREN11	132	43.25	16.44	12.52	35.77	49.94	19.76	13.85	41.8
GREN12	132	45.14	16.71	13.24	36.88	52.02	20.3	14.33	43.04
HAMH11	132	29.49	10.18	11.06	25.46	36.5	13.21	12.96	31.64
HAMH12	132	29.55	10.18	10.88	25.28	30.78	11.17	10.7	26.49
HARK11	132	35.77	11.51	8.22	24.5	40.56	15.02	9.31	30.56
HARK12	132	32.84	11.17	8.08	23.87	36.79	13.9	9.05	28.71
HARK13	132	28.57	11.83	6.01	22.74	26.55	10.66	6.22	21.3
IROA11	132	44.63	16.24	12	34.97	54.39	20.6	13.92	43.05
IROA12	132	45.43	16.39	12.01	35.19	55	20.73	14	43.32
IRON11	132	27.42	7.69	7.1	17.97	33.09	10.85	9.29	24.63
IRON12	132	14.84	5.39	5.49	13.12	19.7	7.17	7.36	17.5
KINO10	132	37.26	12.43	12.14	29.72	47.21	16.66	15.87	39.43
LITT11	132	21.08	7.39	8.44	18.89	27.8	10.07	10.45	24.69
LITT13	132	31.38	11.17	11.58	27.38	40.43	14.65	15.25	35.97
LODR6M	66	20.56	7.55	6.91	17.58	2.26	1.57	0	2.22
MELK10	132	42.63	14.96	15.84	36.99	56.05	20.28	19.31	47.99
MILH11	132	24.5	8.66	8.44	20.68	30.81	11.29	10.16	26.13
MILH12	132	24.79	8.89	7.58	20.15	31.19	11.57	9.2	25.56

NFLE11	132	38.95	12.62	13.01	30.85	47.67	17.1	14.98	39.17
NFLE12	132	32.46	11.94	11.53	28.42	35.44	13.18	12.06	30.7
OCKH10	132	27.53	9.72	8.66	22.41	31.52	11.53	9.76	26.06
OLDS11	132	31.29	11.58	5.91	22.28	30.04	11.85	4.68	21.43
OLDS12	132	29.93	11.37	5.78	21.86	27.4	11.08	3.49	19.15
PADI10	132	28.56	9.73	9.98	23.75	34.84	12.53	11.19	28.91
PEMB10	132	29.73	10.54	10.26	25.17	37.41	13.73	12.28	31.7
RATS10	132	52.66	16.78	16.6	40.33	64.83	22.49	21.03	52.84
RUGE10	132	28.66	9.84	10.35	24.26	31.91	11.38	12.12	28.21
SIZE11	132	45.48	16.39	14.85	38.03	55.92	20.57	17.65	46.74
SIZE12	132	45.49	16.39	14.86	38.04	55.94	20.59	17.56	46.68
STEN10	132	39.64	12.39	10.2	27.72	49.2	17.56	12.26	37.09
STES10	132	34.38	11.6	10.36	26.75	42.76	15.4	12.34	34.11
STYC10	132	31.09	10.53	11.68	26.57	28.82	10.42	10.84	25.57
TYNE50	22	55.66	19.9	19.5	47.64	60.46	21.97	22.22	53.29
WALP11	132	50.31	17.94	13.51	38.88	55.19	21.21	14.31	44.3
WALP12	132	38.46	14.27	10.99	31.17	42.36	16.42	11.87	35.09
WALP13	132	32	12.23	8.54	25.84	34.55	13.68	9.09	28.43
WBUR10	132	33.23	10.94	11.03	26.51	44.15	15.48	14.48	36.37
WILL10	132	55.28	18.75	19.89	46.4	68.03	24.62	23.24	58.05
WIMB11	132	33.37	10.99	10.99	26.54	43.74	15.79	13.66	36
WIMB12	132	27.59	10.04	9.45	23.65	33.57	12.37	11.06	28.56
WIMB13	132	22.11	7.72	7.94	18.86	27.88	10.19	9.44	23.85
WIMB14	132	21.78	7.68	7.84	18.7	27.44	10.02	9.46	23.63
WISD60	66	50.05	17.14	17.46	41.71	6.54	4.52	0	6.4
WYLF10	132	46.45	14.35	13.84	34.13	57.95	20.14	16.09	44.57

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Table D.3.5a - NGET Forecast Short-Circuit Currents at 400kV and 275kV Nodes for 2011/12 (kA)

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABHA4A	400	39.98	14.33	7.81	28.08	36.95	14.28	6.44	26.64
ABHA4B	400	39.95	14.32	7.81	28.06	36.93	14.27	6.44	26.63
ABTH20	275	92.36	32.8	23.42	69.81	98.69	36.92	26.77	78.98
ALDW20	275	60.74	22.13	10.24	41.53	59.15	23.24	10.16	43.02
ALVE4A	400	26.46	9.95	4.34	18.41	21.74	8.66	3.16	15.41
ALVE4B	400	26.56	9.98	4.34	18.45	21.96	8.75	3.17	15.54
AMEM4A	400	55	20.74	10.81	40.13	44.6	17.72	7.2	32.26
AMEM4B	400	51.24	19.58	9.33	37.02	41.27	16.48	6.6	29.91
AXMI40	400	42.24	15.23	9.11	30.64	34.62	13.44	6.49	25.5
BAGB20	275	61.63	22.94	13.27	45.71	57.03	22.22	12.57	43.98
BARK21	275	63.49	23.01	18.11	50.65	64.91	24.6	17.38	52.16
BARK22	275	65.48	23.71	19.22	52.75	68.42	25.88	18.58	55.17

BARK40	400	157.11	55.12	36.93	114.88	137.08	53.62	24.82	100.65
BARP21	275	57.78	21.06	15.71	45.5	57.06	21.85	13.52	44.42
BARP22	275	60.16	21.88	16.99	47.93	61.07	23.28	14.91	47.84
BEDD21	275	66.68	24.64	15.91	50.75	68.11	26.28	15.45	52.61
BEDD22	275	84.74	30.68	18.65	62.04	85.23	33.23	17.3	64.3
BEDD2M	275	17.1	6.24	6.04	14.86	18.08	6.71	5.93	15.42
BEDD4A	400	46.33	17.27	11.29	35.72	41.52	16.26	10.16	33.15
BEDD4B	400	44.38	17.05	8.32	32.43	37.11	14.98	7.49	28.67
BESW20	275	65.5	23.51	12.36	45.6	58.43	22.89	9.99	42.35
BICF4A	400	65.65	24.3	16.93	51.3	46.52	18.3	8.63	34.51
BICF4B	400	62.8	23.17	16.78	49.55	48.4	18.9	9.33	36.06
BIRK20	275	51.76	17.95	16	41.39	54.14	20.24	13.88	42.51
BISW20	275	71.21	25.59	13.15	49.34	66.54	26.23	10.71	47.81
BLYT21	275	69.92	25.44	12.3	48.27	67.78	26.33	12.14	49.38
BLYT22	275	55.68	20.73	9.86	39.18	52.15	20.43	9.06	37.95
BLYT4A	400	33.95	12.51	7.53	25.22	31.33	12.01	7.07	24.07
BLYT4B	400	32.99	12.23	6.98	24.28	29.88	11.54	6.23	22.55
BOLN40	400	67.41	24.53	14.51	49.2	54.49	21.29	10.91	41.02
BOTW40	400	82.75	28.87	19.98	60.81	74.99	28.78	14.74	55.43
BRAI4A	400	64.13	23.78	14.47	48.1	48.58	19.02	8.81	35.7
BRAI4B	400	63.72	23.77	13.99	47.6	45.39	17.89	7.89	33.19
BRAW20	275	72.28	26.01	16.76	53.54	70.55	27.17	14.57	53
BRAW4A	400	38.14	14.08	9.4	29.31	33.38	12.74	7.97	25.99
BRED20	275	70.26	25.69	14.41	50.75	68.56	26.64	12.53	50.21
BRFO40	400	89.38	32	22.12	67.38	84.42	31.87	21.05	66.13
BRIM2A	275	86.94	31.7	22.03	66.86	81.84	31.73	17.15	62.03
BRIM2B	275	87.21	31.94	20.72	65.89	82.2	32.45	16.76	62.66
BRIM2C	275	87.26	31.85	22.21	67.25	81.96	31.86	16.72	61.78
BRIM2D	275	85.36	31.39	19.71	64.1	79.33	31.52	14.98	59.56
BRIN21	275	61.95	22.26	14.3	45.78	67.33	26.07	13.58	50.45
BRIN22	275	69.88	25.19	18.22	53.85	72.97	27.93	17.68	57.18
BRIN2M	275	27.65	9.96	10.36	24.45	28.46	10.47	9.76	24.56
BRIN40	400	75.37	27.58	17.45	56.46	56.18	21.77	12.58	43.36
BRLE40	400	125.06	44.02	28.82	91.08	108.04	41.63	22.15	81.03
BRWA2A	275	19.8	7.27	5.4	15.68	19.87	7.57	4.79	15.5

BRWA2B	275	19.76	7.25	5.44	15.69	19.7	7.5	4.83	15.43
BRWA2C	275	19.73	7.24	5.4	15.64	19.8	7.54	4.78	15.45
BURW40	400	101.2	36.67	26.11	77.97	64.44	25.81	10.83	47.34
BUSH20	275	65.79	23.7	13.5	47.01	63.13	24.63	10.91	45.74
BUST21	275	73.92	26.28	17.09	54.26	67.12	26.8	12.69	50.59
BUST22	275	72.56	25.82	16.71	53.22	64.24	26.11	11.06	47.98
CANT40	400	88.53	32.69	19.88	66.11	68.42	27.37	11.33	50.03
CAPE21	275	54.4	18.85	18.33	44.98	59.84	21.99	18.27	49.37
CAPE22	275	35.01	12.47	12.86	30.5	38.63	14.13	13.08	33.06
CAPE4A	400	95.51	33.33	25.02	72.15	83.13	31.52	18.46	63.03
CAPE4B	400	101.98	35.21	27.92	77.71	89.66	33.83	20.56	68.41
CARE20	275	53.57	20.12	9.71	38.16	46.46	18.42	8.37	34.42
CARR20	275	81.23	28.98	22.33	63.32	86.26	32.53	21.23	67.23
CARR4A	400	115.28	41.48	22.25	80.91	88.24	34.68	15.61	64.66
CARR4B	400	114.5	41.31	21.56	79.99	87.07	34.33	14.85	63.39
CARR4H	400	119.36	42.8	23.32	83.85	89.67	35.23	15.86	65.68
CELL40	400	98.37	35.94	18	68.82	77.23	30.47	13.91	57
CHIC41	400	39.73	14.46	8.7	29.15	31.49	12.3	5.83	23.22
CHIC42	400	39.28	14.28	8.64	28.83	29.74	11.66	5.3	21.79
CHSI20	275	92.89	33.89	18.74	66.67	80.31	31.86	13.2	58.25
CHTE20	275	69.89	24.69	18.06	52.97	61.7	23.74	13.38	46.95
CILF2A	275	51.37	18.94	14.55	41.33	45.88	17.47	12.51	37.22
CILF2B	275	51.32	18.9	14.53	41.27	51.03	19.41	13.61	41.06
CILF40	400	96.65	34.6	23.53	72.46	81.78	31.34	17.64	61.96
CITR41	400	121.27	43.08	27.44	88.36	125.11	48.86	22.26	91.35
CITR42	400	121.16	43.04	27.41	88.27	124.88	48.81	22.03	91.05
CLEV40	400	86.04	31.82	20.6	65.6	65.29	25.98	10.43	47.17
COSO40	400	112.48	40.67	26.53	84.05	96.05	36.99	22.44	74.76
COTT40	400	127.96	45.3	33.96	98.02	122.53	45.63	35.1	99.63
COVE20	275	65.65	23.44	13.38	46.53	61.73	23.81	11.88	45.56
COVE2A	275	64.99	23.21	13.37	46.19	61.15	23.56	11.88	45.21
COWB2A	275	70.91	26.17	14.1	51.1	61.93	24.54	9.1	43.82
COWL40	400	136.73	48.3	35.46	103.76	116.5	44.5	25.14	88.07
CREB2A	275	78.18	28.05	25.75	65.42	76.86	28.69	21.92	62.49
CREB2B	275	78.15	28.04	25.73	65.39	76.86	28.69	21.9	62.48

CREB40	400	149.25	53.13	38.6	113.74	113.43	43.95	23.37	85.52
CULJ4A	400	122.15	43.22	32.54	93.66	115.05	43.16	29.25	90.29
DAIN40	400	129.21	45.97	25.85	90.87	99.08	38.79	17.7	72.55
DAMC40	400	131.65	46.12	38.61	103.83	132.99	49.38	38.47	108.29
DEES41	400	117.22	40.23	32.02	88.92	115.87	42.86	32.19	92.8
DEES42	400	108.85	37.83	27.87	81.37	103.98	38.87	26.58	81.55
DIDC41	400	130	45.42	37.03	101.26	132.09	48.54	40.33	108.97
DIDC42	400	112.51	38.98	34.44	89.56	113.6	41.47	36.97	95.61
DINO40	400	75.87	25.69	21.96	58.3	79.51	29.1	23.39	64.54
DRAK21	275	70.02	24.8	18.75	53.82	71.98	26.93	19.83	57.92
DRAK22	275	72.62	25.85	21.4	57.96	77.28	28.73	22.29	62.92
DRAK41	400	112.79	40.2	25.77	82.62	108	40.92	26.7	84.57
DRAK42	400	87.4	31.64	18.15	62.9	81.9	31.5	17.11	61.66
DRAX41	400	144.55	50.48	41.47	112.87	145.71	53.58	43.55	119.32
DRAX42	400	145.51	50.17	42.23	113.18	146.61	53.76	43.59	119.61
DUBR4A	400	40.12	14.93	9.1	30.23	31.63	12.31	6.01	23.42
DUBR4B	400	50.19	18.9	10.72	37.44	40.14	15.81	7.39	29.76
DUNG20	275	43.6	16.06	13.05	35.77	48.19	18.14	13.99	39.64
DUNG40	400	67.72	26.22	13.22	50.3	69.79	27.94	13.52	53.04
EALI20	275	63.37	22.62	18.07	50.05	68.31	26.97	13.72	51.86
EASO40	400	97.37	35.27	22.93	72.81	74.03	28.62	16.01	56.49
ECLA40	400	121.88	44.35	25.63	88.35	94.96	37.31	16.55	69.31
EGGB41	400	107.93	38.45	28.44	82.81	101.33	38	25.61	79.36
EGGB42	400	132.82	45.9	36.99	101.89	129.44	47.99	33.36	101.23
ELLA20	275	69.24	25.2	13.56	49.2	61.24	24.06	10.43	44.46
ELST21	275	70.81	25.55	18.04	54.17	76.58	29	19.19	60.2
ELST22	275	65.56	23.63	13.77	47.19	72.8	27.88	14.62	54.04
ELST2A	275	70.01	25.25	17.96	53.68	75.64	28.62	19.11	59.58
ELST2B	275	64.87	23.38	13.76	46.81	71.95	27.53	14.6	53.53
ELST40	400	104.54	38.09	21.31	75.18	111.01	43.32	22.18	83.44
ELST4A	400	104.52	38.08	21.31	75.17	110.95	43.3	22.15	83.38
ELST4B	400	48.16	18.37	8.65	34.64	44.04	17.21	8.6	32.93
ENDE40	400	91.88	33.71	18.95	66.62	62.16	24.84	9.53	44.66
EXET40	400	62.13	21.72	13.74	44.45	57.39	21.93	11.76	42.78
FAWL40	400	90.32	30.96	23.22	67.01	89.6	33.35	23.21	70.38

FECK20	275	68.96	24.96	15.81	51.1	68.24	26.17	15.88	52.89
FECK40	400	86.66	32.09	15.49	60.86	71.24	28	13.88	53.48
FENW4A	400	114.53	41.35	28.78	87.26	94.94	36.5	18.82	70.43
FERR21	275	71.42	25.48	19.77	55.81	75.67	28.33	20.4	60.46
FERR22	275	77	27.2	24.61	63.07	83.3	30.66	26.09	69.45
FERR23	275	84.75	29.63	25.27	67.17	93.08	34.35	27.04	75.62
FERR2A	275	84.82	29.66	25.34	67.28	92.84	34.29	26.83	75.32
FERR2B	275	70.92	25.32	19.51	55.32	74.76	28.06	19.53	59.21
FERR4A	400	89.72	31.85	23.62	68.65	80.41	30.27	20.34	63.14
FFES21	275	36.91	13.67	7.54	26.87	36.13	14.21	6.37	26.46
FFES22	275	34.67	13.08	5.83	24.32	33.24	13.3	4.44	23.25
FIDF21	275	67.61	22.89	23.86	56.23	71.81	25.83	24.82	61.35
FIDF22	275	68.08	23.21	23.83	56.66	71.42	25.82	24.41	60.92
FIDF23	275	85.35	28.78	25.92	66.63	87.28	31.76	26.78	71.7
FIDF24	275	85.82	28.86	26.11	66.92	88.53	32.15	27.25	72.73
FLEE40	400	107.82	37.94	24.04	77.69	92.09	35.46	19.63	69.78
FORD4A	400	39.36	14.69	8.78	29.55	31.11	12.17	5.81	23.02
FORD4B	400	50.15	18.91	10.44	37.18	39.84	15.79	6.51	28.85
FOUR20	275	43.66	17.14	4.72	28.96	35.27	14.71	3.09	23.89
FROD2A	275	66.28	22.7	23.15	55.25	69.3	25.18	22.57	58.18
FROD2B	275	65.32	22.26	23.05	54.53	67.99	24.64	22.31	57.16
FROD40	400	105.39	35.9	30.37	81.13	92.88	34.49	25.44	74.21
GRAI41	400	162.24	57.13	50.15	130.95	174.74	64.37	56.4	147.43
GRAI42	400	139.29	49.67	37.2	107.45	135.32	50.94	35.82	107.86
GREN40	400	86.52	32.61	14.37	60.49	54.92	22.35	8.69	40.29
GRIW40	400	80.34	29.02	21.23	62.27	67.69	26.06	13.71	50.55
GRST21	275	90.78	31.57	27.62	72.27	99.15	36.32	29.37	80.74
GRST22	275	91.06	31.66	27.77	72.55	99.67	36.49	29.63	81.23
GRTO2A	275	57.43	20.83	12.11	41.57	56.38	22.65	8.03	40.05
GRTO2B	275	57.49	20.85	12.16	41.64	56.49	22.67	8.11	40.17
HACK2A	275	68.76	25.35	17.73	53.58	70.46	27.1	16.6	54.92
HACK2B	275	68.21	25.12	17.6	53.12	66.61	25.67	15.87	52.18
HACK40	400	127.75	45.22	28.25	92.19	120.87	48.01	20.65	88.54
HAKB4A	400	51.13	19.47	7.82	35.35	42.16	16.74	6.88	30.56
HAKB4B	400	51.25	19.5	7.8	35.37	42.68	16.92	7.14	31.07

HAMB4A	400	85.93	30.3	20.56	63.41	72.28	27.94	13.55	53.07
HAMB4B	400	85.93	30.3	20.56	63.41	72.2	27.91	13.52	53
HAMH20	275	81.53	28.78	17.75	58.45	76.63	29.49	14.44	56.15
HAMH2A	275	72.01	25.66	18.43	54.72	69.73	26.39	16.32	53.64
HAMH40	400	82.11	29.98	15.82	58.21	72.78	28.35	13.2	53.29
HAMH4A	400	80.6	29.41	15.82	57.41	71.59	27.84	13.21	52.59
HARK21	275	46.14	17.03	10.66	34.74	49.77	19	11.95	38.82
HARK22	275	48.16	17.84	10.78	36	52.58	20.12	12.23	40.69
HARK40	400	60.26	22.67	9.23	41.29	52.66	20.6	10.3	39.43
HARM20	275	67.21	24.45	12.38	46.95	58.01	22.82	8.94	41.21
HATL20	275	91.71	31.79	22.66	67.61	90.65	34.01	22.89	70.98
HAWP20	275	80.37	28.76	17.4	58.07	72.58	28.09	13.66	53.39
HAWP4A	400	51.57	18.87	11.9	38.59	41.89	16.1	9.07	31.84
HEYS40	400	102.24	35.18	27.69	77.44	106.04	38.97	30.34	85.45
HIGM20	275	69.5	25.31	19.57	55.37	65.09	25.02	15.62	51.01
HIGM2A	275	45.47	16.5	14.99	38.32	45.66	17.11	13.02	37.22
HIGM40	400	85.52	31.79	19.15	64.1	69.33	27.28	12.17	50.76
HIGM4A	400	66.79	24.81	16.98	52.06	55.57	21.58	11.7	42.22
HILL40	400	83.28	29.43	19.43	61.05	68.69	26.65	13.2	50.88
HINP21	275	24.02	8.59	8.18	20.33	26.34	9.66	8.88	22.55
HINP22	275	24.06	8.61	8.11	20.29	26.77	9.83	8.92	22.83
HINP40	400	73.2	25.94	17.36	54.05	71.41	26.86	19.01	57
HIRN40	400	78.91	28.6	18.72	59.17	55.55	21.93	8.68	39.7
HUMR40	400	127.62	44.59	38.75	101.81	129.31	47.67	38.91	106.33
HURS20	275	73.48	26.33	18.69	55.93	74.02	30.26	15.22	58.01
HUTT40	400	69.95	25.75	12.62	49.03	49.74	20.03	7.08	35.41
IMPP40	400	61.97	22.91	13.63	46.03	50.81	19.64	10.57	38.35
INDQ40	400	37.36	13.24	7.24	25.97	37.8	14.4	7.79	28.15
IROA20	275	59.85	22.15	11.57	42.89	56.48	22.09	10.78	42.02
IROA2A	275	59.27	21.92	11.57	42.57	55.97	21.87	10.78	41.7
IROA2B	275	59.27	21.92	11.57	42.57	55.97	21.87	10.78	41.7
IRON40	400	91.07	32.43	20.17	66.04	86.2	32.78	20.02	66.38
IVER21	275	68.67	24.96	16.79	52.09	72.22	27.54	17.03	55.98
IVER22	275	69.38	25.17	15.81	51.4	66.94	25.99	13.84	50.59
IVER2A	275	46.76	17.26	11.59	36.01	45.92	17.76	10.57	35.7

IVER4A	400	49.49	18.45	11.29	37.39	45.67	17.59	10.68	35.56
IVER4B	400	44.45	16.84	9.62	33.43	39.11	15.25	8.77	30.34
JORD20	275	48.45	17.96	9.14	34.54	49.44	20.2	7.94	36.51
KEAD41	400	120.87	43.47	32.71	94.19	104.18	39.66	24.28	80.36
KEAD42	400	124.4	44.56	32.9	95.92	106.91	40.73	24.92	82.53
KEAD43	400	94.21	34.73	22.12	71.23	74.95	29.21	14.25	55.55
KEAD4A	400	119.78	43.14	31.82	92.82	95.1	36.83	17.83	69.92
KEAD4B	400	125.24	44.97	32.88	96.47	98.51	38.19	18.35	72.36
KEAD4C	400	88.26	31.95	25.83	71.01	76.44	28.92	20.73	61.63
KEAD4D	400	88.26	31.95	25.83	71.01	76.44	28.92	20.73	61.63
KEAP41	400	115.86	41.82	30.69	89.83	99.55	38.13	22.08	76
KEAP42	400	121.42	43.62	31.49	93.18	104.05	39.72	23.99	80.16
KEAR20	275	75.14	26.29	20.33	57.51	80.8	30.13	20.54	63.15
KEAR40	400	91.36	33.23	17.46	64.46	75.31	29.26	14.98	56.36
KEAR4A	400	82.77	30.51	15.24	58.39	58.96	23.23	10.47	43.32
KEMS40	400	162.78	57.68	43.67	125.25	137.13	53.24	25.94	101.23
KEMS4A	400	92.92	33.47	29.52	76.86	82.91	31.5	21.65	66.2
KEMS4B	400	95.47	34.44	29.92	78.63	84.38	32.1	21.76	67.15
KIBY21	275	86.58	29.3	23.4	64.84	86.11	32.6	18.13	64.23
KIBY22	275	76.45	26.37	19.86	57.15	70.65	26.7	15.48	53.24
KILL40	400	137.26	47.61	42.51	109.85	143.82	52.65	43.76	118.22
KINO41	400	144.83	50.77	43.4	115.2	139.23	51.75	40.48	113.67
KINO42	400	135.63	47.37	40.3	107.29	136.42	50.45	40.65	112
KIRK20	275	60.17	21.78	13.79	44.59	57.07	22.34	10.99	42.58
KIRK2A	275	61.66	22.17	14.41	45.76	57.5	22.93	10.97	43.4
KITW20	275	69.9	25.03	13.09	48.49	69.18	26.95	11.7	49.81
KNAR20	275	30.75	12.52	2.61	20.31	24.99	10.42	2.88	17.62
LACK20	275	61.2	21.63	16.3	46.89	63.58	23.82	17.07	50.76
LACK2A	275	87.02	30.48	25.57	68.67	95.34	35.09	26.94	76.56
LACK2B	275	91.94	31.94	28.27	73.44	101.86	37.18	30.77	83.35
LACK2C	275	88.29	30.86	26.21	69.86	96.72	35.57	27.54	77.84
LACK40	400	90.32	32.24	22.16	67.76	84.44	31.7	22.05	66.88
LALE20	275	63.01	22.59	17.35	49.3	68.56	26.71	16.19	53.96
LAND41	400	36.79	13.12	7.31	25.86	36.02	13.86	6.49	26.1
LAND42	400	36.9	13.16	7.35	25.96	36.01	13.86	6.47	26.07

LAND4A	400	36.59	13.04	7.35	25.79	35.7	13.73	6.47	25.89
LANG40	400	48.02	16.53	11.51	34.88	53.29	19.6	14.59	42.31
LEGA40	400	100.62	35.41	23.33	73.41	76.21	29.93	13.33	55.66
LEGA4A	400	67.73	24.2	19.09	53.3	54.91	21.13	12.42	42.3
LEGA4B	400	67.78	24.2	19.09	53.31	54.98	21.15	12.42	42.33
LEIB4A	400	86.66	32.05	18.63	63.96	63.18	24.85	10.53	45.67
LEIB4B	400	110.71	40.64	22.94	80.41	80.2	31.76	12.42	57.34
LISD20	275	79.48	27.19	20.32	58.78	79.8	30.64	16.93	60.26
LISD2A	275	50.83	17.68	16	41	52.74	19.87	13.63	41.73
LITB40	400	91.33	33.17	21.37	68.28	71.12	27.58	16.94	55.95
LITT2A	275	61.85	22.56	15.46	47.37	60.07	24.1	14.14	48.22
LITT2B	275	61.72	22.52	15.29	47.14	60.93	24.33	14.64	49.04
LITT41	400	106.53	38.83	22.41	77.33	98	38.09	21.53	75.39
LITT42	400	56.93	20.98	13.28	42.95	61.2	23.15	15.95	48.69
LITT4A	400	94.47	34.96	18.66	68.1	78.19	31.08	12.31	56.27
LITT4B	400	65.25	24.03	15.12	49.11	61.84	23.97	12	45.91
LOVE40	400	103.22	35.65	24.94	75.35	93.21	35.68	18.36	68.82
MACC20	275	54.39	20.12	13.46	41.91	51.91	20.01	11.63	39.93
MACC40	400	85.41	31.63	15.83	60.56	63.64	25.42	9.65	45.6
MAGA20	275	61.73	23.19	11.09	43.88	55.95	22.07	10.23	41.44
MANN40	400	60.36	21.41	13.54	43.81	55.59	21.21	11.98	41.98
MAWO40	400	71.54	24.94	18.76	54.03	74.15	27.47	20.86	59.71
MEDW40	400	119.31	43.26	28.32	89.5	111.5	42.64	25.77	86.07
MELK2A	275	46.14	17.06	13.44	37.56	45.54	17.3	12.34	36.8
MELK2B	275	44.82	16.61	12.82	36.3	45.55	17.32	12.19	36.69
MELK40	400	115.96	41.97	23.28	82.63	92.32	36.27	16.48	67.78
MILH2A	275	44.66	16.82	7.09	30.88	44.6	18.31	6.76	32.66
MILH2B	275	44.62	16.81	7.08	30.85	44.55	18.3	6.75	32.62
MITY40	400	88.54	33.01	15.69	62.37	63.5	25.57	9.2	45.36
MONF21	275	86.92	30.49	27.13	70.25	92.54	34.35	25.74	74.32
MONF22	275	78.6	27.88	24.48	63.91	80.98	30.19	22.64	65.33
MONF40	400	101.39	35.88	26.36	77.11	90.51	34.18	21.06	69.4
MONF4A	400	88.53	31.58	22.78	67.45	78.14	29.58	18.03	59.86
NECH20	275	89.15	31.14	21.35	65.39	82.33	31.65	16.12	60.88
NEEP20	275	55.66	20.22	12.63	41.22	60.62	23.92	12.08	45.92

NEEP2A	275	44.91	16.26	12.7	35.7	48.31	18.34	11.82	37.76
NEEP4A	400	46.41	17.43	9.6	34.25	39.78	15.57	7.86	29.88
NEWX20	275	80.5	28.66	19.52	60.06	85.16	34.35	15.99	64.56
NFLE40	400	156.79	55.19	38.71	116.75	118.8	46.88	19.71	86.01
NHYD2A	275	48.34	18.45	8.05	34.15	42.11	19.4	5.54	32.99
NHYD2B	275	48.87	18.6	7.75	34.06	42.66	18.96	7.4	34.22
NINF40	400	62.46	23.4	12.75	45.84	56.56	22.28	11.59	43.1
NORL2A	275	49.56	18.28	9.87	35.73	50.81	20.81	7.3	36.74
NORL2B	275	49.04	18.16	9.26	34.94	50.03	20.77	6.57	35.94
NORT21	275	75.21	26.49	18.31	55.77	75.04	28.4	17.17	57.34
NORT22	275	66.41	24.02	16.38	50.35	62.17	23.73	14.08	47.64
NORT40	400	86.95	31.21	19.84	63.97	72.74	27.95	15.1	54.63
NORW40	400	71.78	26.17	16.62	53.63	61.71	23.72	13.75	47.29
NURS40	400	67.9	23.87	17.14	50.89	67.58	25.34	16.37	52.2
NURS4A	400	56.42	20.3	12.8	41.51	51.19	19.49	11.26	38.83
OCKH20	275	68.06	24.46	13.16	47.76	68.5	26.56	12.22	49.78
OCKH2A	275	58.63	21.15	12.82	42.73	57.51	22.2	11.95	43.34
OFFE20	275	71.4	25.91	12.86	49.51	62.04	24.39	10.15	44.65
OLDB20	275	58.21	21.27	10.94	41.01	59.38	23.11	10.62	43.3
OLDB2A	275	57.69	21.07	10.94	40.74	58.83	22.87	10.63	42.98
OLDB4A	400	38.22	14.42	7.2	27.59	34.56	13.53	6.63	25.75
OSBA41	400	76.36	28.13	17.29	57.07	54.82	21.56	9.18	39.66
OSBA42	400	76.09	28.06	17.29	56.97	53.08	20.91	8.82	38.4
PADI40	400	80.27	29.21	17.33	58.65	51.35	20.34	8.48	37.24
PAFB4A	400	57.71	22.1	9.53	40.79	37.43	15.42	3.67	25.48
PAFB4B	400	57.82	22.14	9.56	40.87	37.51	15.45	3.69	25.54
PELH40	400	153.35	54.38	38.73	115.63	131.5	50.34	28.58	99.76
PEMB40	400	82.9	28.79	24.84	65.55	97.03	35.37	28.51	78.53
PENN20	275	75.68	27.06	17.12	55.39	77.97	29.76	16.68	58.77
PENN2A	275	74.78	26.74	17.08	54.89	77.01	29.37	16.66	58.18
PENN4A	400	48.27	18.02	9.53	35.02	42.04	16.41	8.65	31.85
PENN4B	400	50.46	18.84	9.76	36.4	45.9	17.89	9.16	34.46
PENT40	400	79.05	26.8	22.11	60.01	80.43	29.77	20.95	63.05
PEWO21	275	70.67	25.07	21.11	56.56	68.89	25.91	17.91	54.54
PEWO22	275	71.34	25.26	21.64	57.37	65.9	24.71	17.9	52.84

PEWO2A	275	71.67	25.37	21.79	57.67	66.19	24.79	18.17	53.22
PEWO2B	275	72.39	25.61	22	58.21	71.62	26.82	19.38	57.3
PEWO40	400	107.64	37.36	26.32	79.16	90.31	34.55	18.76	67.62
PEWO4A	400	76.89	27.39	21.29	60.02	26.41	10.83	2.96	18.28
PEWO4B	400	78.49	27.86	21.77	61.18	29.2	11.85	3.54	20.29
PITS20	275	57.7	20.89	12.86	42.4	64.21	25.13	12.29	47.83
POPP20	275	29.99	12.36	1.98	19.47	23.74	10	2.66	16.81
PYLE20	275	64.81	24.3	11.21	45.58	57.06	22.66	9.48	41.52
PYLE2A	275	64.15	24.04	11.23	45.22	56.54	22.43	9.49	41.21
PYLE2B	275	64.15	24.04	11.23	45.22	56.54	22.43	9.49	41.21
QUER4A	400	88.29	31.09	21.97	65.94	76.5	29.4	14.28	55.87
QUER4B	400	88.04	31.04	21.83	65.73	77.01	29.59	14.52	56.36
RAIN20	275	102.07	33.71	30.33	78	98.27	36.43	23.71	75.23
RASS40	400	58.81	21.73	12.74	43.47	45.25	17.81	7.34	32.52
RATS2A	275	44.5	16.23	13.84	36.79	45.83	17.05	14.5	38.62
RATS41	400	100.62	36.37	22.67	74.11	99.96	37.85	23.78	77.3
RATS42	400	114.17	40.58	25.98	83.38	114.09	42.92	27.71	88.41
RAYL41	400	91.13	33.33	21.38	68.52	70.79	27.62	13.76	52.83
RAYL42	400	93.55	34.31	21.21	69.74	68.8	27.07	12.62	50.9
REBR21	275	72.18	26.33	18.89	56.12	68.94	26.99	13.56	51.72
REBR22	275	72.92	26.63	19.24	56.91	70.06	27.57	12.94	51.93
ROCH20	275	63.78	23.11	14.44	47.11	62.35	24.01	12.58	46.53
ROCH4A	400	32.64	12.22	7.71	25	29.03	11.18	6.72	22.53
ROCK40	400	101.45	34.7	28.73	77.8	87.87	32.81	23.29	69.69
RUGE40	400	70.76	25.67	14.68	50.98	69.36	26.46	16.04	53.46
RYEH40	400	87.61	31.38	23.48	67.85	85.58	32.14	22.96	68.42
RYEH4A	400	79.54	29.05	20.2	61.28	70.95	27.04	17.36	55.6
SAEN20	275	76.7	27.3	22.31	60.92	77.6	28.76	23.02	63.69
SAES20	275	77.28	27.46	22.64	61.48	78.8	29.11	24.3	65.46
SALH20	275	77.21	27.23	17.31	55.83	74.68	28.49	15.02	55.31
SBAR40	400	63.59	24.04	12.01	46.01	53.07	20.94	9.46	39.08
SEAB40	400	72.91	25.9	17.98	54.6	70.05	26.17	19.38	56.39
SELL40	400	73.02	27.72	14.45	53.65	70.9	28.03	14.53	54.17
SHBA40	400	97.39	34.56	28.11	76.99	93.86	35.05	26.53	76.1
SHEC20	275	51.29	18.83	10.62	37.25	54.14	22.01	8.27	39.4

SHRE4A	400	67.05	24.52	13.7	48.37	53.68	21.22	8.34	38.34
SING40	400	149.85	53	36.72	111.67	105.34	41.69	16.36	75.31
SIZE40	400	76.17	27.08	20.09	58.38	79.58	29.49	22.41	64.11
SJOW20	275	95.16	34.27	24.8	73.26	105.17	40.55	28.18	85.53
SJOW2A	275	73.8	26.37	21.36	58.65	75.24	30.77	19.69	63.2
SJOW2B	275	73.8	26.37	21.36	58.65	75.24	30.77	19.69	63.2
SJOW40	400	121.52	43.16	27.72	88.76	126.81	49.03	27.75	97.09
SKLG20	275	68.92	24.67	15.56	50.46	64.6	25.1	12.42	47.93
SMAN20	275	73.99	26.76	17.15	54.99	71.59	27.71	13.41	52.6
SPEN21	275	52.09	19.26	9.52	36.76	45.55	17.9	7.87	33.19
SPEN22	275	53.98	19.99	9.66	37.93	45.11	17.9	7.34	32.65
SPLN40	400	73.76	26.93	20.44	58.52	63.86	24.27	17.43	51.76
SSH20	275	66.58	24.31	11.03	45.41	58.35	22.98	9.65	42.15
STAH4A	400	83.27	29.45	19.41	61.05	68.44	26.57	13.04	50.61
STAH4B	400	83.27	29.45	19.41	61.05	68.4	26.56	13.02	50.58
STAL21	275	46.27	17.06	11.12	35.25	45.66	17.48	10.22	34.94
STAL22	275	57.02	21.32	10.23	40.39	50.36	19.86	8.71	36.79
STAL4A	400	34.64	12.93	7.89	26.18	29.18	11.26	6.51	22.44
STAY41	400	76.2	28.1	15.67	55.41	68.25	26.31	15.32	52.52
STAY42	400	60.02	22.78	10.96	43.18	40.48	16.47	4.64	27.94
STAY4A	400	67.82	25.15	14.89	50.45	59.04	22.74	14.21	46.37
STEW20	275	95.66	33.95	18.24	66.26	95.71	36.73	18.12	70.07
STEW2A	275	95.49	33.9	18.17	66.12	95.44	36.68	17.82	69.69
STEW4A	400	43.27	15.62	10.8	32.89	41.1	15.54	10.25	32.22
STEW4B	400	43.3	15.63	10.89	32.99	41.7	15.76	10.43	32.71
STEW4C	400	43.23	15.65	10.6	32.74	39.42	15.06	8.66	29.97
STEW4D	400	43.07	15.61	10.6	32.68	39.55	15.12	8.66	30.04
STSB40	400	58.95	21.81	13.15	44	50.45	19.56	10.46	38.11
STSB4A	400	51.66	19.25	12.06	39.29	43.78	16.95	9.73	33.71
SUND41	400	135.68	49.25	27.98	97.63	108.07	42.2	20.39	80.06
SUND42	400	113.87	41.49	24.7	83.37	91.46	35.42	18.49	68.58
SUTB4A	400	101.57	36.73	26.13	78.07	85.67	32.72	22.13	68.4
SUTB4B	400	111.63	40.21	30.54	87.4	70.15	25.29	27.18	62.94
SWAN20	275	69.96	25.31	20.28	56.07	75.34	28.35	20.24	60.33
SWAN40	400	89.36	31.85	22.79	67.83	78.25	29.83	17.71	59.89

SWAN4A	400	87.06	31.13	21.77	65.8	75.68	28.93	16.71	57.63
SWAN4B	400	87.08	31.14	21.77	65.81	75.74	28.96	16.74	57.69
TAUN4A	400	53.12	19.2	10.75	37.9	44.93	17.66	6.99	31.96
TAUN4B	400	54.04	19.51	10.93	38.51	46.42	18.2	7.47	33.21
TEMP21	275	57.08	20.71	12.5	41.79	61.18	24.06	11.41	45.44
TEMP22	275	57.27	20.76	12.59	41.95	61.66	24.24	11.55	45.83
THOM20	275	76.27	27.13	21.62	59.99	78.23	29.53	20.36	62.13
THOM40	400	112.62	39.91	27.59	84.02	95.98	36.77	19.32	71.32
THTO41	400	119.23	43.04	29.03	89.89	88.24	34.46	14.86	63.6
THTO42	400	119.39	43	29.17	89.98	87.46	34.17	14.7	63.02
THUR20	275	65.06	24.13	11.01	45.13	64.82	25.63	10.66	46.91
THUR2A	275	65.47	24.36	10.39	44.85	61.36	24.6	8.29	43.08
TILB21	275	78.47	27.91	22.61	62.08	82.68	30.71	23.41	66.84
TILB22	275	79.41	28.18	24.27	64.12	84.07	31.12	25.14	69.15
TILB40	400	175.39	60.98	47.69	133.93	150.49	57.53	33.67	115.02
TINP2A	275	59.48	21.8	13.85	44.68	58.31	22.67	12.37	44.43
TINP2B	275	59.48	21.8	13.85	44.68	58.32	22.68	12.37	44.44
TODP20	275	63.5	22.53	15.3	47.17	57.97	22.35	11.2	42.81
TOTE21	275	81.02	29.47	21.54	63.22	80.9	31.17	18.12	62.2
TOTE22	275	81.87	29.81	21.86	64.02	83.57	32.2	18.39	63.92
TOTW21	275	82.64	30.36	18.78	61.72	81.18	33.57	14.52	62
TOTW22	275	83.44	30.61	19.14	62.43	81.86	33.8	14.94	62.73
TRAW20	275	44.96	15.9	13.49	35.98	47.75	17.94	11.69	37.06
TRAW40	400	60.19	21.92	12.12	43.12	47.67	18.85	8.33	34.99
TREM20	275	46.92	18.28	6.24	32.09	38.51	15.79	4.55	26.88
TREU4A	400	95.87	33.9	22.19	70.13	76.77	30.01	12.51	54.96
TREU4B	400	97.9	34.56	22.65	71.53	78.54	30.72	12.68	56.13
TYNE20	275	63.03	23.07	10.1	42.73	56.12	22.11	9.09	40.35
TYNE2A	275	58.21	21.57	9.43	39.93	50.93	20.17	7.99	36.52
UPPB21	275	51.72	19.2	12.47	39.63	49.24	19.09	10.3	37.3
UPPB22	275	51.66	19.2	12.45	39.61	46.51	17.96	10.48	35.88
USKM20	275	81.66	29.33	21.44	62.92	92.08	34.58	24.41	73.31
USKM2A	275	65.87	24.39	14.06	48.56	66.57	25.75	13.49	49.91
USKM2B	275	81.03	29.14	21.08	62.29	90.22	33.98	23.1	71.16
WALH40	400	70.24	25.91	13.62	50.26	51.38	20.38	8.55	37.38

WALN2A	275	12.52	4.24	3.54	9.53	13.12	4.75	3.69	10.42
WALN2B	275	12.52	4.24	3.54	9.53	13.12	4.75	3.69	10.42
WALN2C	275	11.76	3.95	2.47	8.06	8.66	3.69	0.34	5.56
WALN2D	275	11.76	3.95	2.47	8.06	8.66	3.69	0.34	5.56
WALP40	400	122.49	43.62	35.42	97.11	101.04	38.43	26.13	80.48
WALX21	275	99.34	35.79	27.86	78.47	96.39	36.71	25.35	77.27
WALX22	275	98.87	35.67	27.79	78.23	95.64	36.47	25.17	76.74
WALX4A	400	80.99	29.11	22.04	63.21	77.13	29.13	19.73	60.93
WALX4B	400	74.7	27.25	19.64	58.18	67.67	25.76	16.82	53.25
WARL20	275	85.32	30.62	20.2	63.51	71.94	28.11	13.17	52.93
WARO20	275	76.64	27.29	22.27	60.87	77.52	28.74	22.9	63.55
WASF2A	275	64.11	22.83	14.66	46.95	52.81	20.7	8.42	37.7
WASF2B	275	68.45	24.2	15.72	49.95	57.68	22.73	8.67	40.81
WATS21	275	66.62	24.28	15.39	49.72	67.15	25.97	13.48	50.21
WATS22	275	63.8	23.12	13.05	45.74	65.5	25.45	11.7	47.69
WBOL20	275	76.08	27.35	13.31	51.99	65.19	25.63	10.8	47.05
WBUR41	400	116.31	41.98	33.07	92.44	111.1	41.56	32.51	91.28
WBUR42	400	101.04	36.65	29.72	81.55	102.35	38.06	31.67	85.5
WEAV4A	400	75.97	28.1	14.01	53.75	52.46	21.27	5.85	35.93
WEAV4B	400	77.28	28.53	14.41	54.76	53.32	21.61	5.95	36.52
WHAM40	400	140.27	49.39	31.53	101.38	133.86	52.4	23.81	97.91
WHAM4A	400	110.2	39.59	23.97	79.96	105.97	43.24	18.88	80.02
WHAM4B	400	110.23	39.61	23.84	79.86	106.04	43.28	18.66	79.87
WHGA20	275	66.73	23.88	15.5	49.27	64.16	24.74	12.21	47.21
WHSO20	275	84.75	30.33	22.65	65.54	93.51	35.22	23.68	73.49
WHSO2A	275	59.84	21.71	17.25	47.94	62.43	23.45	17.8	50.97
WHSO2B	275	59.84	21.71	17.25	47.94	62.43	23.45	17.8	50.97
WHSO4A	400	71.76	25.88	17.96	54.55	62.4	23.76	14.72	48.31
WIBA20	275	56.68	20.59	12.31	41.42	61.63	24.54	10.04	44.75
WIEN2A	275	55.59	20.42	9.8	38.68	53.93	21.16	8.85	38.78
WIEN2B	275	59.73	21.58	12.55	43.06	58.21	22.65	11.05	43.09
WILE40	400	113.74	40.81	24.22	81.94	100.21	38.87	18.81	73.78
WILL20	275	42.06	15.05	14.92	36.2	45.4	16.66	15.03	38.58
WIMB20	275	87.42	30.97	21.35	65.15	94.71	37.32	19.84	72.62
WIMB2M	275	45.54	17.35	8.67	33.21	41.8	16.6	7.03	30.51

WISD20	275	83.92	29.6	25.21	67.08	91.75	35.5	22	72.2
WISD2A	275	64.4	22.93	19.29	51.72	68.81	26.97	17.84	55.98
WISD2B	275	73.52	26.38	20.14	57.44	74.03	29.96	18.74	61.12
WMEL20	275	73.61	26.26	14.4	51.54	70.88	27.51	13.9	52.8
WTHU41	400	98.11	36.1	19.24	70.29	77.67	31.04	11.43	55.33
WTHU42	400	98.11	36.1	19.24	70.29	77.67	31.04	11.43	55.33
WTHU4A	400	146.12	52.06	33.28	106.91	118.36	46.59	19.41	85.3
WTHU4B	400	146.12	52.06	33.28	106.91	118.36	46.59	19.41	85.3
WWEY21	275	80.38	29.44	17.69	59.33	80.57	31.1	16.93	60.91
WWEY22	275	67	25	13.12	48.47	64.79	25.2	12.46	48.1
WWEY2A	275	56.4	20.5	14.97	43.97	57.24	22.1	13.64	44.9
WWEY4A	400	45.23	17.21	8.33	32.66	39.63	15.55	7.79	29.78
WWEY4B	400	52.48	19.6	11.82	39.54	46.47	18.1	10.49	36.09
WYLF40	400	51.15	17.79	12.49	37.65	42.28	16.13	9.03	31.83
WYMO40	400	155.04	55.26	36.11	114.26	131.88	50.64	27.46	99.07
YGAR4A	400	56.8	20.6	12.05	41.18	44.28	17.6	6.78	31.67
YWER4A	400	56.34	20.38	12.19	41.01	44.04	17.49	6.5	31.23

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Table D.3.5b - NGET Forecast Short-Circuit Currents at 132kV and Lower Voltage Nodes for 2011/12 (kA)

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABTH11	132	31.69	12.33	7.07	24.5	37.67	14.64	9.59	30.29
ABTH12	132	52.93	19.48	14.37	41.92	62.82	23.61	18.5	51.89
ABTH13	132	11.76	4.64	1.61	8.18	10.36	3.96	2.35	7.95
AMEM10	132	27.89	10.05	9.95	24.16	34.16	12.59	11.17	28.98
AXMI10	132	27.82	9.66	9.3	22.96	33.63	12.27	10.46	27.81
BARK10	132	25.18	8.87	9.48	22.02	27.2	9.9	9.89	23.89
BICF10	132	28.58	10.37	10.75	25.42	31.5	11.55	10.96	27.29
BLYT60	66	52.04	17.26	15.69	40.1	29.88	10.83	12.23	27.56
BRIM10	132	53.1	18.25	20.66	46.47	64.78	23.21	24.58	57.4
BRWE10	132	20.73	7.25	8.64	18.9	6.12	2.24	2.15	5.31
CARR11	132	28.21	10.34	8.34	22.97	33	12.51	9.42	27.11
CARR12	132	51.33	17.64	16.6	41.54	63.09	23.11	19.58	52.27

CELL11	132	45.97	15.52	15.2	37.15	57.22	20.62	17.52	46.68
CELL12	132	31.09	10.83	10.71	26.03	37.05	13.49	11.92	31.01
DRAK10	132	35.94	10.57	9.88	24.84	43.94	14.68	12.96	33.73
DRAX11	132	15.75	5.41	5.65	13.31	19.71	7.02	7.19	17.11
DRAX12	132	14.96	5.14	5.38	12.65	18.76	6.68	6.87	16.31
EALI60	66	60.45	20.7	19.25	48.52	69.75	25.6	20.58	56.79
ECLA10	132	46.3	15.99	16.71	39.32	53.78	19.61	18.04	45.77
ELLA11	132	27.75	9.72	9.04	22.79	33.75	12.45	10.2	27.82
ELLA12	132	28.27	9.91	9.1	23.12	33.82	12.49	10.17	27.84
ELST11	132	30.29	10.04	10.46	24.66	37.98	13.73	12.47	31.89
ELST12	132	39.03	12.77	12.17	30.23	46.46	16.85	13.64	37.47
ELST1A	132	10.73	3.88	3.37	8.85	13.13	4.88	3.89	10.79
ELST1B	132	10.43	3.8	3.21	8.59	12.77	4.76	3.72	10.46
FAWL10	132	51.84	16.6	18.35	41.83	70.81	24.36	25.44	59.9
FERR11	132	35.73	12.21	12.34	29.61	43.08	15.57	15.23	37.25
FERR12	132	32.83	11.27	10.6	26.53	40.12	14.61	13.13	33.79
FERR13	132	10.76	3.97	3.4	9.02	11.36	4.2	3.59	9.53
GREN11	132	43.17	16.42	12.49	35.71	49.84	19.73	13.81	41.71
GREN12	132	45.15	16.72	13.25	36.89	52.02	20.3	14.34	43.04
HAMH11	132	29.47	10.17	11.05	25.44	36.47	13.2	12.95	31.62
HAMH12	132	29.53	10.17	10.88	25.26	30.75	11.16	10.68	26.47
HARK11	132	35.95	11.58	8.28	24.67	40.79	15.11	9.39	30.76
HARK12	132	33.03	11.24	8.15	24.04	37.02	13.99	9.13	28.9
HARK13	132	28.76	11.91	6.07	22.91	26.76	10.75	6.28	21.49
IROA11	132	44.53	16.22	11.96	34.89	54.26	20.56	13.87	42.94
IROA12	132	45.33	16.36	11.97	35.11	54.86	20.69	13.95	43.21
IRON11	132	27.43	7.69	7.1	17.98	33.09	10.85	9.29	24.64
IRON12	132	14.85	5.39	5.5	13.12	19.71	7.17	7.36	17.5
KINO10	132	37.27	12.44	12.14	29.73	47.22	16.67	15.88	39.45
LITT11	132	21.08	7.39	8.44	18.9	27.8	10.07	10.46	24.7
LITT13	132	31.63	11.26	11.66	27.59	40.72	14.76	15.35	36.22
LODR6M	66	20.56	7.55	6.91	17.58	2.26	1.57	0	2.22
MELK10	132	42.49	14.92	15.79	36.88	55.88	20.21	19.25	47.84
MILH11	132	24.44	8.64	8.42	20.63	30.74	11.26	10.13	26.06
MILH12	132	24.73	8.87	7.56	20.1	31.12	11.54	9.18	25.5

NFLE11	132	38.94	12.62	13.01	30.85	47.65	17.1	14.97	39.16
NFLE12	132	32.45	11.94	11.52	28.41	35.41	13.17	12.05	30.68
OCKH10	132	27.5	9.71	8.65	22.38	31.48	11.52	9.75	26.03
OLDS11	132	31.24	11.56	5.9	22.26	30	11.83	4.68	21.41
OLDS12	132	29.89	11.36	5.77	21.83	27.37	11.06	3.49	19.13
PADI10	132	28.58	9.74	9.99	23.77	34.86	12.54	11.2	28.93
PEMB10	132	30.52	10.82	10.71	26.01	38.33	14.05	12.77	32.65
RATS10	132	52.59	16.75	16.58	40.27	64.74	22.46	21	52.76
RUGE10	132	28.65	9.84	10.35	24.26	31.9	11.37	12.12	28.2
SIZE11	132	45.48	16.39	14.85	38.03	55.91	20.57	17.65	46.74
SIZE12	132	45.48	16.39	14.86	38.04	55.94	20.59	17.56	46.67
STEN10	132	39.66	12.4	10.2	27.73	49.22	17.56	12.26	37.1
STES10	132	34.4	11.6	10.36	26.77	42.78	15.4	12.34	34.13
STYC10	132	31.08	10.53	11.68	26.56	28.81	10.41	10.83	25.56
TYNE50	22	55.68	19.91	19.51	47.66	60.48	21.98	22.22	53.3
WALP11	132	50.32	17.95	13.51	38.9	55.2	21.21	14.31	44.31
WALP12	132	38.47	14.27	10.99	31.17	42.35	16.42	11.87	35.09
WALP13	132	32.01	12.24	8.54	25.85	34.56	13.68	9.09	28.44
WBUR10	132	33.32	10.97	11.1	26.62	44.26	15.52	14.57	36.52
WILL10	132	55.23	18.73	19.87	46.36	67.96	24.59	23.21	57.99
WIMB11	132	33.29	10.96	10.96	26.46	43.63	15.75	13.63	35.91
WIMB12	132	27.5	10.01	9.42	23.58	33.46	12.33	11.03	28.47
WIMB13	132	22.06	7.71	7.92	18.81	27.82	10.16	9.42	23.79
WIMB14	132	21.73	7.66	7.82	18.65	27.38	10	9.43	23.58
WISD60	66	50.08	17.16	17.47	41.73	6.54	4.52	0	6.39
WYLF10	132	46.46	14.35	13.84	34.13	57.95	20.14	16.09	44.57

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Table D.3.6a - NGET Forecast Short-Circuit Currents at 400kV and 275kV Nodes for 2012/13 (kA)

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABHA4A	400	39.98	14.34	7.81	28.09	36.95	14.28	6.44	26.64
ABHA4B	400	39.95	14.33	7.81	28.07	36.93	14.27	6.44	26.63
ABTH20	275	92.4	32.82	23.43	69.85	98.73	36.94	26.78	79.02
ALDW20	275	60.77	22.15	10.24	41.56	59.17	23.25	10.16	43.04
ALVE4A	400	26.46	9.95	4.34	18.41	21.74	8.66	3.16	15.41
ALVE4B	400	26.56	9.98	4.34	18.46	21.96	8.75	3.17	15.54
AMEM4A	400	55.26	20.85	10.86	40.35	44.79	17.8	7.23	32.4
AMEM4B	400	51.47	19.68	9.37	37.21	41.44	16.56	6.62	30.03
AMLW40	400	53.64	18.75	14.04	40.57	43.73	16.64	10.61	34.15
AMLW4A	400	60.4	20.92	15.95	45.54	54.02	20.38	12.42	41.25
AMLW4B	400	60.4	20.92	15.95	45.54	54.02	20.38	12.42	41.25
AXMI40	400	42.25	15.24	9.11	30.65	34.62	13.45	6.49	25.5

BAGB20	275	61.65	22.95	13.27	45.72	57.04	22.22	12.56	43.99
BARK21	275	63.54	23.04	18.13	50.7	64.94	24.62	17.38	52.19
BARK22	275	65.52	23.74	19.22	52.8	68.45	25.89	18.58	55.2
BARK40	400	157.45	55.31	36.99	115.21	137.21	53.7	24.83	100.78
BARP21	275	57.81	21.08	15.72	45.54	57.09	21.86	13.52	44.43
BARP22	275	60.19	21.9	16.99	47.96	61.09	23.3	14.91	47.86
BEDD21	275	66.7	24.65	15.92	50.78	68.12	26.28	15.45	52.62
BEDD22	275	84.79	30.71	18.66	62.09	85.25	33.25	17.3	64.32
BEDD2M	275	17.1	6.24	6.04	14.85	18.07	6.71	5.93	15.42
BEDD4A	400	46.33	17.28	11.29	35.73	41.52	16.26	10.16	33.16
BEDD4B	400	44.38	17.05	8.32	32.43	37.1	14.97	7.49	28.66
BESW20	275	65.69	23.6	12.38	45.75	58.59	22.95	10.01	42.47
BICF4A	400	65.72	24.34	16.95	51.37	46.55	18.32	8.63	34.54
BICF4B	400	62.86	23.2	16.78	49.6	48.43	18.91	9.33	36.08
BIRK20	275	46.48	16.16	15.1	37.95	48.4	17.99	13.32	38.76
BISW20	275	71.34	25.66	13.17	49.45	66.65	26.29	10.72	47.89
BLYT21	275	69.79	25.39	12.26	48.18	67.68	26.3	12.11	49.3
BLYT22	275	55.57	20.69	9.84	39.1	52.06	20.39	9.04	37.88
BLYT4A	400	33.85	12.48	7.51	25.15	31.26	11.99	7.05	24.01
BLYT4B	400	32.9	12.2	6.95	24.21	29.81	11.52	6.21	22.5
BOLN40	400	67.42	24.54	14.51	49.21	54.48	21.29	10.91	41.02
BOTW40	400	82.78	28.9	19.97	60.84	74.98	28.78	14.74	55.44
BRAI4A	400	64.22	23.83	14.48	48.18	48.64	19.04	8.81	35.74
BRAI4B	400	63.9	23.85	14.03	47.76	45.5	17.93	7.9	33.26
BRAW20	275	72.4	26.07	16.78	53.65	70.64	27.21	14.59	53.07
BRAW4A	400	38.26	14.13	9.43	29.41	33.45	12.77	7.99	26.05
BRED20	275	70.44	25.78	14.43	50.88	68.69	26.7	12.54	50.3
BRFO40	400	89.56	32.09	22.15	67.53	84.56	31.93	21.07	66.23
BRIM2A	275	87.09	31.78	22.08	67.02	81.96	31.78	17.18	62.13
BRIM2B	275	87.38	32.02	20.78	66.07	82.33	32.52	16.79	62.77
BRIM2C	275	87.42	31.93	22.26	67.42	82.09	31.91	16.75	61.88
BRIM2D	275	85.53	31.48	19.76	64.28	79.46	31.58	15.01	59.67
BRIN21	275	61.99	22.29	14.3	45.82	67.37	26.09	13.58	50.48
BRIN22	275	69.93	25.22	18.22	53.89	73	27.95	17.68	57.21
BRIN2M	275	27.65	9.96	10.37	24.46	28.47	10.47	9.76	24.57

BRIN40	400	75.42	27.62	17.45	56.51	56.21	21.78	12.58	43.38
BRLE40	400	125.2	44.11	28.85	91.23	108.1	41.66	22.17	81.09
BRWA2A	275	19.8	7.27	5.4	15.68	19.87	7.57	4.79	15.49
BRWA2B	275	19.76	7.25	5.44	15.69	19.7	7.49	4.83	15.42
BRWA2C	275	19.73	7.24	5.4	15.64	19.8	7.54	4.78	15.45
BURW40	400	101.7	36.9	26.27	78.45	64.67	25.92	10.85	47.5
BUSH20	275	65.94	23.77	13.52	47.14	63.26	24.68	10.93	45.84
BUST21	275	74.16	26.38	17.12	54.44	67.33	26.9	12.71	50.75
BUST22	275	72.79	25.92	16.74	53.39	64.43	26.2	11.08	48.13
CANT40	400	88.52	32.7	19.87	66.11	68.42	27.37	11.33	50.03
CAPE21	275	50.46	17.46	17.97	42.67	56.23	20.55	18.06	47.12
CAPE22	275	34.97	12.46	12.9	30.52	38.59	14.12	13.11	33.07
CAPE4A	400	96.05	33.6	25.25	72.78	83.35	31.63	18.55	63.28
CAPE4B	400	102.08	35.35	28.08	78.07	89.55	33.81	20.62	68.44
CARE20	275	53.58	20.13	9.71	38.18	46.47	18.42	8.38	34.43
CARR20	275	81.47	29.09	22.38	63.52	86.45	32.62	21.26	67.38
CARR4A	400	116.01	41.82	22.25	81.39	88.52	34.81	15.62	64.85
CARR4B	400	115.23	41.65	21.56	80.46	87.35	34.46	14.85	63.58
CARR4H	400	120.21	43.18	23.34	84.4	89.98	35.38	15.87	65.9
CELL40	400	98.98	36.24	17.84	69.09	77.46	30.59	13.86	57.11
CHIC41	400	39.73	14.47	8.7	29.16	31.48	12.3	5.83	23.22
CHIC42	400	39.28	14.29	8.64	28.84	29.73	11.66	5.29	21.78
CHSI20	275	92.96	33.94	18.75	66.74	80.34	31.88	13.2	58.28
CHTE20	275	69.95	24.72	18.07	53.03	61.74	23.75	13.39	46.98
CILF2A	275	51.39	18.95	14.55	41.35	45.9	17.48	12.52	37.23
CILF2B	275	51.34	18.92	14.54	41.29	51.05	19.42	13.61	41.07
CILF40	400	96.74	34.64	23.55	72.54	81.84	31.37	17.65	62.01
CITR41	400	121.6	43.26	27.51	88.69	125.34	48.98	22.28	91.54
CITR42	400	121.49	43.22	27.47	88.6	125.11	48.93	22.05	91.25
CLEV40	400	86.04	31.83	20.6	65.61	65.29	25.99	10.43	47.17
COSO40	400	112.61	40.74	26.55	84.17	96.18	37.05	22.48	74.87
COTT40	400	134.27	47.52	35.88	103.09	129.68	48.31	36.57	104.89
COVE20	275	65.86	23.54	13.41	46.69	61.92	23.89	11.91	45.7
COVE2A	275	65.2	23.3	13.4	46.35	61.33	23.64	11.91	45.35
COWB2A	275	70.94	26.18	14.1	51.12	61.94	24.55	9.11	43.83

COWL40	400	137.29	48.54	35.62	104.27	116.88	44.66	25.2	88.35
CREB2A	275	78.25	28.08	25.77	65.48	76.91	28.71	21.93	62.53
CREB2B	275	78.21	28.07	25.75	65.45	76.9	28.71	21.91	62.51
CREB40	400	149.7	53.34	38.65	114.09	113.61	44.03	23.38	85.65
CULJ4A	400	122.58	43.41	32.67	94.06	115.42	43.31	29.33	90.58
DAIN40	400	130.12	46.39	25.85	91.45	99.41	38.95	17.7	72.78
DAMC40	400	131.75	46.19	38.61	103.94	133.04	49.41	38.46	108.34
DEES41	400	117.85	40.56	32.29	89.65	116.3	43.05	32.38	93.26
DEES42	400	109.7	38.22	28.17	82.22	104.54	39.11	26.77	82.08
DIDC41	400	130.46	45.61	37.19	101.69	132.64	48.74	40.52	109.45
DIDC42	400	112.62	39.04	34.5	89.72	113.69	41.51	37.02	95.72
DINO40	400	78.73	26.63	23.36	61.03	82.83	30.28	24.62	67.44
DRAK21	275	70.27	24.9	18.8	54.01	72.21	27.03	19.87	58.09
DRAK22	275	72.93	25.97	21.45	58.18	77.6	28.86	22.34	63.14
DRAK41	400	113.09	40.35	25.7	82.77	108.26	41.04	26.65	84.69
DRAK42	400	87.6	31.75	18.13	63.03	82.04	31.57	17.09	61.74
DRAX41	400	144.73	50.58	41.48	113.01	145.83	53.64	43.56	119.41
DRAX42	400	145.69	50.27	42.25	113.34	146.74	53.82	43.6	119.72
DUBR4A	400	40.17	14.96	9.11	30.27	31.67	12.33	6.02	23.45
DUBR4B	400	50.31	18.95	10.72	37.53	40.2	15.84	7.39	29.8
DUNG20	275	43.59	16.06	13.05	35.76	48.18	18.13	13.99	39.63
DUNG40	400	67.71	26.22	13.21	50.29	69.77	27.94	13.51	53.02
EALI20	275	63.44	22.65	18.09	50.13	68.37	27	13.74	51.92
EASO40	400	102.79	37.54	25.38	78.47	86.95	33.34	20.18	67.32
ECLA40	400	122.68	44.71	25.82	89.05	95.46	37.52	16.62	69.68
EGGB41	400	108.07	38.52	28.46	82.93	101.48	38.06	25.65	79.48
EGGB42	400	133.02	46	37.01	102.07	129.58	48.06	33.38	101.35
ELLA20	275	69.34	25.25	13.57	49.28	61.3	24.09	10.44	44.51
ELST21	275	70.95	25.61	18.08	54.31	76.71	29.05	19.23	60.31
ELST22	275	65.73	23.71	13.83	47.35	72.97	27.95	14.66	54.19
ELST2A	275	70.15	25.32	18.01	53.82	75.77	28.67	19.15	59.69
ELST2B	275	65.04	23.45	13.81	46.98	72.12	27.6	14.65	53.68
ELST40	400	104.9	38.29	21.38	75.52	111.3	43.46	22.23	83.69
ELST4A	400	104.88	38.28	21.37	75.51	111.24	43.44	22.2	83.64
ELST4B	400	48.42	18.5	8.7	34.86	44.23	17.29	8.63	33.09

ENDE40	400	91.83	33.71	18.89	66.56	61.15	24.47	9.35	43.95
EXET40	400	62.14	21.73	13.74	44.47	57.39	21.94	11.76	42.79
FAWL40	400	90.35	30.99	23.21	67.04	89.59	33.36	23.2	70.38
FECK20	275	69.09	25.02	15.83	51.22	68.36	26.22	15.9	52.99
FECK40	400	86.79	32.16	15.5	60.97	71.32	28.04	13.88	53.54
FENW4A	400	114.64	41.42	28.78	87.36	95	36.53	18.82	70.47
FERR21	275	71.48	25.51	19.79	55.87	75.71	28.35	20.41	60.5
FERR22	275	77.07	27.23	24.62	63.13	83.36	30.68	26.11	69.5
FERR23	275	84.81	29.66	25.28	67.23	93.13	34.38	27.05	75.67
FERR2A	275	84.88	29.69	25.35	67.35	92.89	34.31	26.84	75.36
FERR2B	275	70.98	25.36	19.52	55.38	74.8	28.08	19.54	59.25
FERR4A	400	89.82	31.9	23.63	68.74	80.47	30.3	20.34	63.19
FFES21	275	37.05	13.74	7.57	27	36.23	14.25	6.38	26.54
FFES22	275	34.8	13.14	5.86	24.44	33.33	13.34	4.45	23.32
FIDF21	275	68.53	23.3	24.35	57.3	72.38	26.06	25.14	61.99
FIDF22	275	69.01	23.63	24.32	57.74	71.98	26.04	24.71	61.55
FIDF23	275	88.55	30.09	26.96	69.51	88.98	32.43	27.4	73.26
FIDF24	275	89.05	30.17	27.15	69.82	90.29	32.85	27.89	74.34
FLEE40	400	107.91	38	24.06	77.79	92.13	35.48	19.64	69.82
FORD4A	400	39.42	14.71	8.79	29.59	31.15	12.19	5.81	23.05
FORD4B	400	50.28	18.97	10.45	37.27	39.9	15.82	6.51	28.89
FOUR20	275	43.58	17.11	4.7	28.91	35.21	14.68	3.08	23.84
FROD2A	275	67	23.04	23.49	56.07	69.79	25.39	22.78	58.68
FROD2B	275	66.03	22.59	23.39	55.33	68.48	24.85	22.51	57.65
FROD40	400	106.07	36.25	30.75	82.01	93.17	34.62	25.61	74.58
GRAI41	400	162.32	57.2	50.14	131.03	174.8	64.4	56.4	147.48
GRAI42	400	139.37	49.73	37.2	107.53	135.37	50.97	35.82	107.9
GREN40	400	87.75	33.13	14.61	61.46	56.02	22.79	8.84	41.08
GRIW40	400	80.61	29.14	21.26	62.47	67.84	26.12	13.71	50.65
GRST21	275	90.77	31.58	27.61	72.27	99.15	36.32	29.36	80.73
GRST22	275	91.05	31.67	27.76	72.55	99.66	36.49	29.62	81.22
GRTO2A	275	57.4	20.83	12.1	41.55	56.36	22.64	8.02	40.04
GRTO2B	275	57.46	20.84	12.15	41.62	56.47	22.66	8.11	40.15
HACK2A	275	68.83	25.39	17.75	53.65	70.51	27.12	16.61	54.96
HACK2B	275	68.27	25.15	17.61	53.18	66.64	25.69	15.88	52.21

HACK40	400	128.05	45.39	28.3	92.48	121	48.09	20.65	88.67
HAKB4A	400	51.28	19.55	7.8	35.45	42.22	16.77	6.87	30.59
HAKB4B	400	51.41	19.58	7.79	35.47	42.75	16.95	7.13	31.11
HAMB4A	400	90.02	31.65	21.53	66.29	72.35	27.97	13.65	53.2
HAMB4B	400	90.02	31.65	21.53	66.29	72.26	27.94	13.62	53.13
HAMH20	275	81.76	28.89	17.78	58.63	76.85	29.58	14.47	56.31
HAMH2A	275	72.23	25.75	18.47	54.89	69.94	26.48	16.36	53.8
HAMH40	400	82.32	30.08	15.83	58.36	72.96	28.43	13.21	53.42
HAMH4A	400	80.8	29.51	15.83	57.56	71.76	27.92	13.23	52.71
HARK21	275	46.15	17.04	10.65	34.75	49.76	19	11.94	38.81
HARK22	275	48.16	17.84	10.78	36.02	52.57	20.12	12.22	40.68
HARK40	400	60.56	22.81	9.22	41.48	52.79	20.66	10.29	39.51
HARM20	275	67.13	24.43	12.35	46.9	57.95	22.8	8.93	41.17
HATL20	275	91.57	31.76	22.58	67.48	90.41	33.94	22.77	70.76
HAWP20	275	80.28	28.74	17.36	58	72.5	28.06	13.64	53.33
HAWP4A	400	51.54	18.87	11.88	38.57	41.86	16.1	9.06	31.83
HEYS20	275	30.81	11.24	8.24	24.13	28.86	10.74	8.24	23.43
HEYS40	400	108.77	37.32	29.35	82.12	110.94	40.66	31.82	89.32
HIGM20	275	69.58	25.35	19.59	55.43	65.15	25.05	15.63	51.06
HIGM2A	275	45.52	16.52	15	38.36	45.7	17.13	13.03	37.26
HIGM40	400	85.71	31.87	19.17	64.24	69.48	27.35	12.18	50.86
HIGM4A	400	67	24.89	17.03	52.23	55.75	21.66	11.73	42.36
HILL40	400	86.96	30.65	20.21	63.56	68.99	26.75	13.36	51.19
HINP21	275	24.02	8.59	8.18	20.33	26.34	9.66	8.88	22.54
HINP22	275	24.06	8.61	8.11	20.29	26.77	9.83	8.92	22.83
HINP40	400	73.2	25.95	17.35	54.06	71.38	26.86	18.99	56.98
HIRN40	400	78.98	28.64	18.73	59.23	55.58	21.95	8.68	39.72
HUMR40	400	128	44.76	38.8	102.1	129.59	47.79	38.94	106.53
HURS20	275	73.51	26.35	18.7	55.97	74.02	30.27	15.22	58.02
HUTT40	400	71.75	26.43	12.78	50.16	50.21	20.24	7.1	35.72
IMPP40	400	62.01	22.93	13.64	46.07	50.84	19.65	10.57	38.36
INDQ40	400	37.36	13.25	7.24	25.98	37.81	14.4	7.79	28.15
IROA20	275	59.88	22.16	11.57	42.92	56.5	22.1	10.79	42.04
IROA2A	275	59.31	21.94	11.57	42.6	55.99	21.87	10.78	41.72
IROA2B	275	59.31	21.94	11.57	42.6	55.99	21.87	10.78	41.72

IRON40	400	91.21	32.52	20.19	66.17	86.28	32.82	20.03	66.45
IVER21	275	68.83	25.03	16.84	52.24	72.37	27.6	17.07	56.1
IVER22	275	69.54	25.25	15.86	51.56	67.07	26.05	13.87	50.71
IVER2A	275	46.82	17.3	11.61	36.07	45.97	17.79	10.59	35.74
IVER4A	400	49.69	18.54	11.34	37.56	45.84	17.66	10.72	35.69
IVER4B	400	44.61	16.91	9.65	33.57	39.24	15.3	8.8	30.44
JORD20	275	48.48	17.97	9.14	34.56	49.46	20.21	7.94	36.53
KEAD41	400	121.14	43.6	32.74	94.4	104.34	39.73	24.28	80.47
KEAD42	400	126.03	45.2	33.27	97.2	107.97	41.17	25.11	83.34
KEAD43	400	94.3	34.78	22.12	71.31	74.99	29.23	14.25	55.58
KEAD4A	400	120.06	43.28	31.84	93.04	95.24	36.89	17.83	70
KEAD4B	400	126.36	45.42	33.09	97.33	99.09	38.44	18.4	72.76
KEAD4C	400	89.57	32.47	26.12	72.03	77.26	29.26	20.89	62.27
KEAD4D	400	89.57	32.47	26.12	72.03	77.26	29.26	20.89	62.27
KEAP41	400	116.1	41.94	30.71	90.02	99.69	38.2	22.07	76.1
KEAP42	400	122.97	44.23	31.83	94.39	105.06	40.14	24.17	80.93
KEAR20	275	75.28	26.36	20.36	57.65	80.96	30.2	20.57	63.28
KEAR40	400	91.89	33.47	17.49	64.83	75.57	29.38	14.99	56.54
KEAR4A	400	83.52	30.81	15.33	58.9	59.23	23.34	10.5	43.51
KEMS40	400	162.86	57.75	43.66	125.33	137.17	53.27	25.93	101.26
KEMS4A	400	92.94	33.49	29.52	76.89	82.92	31.51	21.65	66.2
KEMS4B	400	95.48	34.46	29.91	78.65	84.39	32.1	21.75	67.15
KIBY21	275	92.2	31.4	25.78	70.19	83.25	31.59	17.76	62.44
KIBY22	275	83.71	28.98	22.68	63.66	67.6	25.53	15.31	51.42
KIBY4A	400	55.45	20.03	12.93	41.25	30.2	12.26	4.06	21.4
KIBY4B	400	57.05	20.49	13.76	42.73	30.55	12.39	4.14	21.67
KILL40	400	137.74	47.83	42.57	110.21	144.19	52.81	43.81	118.49
KINO41	400	144.92	50.84	43.4	115.29	139.26	51.78	40.46	113.69
KINO42	400	135.74	47.45	40.3	107.4	136.49	50.49	40.64	112.05
KIRK20	275	60.24	21.81	13.8	44.65	57.11	22.36	10.99	42.62
KIRK2A	275	61.72	22.2	14.42	45.82	57.54	22.94	10.98	43.42
KITW20	275	70.05	25.1	13.11	48.61	69.31	27.01	11.71	49.91
KNAR20	275	30.76	12.52	2.61	20.32	24.99	10.42	2.88	17.62
LACK20	275	61.17	21.62	16.28	46.86	63.55	23.81	17.06	50.73
LACK2A	275	87.02	30.48	25.56	68.66	95.33	35.09	26.93	76.55

LACK2B	275	91.93	31.94	28.26	73.43	101.85	37.18	30.76	83.34
LACK2C	275	88.29	30.86	26.2	69.85	96.71	35.57	27.53	77.83
LACK40	400	90.31	32.25	22.14	67.75	84.42	31.7	22.04	66.86
LALE20	275	63.09	22.63	17.37	49.38	68.62	26.74	16.2	54.02
LAND41	400	36.79	13.13	7.31	25.87	36.02	13.86	6.49	26.1
LAND42	400	36.91	13.16	7.35	25.96	36	13.86	6.47	26.07
LAND4A	400	36.59	13.05	7.35	25.8	35.7	13.73	6.47	25.9
LANG40	400	48.02	16.54	11.5	34.89	53.28	19.6	14.58	42.3
LEGA40	400	101.19	35.69	23.5	73.97	76.43	30.05	13.37	55.86
LEGA4A	400	67.93	24.3	19.18	53.55	55	21.17	12.45	42.39
LEGA4B	400	67.98	24.3	19.19	53.56	55.07	21.2	12.45	42.43
LEIB4A	400	87.36	32.37	18.82	64.61	63.56	25.02	10.57	45.95
LEIB4B	400	111.64	41.05	23.18	81.24	80.75	32	12.47	57.73
LISD20	275	83.08	28.66	21.57	62.1	77.52	29.64	17.18	59.09
LISD2A	275	44.91	15.68	15.67	37.84	45.09	16.7	13.43	37.05
LISD2B	275	44.03	15.42	14.36	36.16	45.47	17.16	12.13	36.39
LITB40	400	96.78	35.45	23.89	74.02	84.32	32.18	23.54	69.05
LITT2A	275	61.86	22.57	15.47	47.38	60.06	24.1	14.14	48.22
LITT2B	275	61.72	22.53	15.29	47.15	60.93	24.33	14.63	49.04
LITT41	400	106.61	38.89	22.42	77.42	98.04	38.11	21.53	75.43
LITT42	400	56.94	20.99	13.27	42.96	61.2	23.15	15.95	48.7
LITT4A	400	94.52	35.01	18.65	68.16	78.2	31.1	12.3	56.28
LITT4B	400	65.26	24.04	15.12	49.12	61.84	23.98	12	45.91
LOVE40	400	103.27	35.69	24.94	75.41	93.22	35.7	18.36	68.84
MACC20	275	54.54	20.19	13.48	42.02	51.99	20.05	11.63	39.98
MACC40	400	86.04	31.91	15.77	60.91	63.78	25.5	9.61	45.67
MAGA20	275	61.75	23.2	11.09	43.9	55.96	22.07	10.23	41.45
MANN40	400	60.37	21.42	13.54	43.84	55.59	21.22	11.97	41.98
MAWO40	400	71.56	24.96	18.75	54.05	74.11	27.47	20.83	59.67
MEDW40	400	119.37	43.3	28.32	89.55	111.53	42.66	25.76	86.09
MELK2A	275	46.16	17.07	13.44	37.58	45.55	17.31	12.34	36.81
MELK2B	275	44.83	16.62	12.82	36.32	45.56	17.33	12.19	36.7
MELK40	400	116.05	42.03	23.29	82.72	92.36	36.29	16.49	67.81
MILH2A	275	44.76	16.87	7.11	30.97	44.69	18.35	6.78	32.73
MILH2B	275	44.72	16.86	7.1	30.94	44.64	18.34	6.76	32.69

MITY40	400	88.61	33.05	15.7	62.44	63.53	25.59	9.2	45.39
MONF21	275	86.99	30.53	27.15	70.32	92.59	34.38	25.75	74.37
MONF22	275	78.67	27.92	24.5	63.98	81.03	30.22	22.65	65.38
MONF40	400	101.57	35.97	26.39	77.26	90.61	34.23	21.07	69.47
MONF4A	400	88.62	31.63	22.79	67.53	78.19	29.6	18.03	59.9
NECH20	275	89.41	31.25	21.38	65.58	82.57	31.75	16.15	61.05
NEEP20	275	55.7	20.24	12.63	41.25	60.66	23.94	12.09	45.95
NEEP2A	275	44.93	16.28	12.7	35.72	48.34	18.35	11.83	37.78
NEEP4A	400	46.46	17.46	9.6	34.29	39.81	15.59	7.86	29.91
NEWX20	275	80.54	28.69	19.53	60.11	85.18	34.36	15.99	64.59
NFLE40	400	156.98	55.31	38.72	116.94	118.87	46.92	19.71	86.06
NHYD2A	275	48.44	18.5	8.07	34.24	42.18	19.44	5.55	33.05
NHYD2B	275	48.97	18.65	7.77	34.15	42.73	19	7.41	34.28
NINF40	400	62.45	23.4	12.75	45.84	56.56	22.28	11.59	43.09
NORL2A	275	49.59	18.3	9.87	35.75	50.83	20.82	7.31	36.76
NORL2B	275	49.07	18.18	9.26	34.96	50.05	20.78	6.57	35.96
NORT21	275	75.13	26.47	18.28	55.71	74.97	28.38	17.15	57.28
NORT22	275	66.32	23.99	16.34	50.28	62.08	23.7	14.06	47.57
NORT40	400	86.93	31.21	19.81	63.95	72.71	27.95	15.08	54.61
NORW40	400	71.91	26.23	16.65	53.74	61.79	23.75	13.77	47.36
NURS40	400	67.91	23.88	17.13	50.91	67.56	25.34	16.36	52.19
NURS4A	400	56.42	20.31	12.8	41.52	51.17	19.49	11.26	38.82
OCKH20	275	68.22	24.54	13.19	47.89	68.64	26.63	12.24	49.89
OCKH2A	275	58.77	21.21	12.84	42.84	57.63	22.25	11.97	43.44
OFFE20	275	71.31	25.88	12.84	49.44	61.98	24.37	10.14	44.61
OLDB20	275	58.33	21.32	10.95	41.11	59.49	23.16	10.64	43.39
OLDB2A	275	57.8	21.12	10.96	40.83	58.94	22.92	10.65	43.06
OLDB4A	400	38.3	14.46	7.21	27.65	34.63	13.56	6.64	25.81
OSBA41	400	76.39	28.15	17.28	57.1	54.83	21.56	9.17	39.67
OSBA42	400	76.12	28.08	17.28	57	53.09	20.92	8.82	38.4
PADI40	400	81.11	29.53	17.52	59.28	51.6	20.44	8.51	37.42
PAFB4A	400	58.15	22.28	9.59	41.1	37.6	15.5	3.68	25.6
PAFB4B	400	58.26	22.32	9.62	41.18	37.67	15.53	3.7	25.66
PELH40	400	154.65	54.98	39.25	117.01	132.3	50.7	28.69	100.38
PEMB40	400	82.95	28.81	24.86	65.61	97.1	35.4	28.53	78.59

PENN20	275	75.81	27.13	17.14	55.5	78.08	29.81	16.71	58.86
PENN2A	275	74.91	26.8	17.1	55	77.13	29.42	16.68	58.28
PENN4A	400	48.33	18.05	9.54	35.07	42.07	16.42	8.65	31.88
PENN4B	400	50.52	18.87	9.76	36.45	45.94	17.91	9.16	34.49
PENT40	400	82.45	27.91	23.79	63.25	84.32	31.13	22.47	66.49
PEWO2B	275	30.6	10.9	11.87	27.28	31.6	11.61	10.5	26.91
PEWO40	400	114.62	39.5	28.49	84.35	83.45	32.22	16.44	62.01
PEWO4A	400	79.43	28.19	22.47	62.34	26.62	10.92	2.98	18.43
PEWO4B	400	81.09	28.69	22.98	63.55	29.45	11.95	3.57	20.47
PITS20	275	57.74	20.91	12.86	42.43	64.25	25.15	12.3	47.87
POPP20	275	29.99	12.37	1.98	19.48	23.75	10.01	2.66	16.81
PYLE20	275	64.83	24.32	11.21	45.6	57.07	22.66	9.48	41.53
PYLE2A	275	64.17	24.05	11.23	45.24	56.55	22.43	9.49	41.22
PYLE2B	275	64.17	24.05	11.23	45.24	56.55	22.43	9.49	41.22
QUER4A	400	92.71	32.58	22.99	69.08	77.93	29.95	14.45	56.8
QUER4B	400	92.45	32.53	22.85	68.86	78.5	30.15	14.7	57.34
RAIN20	275	108.22	36	32.7	83.6	99.76	37.02	24.33	76.69
RASS40	400	58.87	21.76	12.75	43.52	45.29	17.82	7.34	32.54
RATS2A	275	44.78	16.33	13.9	37	46.1	17.15	14.57	38.83
RATS41	400	100.83	36.48	22.61	74.2	100.04	37.9	23.7	77.3
RATS42	400	114.45	40.73	25.92	83.53	114.21	43	27.63	88.44
RAYL41	400	91.24	33.39	21.4	68.62	70.86	27.66	13.77	52.88
RAYL42	400	93.71	34.4	21.24	69.88	68.89	27.11	12.63	50.97
REBR21	275	72.25	26.37	18.91	56.2	68.99	27.01	13.56	51.76
REBR22	275	73	26.68	19.26	56.98	70.11	27.59	12.95	51.97
ROCH20	275	63.87	23.16	14.45	47.2	62.45	24.05	12.59	46.61
ROCH4A	400	32.71	12.25	7.73	25.05	29.09	11.2	6.73	22.58
ROCK40	400	102.06	35.02	29.06	78.59	88.12	32.93	23.42	69.99
RUGE40	400	70.86	25.73	14.67	51.06	69.42	26.49	16.03	53.49
RYEH40	400	88.08	31.57	23.69	68.33	86.3	32.41	23.27	69.1
RYEH4A	400	79.97	29.24	20.34	61.7	71.37	27.2	17.51	55.98
SAEN20	275	76.74	27.33	22.31	60.96	77.63	28.77	23.02	63.71
SAES20	275	77.33	27.49	22.65	61.52	78.84	29.12	24.31	65.49
SALH20	275	77.12	27.21	17.27	55.76	74.59	28.46	14.99	55.24
SBAR40	400	63.89	24.16	12.05	46.22	53.38	21.06	9.53	39.31

SEAB40	400	72.94	25.92	17.99	54.64	70.07	26.18	19.38	56.41
SELL40	400	73	27.72	14.44	53.64	70.88	28.02	14.52	54.15
SHBA40	400	97.7	34.7	28.15	77.21	94.06	35.14	26.56	76.26
SHEC20	275	51.32	18.84	10.63	37.28	54.17	22.03	8.27	39.42
SHRE4A	400	67.15	24.57	13.72	48.47	53.73	21.24	8.34	38.38
SING40	400	150.01	53.11	36.72	111.84	105.38	41.72	16.35	75.34
SIZE40	400	76.27	27.14	20.09	58.47	79.65	29.52	22.41	64.16
SJOW20	275	95.34	34.36	24.86	73.45	105.32	40.62	28.24	85.68
SJOW2A	275	73.85	26.4	21.38	58.72	75.27	30.79	19.7	63.24
SJOW2B	275	73.85	26.4	21.38	58.72	75.27	30.79	19.7	63.24
SJOW40	400	121.87	43.35	27.8	89.11	127.06	49.16	27.8	97.32
SKLG20	275	68.99	24.71	15.57	50.52	64.64	25.12	12.43	47.96
SMAN20	275	74.19	26.85	17.17	55.15	71.73	27.77	13.42	52.7
SPEN21	275	52.01	19.23	9.5	36.7	45.48	17.87	7.86	33.13
SPEN22	275	53.9	19.97	9.64	37.88	45.05	17.87	7.33	32.6
SPLN40	400	73.85	26.97	20.46	58.6	63.92	24.3	17.44	51.8
SSHI20	275	66.48	24.28	11	45.33	58.29	22.96	9.64	42.11
STAH4A	400	86.98	30.68	20.2	63.6	68.71	26.66	13.19	50.9
STAH4B	400	86.98	30.68	20.2	63.6	68.67	26.65	13.18	50.87
STAL21	275	46.39	17.11	11.15	35.35	45.8	17.54	10.25	35.05
STAL22	275	57.13	21.38	10.24	40.47	50.43	19.89	8.71	36.84
STAL4A	400	34.69	12.95	7.9	26.22	29.23	11.28	6.52	22.47
STAY41	400	77.32	28.56	15.82	56.21	69.25	26.71	15.51	53.29
STAY42	400	68.94	25.7	14.09	50.44	61.86	23.86	14.4	48.14
STAY4A	400	68.53	25.43	15.06	51.02	59.7	22.99	14.39	46.91
STEW20	275	95.5	33.91	18.18	66.13	95.61	36.7	18.07	69.98
STEW2A	275	95.34	33.86	18.11	65.99	95.34	36.65	17.77	69.6
STEW4A	400	43.16	15.58	10.77	32.8	41.03	15.51	10.22	32.16
STEW4B	400	43.19	15.59	10.85	32.91	41.63	15.73	10.4	32.65
STEW4C	400	43.12	15.62	10.56	32.65	39.37	15.05	8.64	29.92
STEW4D	400	42.96	15.57	10.57	32.59	39.5	15.1	8.64	30
STSB40	400	59.04	21.86	13.15	44.07	50.5	19.58	10.46	38.15
STSB4A	400	51.76	19.31	12.07	39.37	43.84	16.98	9.74	33.75
SUND41	400	137.31	49.99	28.45	99.14	109.17	42.67	20.54	80.89
SUND42	400	115.27	42.11	25.13	84.68	92.41	35.82	18.64	69.3

SUTB4A	400	101.82	36.84	26.2	78.3	85.9	32.81	22.21	68.61
SUTB4B	400	111.93	40.34	30.64	87.69	70.69	25.48	27.37	63.41
SWAN20	275	70	25.32	20.29	56.1	75.37	28.37	20.24	60.36
SWAN40	400	89.44	31.89	22.8	67.9	78.3	29.85	17.72	59.93
SWAN4A	400	87.13	31.17	21.78	65.86	75.72	28.96	16.72	57.67
SWAN4B	400	87.15	31.17	21.79	65.87	75.79	28.98	16.75	57.73
TAUN4A	400	53.12	19.21	10.75	37.91	44.93	17.66	6.99	31.96
TAUN4B	400	54.05	19.52	10.92	38.52	46.42	18.2	7.47	33.21
TEMP21	275	57.12	20.73	12.51	41.82	61.22	24.08	11.41	45.46
TEMP22	275	57.3	20.78	12.6	41.99	61.7	24.26	11.55	45.86
THOM20	275	76.32	27.16	21.62	60.03	78.27	29.55	20.37	62.16
THOM40	400	112.75	39.98	27.59	84.14	96.05	36.81	19.32	71.38
THTO41	400	119.36	43.11	29.02	89.99	88.28	34.49	14.85	63.63
THTO42	400	119.52	43.07	29.17	90.08	87.5	34.19	14.69	63.04
THUR20	275	65.1	24.16	11.01	45.17	64.85	25.65	10.66	46.93
THUR2A	275	65.51	24.39	10.39	44.89	61.39	24.62	8.29	43.1
TILB21	275	78.52	27.94	22.62	62.13	82.73	30.73	23.42	66.87
TILB22	275	79.48	28.21	24.3	64.2	84.15	31.16	25.17	69.23
TILB40	400	175.65	61.14	47.73	134.19	150.65	57.6	33.68	115.14
TINP2A	275	59.51	21.82	13.86	44.71	58.34	22.69	12.37	44.45
TINP2B	275	59.52	21.82	13.86	44.71	58.35	22.69	12.37	44.46
TODP20	275	63.45	22.52	15.28	47.13	57.94	22.34	11.19	42.79
TOTE21	275	81.13	29.53	21.57	63.33	80.97	31.21	18.13	62.26
TOTE22	275	81.97	29.87	21.89	64.13	83.65	32.24	18.4	63.99
TOTW21	275	82.78	30.44	18.82	61.87	81.28	33.63	14.54	62.1
TOTW22	275	83.59	30.68	19.19	62.58	81.96	33.85	14.95	62.83
TRAW20	275	45.18	15.99	13.62	36.23	47.95	18.02	11.77	37.25
TRAW40	400	60.87	22.2	12.33	43.73	48.03	19.01	8.4	35.28
TREM20	275	46.93	18.28	6.24	32.1	38.52	15.79	4.55	26.88
TREU4A	400	96.53	34.21	22.38	70.75	77.07	30.16	12.55	55.2
TREU4B	400	98.49	34.85	22.82	72.11	78.81	30.85	12.72	56.35
TYNE20	275	62.93	23.03	10.08	42.66	56.04	22.08	9.07	40.3
TYNE2A	275	58.1	21.53	9.41	39.86	50.86	20.14	7.98	36.46
UPPB21	275	51.74	19.21	12.48	39.65	49.25	19.1	10.3	37.31
UPPB22	275	51.68	19.21	12.46	39.63	46.53	17.97	10.48	35.9

USKM20	275	81.7	29.35	21.44	62.95	92.11	34.59	24.41	73.33
USKM2A	275	65.89	24.41	14.07	48.58	66.59	25.76	13.49	49.92
USKM2B	275	81.06	29.16	21.08	62.32	90.24	34	23.1	71.18
WALH40	400	70.34	25.96	13.63	50.34	51.43	20.41	8.56	37.42
WALN2A	275	12.55	4.25	3.56	9.56	13.14	4.76	3.7	10.44
WALN2B	275	12.55	4.25	3.56	9.56	13.14	4.76	3.7	10.44
WALN2C	275	11.79	3.96	2.47	8.07	8.67	3.7	0.34	5.56
WALN2D	275	11.79	3.96	2.47	8.08	8.67	3.7	0.34	5.56
WALP40	400	122.85	43.78	35.55	97.46	101.3	38.54	26.2	80.7
WALX21	275	99.58	35.9	27.98	78.74	96.61	36.8	25.46	77.5
WALX22	275	99.11	35.78	27.91	78.51	95.87	36.56	25.27	76.98
WALX4A	400	81.37	29.26	22.21	63.59	77.58	29.3	19.87	61.32
WALX4B	400	75.08	27.42	19.77	58.55	68.01	25.89	16.93	53.55
WARL20	275	85.42	30.67	20.22	63.6	72	28.14	13.18	52.97
WARO20	275	76.69	27.31	22.28	60.91	77.56	28.76	22.91	63.57
WASF4A	400	62.31	22.51	13.55	45.39	38.25	15.35	5.87	27.58
WASF4B	400	63.46	22.85	14.09	46.4	38.55	15.47	5.96	27.84
WATS21	275	66.76	24.34	15.43	49.85	67.26	26.02	13.51	50.3
WATS22	275	63.96	23.19	13.1	45.89	65.64	25.51	11.73	47.81
WBOL20	275	75.97	27.32	13.28	51.91	65.13	25.6	10.79	47
WBUR41	400	116.56	42.09	33.13	92.66	111.41	41.68	32.6	91.54
WBUR42	400	101.19	36.73	29.74	81.68	102.49	38.12	31.7	85.61
WEAV4A	400	76.27	28.26	14.02	53.99	52.57	21.32	5.85	36.01
WEAV4B	400	77.54	28.68	14.42	54.98	53.42	21.66	5.95	36.58
WHAM40	400	140.63	49.59	31.59	101.72	134.03	52.51	23.82	98.07
WHAM4A	400	110.45	39.74	24.01	80.21	106.11	43.33	18.89	80.16
WHAM4B	400	110.48	39.76	23.88	80.11	106.18	43.37	18.68	80.01
WHGA20	275	66.77	23.91	15.5	49.32	64.07	24.72	12.2	47.16
WHSO20	275	84.78	30.35	22.66	65.58	93.54	35.23	23.69	73.51
WHSO2A	275	59.85	21.72	17.25	47.96	62.44	23.46	17.81	50.98
WHSO2B	275	59.85	21.72	17.25	47.96	62.44	23.46	17.81	50.98
WHSO4A	400	71.8	25.9	17.97	54.59	62.42	23.77	14.72	48.33
WIBA20	275	56.72	20.61	12.31	41.45	61.67	24.56	10.04	44.78
WIEN2A	275	55.72	20.48	9.82	38.78	54.04	21.21	8.86	38.86
WIEN2B	275	59.87	21.64	12.57	43.18	58.33	22.71	11.07	43.18

WILE40	400	114.02	40.95	24.17	82.09	100.56	39.02	18.83	74.01
WILL20	275	42.33	15.15	15	36.43	45.71	16.77	15.12	38.83
WIMB20	275	87.47	31	21.37	65.21	94.75	37.34	19.84	72.65
WIMB2M	275	45.55	17.36	8.67	33.22	41.8	16.6	7.03	30.51
WISD20	275	83.99	29.65	25.24	67.17	91.81	35.52	22.02	72.26
WISD2A	275	64.46	22.97	19.32	51.8	68.86	26.99	17.86	56.04
WISD2B	275	73.56	26.41	20.15	57.49	74.05	29.98	18.75	61.14
WMEL20	275	73.66	26.29	14.4	51.58	70.91	27.52	13.9	52.83
WODS21	275	20.18	8.26	1.79	13.48	10.91	5.74	0.03	8.15
WODS22	275	20.18	8.26	1.79	13.48	10.91	5.74	0.03	8.15
WODS2A	275	29.7	10.95	7.1	22.58	27.22	10.47	5.5	20.3
WODS2B	275	29.7	10.95	7.1	22.58	27.22	10.47	5.5	20.3
WTHU41	400	98.2	36.17	19.24	70.39	77.69	31.06	11.43	55.35
WTHU42	400	98.2	36.17	19.24	70.39	77.69	31.06	11.43	55.35
WTHU4A	400	146.3	52.19	33.29	107.09	118.43	46.64	19.4	85.36
WTHU4B	400	146.3	52.19	33.29	107.09	118.43	46.64	19.4	85.36
WWEY21	275	80.47	29.49	17.71	59.42	80.64	31.13	16.95	60.98
WWEY22	275	67.03	25.02	13.12	48.51	64.81	25.21	12.46	48.11
WWEY2A	275	56.45	20.53	14.99	44.02	57.28	22.12	13.65	44.93
WWEY4A	400	45.25	17.22	8.33	32.68	39.63	15.55	7.79	29.79
WWEY4B	400	52.52	19.62	11.84	39.59	46.5	18.11	10.5	36.11
WYLF40	400	53.44	18.54	13.51	39.74	45.06	17.11	10.04	34.23
WYMO40	400	158.15	56.63	37.4	117.48	134.14	51.62	27.87	100.87
YGAR4A	400	57.59	20.92	12.31	41.9	44.72	17.79	6.84	31.99
YWER4A	400	57.21	20.72	12.48	41.78	44.52	17.69	6.56	31.58

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Table D.3.6b - NGET Forecast Short-Circuit Currents at 132kV and Lower Voltage Nodes for 2012/13 (kA)

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABTH11	132	31.69	12.33	7.06	24.5	37.67	14.64	9.59	30.29
ABTH12	132	52.94	19.49	14.37	41.93	62.83	23.62	18.5	51.9
ABTH13	132	11.76	4.64	1.61	8.18	10.36	3.96	2.35	7.95
AMEM10	132	28.11	10.13	10.03	24.36	34.42	12.69	11.25	29.2
AXMI10	132	27.79	9.65	9.29	22.94	33.59	12.26	10.44	27.78
BARK10	132	25.15	8.86	9.46	21.99	27.16	9.89	9.87	23.86
BICF10	132	28.57	10.37	10.75	25.42	31.49	11.55	10.96	27.29
BLYT60	66	52.03	17.25	15.68	40.07	29.88	10.83	12.23	27.55
BRIM10	132	53.12	18.26	20.67	46.49	64.8	23.22	24.59	57.43
BRWE10	132	20.73	7.25	8.65	18.91	6.12	2.24	2.15	5.31
CARR11	132	28.18	10.34	8.33	22.95	32.96	12.5	9.4	27.08
CARR12	132	51.44	17.68	16.63	41.64	63.21	23.16	19.62	52.37

CELL11	132	46.17	15.6	15.24	37.31	57.45	20.7	17.58	46.86
CELL12	132	31.23	10.89	10.75	26.15	37.2	13.55	11.97	31.13
DRAK10	132	36.15	10.65	9.95	25.01	44.18	14.78	13.04	33.94
DRAX11	132	15.74	5.41	5.65	13.3	19.71	7.02	7.19	17.11
DRAX12	132	14.96	5.14	5.38	12.65	18.76	6.68	6.86	16.3
EALI60	66	60.53	20.73	19.28	48.59	69.83	25.63	20.6	56.85
ECLA10	132	46.65	16.12	16.84	39.65	54.15	19.74	18.17	46.09
ELLA11	132	27.76	9.73	9.05	22.81	33.76	12.46	10.21	27.83
ELLA12	132	28.28	9.92	9.1	23.13	33.83	12.49	10.18	27.85
ELST11	132	30.34	10.06	10.48	24.7	38.04	13.75	12.5	31.95
ELST12	132	39.11	12.8	12.2	30.31	46.56	16.89	13.67	37.56
ELST1A	132	10.75	3.89	3.38	8.87	13.16	4.89	3.9	10.81
ELST1B	132	10.46	3.81	3.22	8.61	12.8	4.77	3.73	10.49
FAWL10	132	51.81	16.59	18.33	41.8	70.76	24.35	25.42	59.86
FERR11	132	35.73	12.22	12.34	29.61	43.08	15.57	15.23	37.25
FERR12	132	32.83	11.27	10.6	26.54	40.13	14.61	13.13	33.79
FERR13	132	10.76	3.97	3.4	9.02	11.36	4.2	3.59	9.54
GREN11	132	43.19	16.43	12.51	35.74	49.87	19.74	13.84	41.76
GREN12	132	45.22	16.75	13.29	36.97	52.12	20.33	14.39	43.15
HAMH11	132	29.62	10.23	11.11	25.58	36.65	13.27	13.02	31.78
HAMH12	132	29.68	10.23	10.93	25.4	30.91	11.22	10.74	26.6
HARK11	132	35.91	11.57	8.27	24.63	40.72	15.09	9.37	30.7
HARK12	132	32.98	11.22	8.13	23.99	36.94	13.96	9.1	28.84
HARK13	132	28.67	11.87	6.04	22.83	26.65	10.71	6.25	21.39
IROA11	132	44.51	16.21	11.95	34.87	54.22	20.54	13.86	42.91
IROA12	132	45.31	16.36	11.96	35.1	54.83	20.68	13.94	43.18
IRON11	132	27.44	7.7	7.1	17.98	33.1	10.86	9.29	24.65
IRON12	132	14.86	5.39	5.5	13.13	19.72	7.17	7.37	17.51
KINO10	132	37.26	12.44	12.14	29.73	47.21	16.66	15.87	39.44
LITT11	132	21.07	7.39	8.44	18.88	27.78	10.07	10.45	24.68
LITT13	132	31.63	11.26	11.66	27.59	40.72	14.76	15.35	36.22
LODR6M	66	20.56	7.55	6.91	17.58	2.26	1.57	0	2.22
MELK10	132	42.48	14.91	15.78	36.87	55.86	20.21	19.25	47.83
MILH11	132	24.5	8.66	8.44	20.69	30.81	11.29	10.16	26.13
MILH12	132	24.79	8.89	7.58	20.16	31.19	11.57	9.2	25.56

NFLE11	132	38.92	12.61	12.99	30.83	47.62	17.09	14.96	39.13
NFLE12	132	32.43	11.93	11.51	28.39	35.38	13.16	12.04	30.65
OCKH10	132	27.6	9.75	8.68	22.46	31.59	11.55	9.78	26.12
OLDS11	132	31.24	11.56	5.9	22.25	29.99	11.83	4.68	21.41
OLDS12	132	29.88	11.35	5.77	21.83	27.36	11.06	3.49	19.13
PADI10	132	28.63	9.76	10.02	23.83	34.92	12.56	11.22	28.99
PEMB10	132	30.52	10.82	10.71	26.01	38.33	14.05	12.77	32.65
RATS10	132	53.31	17.02	16.83	40.9	65.6	22.78	21.29	53.51
RUGE10	132	28.74	9.87	10.38	24.34	31.99	11.41	12.15	28.28
SIZE11	132	45.59	16.43	14.89	38.13	56.04	20.61	17.7	46.85
SIZE12	132	45.6	16.43	14.9	38.14	56.06	20.64	17.6	46.78
STEN10	132	39.5	12.34	10.15	27.6	49.03	17.49	12.2	36.94
STES10	132	34.22	11.54	10.3	26.62	42.55	15.32	12.27	33.94
STYC10	132	31.12	10.54	11.7	26.61	28.85	10.42	10.86	25.6
TYNE50	22	55.69	19.91	19.51	47.67	60.49	21.98	22.23	53.31
WALP11	132	50.34	17.96	13.52	38.91	55.21	21.22	14.31	44.32
WALP12	132	38.47	14.28	10.99	31.18	42.35	16.42	11.87	35.09
WALP13	132	32.02	12.24	8.54	25.86	34.56	13.68	9.09	28.44
WBUR10	132	33.31	10.97	11.1	26.62	44.26	15.52	14.57	36.51
WILL10	132	55.89	18.97	20.1	46.93	68.73	24.88	23.47	58.65
WIMB11	132	33.25	10.95	10.95	26.44	43.59	15.74	13.61	35.87
WIMB12	132	27.47	10	9.41	23.55	33.41	12.32	11.01	28.43
WIMB13	132	22.03	7.7	7.91	18.8	27.8	10.15	9.41	23.77
WIMB14	132	21.7	7.65	7.81	18.63	27.35	9.99	9.43	23.55
WISD60	66	50.11	17.17	17.48	41.77	6.54	4.52	0	6.39
WISD60	66	50.11	17.17	17.48	41.77	6.54	4.52	0	6.39
WYLF10	132	46.82	14.47	14.11	34.57	58.44	20.3	16.47	45.18
WYLF10	132	46.82	14.47	14.11	34.57	58.44	20.3	16.47	45.18

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Table D.3.7a - NGET Forecast Short-Circuit Currents at 400kV and 275kV Nodes for 2013/14 (kA)

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABHA4A	400	39.65	14.2	7.77	27.85	36.61	14.15	6.36	26.37
ABHA4B	400	39.63	14.19	7.77	27.83	36.59	14.14	6.36	26.36
ABTH20	275	92.18	32.68	23.61	69.82	98.88	36.93	27.08	79.31
ALDW20	275	59.87	21.8	10.05	40.88	58.45	22.95	10.07	42.52
ALVE4A	400	26.09	9.81	4.26	18.13	21.41	8.53	3.1	15.17
ALVE4B	400	26.18	9.84	4.26	18.18	21.63	8.62	3.12	15.3
AMEM4A	400	53.79	20.3	10.55	39.26	43.59	17.32	7.03	31.53
AMEM4B	400	50.07	19.15	9.1	36.19	40.31	16.1	6.44	29.21
AMLW40	400	53.2	18.61	13.93	40.24	43.81	16.64	10.82	34.36
AMLW4A	400	59.79	20.72	15.75	45.06	53.65	20.23	12.41	41.02
AMLW4B	400	59.79	20.72	15.75	45.06	53.65	20.23	12.41	41.02
AXMI40	400	41.68	15.03	8.97	30.22	34.13	13.26	6.39	25.14

BAGB20	275	62.26	22.97	14.71	47.2	58.1	22.45	13.99	45.74
BARK21	275	63.09	22.82	18.09	50.36	64.71	24.5	17.35	52
BARK22	275	65.33	23.59	19.34	52.7	68.46	25.86	18.64	55.2
BARK40	400	156.17	54.88	36.8	114.41	135.97	53.21	24.79	100.04
BARP21	275	57.44	20.9	15.73	45.28	57.08	21.82	13.63	44.48
BARP22	275	60.11	21.79	17.2	48.01	61.52	23.39	15.22	48.3
BEDD21	275	65.78	24.32	15.67	50.07	67.15	25.91	15.22	51.87
BEDD22	275	83.66	30.3	18.36	61.22	84.02	32.78	17.03	63.39
BEDD2M	275	16.9	6.16	5.96	14.68	17.86	6.63	5.86	15.24
BEDD4A	400	45.99	17.16	11.2	35.47	41.2	16.14	10.09	32.91
BEDD4B	400	43.9	16.88	8.22	32.09	36.68	14.81	7.4	28.34
BESW20	275	63.99	22.95	12.02	44.48	56.96	22.31	9.74	41.29
BICF4A	400	64.45	23.86	16.61	50.35	45.7	17.98	8.45	33.88
BICF4B	400	61.84	22.82	16.51	48.78	47.66	18.61	9.17	35.49
BIRK20	275	45.73	15.88	14.85	37.32	47.62	17.69	13.11	38.14
BISW20	275	69.59	24.99	12.8	48.14	64.93	25.61	10.43	46.64
BLYT21	275	67.48	24.48	11.76	46.38	65.56	25.45	11.7	47.69
BLYT22	275	53.45	19.87	9.4	37.51	50.05	19.6	8.66	36.37
BLYT4A	400	32.44	11.94	7.18	24.06	29.97	11.49	6.77	23.02
BLYT4B	400	31.49	11.67	6.64	23.14	28.53	11.02	5.94	21.52
BOLN40	400	66.88	24.33	14.41	48.82	54	21.1	10.83	40.68
BOTW40	400	82.01	28.61	19.86	60.31	74.17	28.47	14.57	54.83
BRAI4A	400	63.42	23.54	14.3	47.58	48.02	18.8	8.7	35.29
BRAI4B	400	62.98	23.52	13.82	47.08	44.83	17.67	7.79	32.78
BRAW20	275	71.01	25.55	16.41	52.54	69.07	26.61	14.25	51.88
BRAW4A	400	37.34	13.79	9.21	28.71	32.62	12.45	7.8	25.42
BRED20	275	68.84	25.18	14.06	49.66	67.09	26.07	12.24	49.12
BRFO40	400	88.51	31.72	21.86	66.72	83.54	31.55	20.81	65.43
BRIM2A	275	85.67	31.26	21.64	65.85	80.49	31.22	16.79	60.95
BRIM2B	275	85.77	31.43	20.32	64.77	80.75	31.9	16.4	61.52
BRIM2C	275	86	31.41	21.79	66.21	80.54	31.33	16.34	60.65
BRIM2D	275	83.94	30.89	19.32	63	77.9	30.97	14.66	58.47
BRIN21	275	61.02	21.91	14.05	45.04	66.48	25.75	13.37	49.79
BRIN22	275	68.85	24.82	17.91	53	72.02	27.57	17.43	56.42
BRIN2M	275	27.24	9.81	10.21	24.09	28.04	10.31	9.62	24.21

BRIN40	400	74.38	27.25	17.19	55.73	55.45	21.49	12.43	42.81
BRLE40	400	123.24	43.46	28.26	89.72	106.27	40.98	21.79	79.74
BRWA2A	275	19.49	7.15	5.31	15.42	19.58	7.46	4.72	15.27
BRWA2B	275	19.46	7.14	5.35	15.45	19.4	7.38	4.75	15.19
BRWA2C	275	19.42	7.13	5.31	15.38	19.52	7.43	4.71	15.23
BURW40	400	99.88	36.22	25.75	76.97	63.59	25.48	10.66	46.7
BUSH20	275	64.2	23.12	13.14	45.84	61.49	23.99	10.62	44.55
BUST21	275	72.23	25.67	16.68	52.99	65.45	26.14	12.39	49.36
BUST22	275	70.88	25.22	16.3	51.96	62.61	25.46	10.77	46.78
CANT40	400	88.11	32.55	19.79	65.82	68.03	27.21	11.28	49.76
CAPE21	275	49.68	17.18	17.69	41.98	55.32	20.22	17.75	46.35
CAPE22	275	34.45	12.27	12.71	30.07	38.01	13.9	12.91	32.58
CAPE4A	400	94.69	33.14	24.91	71.78	82.11	31.16	18.29	62.36
CAPE4B	400	100.7	34.89	27.69	77.03	88.24	33.33	20.33	67.46
CARE20	275	52.27	19.66	9.47	37.28	45.14	17.92	8.16	33.5
CARR20	275	79.76	28.46	21.87	62.12	84.54	31.89	20.76	65.87
CARR4A	400	113.7	40.99	21.78	79.75	86.66	34.09	15.28	63.49
CARR4B	400	112.93	40.83	21.1	78.83	85.51	33.74	14.53	62.24
CARR4H	400	117.81	42.32	22.83	82.68	88.09	34.64	15.52	64.51
CELL40	400	96.64	35.38	17.41	67.45	75.53	29.83	13.51	55.7
CHIC41	400	39.18	14.26	8.56	28.74	31.03	12.12	5.75	22.88
CHIC42	400	38.73	14.08	8.51	28.42	29.3	11.49	5.22	21.46
CHSI20	275	91.53	33.42	18.41	65.66	79.03	31.37	12.98	57.34
CHTE20	275	68.85	24.3	17.75	52.12	60.73	23.36	13.19	46.23
CILF2A	275	49.94	18.43	14.11	40.16	44.58	16.98	12.13	36.15
CILF2B	275	49.89	18.39	14.09	40.11	49.51	18.84	13.18	39.82
CILF40	400	95.01	34.03	23.16	71.28	80.03	30.68	17.26	60.65
CITR41	400	119.87	42.64	27.1	87.4	123.46	48.25	21.94	90.18
CITR42	400	119.76	42.6	27.06	87.31	123.24	48.2	21.72	89.89
CLEV40	400	85.62	31.68	20.53	65.33	64.89	25.83	10.37	46.9
COSO40	400	111.61	40.42	26.29	83.45	95.04	36.63	22.13	73.94
COTT40	400	132.22	46.86	35.15	101.41	127.17	47.43	35.61	102.69
COVE20	275	64.16	22.89	13.03	45.41	60.2	23.22	11.59	44.42
COVE2A	275	63.51	22.66	13.02	45.07	59.62	22.98	11.58	44.08
COWB2A	275	69.91	25.8	13.88	50.37	60.67	24.07	8.81	42.85

COWL40	400	134.66	47.69	34.76	102.2	114.67	43.83	24.74	86.73
CREB2A	275	77.07	27.64	25.35	64.44	75.47	28.18	21.47	61.32
CREB2B	275	77.03	27.63	25.32	64.4	75.46	28.18	21.45	61.3
CREB40	400	148.07	52.77	38.26	112.89	112.06	43.44	23.06	84.49
CULJ4A	400	120.31	42.68	31.9	92.25	113.3	42.54	28.82	88.97
DAIN40	400	127.59	45.49	25.32	89.65	97.37	38.15	17.32	71.28
DAMC40	400	130.55	45.85	38.09	102.93	130.81	48.67	37.46	106.29
DEES41	400	116.31	40.05	31.82	88.46	114.65	42.46	31.86	91.91
DEES42	400	108.24	37.72	27.81	81.16	103.22	38.61	26.46	81.07
DIDC41	400	128.06	44.86	36.28	99.73	129.75	47.74	39.46	106.97
DIDC42	400	110.94	38.52	33.82	88.29	111.71	40.82	36.24	93.97
DINO40	400	77.42	26.26	22.74	59.87	80.92	29.65	23.77	65.71
DRAK21	275	68.23	24.15	18.28	52.44	70.17	26.25	19.38	56.5
DRAK22	275	70.91	25.24	20.95	56.65	75.44	28.04	21.85	61.5
DRAK41	400	111.28	39.68	25.53	81.64	106.74	40.42	26.62	83.78
DRAK42	400	85.95	31.14	17.9	61.94	80.62	31	16.98	60.82
DRAX41	400	142.68	49.95	40.67	111.32	142.73	52.58	42.3	116.66
DRAX42	400	143.8	49.72	41.51	111.83	143.45	52.72	42.3	116.85
DUBR4A	400	39.57	14.74	8.97	29.81	31.18	12.14	5.93	23.09
DUBR4B	400	49.26	18.56	10.49	36.74	39.4	15.53	7.26	29.22
DUNG20	275	43.43	15.99	13.01	35.63	47.94	18.04	13.9	39.41
DUNG40	400	67.43	26.08	13.17	50.05	69.2	27.69	13.39	52.55
EALI20	275	62.16	22.19	17.7	49.08	67.09	26.48	13.62	51.07
EASO40	400	100.53	36.76	24.39	76.38	82.68	31.78	19.1	64.04
ECLA40	400	119.82	43.7	25.12	86.92	93.16	36.63	16.22	68.02
EGGB41	400	106.88	38.1	28.14	82.03	100.62	37.73	25.52	78.87
EGGB42	400	131.88	45.63	36.82	101.35	128.15	47.53	33.11	100.33
ELLA20	275	67.99	24.74	13.25	48.23	59.83	23.52	10.16	43.42
ELST21	275	69.52	25.09	17.63	53.11	75.07	28.44	18.75	58.97
ELST22	275	64.44	23.21	13.46	46.29	71.44	27.37	14.28	52.98
ELST2A	275	68.72	24.8	17.56	52.62	74.14	28.06	18.67	58.36
ELST2B	275	63.75	22.96	13.44	45.92	70.6	27.02	14.27	52.48
ELST40	400	103.01	37.6	20.95	74.13	109.24	42.67	21.8	82.14
ELST4A	400	102.99	37.6	20.95	74.12	109.18	42.64	21.77	82.08
ELST4B	400	47.31	18.08	8.49	34.05	43.2	16.89	8.43	32.32

ENDE40	400	89.64	32.9	18.5	65.02	59.61	23.84	9.14	42.86
EXET40	400	61.45	21.47	13.54	43.91	56.68	21.66	11.59	42.22
FAWL40	400	89.65	30.72	23.15	66.6	88.77	33.05	22.98	69.72
FECK20	275	67.29	24.36	15.39	49.84	66.68	25.57	15.58	51.74
FECK40	400	84.5	31.33	15.06	59.37	69.76	27.41	13.7	52.47
FENW4A	400	113.08	40.89	28.32	86.15	93.56	35.99	18.52	69.42
FERR21	275	70.75	25.2	19.74	55.37	75.27	28.13	20.53	60.31
FERR22	275	76.52	26.96	24.64	62.77	83.3	30.6	26.37	69.64
FERR23	275	84.47	29.48	25.3	66.99	93.11	34.31	27.27	75.79
FERR2A	275	84.53	29.5	25.36	67.09	92.8	34.22	27.01	75.4
FERR2B	275	70.24	25.03	19.46	54.86	74.3	27.84	19.6	58.97
FERR4A	400	88.96	31.58	23.58	68.25	79.79	30.01	20.45	62.89
FFES21	275	37.08	13.7	7.74	27.11	36.53	14.31	6.68	26.93
FFES22	275	34.6	13.06	5.77	24.24	33.28	13.32	4.44	23.27
FIDF21	275	68.27	23.12	24.39	57.09	72.69	26.1	25.53	62.44
FIDF22	275	68.73	23.44	24.38	57.52	72.25	26.06	25.13	61.99
FIDF23	275	87.71	29.73	26.89	68.94	88.51	32.19	27.57	73.1
FIDF24	275	88.24	29.83	27.08	69.26	89.83	32.61	28.07	74.19
FLEE40	400	106.37	37.47	23.63	76.61	90.67	34.93	19.34	68.74
FORD4A	400	38.82	14.49	8.65	29.14	30.67	12	5.73	22.7
FORD4B	400	49.22	18.57	10.22	36.48	39.09	15.5	6.39	28.31
FOUR20	275	41.91	16.44	4.49	27.75	33.91	14.14	2.99	22.98
FROD2A	275	66.25	22.73	23.2	55.35	68.74	25	22.28	57.65
FROD2B	275	65.31	22.29	23.09	54.62	67.47	24.48	22.03	56.65
FROD40	400	104.45	35.72	30.28	80.8	91.14	33.92	24.91	72.87
GRAI41	400	161.91	57.14	50.38	131.19	175.36	64.59	57.09	148.44
GRAI42	400	138.51	49.5	37.11	107.12	134.33	50.6	35.66	107.22
GREN40	400	85.7	32.36	14.25	60.01	54.75	22.27	8.68	40.18
GRIW40	400	80.04	28.92	21.22	62.12	67.57	26.01	13.63	50.42
GRST21	275	89.96	31.27	27.42	71.63	98.34	36.01	29.19	80.11
GRST22	275	90.23	31.35	27.56	71.9	98.82	36.17	29.43	80.58
GRTO2A	275	56.02	20.28	11.75	40.43	55.05	22.11	7.81	39.08
GRTO2B	275	56.08	20.29	11.8	40.5	55.16	22.13	7.89	39.19
HACK2A	275	67.76	24.98	17.41	52.74	69.27	26.65	16.26	53.95
HACK2B	275	67.23	24.76	17.31	52.33	65.56	25.28	15.6	51.34

HACK40	400	126.76	44.92	28.06	91.6	119.63	47.55	20.46	87.7
HAKB4A	400	49.5	18.84	7.55	34.19	40.79	16.2	6.64	29.54
HAKB4B	400	49.76	18.91	7.6	34.35	41.36	16.39	6.92	30.11
HAMB4A	400	87.77	30.9	20.73	64.43	70.67	27.32	13.32	51.95
HAMB4B	400	87.77	30.9	20.73	64.43	70.59	27.29	13.29	51.88
HAMH20	275	79.77	28.15	17.32	57.13	74.72	28.77	14.05	54.73
HAMH2A	275	70.25	25.03	17.98	53.38	67.88	25.7	15.89	52.23
HAMH40	400	80.32	29.35	15.45	56.96	71.06	27.7	12.88	52.05
HAMH4A	400	78.82	28.78	15.46	56.16	69.89	27.19	12.89	51.35
HARK21	275	44.47	16.39	10.27	33.46	48.08	18.34	11.55	37.49
HARK22	275	46.24	17.13	10.35	34.57	50.64	19.39	11.77	39.19
HARK40	400	58.48	21.99	8.93	40.03	51.03	19.96	9.96	38.19
HARM20	275	65.5	23.78	12.03	45.66	56.57	22.24	8.72	40.18
HATL20	275	90.72	31.3	22.67	66.94	90.34	33.78	23.18	70.96
HAWP20	275	78.1	27.9	16.82	56.27	70.65	27.32	13.3	51.95
HAWP4A	400	50.22	18.37	11.6	37.58	40.8	15.68	8.88	31.06
HEYS20	275	30.41	11.1	8.08	23.78	28.41	10.57	8.08	23.03
HEYS40	400	105.31	36.26	27.81	79.08	106.13	39.02	29.9	85.08
HIGM20	275	68.24	24.86	19.2	54.36	63.85	24.55	15.31	50.03
HIGM2A	275	44.54	16.16	14.68	37.54	44.71	16.76	12.75	36.46
HIGM40	400	84.11	31.29	18.8	63.05	68.17	26.84	11.91	49.87
HIGM4A	400	65.48	24.34	16.64	51.06	54.47	21.17	11.45	41.38
HILL40	400	84.86	29.95	19.51	61.86	67.49	26.17	13.06	50.06
HINP21	275	23.66	8.46	8.04	20.01	25.92	9.51	8.72	22.18
HINP22	275	23.68	8.48	7.97	19.96	26.36	9.68	8.77	22.46
HINP40	400	72.15	25.6	16.94	53.14	70.05	26.39	18.53	55.84
HIRN40	400	77.31	28.03	18.38	58.02	54.21	21.41	8.44	38.73
HUMR40	400	126.69	44.41	38.16	100.96	127.12	46.98	37.88	104.33
HURS20	275	72.59	26.02	18.43	55.23	73.01	29.87	14.96	57.2
HUTT40	400	69.62	25.64	12.34	48.6	48.89	19.69	6.95	34.8
IMPP40	400	60.23	22.28	13.24	44.75	49.52	19.14	10.36	37.42
INDQ40	400	37.09	13.14	7.19	25.77	37.46	14.26	7.72	27.89
IROA20	275	57.86	21.91	9.39	40.37	54.74	21.74	9.41	40.16
IROA2A	275	57.3	21.68	9.4	40.07	54.24	21.52	9.42	39.85
IROA2B	275	57.3	21.68	9.4	40.07	54.24	21.52	9.42	39.85

IRON40	400	89.76	31.98	19.99	65.21	85.32	32.42	19.97	65.82
IVER21	275	67.45	24.51	16.46	51.12	70.97	27.06	16.72	55
IVER22	275	68.17	24.74	15.46	50.44	65.67	25.51	13.53	49.62
IVER2A	275	45.7	16.88	11.32	35.19	44.85	17.36	10.33	34.87
IVER4A	400	48.37	18.05	11.02	36.55	44.63	17.19	10.44	34.75
IVER4B	400	43.38	16.45	9.38	32.64	38.16	14.88	8.56	29.61
JORD20	275	47.65	17.65	8.97	33.93	48.8	19.93	7.87	36.05
KEAD41	400	119.68	43.11	32.29	93.27	102.98	39.23	23.95	79.43
KEAD42	400	124.62	44.72	32.88	96.12	106.79	40.72	24.87	82.46
KEAD43	400	92.95	34.3	21.79	70.3	73.88	28.8	14.04	54.77
KEAD4A	400	118.61	42.79	31.41	91.93	93.96	36.41	17.58	69.07
KEAD4B	400	124.95	44.94	32.7	96.26	97.89	37.99	18.17	71.89
KEAD4C	400	88.43	32.07	25.79	71.15	76.32	28.9	20.67	61.55
KEAD4D	400	88.43	32.07	25.79	71.15	76.32	28.9	20.67	61.55
KEAP41	400	114.69	41.46	30.29	88.93	98.39	37.71	21.77	75.1
KEAP42	400	121.59	43.76	31.46	93.34	103.92	39.7	23.94	80.09
KEAR20	275	73.93	25.85	19.98	56.54	79.57	29.67	20.22	62.18
KEAR40	400	90.02	32.79	17.11	63.48	74.01	28.77	14.7	55.38
KEAR4A	400	81.63	30.12	14.94	57.54	57.88	22.81	10.25	42.51
KEMS40	400	162.15	57.58	43.65	125.09	136.5	53.03	25.85	100.85
KEMS4A	400	92.39	33.32	29.41	76.53	82.42	31.32	21.55	65.84
KEMS4B	400	94.95	34.29	29.81	78.3	83.89	31.91	21.66	66.79
KIBY21	275	90.82	30.88	25.35	69.03	81.84	31.05	17.41	61.33
KIBY22	275	82.34	28.47	22.28	62.54	66.32	25.05	15	50.42
KIBY4A	400	54.3	19.6	12.68	40.41	29.53	11.98	3.97	20.92
KIBY4B	400	55.87	20.05	13.5	41.86	29.86	12.11	4.05	21.18
KILL40	400	136.4	47.47	41.94	109.07	141.65	51.98	42.73	116.24
KINO41	400	143.79	50.55	42.99	114.48	137.35	51.16	39.62	111.96
KINO42	400	134.52	47.1	39.79	106.39	134.21	49.73	39.7	110.02
KIRK20	275	59.02	21.35	13.51	43.7	55.8	21.85	10.76	41.66
KIRK2A	275	60.59	21.78	14.11	44.91	56.27	22.45	10.74	42.49
KITW20	275	68.32	24.45	12.74	47.31	67.45	26.28	11.39	48.55
KNAR20	275	30.01	12.22	2.52	19.81	24.31	10.14	2.79	17.13
LACK20	275	59.76	21.07	15.87	45.67	62.18	23.28	16.66	49.58
LACK2A	275	86.15	30.15	25.33	67.97	94.41	34.74	26.68	75.81

LACK2B	275	91.1	31.62	28.06	72.78	100.99	36.85	30.54	82.65
LACK2C	275	87.42	30.54	25.98	69.16	95.8	35.22	27.28	77.09
LACK40	400	88.87	31.71	21.86	66.7	83.06	31.17	21.75	65.83
LALE20	275	61.79	22.15	16.99	48.33	67.23	26.2	15.86	52.91
LAND41	400	36.55	13.02	7.29	25.7	35.73	13.75	6.43	25.87
LAND42	400	36.66	13.05	7.33	25.78	35.72	13.75	6.41	25.85
LAND4A	400	36.34	12.93	7.33	25.62	35.41	13.62	6.41	25.67
LANG40	400	48.01	16.47	11.65	34.95	53.63	19.67	14.84	42.66
LEGA40	400	99.67	35.16	23.16	72.88	75.26	29.59	13.18	55.02
LEGA4A	400	66.69	23.86	18.83	52.57	53.96	20.77	12.22	41.6
LEGA4B	400	66.74	23.87	18.83	52.59	54.02	20.8	12.22	41.63
LEIB4A	400	85.58	31.73	18.38	63.25	62.25	24.51	10.35	45
LEIB4B	400	109.07	40.14	22.57	79.33	78.8	31.24	12.16	56.34
LISD20	275	81.73	28.16	21.16	60.99	76.15	29.11	16.85	58.02
LISD2A	275	44.01	15.36	15.36	37.09	44.17	16.36	13.17	36.31
LISD2B	275	43.28	15.14	14.12	35.53	44.68	16.86	11.92	35.77
LITB40	400	94.67	34.73	22.91	72.03	80.07	30.71	21.72	65.15
LITT2A	275	61.05	22.28	15.24	46.74	59.17	23.76	13.88	47.48
LITT2B	275	60.91	22.24	15.06	46.51	60.02	23.98	14.36	48.28
LITT41	400	105.58	38.57	22.12	76.66	96.55	37.59	21.03	74.18
LITT42	400	56.57	20.88	13.14	42.67	60.68	22.97	15.77	48.26
LITT4A	400	93.65	34.72	18.45	67.55	77.24	30.74	12.12	55.59
LITT4B	400	64.82	23.91	14.99	48.8	61.36	23.8	11.91	45.57
LOVE40	400	102.34	35.34	24.81	74.78	92.24	35.32	18.16	68.12
MACC20	275	53.16	19.67	13.12	40.94	50.75	19.57	11.37	39.04
MACC40	400	84.04	31.19	15.39	59.49	62.28	24.9	9.41	44.63
MAGA20	275	61.37	22.98	11.44	43.94	55.72	21.92	10.46	41.46
MANN40	400	59.55	21.12	13.36	43.22	54.86	20.94	11.81	41.42
MAWO40	400	71.1	24.74	18.88	53.87	74.48	27.53	21.29	60.23
MEDW40	400	118.55	43.08	28.2	89.12	110.15	42.19	25.29	84.95
MELK2A	275	44.68	16.62	12.86	36.37	44.07	16.81	11.86	35.64
MELK2B	275	43.39	16.18	12.26	35.14	44.07	16.83	11.71	35.52
MELK40	400	113.81	41.3	22.52	80.92	90.29	35.52	16.02	66.25
MILH2A	275	43.76	16.48	6.9	30.22	43.64	17.92	6.59	31.94
MILH2B	275	43.72	16.47	6.89	30.19	43.59	17.91	6.58	31.91

MITY40	400	86.5	32.31	15.19	60.88	61.93	24.96	8.95	44.24
MONF21	275	86.36	30.27	27	69.81	91.72	34.04	25.48	73.62
MONF22	275	77.89	27.59	24.36	63.37	80.2	29.89	22.43	64.7
MONF40	400	100.56	35.62	26.26	76.63	89.65	33.86	20.92	68.81
MONF4A	400	87.7	31.31	22.63	66.91	77.32	29.27	17.88	59.27
NECH20	275	87.31	30.48	20.89	63.99	80.44	30.93	15.75	59.48
NEEP20	275	54.79	19.89	12.4	40.53	59.87	23.63	11.93	45.35
NEEP2A	275	44.09	15.97	12.46	35.04	47.5	18.03	11.65	37.15
NEEP4A	400	45.62	17.15	9.42	33.67	39.17	15.33	7.76	29.44
NEWX20	275	79.56	28.33	19.25	59.32	84.12	33.93	15.87	63.85
NFLE40	400	155.76	54.94	38.42	116.12	117.78	46.5	19.58	85.35
NHYD2A	275	47.45	18.11	7.9	33.51	41.34	19.04	5.53	32.46
NHYD2B	275	47.94	18.25	7.58	33.4	41.84	18.59	7.33	33.61
NINF40	400	62.06	23.24	12.67	45.54	56.18	22.12	11.52	42.81
NORL2A	275	48.75	17.98	9.69	35.11	50.13	20.53	7.22	36.26
NORL2B	275	48.24	17.85	9.08	34.33	49.38	20.5	6.51	35.5
NORT21	275	73.32	25.77	17.78	54.22	72.91	27.58	16.64	55.65
NORT22	275	64.17	23.19	15.79	48.58	59.93	22.87	13.55	45.9
NORT40	400	85.22	30.57	19.48	62.71	71.11	27.32	14.78	53.42
NORW40	400	70.92	25.86	16.42	52.99	60.95	23.43	13.59	46.72
NURS40	400	67.33	23.64	17.16	50.59	67.26	25.2	16.36	51.99
NURS4A	400	55.69	20.04	12.64	40.99	50.55	19.25	11.13	38.36
OCKH20	275	66.49	23.89	12.83	46.61	66.74	25.89	11.89	48.5
OCKH2A	275	57.17	20.62	12.49	41.64	55.95	21.6	11.63	42.18
OFFE20	275	69.2	25.06	12.37	47.81	60.44	23.73	9.94	43.51
OLDB20	275	56.73	20.72	10.63	39.93	57.76	22.48	10.32	42.11
OLDB2A	275	56.21	20.52	10.63	39.66	57.21	22.25	10.32	41.79
OLDB4A	400	37.17	14.03	7	26.84	33.54	13.13	6.43	25
OSBA41	400	75.03	27.66	16.96	56.08	53.83	21.17	9.03	38.97
OSBA42	400	74.77	27.6	16.96	55.99	52.09	20.53	8.67	37.7
PADI40	400	79.43	28.92	17.13	58.03	50.53	20.02	8.35	36.66
PAFB4A	400	56.44	21.64	9.3	39.9	36.45	15.03	3.57	24.82
PAFB4B	400	56.56	21.67	9.33	39.99	36.53	15.06	3.58	24.88
PELH40	400	151.93	54	38.45	114.81	129.93	49.79	28.15	98.57
PEMB40	400	83.02	28.79	25.05	65.77	97.36	35.46	28.78	78.92

PENN20	275	73.92	26.43	16.71	54.08	76.05	29.03	16.27	57.32
PENN2A	275	73.03	26.11	16.67	53.59	75.11	28.64	16.24	56.74
PENN4A	400	47.1	17.6	9.31	34.2	40.97	15.99	8.42	31.04
PENN4B	400	49.26	18.4	9.53	35.56	44.75	17.45	8.92	33.6
PENT40	400	81.19	27.53	23.25	62.19	82.52	30.5	21.9	65.04
PEWO2B	275	30.02	10.69	11.61	26.74	31	11.39	10.29	26.4
PEWO40	400	111.56	38.48	27.47	81.89	81.41	31.42	16.07	60.5
PEWO4A	400	77.53	27.54	21.75	60.69	26.07	10.7	2.92	18.05
PEWO4B	400	79.21	28.04	22.26	61.91	28.87	11.72	3.49	20.06
PITS20	275	56.81	20.56	12.63	41.69	63.48	24.84	12.17	47.31
POPP20	275	29.22	12.06	1.91	18.96	23.3	9.81	2.64	16.51
PYLE20	275	64.16	24.02	11.32	45.29	56.32	22.35	9.43	41.03
PYLE2A	275	63.48	23.74	11.33	44.91	55.79	22.11	9.44	40.71
PYLE2B	275	63.48	23.74	11.33	44.91	55.79	22.11	9.44	40.71
QUER4A	400	90.07	31.72	21.99	66.84	75.59	29.06	14	55.1
QUER4B	400	89.82	31.66	21.85	66.63	76.11	29.25	14.24	55.6
RAIN20	275	107.31	35.6	32.53	82.88	98.7	36.6	24.04	75.81
RASS40	400	57.36	21.21	12.41	42.4	44.09	17.35	7.17	31.7
RATS2A	275	43.33	15.81	13.5	35.85	44.63	16.6	14.16	37.64
RATS41	400	99.06	35.8	22.42	73.05	98.74	37.36	23.61	76.45
RATS42	400	112.82	40.1	25.77	82.49	113	42.49	27.6	87.68
RAYL41	400	90.32	33.07	21.18	67.95	70.08	27.35	13.63	52.31
RAYL42	400	92.72	34.05	21.02	69.17	68.1	26.8	12.5	50.41
REBR21	275	71.39	26.03	18.67	55.48	68.13	26.67	13.39	51.1
REBR22	275	72.21	26.36	19.02	56.3	69.17	27.22	12.72	51.21
ROCH20	275	62.72	22.72	14.17	46.3	61.33	23.62	12.36	45.75
ROCH4A	400	32.21	12.06	7.6	24.66	28.64	11.03	6.62	22.22
ROCK40	400	100.45	34.51	28.56	77.36	86.05	32.21	22.63	68.18
RUGE40	400	69.74	25.29	14.55	50.32	68.6	26.15	15.95	52.93
RYEH40	400	86.79	31.07	23.4	67.35	85.55	32.09	23.22	68.6
RYEH4A	400	78.45	28.68	19.93	60.49	70.12	26.72	17.25	55.04
SAEN20	275	76.55	27.14	22.5	60.88	78.22	28.91	23.36	64.24
SAES20	275	77.21	27.32	22.88	61.52	79.71	29.34	24.86	66.36
SALH20	275	75.68	26.62	17	54.65	73.01	27.83	14.65	54.01
SBAR40	400	62.24	23.54	11.75	45.04	51.95	20.5	9.28	38.27

SEAB40	400	72.27	25.62	17.95	54.18	69.84	26.05	19.5	56.33
SELL40	400	72.68	27.58	14.38	53.39	70.53	27.87	14.47	53.88
SHBA40	400	97.56	34.6	28.39	77.32	95.7	35.63	27.58	77.97
SHEC20	275	50.46	18.51	10.42	36.61	53.45	21.73	8.2	38.93
SHRE4A	400	65.78	24.07	13.46	47.51	52.6	20.8	8.15	37.56
SING40	400	148.83	52.76	36.43	111.04	104.31	41.31	16.2	74.62
SIZE40	400	75.53	26.87	19.88	57.89	78.85	29.23	22.17	63.51
SJOW20	275	93.5	33.69	24.33	71.97	103.46	39.89	27.72	84.14
SJOW2A	275	72.48	25.91	20.96	57.61	73.84	30.21	19.3	62.02
SJOW2B	275	72.48	25.91	20.96	57.61	73.84	30.21	19.3	62.02
SJOW40	400	120.07	42.71	27.36	87.76	125.1	48.41	27.36	95.82
SKLG20	275	67.96	24.31	15.27	49.66	63.41	24.65	12.2	47.06
SMAN20	275	72.57	26.25	16.76	53.89	70.1	27.14	13.11	51.49
SPEN21	275	50.17	18.52	9.13	35.32	43.83	17.22	7.58	31.93
SPEN22	275	52.06	19.26	9.24	36.49	43.39	17.21	7.05	31.39
SPLN40	400	72.77	26.56	20.14	57.71	63.02	23.96	17.15	51.04
SSHI20	275	64.36	23.44	10.57	43.72	56.8	22.34	9.45	41.04
STAH4A	400	84.87	29.97	19.5	61.88	67.21	26.08	12.89	49.77
STAH4B	400	84.87	29.97	19.5	61.88	67.18	26.06	12.88	49.74
STAL21	275	45.57	16.8	10.94	34.71	44.99	17.22	10.07	34.42
STAL22	275	55.71	20.84	9.95	39.43	49.1	19.36	8.47	35.86
STAL4A	400	34.14	12.75	7.78	25.81	28.76	11.1	6.42	22.12
STAY41	400	76.24	28.15	15.64	55.44	68.51	26.41	15.43	52.78
STAY42	400	67.99	25.33	13.95	49.77	61.51	23.69	14.43	47.94
STAY4A	400	67.28	24.96	14.8	50.1	58.72	22.61	14.23	46.2
STEW20	275	92.42	32.7	17.43	63.68	92.38	35.43	17.35	67.45
STEW2A	275	92.26	32.66	17.36	63.54	92.11	35.37	17.06	67.08
STEW4A	400	41.41	14.92	10.3	31.4	39.35	14.87	9.8	30.82
STEW4B	400	41.42	14.93	10.38	31.5	39.9	15.07	9.96	31.27
STEW4C	400	41.36	14.96	10.1	31.26	37.75	14.42	8.27	28.66
STEW4D	400	41.19	14.91	10.1	31.19	37.84	14.46	8.26	28.71
STSB40	400	58.01	21.48	12.92	43.29	49.77	19.29	10.35	37.62
STSB4A	400	50.74	18.93	11.82	38.59	43.06	16.68	9.6	33.18
SUND41	400	134.36	48.93	27.7	96.91	106.69	41.72	20.05	79.05
SUND42	400	112.88	41.25	24.5	82.83	90.43	35.06	18.22	67.81

SUTB4A	400	100.54	36.27	26.01	77.3	86.59	32.95	22.83	69.43
SUTB4B	400	110.16	39.65	29.93	86.01	64.86	23.35	25.48	58.5
SWAN20	275	69.51	25.06	20.4	55.84	74.38	27.94	20.11	59.63
SWAN40	400	88.37	31.49	22.71	67.24	76.92	29.32	17.47	58.93
SWAN4A	400	86.06	30.76	21.68	65.18	74.35	28.43	16.47	56.67
SWAN4B	400	86.08	30.77	21.68	65.2	74.42	28.45	16.5	56.73
TAUN4A	400	52.41	18.95	10.53	37.34	44.23	17.39	6.86	31.45
TAUN4B	400	53.34	19.26	10.72	37.96	45.72	17.93	7.33	32.7
TEMP21	275	56.2	20.38	12.27	41.09	60.41	23.76	11.24	44.85
TEMP22	275	56.38	20.43	12.36	41.25	60.89	23.94	11.39	45.25
THOM20	275	75.25	26.77	21.28	59.14	77.16	29.14	20.07	61.28
THOM40	400	111.37	39.53	27.23	83.13	94.74	36.31	19.09	70.45
THTO41	400	117.53	42.48	28.53	88.61	86.77	33.91	14.6	62.55
THTO42	400	117.73	42.46	28.69	88.75	85.98	33.61	14.44	61.97
THUR20	275	64.09	23.77	10.8	44.41	64.01	25.31	10.54	46.34
THUR2A	275	64.49	24	10.2	44.13	60.5	24.26	8.16	42.47
TILB21	275	78.5	27.84	22.64	62.01	83.06	30.79	23.62	67.16
TILB22	275	79.35	28.08	24.31	64.02	84.28	31.15	25.34	69.4
TILB40	400	174.48	60.78	47.57	133.52	149.66	57.2	33.9	114.79
TINP2A	275	58.55	21.46	13.6	43.95	57.54	22.37	12.22	43.86
TINP2B	275	58.56	21.46	13.61	43.95	57.55	22.37	12.23	43.87
TODP20	275	62.05	21.96	14.93	45.99	56.6	21.81	10.89	41.74
TOTE21	275	80.03	29.11	21.24	62.42	79.8	30.76	17.81	61.31
TOTE22	275	80.92	29.47	21.55	63.22	82.36	31.75	18.03	62.93
TOTW21	275	81.21	29.85	18.41	60.63	79.72	33	14.22	60.89
TOTW22	275	82.01	30.1	18.77	61.34	80.42	33.23	14.64	61.63
TRAW20	275	45.12	15.95	13.58	36.13	47.9	17.99	11.75	37.19
TRAW40	400	60.34	22	12.28	43.39	47.77	18.89	8.41	35.12
TREM20	275	45.56	17.8	5.98	31.15	37.44	15.37	4.44	26.18
TREU4A	400	95.14	33.72	22.07	69.77	75.95	29.72	12.37	54.4
TREU4B	400	97.11	34.37	22.51	71.12	77.67	30.41	12.54	55.54
TYNE20	275	60.89	22.23	9.68	41.11	54.38	21.4	8.81	39.07
TYNE2A	275	56.07	20.74	9.01	38.35	49.24	19.48	7.73	35.28
UPPB21	275	50.36	18.71	12.09	38.55	47.91	18.58	10.03	36.31
UPPB22	275	50.3	18.71	12.08	38.53	45.39	17.53	10.26	35.05

USKM20	275	80.72	29.05	21.21	62.3	91.85	34.55	24.51	73.36
USKM2A	275	64.42	23.94	13.55	47.4	65.25	25.31	13.07	48.86
USKM2B	275	80.04	28.85	20.81	61.6	89.81	33.89	23.07	71
WALH40	400	68.62	25.32	13.26	49.07	50.11	19.88	8.34	36.47
WALN2A	275	12.33	4.17	3.47	9.37	12.87	4.66	3.62	10.21
WALN2B	275	12.33	4.17	3.47	9.37	12.87	4.66	3.62	10.21
WALN2C	275	11.63	3.9	2.45	7.97	8.56	3.64	0.34	5.49
WALN2D	275	11.63	3.9	2.45	7.97	8.56	3.64	0.34	5.49
WALP40	400	121	43.04	34.91	95.78	101.28	38.46	26.22	80.62
WALX21	275	97.86	35.27	27.42	77.3	94.89	36.15	24.99	76.11
WALX22	275	97.41	35.16	27.32	77.05	94.12	35.9	24.77	75.54
WALX4A	400	80.06	28.77	21.88	62.57	76.52	28.89	19.62	60.48
WALX4B	400	73.63	26.88	19.37	57.39	66.73	25.4	16.62	52.54
WARL20	275	84.78	30.4	19.86	62.86	70.99	27.76	12.85	52.11
WARO20	275	76.49	27.13	22.46	60.82	78.14	28.89	23.22	64.08
WASF4A	400	60.99	22.02	13.26	44.41	37.42	15.02	5.76	26.99
WASF4B	400	62.11	22.35	13.79	45.39	37.72	15.13	5.84	27.24
WATS21	275	65.38	23.84	15.03	48.74	65.78	25.45	13.17	49.16
WATS22	275	62.69	22.71	12.75	44.86	64.25	24.97	11.44	46.75
WBOL20	275	73.78	26.45	12.79	50.19	63.64	24.97	10.62	45.93
WBUR41	400	115.06	41.54	32.8	91.55	110.59	41.34	32.5	90.97
WBUR42	400	99.86	36.23	29.43	80.67	101.48	37.73	31.48	84.84
WEAV4A	400	74.9	27.76	13.77	53.03	51.59	20.93	5.73	35.33
WEAV4B	400	76.21	28.2	14.16	54.04	52.46	21.28	5.84	35.93
WHAM40	400	139.28	49.11	31.35	100.8	132.58	51.94	23.61	97.07
WHAM4A	400	108.89	39.18	23.67	79.07	104.5	42.68	18.62	78.97
WHAM4B	400	108.92	39.2	23.54	78.97	104.57	42.72	18.4	78.82
WHGA20	275	65.54	23.44	15.19	48.34	62.91	24.26	11.96	46.27
WHSO20	275	83.56	30.01	22.03	64.47	92.65	35.01	23.2	72.71
WHSO2A	275	58.22	21.36	16.84	47.04	60.99	23.09	17.46	50.12
WHSO2B	275	58.23	21.36	16.84	47.04	60.99	23.1	17.46	50.12
WHSO4A	400	70.35	25.37	17.65	53.53	60.99	23.22	14.43	47.26
WIBA20	275	55.81	20.26	12.08	40.73	60.89	24.25	9.93	44.23
WIEN2A	275	54.19	19.9	9.53	37.67	52.45	20.59	8.61	37.72
WIEN2B	275	58.25	21.04	12.22	41.97	56.67	22.06	10.77	41.96

WILE40	400	112.11	40.25	23.92	80.84	98.52	38.23	18.48	72.55
WILL20	275	41.03	14.68	14.59	35.35	44.28	16.24	14.68	37.65
WIMB20	275	86.39	30.61	21.05	64.34	93.51	36.86	19.56	71.69
WIMB2M	275	44.87	17.11	8.53	32.73	41.16	16.35	6.92	30.04
WISD20	275	82.5	29.11	24.77	65.94	90.19	34.89	21.68	71.03
WISD2A	275	63.17	22.5	18.91	50.73	67.52	26.47	17.52	54.95
WISD2B	275	72.4	25.99	19.81	56.56	72.82	29.48	18.48	60.16
WMEL20	275	72.66	25.9	14.16	50.79	69.97	27.15	13.7	52.1
WODS21	275	20.05	8.2	1.79	13.39	10.86	5.7	0.03	8.09
WODS22	275	20.05	8.2	1.79	13.39	10.86	5.7	0.03	8.09
WODS2A	275	29.34	10.81	6.98	22.27	26.82	10.31	5.42	20
WODS2B	275	29.34	10.81	6.98	22.27	26.82	10.31	5.42	20
WTHU41	400	97.2	35.83	19.05	69.72	76.7	30.67	11.28	54.66
WTHU42	400	97.2	35.83	19.05	69.72	76.7	30.67	11.28	54.66
WTHU4A	400	145.13	51.81	33.05	106.33	117.38	46.23	19.32	84.7
WTHU4B	400	145.13	51.81	33.05	106.33	117.38	46.23	19.32	84.7
WWEY21	275	78.91	28.92	17.32	58.21	79.07	30.53	16.59	59.77
WWEY22	275	65.84	24.59	12.86	47.63	63.62	24.76	12.22	47.23
WWEY2A	275	55.25	20.09	14.65	43.07	56.02	21.64	13.34	43.94
WWEY4A	400	44.37	16.9	8.15	32.05	38.84	15.25	7.63	29.19
WWEY4B	400	51.46	19.24	11.58	38.79	45.53	17.74	10.27	35.36
WYLF40	400	52.97	18.39	13.37	39.38	44.81	17.01	10	34.05
WYMO40	400	154.92	55.49	36.35	114.83	131.36	50.56	27.26	98.76
YGAR4A	400	57.05	20.72	12.23	41.52	44.38	17.64	6.82	31.76
YWER4A	400	56.66	20.52	12.38	41.4	44.17	17.55	6.53	31.34

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Table D.3.7b - NGET Forecast Short-Circuit Currents at 132kV and Lower Voltage Nodes for 2013/14 (kA)

Location	Voltage (kV)	Three-Phase Initial Peak Current (kA)	Three-Phase RMS Break Current (kA)	Three-Phase DC Break Current (kA)	Three-Phase Peak Break Current (kA)	Single-Phase Initial Peak Current (kA)	Single-Phase RMS Break Current (kA)	Single-Phase DC Break Current (kA)	Single-Phase Peak Break Current (kA)
ABTH11	132	30.28	11.77	6.56	23.21	36.16	14.06	8.99	28.87
ABTH12	132	50.29	18.45	13.56	39.64	59.86	22.47	17.55	49.33
ABTH13	132	11.32	4.44	1.62	7.91	10.09	3.85	2.32	7.77
AMEM10	132	26.47	9.53	9.45	22.93	32.48	11.98	10.62	27.55
AXMI10	132	26.88	9.32	8.98	22.16	32.54	11.87	10.12	26.9
BARK10	132	23.85	8.39	8.99	20.85	25.85	9.41	9.41	22.71
BICF10	132	27.47	9.97	10.33	24.43	30.26	11.1	10.53	26.22
BLYT60	66	51.5	17.06	15.37	39.49	29.76	10.79	12.11	27.37
BRIM10	132	52.27	17.99	20.29	45.72	63.75	22.86	24.12	56.45
BRWE10	132	20.56	7.19	8.55	18.72	6.11	2.24	2.14	5.31
CARR11	132	26.96	9.86	7.95	21.88	31.52	11.94	8.95	25.84
CARR12	132	48.98	16.79	15.79	39.53	60.21	22.05	18.63	49.82

CELL11	132	43.73	14.72	14.39	35.21	54.55	19.63	16.62	44.38
CELL12	132	29.48	10.25	10.13	24.63	35.2	12.81	11.29	29.41
DRAK10	132	34.38	10	9.38	23.52	42.15	14	12.36	32.15
DRAX11	132	15.46	5.31	5.54	13.05	19.36	6.89	7.06	16.8
DRAX12	132	14.68	5.04	5.27	12.4	18.42	6.55	6.73	16
EALI60	66	60.1	20.57	19.1	48.19	69.45	25.49	20.47	56.52
ECLA10	132	44.14	15.21	15.91	37.43	51.41	18.74	17.23	43.74
ELLA11	132	26.03	9.1	8.46	21.33	31.64	11.68	9.55	26.06
ELLA12	132	26.52	9.28	8.51	21.63	31.72	11.71	9.52	26.08
ELST11	132	28.92	9.54	9.96	23.45	36.31	13.11	11.88	30.43
ELST12	132	37.52	12.22	11.63	28.9	44.66	16.18	13.04	35.92
ELST1A	132	10.18	3.67	3.19	8.39	12.48	4.64	3.7	10.26
ELST1B	132	9.87	3.59	3.04	8.12	12.12	4.52	3.53	9.93
FAWL10	132	50.61	16.17	17.89	40.75	69.2	23.78	24.84	58.47
FERR11	132	34.05	11.59	11.66	28.05	41.13	14.84	14.46	35.46
FERR12	132	31.08	10.62	9.92	24.94	37.98	13.81	12.33	31.86
FERR13	132	9.98	3.68	3.15	8.36	10.53	3.9	3.33	8.84
GREN11	132	41.41	15.77	11.79	34.08	47.79	18.96	13.07	39.89
GREN12	132	43.67	16.15	12.69	35.53	50.33	19.65	13.76	41.55
HAMH11	132	27.6	9.5	10.34	23.78	34.26	12.39	12.15	29.68
HAMH12	132	27.66	9.5	10.16	23.59	28.91	10.49	10	24.83
HARK11	132	34.89	11.17	7.88	23.69	39.43	14.58	8.93	29.55
HARK12	132	31.95	10.81	7.76	23.05	35.69	13.47	8.67	27.72
HARK13	132	23.8	10.05	5.7	19.91	23.06	9.39	5.84	19.12
IROA11	132	41.95	15.36	10.59	32.3	51.14	19.49	12.4	39.97
IROA12	132	42.75	15.5	10.59	32.52	51.74	19.62	12.48	40.22
IRON11	132	26.49	7.37	6.76	17.19	31.98	10.44	8.89	23.65
IRON12	132	14.12	5.13	5.23	12.49	18.78	6.83	7.03	16.69
KINO10	132	36.91	12.31	12.01	29.42	46.79	16.51	15.72	39.06
LITT11	132	20.72	7.26	8.3	18.57	27.37	9.92	10.29	24.32
LITT13	132	31.42	11.19	11.58	27.4	40.47	14.67	15.24	35.99
LODR6M	66	20.52	7.53	6.89	17.55	2.26	1.57	0	2.22
MELK10	132	39.97	14.01	14.82	34.64	52.77	19.08	18.17	45.15
MILH11	132	23.17	8.17	7.98	19.54	29.16	10.68	9.6	24.71
MILH12	132	23.43	8.39	7.16	19.03	29.52	10.95	8.69	24.18

NFLE11	132	38.32	12.39	12.76	30.28	46.92	16.83	14.7	38.51
NFLE12	132	31.83	11.72	11.29	27.86	34.7	12.91	11.8	30.06
OCKH10	132	25.68	9.04	8.06	20.86	29.54	10.8	9.12	24.39
OLDS11	132	30.04	11.14	5.5	21.25	29.11	11.5	4.48	20.74
OLDS12	132	28.71	10.93	5.38	20.83	26.56	10.75	3.36	18.56
PADI10	132	27.33	9.29	9.54	22.68	33.42	12.01	10.71	27.69
PEMB10	132	29.02	10.28	10.16	24.69	36.52	13.39	12.15	31.08
RATS10	132	50.31	15.93	15.76	38.29	62.01	21.45	20.04	50.38
RUGE10	132	27.03	9.25	9.75	22.83	30.28	10.78	11.49	26.74
SIZE11	132	44.93	16.19	14.63	37.53	55.3	20.34	17.42	46.19
SIZE12	132	44.93	16.19	14.64	37.54	55.33	20.37	17.32	46.13
STEN10	132	37.11	11.46	9.34	25.55	46.1	16.37	11.25	34.4
STES10	132	31.47	10.53	9.4	24.29	39.2	14.07	11.21	31.12
STYC10	132	30.03	10.14	11.28	25.63	27.78	10.04	10.46	24.65
TYNE50	22	55.59	19.87	19.43	47.54	60.41	21.95	22.16	53.21
WALP11	132	49.98	17.82	13.47	38.67	54.9	21.09	14.29	44.11
WALP12	132	38.35	14.22	11.02	31.13	42.33	16.4	11.94	35.13
WALP13	132	31.69	12.12	8.41	25.55	34.17	13.53	8.94	28.08
WBUR10	132	32.14	10.55	10.67	25.59	42.77	14.97	14.03	35.21
WILL10	132	52.7	17.82	18.95	44.15	65	23.5	22.19	55.43
WIMB11	132	32.19	10.56	10.58	25.52	42.25	15.24	13.17	34.72
WIMB12	132	26.4	9.61	9.04	22.63	32.1	11.83	10.58	27.31
WIMB13	132	21.38	7.46	7.67	18.22	27.03	9.87	9.14	23.11
WIMB14	132	21.06	7.42	7.57	18.06	26.57	9.7	9.15	22.87
WISD60	66	49.92	17.1	17.39	41.58	6.53	4.52	0	6.39
WYLF10	132	46.69	14.43	14.05	34.45	58.3	20.25	16.41	45.05

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