Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Afton	AFT314	0.1	Primary Over-Voltage - min	2.14	Breaker Relay Reduction of Reach - max
Afton	AFT315	0.1	Primary Over-Voltage - min	1.77	Primary Over-Voltage - max
Afton	AFT321	0.07	Primary Over-Voltage - min	0.48	Primary Over-Voltage - max
Afton	AFT322	0.64	Thermal for Gen - min	3.49	Reverse Power Flow - max
Arden Hills	AHI021	0.3	Primary Over-Voltage - min	0.4	Primary Over-Voltage - max
Arden Hills	AHI022	0.3	Primary Over-Voltage - min	0.4	Primary Over-Voltage - max
Arden Hills	AHI024	0.3	Primary Over-Voltage - min	0.4	Primary Over-Voltage - max
Arden Hills	AHI025	0.4	Primary Over-Voltage - min	0.5	Primary Over-Voltage - max
Arden Hills	AHI063	0.49	Thermal for Gen - min	1.72	Reverse Power Flow - max
Airport	AIR060	0.3	Primary Over-Voltage - min	1.02	Breaker Relay Reduction of Reach - max
Airport	AIR061	0.96	Reverse Power Flow - min	0.96	Reverse Power Flow - max
Airport	AIR069	0.9	Primary Over-Voltage - min	1.08	Reverse Power Flow - max
Airport	AIR072	1.2	Primary Over-Voltage - min	1.3	Reverse Power Flow - max
Airport	AIR073	0.48	Thermal for Gen - min	0.7	Reverse Power Flow - max
Airport	AIR074	1.2	Thermal for Gen - min	1.36	Reverse Power Flow - max
Airport	AIR077	1.2	Primary Over-Voltage - min	1.7	Reverse Power Flow - max
Airport	AIR078	0.21	Reverse Power Flow - min	0.21	Reverse Power Flow - max
Airport	AIR079	1.23	Thermal for Gen - min	1.31	Reverse Power Flow - max
Airport	AIR62X	1.09	Reverse Power Flow - min	1.09	Reverse Power Flow - max
Airport	AIR62Y	0	Reverse Power Flow - min	0	Reverse Power Flow - max
Albany	ALB021	0.3	Primary Over-Voltage - min	1.35	Reverse Power Flow - max
Albany	ALB022	0.3	Primary Over-Voltage - min	0.8	Reverse Power Flow - max
Aldrich	ALD071	0.29	Thermal for Gen - min	0.65	Reverse Power Flow - max
Aldrich	ALD072	0.6	Thermal for Gen - min	1.42	Reverse Power Flow - max
Aldrich	ALD073	0.6	Thermal for Gen - min	1.22	Reverse Power Flow - max
Aldrich	ALD075	0.98	Reverse Power Flow - min	0.98	Reverse Power Flow - max
Aldrich	ALD076	0.2	Primary Over-Voltage - min	0.79	Breaker Relay Reduction of Reach - max
Aldrich	ALD081	0.66	Reverse Power Flow - min	0.66	Reverse Power Flow - max
Aldrich	ALD082	0.96	Thermal for Gen - min	1.6	Reverse Power Flow - max
Aldrich	ALD083	0.17	Thermal for Gen - min	0.57	Breaker Relay Reduction of Reach - max
Aldrich	ALD084	0.96	Thermal for Gen - min	1.3	Reverse Power Flow - max
Aldrich	ALD085	0.6	Thermal for Gen - min	1.92	Reverse Power Flow - max
Aldrich	ALD086	0.5	Primary Over-Voltage - min	1.96	Reverse Power Flow - max
Aldrich	ALD087	0.99	Reverse Power Flow - min	0.99	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Aldrich	ALD088	0.96	Thermal for Gen - min	2.08	Reverse Power Flow - max
Aldrich	ALD091	0.75	Reverse Power Flow - min	0.75	Reverse Power Flow - max
Aldrich	ALD092	0.96	Thermal for Gen - min	2.65	Reverse Power Flow - max
Aldrich	ALD093	0.65	Reverse Power Flow - min	0.65	Reverse Power Flow - max
Aldrich	ALD094	0.26	Thermal for Gen - min	0.79	Reverse Power Flow - max
Aldrich	ALD095	0.96	Thermal for Gen - min	1.15	Reverse Power Flow - max
Aldrich	ALD096	0.5	Primary Over-Voltage - min	1.41	Reverse Power Flow - max
Aldrich	ALD097	0.96	Thermal for Gen - min	1.74	Reverse Power Flow - max
Aldrich	ALD098	0.6	Thermal for Gen - min	1.46	Reverse Power Flow - max
Air Lake	ALK063	0.8	Primary Over-Voltage - min	2.01	Reverse Power Flow - max
Air Lake	ALK064	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Air Lake	ALK067	1.15	Thermal for Gen - min	1.5	Reverse Power Flow - max
Air Lake	ALK072	0.5	Primary Over-Voltage - min	2.05	Reverse Power Flow - max
Air Lake	ALK073	0.82	Thermal for Gen - min	1.89	Reverse Power Flow - max
Altura	ALT021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Annandale	ANN021	0.24	Thermal for Gen - min	2.17	Breaker Relay Reduction of Reach - max
Apache	APA061	0.94	Thermal for Gen - min	1.71	Reverse Power Flow - max
Apache	APA064	1.03	Thermal for Gen - min	1.4	Reverse Power Flow - max
Apache	APA065	0.47	Thermal for Gen - min	1.41	Reverse Power Flow - max
Apache	APA067	0.59	Thermal for Gen - min	1.51	Reverse Power Flow - max
Apache	APA068	0.64	Thermal for Gen - min	1.14	Reverse Power Flow - max
Apache	APA069	0.8	Reverse Power Flow - min	0.8	Reverse Power Flow - max
Apache	APA071	0.63	Thermal for Gen - min	1.52	Reverse Power Flow - max
Apache	APA072	0.7	Primary Over-Voltage - min	1.47	Reverse Power Flow - max
Apache	APA073	0.94	Thermal for Gen - min	1.49	Reverse Power Flow - max
Apache	APA074	1.03	Thermal for Gen - min	1.97	Reverse Power Flow - max
Apache	APA075	0.94	Thermal for Gen - min	1.81	Reverse Power Flow - max
Apache	APA076	0.85	Thermal for Gen - min	1.32	Reverse Power Flow - max
Apache	APA077	1.21	Thermal for Gen - min	1.32	Reverse Power Flow - max
Apache	APA078	0.26	Thermal for Gen - min	1.27	Reverse Power Flow - max
Atwater	ATW061	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Atwater	ATW062	0.1	Primary Over-Voltage - min	0.97	Breaker Relay Reduction of Reach - max
Avon	AVN021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Averill	AVR081	0.12	Thermal for Gen - min	0.31	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Birch	BCH311	0.9	Primary Over-Voltage - min	1.45	Reverse Power Flow - max
Battle Creek	BCK061	3.01	Thermal for Gen - min	3.01	Thermal for Gen - max
Battle Creek	BCK062	0.93	Reverse Power Flow - min	0.93	Reverse Power Flow - max
Battle Creek	BCK071	0	Reverse Power Flow - min	0	Reverse Power Flow - max
Battle Creek	BCK072	0.59	Reverse Power Flow - min	0.59	Reverse Power Flow - max
Battle Creek	BCK073	0.9	Primary Over-Voltage - min	1.1	Reverse Power Flow - max
Battle Creek	BCK074	1.04	Reverse Power Flow - min	1.04	Reverse Power Flow - max
Bassett Creek	BCR061	0.95	Thermal for Gen - min	1.59	Reverse Power Flow - max
Bassett Creek	BCR062	0.98	Thermal for Gen - min	2.13	Reverse Power Flow - max
Bassett Creek	BCR063	0.94	Thermal for Gen - min	2.08	Reverse Power Flow - max
Bassett Creek	BCR081	1.14	Reverse Power Flow - min	1.14	Reverse Power Flow - max
Bassett Creek	BCR082	1.17	Thermal for Gen - min	1.45	Reverse Power Flow - max
Bassett Creek	BCR083	0.97	Thermal for Gen - min	1.2	Reverse Power Flow - max
Belgrade	BEG001	0.1	Primary Over-Voltage - min	0.2	Primary Over-Voltage - max
Becker	BEK021	0.2	Primary Over-Voltage - min	0.2	Primary Over-Voltage - max
Becker	BEK311	0.1	Primary Over-Voltage - min	0.94	Reverse Power Flow - max
Belle Plain	BEL061	0.1	Primary Over-Voltage - min	0.2	Primary Over-Voltage - max
Belle Plain	BEL062	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Buffalo Lake	BFL021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Bird Island	BIS001	0.1	Primary Over-Voltage - min	0.5	Reverse Power Flow - max
Bluff Creek	BLC061	1.2	Primary Over-Voltage - min	1.24	Reverse Power Flow - max
Bluff Creek	BLC062	0.7	Primary Over-Voltage - min	2.19	Reverse Power Flow - max
Bluff Creek	BLC063	1	Primary Over-Voltage - min	1.94	Reverse Power Flow - max
Bluff Creek	BLC071	1.17	Thermal for Gen - min	2.02	Reverse Power Flow - max
Bluff Creek	BLC072	0.9	Primary Over-Voltage - min	1.27	Reverse Power Flow - max
Blue Herron	BLH061	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Blue Herron	BLH062	0.2	Primary Over-Voltage - min	0.35	Reverse Power Flow - max
Blue Lake	BLL062	0.26	Thermal for Gen - min	1.03	Reverse Power Flow - max
Blue Lake	BLL063	0.24	Thermal for Gen - min	1.82	Reverse Power Flow - max
Blue Lake	BLL064	0.5	Reverse Power Flow - min	0.5	Reverse Power Flow - max
Blue Lake	BLL071	0.5	Primary Over-Voltage - min	2.31	Reverse Power Flow - max
Blue Lake	BLL072	0.96	Thermal for Gen - min	1.65	Reverse Power Flow - max
Brooten	BRO021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Brooklyn Park	BRP061	0.83	Reverse Power Flow - min	0.83	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Brooklyn Park	BRP062	0.8	Primary Over-Voltage - min	1.5	Reverse Power Flow - max
Brooklyn Park	BRP063	0.94	Thermal for Gen - min	1.23	Reverse Power Flow - max
Brooklyn Park	BRP071	0.9	Primary Over-Voltage - min	1.36	Reverse Power Flow - max
Brooklyn Park	BRP072	0.94	Thermal for Gen - min	1.38	Reverse Power Flow - max
Brooklyn Park	BRP073	0.94	Thermal for Gen - min	1.78	Reverse Power Flow - max
Brownton	BRW001	0.1	Reverse Power Flow - min	0.1	Reverse Power Flow - max
Butterfield	BTF001	0.07	Thermal for Gen - min	0.15	Reverse Power Flow - max
Burnside	BUR022	0.85	Thermal for Gen - min	1.08	Reverse Power Flow - max
Burnside	BUR023	0.4	Primary Over-Voltage - min	1	Reverse Power Flow - max
Burnside	BUR032	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Baytown	BYT061	0.2	Primary Over-Voltage - min	0.37	Reverse Power Flow - max
Baytown	BYT071	0.35	Reverse Power Flow - min	0.35	Reverse Power Flow - max
Baytown	BYT072	0.63	Reverse Power Flow - min	0.63	Reverse Power Flow - max
Cannon Falls	CAF021	0.57	Reverse Power Flow - min	0.57	Reverse Power Flow - max
Cannon Falls	CAF022	0.32	Thermal for Gen - min	0.57	Reverse Power Flow - max
Cedarvale	CDV061	0.83	Reverse Power Flow - min	0.83	Reverse Power Flow - max
Cedarvale	CDV062	0.87	Reverse Power Flow - min	0.87	Reverse Power Flow - max
Cedarvale	CDV063	0.8	Primary Over-Voltage - min	0.84	Reverse Power Flow - max
Cedarvale	CDV071	0.97	Thermal for Gen - min	1.77	Reverse Power Flow - max
Cedarvale	CDV072	0.6	Thermal for Gen - min	1.93	Reverse Power Flow - max
Cedar Lake	CEL061	1.17	Thermal for Gen - min	1.39	Reverse Power Flow - max
Cedar Lake	CEL062	0.94	Thermal for Gen - min	1.12	Reverse Power Flow - max
Cedar Lake	CEL063	1.09	Reverse Power Flow - min	1.09	Reverse Power Flow - max
Cedar Lake	CEL064	0.9	Primary Over-Voltage - min	1.51	Reverse Power Flow - max
Cedar Lake	CEL066	0.94	Thermal for Gen - min	1.02	Reverse Power Flow - max
Cedar Lake	CEL071	1.29	Thermal for Gen - min	1.87	Reverse Power Flow - max
Cedar Lake	CEL072	0.95	Thermal for Gen - min	0.95	Reverse Power Flow - max
Cedar Lake	CEL075	1.06	Reverse Power Flow - min	1.06	Reverse Power Flow - max
Cottage Grove	CGR061	0.5	Primary Over-Voltage - min	2.71	Reverse Power Flow - max
Cottage Grove	CGR062	0.94	Thermal for Gen - min	2.62	Reverse Power Flow - max
Cottage Grove	CGR063	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Cottage Grove	CGR064	1	Primary Over-Voltage - min	1.8	Reverse Power Flow - max
Cottage Grove	CGR071	0.58	Reverse Power Flow - min	0.58	Reverse Power Flow - max
Cottage Grove	CGR072	0.94	Thermal for Gen - min	2.21	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Cottage Grove	CGR073	2.26	Reverse Power Flow - min	2.26	Reverse Power Flow - max
Cottage Grove	CGR074	1	Primary Over-Voltage - min	1.41	Reverse Power Flow - max
Chemolite	CHE063	0.13	Thermal for Gen - min	1.81	Reverse Power Flow - max
Chemolite	CHE064	0.6	Thermal for Gen - min	1.27	Reverse Power Flow - max
Chemolite	CHE075	0.4	Primary Over-Voltage - min	1.44	Reverse Power Flow - max
Chemolite	CHE076	0.7	Primary Over-Voltage - min	1.78	Reverse Power Flow - max
Chisago County	CHI311	0.2	Primary Over-Voltage - min	1.24	Breaker Relay Reduction of Reach - max
Clarks Grove	CKG041	0.1	Primary Over-Voltage - min	0.39	Reverse Power Flow - max
Clara City	CLC022	0.4	Primary Over-Voltage - min	0.57	Primary Over-Voltage - max
Clara City	CLC221	0.2	Primary Over-Voltage - min	0.85	Primary Over-Voltage - max
Coon Creek	CNC061	0.6	Primary Over-Voltage - min	1	Reverse Power Flow - max
Coon Creek	CNC062	1.17	Thermal for Gen - min	1.59	Reverse Power Flow - max
Coon Creek	CNC063	0.94	Thermal for Gen - min	1.49	Reverse Power Flow - max
Coon Creek	CNC071	0.94	Thermal for Gen - min	1.03	Reverse Power Flow - max
Coon Creek	CNC072	1.17	Thermal for Gen - min	1.58	Reverse Power Flow - max
Coon Creek	CNC073	0.9	Primary Over-Voltage - min	1.94	Reverse Power Flow - max
Cokato	COK061	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Crystal Foods	CRF061	0.28	Reverse Power Flow - min	0.28	Reverse Power Flow - max
Crystal Foods	CRF062	0.28	Thermal for Gen - min	1.81	Reverse Power Flow - max
Crooked Lake	CRL027	0.4	Primary Over-Voltage - min	1.8	Reverse Power Flow - max
Crooked Lake	CRL031	0.53	Thermal for Gen - min	1.23	Reverse Power Flow - max
Crooked Lake	CRL033	1.38	Thermal for Gen - min	1.82	Reverse Power Flow - max
Crooked Lake	CRL065	1.2	Primary Over-Voltage - min	1.24	Reverse Power Flow - max
Castle Rock	CSR001	0.1	Reverse Power Flow - min	0.1	Reverse Power Flow - max
nnon Falls Transmiss	CTF021	0.2	Primary Over-Voltage - min	0.92	Reverse Power Flow - max
nnon Falls Transmiss	CTF022	0.22	Thermal for Gen - min	1.25	Reverse Power Flow - max
Credit River	CTR021	0.85	Thermal for Gen - min	1	Reverse Power Flow - max
Credit River	CTR022	0.7	Reverse Power Flow - min	0.7	Reverse Power Flow - max
Credit River	CTR031	0.5	Primary Over-Voltage - min	2.29	Reverse Power Flow - max
Danube	DAN021	0.2	Primary Over-Voltage - min	0.5	Reverse Power Flow - max
Dassel	DAS061	0.2	Primary Over-Voltage - min	0.21	Reverse Power Flow - max
Dayton's Bluff	DBL060	0.3	Primary Over-Voltage - min	0.97	Breaker Relay Reduction of Reach - max
Dayton's Bluff	DBL061	0.27	Thermal for Gen - min	1.97	Reverse Power Flow - max
Dayton's Bluff	DBL062	1.07	Thermal for Gen - min	1.78	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Dayton's Bluff	DBL063	0.72	Thermal for Gen - min	1.44	Reverse Power Flow - max
Dayton's Bluff	DBL064	0.26	Thermal for Gen - min	1.21	Reverse Power Flow - max
Dayton's Bluff	DBL065	0.96	Thermal for Gen - min	1.44	Reverse Power Flow - max
Dayton's Bluff	DBL066	0.3	Primary Over-Voltage - min	0.66	Reverse Power Flow - max
Dayton's Bluff	DBL067	0.6	Thermal for Gen - min	1.7	Reverse Power Flow - max
Dayton's Bluff	DBL068	0.6	Primary Over-Voltage - min	1.7	Reverse Power Flow - max
Dayton's Bluff	DBL069	0.65	Thermal for Gen - min	2.11	Reverse Power Flow - max
Dayton's Bluff	DBL072	0.94	Reverse Power Flow - min	0.94	Reverse Power Flow - max
Dayton's Bluff	DBL073	0.6	Thermal for Gen - min	1.35	Reverse Power Flow - max
Dayton's Bluff	DBL074	0.92	Reverse Power Flow - min	0.92	Reverse Power Flow - max
Dayton's Bluff	DBL081	0.27	Thermal for Gen - min	1.1	Reverse Power Flow - max
Dayton's Bluff	DBL082	0.6	Reverse Power Flow - min	0.6	Reverse Power Flow - max
Douglas County	DGC061	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Dahlgren	DHL061	0.36	Thermal for Gen - min	1.26	Reverse Power Flow - max
Delano	DLO021	0.15	Reverse Power Flow - min	0.15	Reverse Power Flow - max
Dundas	DND061	0.58	Thermal for Gen - min	0.9	Reverse Power Flow - max
Dundas	DND062	0.28	Thermal for Gen - min	0.98	Reverse Power Flow - max
Dundas	DND071	0.24	Thermal for Gen - min	1.9	Reverse Power Flow - max
Dundas	DND072	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Dodge Center	DOC021	0.34	Thermal for Gen - min	1.7	Reverse Power Flow - max
Dodge Center	DOC031	0.2	Primary Over-Voltage - min	1.28	Reverse Power Flow - max
Dodge Center	DOC211	0.13	Thermal for Gen - min	0.82	Breaker Relay Reduction of Reach - max
Deephaven	DPN061	0.87	Reverse Power Flow - min	0.87	Reverse Power Flow - max
Deephaven	DPN062	1	Thermal for Gen - min	1.96	Reverse Power Flow - max
Deephaven	DPN063	0.94	Thermal for Gen - min	1.32	Reverse Power Flow - max
Deephaven	DPN071	0.95	Thermal for Gen - min	1.27	Reverse Power Flow - max
Deephaven	DPN072	0.94	Thermal for Gen - min	1.59	Reverse Power Flow - max
Deephaven	DPN073	0.9	Primary Over-Voltage - min	1.74	Reverse Power Flow - max
East Bloomington	EBL062	1.17	Thermal for Gen - min	1.6	Reverse Power Flow - max
East Bloomington	EBL063	0.48	Reverse Power Flow - min	0.48	Reverse Power Flow - max
East Bloomington	EBL064	1.09	Reverse Power Flow - min	1.09	Reverse Power Flow - max
East Bloomington	EBL065	0.87	Reverse Power Flow - min	0.87	Reverse Power Flow - max
East Bloomington	EBL066	1.01	Reverse Power Flow - min	1.01	Reverse Power Flow - max
East Bloomington	EBL067	0.87	Reverse Power Flow - min	0.87	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
East Bloomington	EBL071	0.26	Thermal for Gen - min	0.85	Reverse Power Flow - max
East Bloomington	EBL072	1.17	Thermal for Gen - min	1.56	Reverse Power Flow - max
East Bloomington	EBL073	0.39	Reverse Power Flow - min	0.39	Reverse Power Flow - max
East Bloomington	EBL074	1.52	Reverse Power Flow - min	1.52	Reverse Power Flow - max
East Bloomington	EBL075	0.87	Reverse Power Flow - min	0.87	Reverse Power Flow - max
East Bloomington	EBL076	0.68	Reverse Power Flow - min	0.68	Reverse Power Flow - max
East Bloomington	EBL077	1.08	Reverse Power Flow - min	1.08	Reverse Power Flow - max
East Bloomington	EBL081	0.54	Reverse Power Flow - min	0.54	Reverse Power Flow - max
East Bloomington	EBL082	0.7	Primary Over-Voltage - min	0.84	Reverse Power Flow - max
East Bloomington	EBL083	0.41	Reverse Power Flow - min	0.41	Reverse Power Flow - max
East Bloomington	EBL084	0.6	Primary Over-Voltage - min	1.12	Reverse Power Flow - max
East Bloomington	EBL085	0.87	Reverse Power Flow - min	0.87	Reverse Power Flow - max
East Bloomington	EBL087	0.66	Reverse Power Flow - min	0.66	Reverse Power Flow - max
Elm Creek	ECK061	1	Primary Over-Voltage - min	1.57	Reverse Power Flow - max
Elm Creek	ECK062	1.2	Primary Over-Voltage - min	1.4	Reverse Power Flow - max
Elm Creek	ECK063	1	Primary Over-Voltage - min	2.34	Reverse Power Flow - max
Elm Creek	ECK081	0.62	Reverse Power Flow - min	0.62	Reverse Power Flow - max
Elm Creek	ECK082	0.9	Primary Over-Voltage - min	1.46	Reverse Power Flow - max
Elm Creek	ECK321	0.3	Primary Over-Voltage - min	4.56	Reverse Power Flow - max
Elm Creek	ECK322	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Edina	EDA061	0.8	Primary Over-Voltage - min	1.07	Reverse Power Flow - max
Edina	EDA062	1.2	Thermal for Gen - min	2.05	Reverse Power Flow - max
Edina	EDA065	1.2	Primary Over-Voltage - min	1.42	Reverse Power Flow - max
Edina	EDA066	1.1	Primary Over-Voltage - min	1.22	Reverse Power Flow - max
Edina	EDA067	0.17	Thermal for Gen - min	0.52	Breaker Relay Reduction of Reach - max
Edina	EDA068	0.96	Thermal for Gen - min	1.28	Reverse Power Flow - max
Edina	EDA069	0.75	Reverse Power Flow - min	0.75	Reverse Power Flow - max
Edina	EDA071	1.04	Thermal for Gen - min	1.21	Reverse Power Flow - max
Edina	EDA072	1.2	Thermal for Gen - min	1.83	Reverse Power Flow - max
Edina	EDA073	0.6	Thermal for Gen - min	2.08	Reverse Power Flow - max
Edina	EDA074	1	Primary Over-Voltage - min	1.32	Reverse Power Flow - max
Edina	EDA075	1	Primary Over-Voltage - min	1.72	Reverse Power Flow - max
Edina	EDA076	0.65	Reverse Power Flow - min	0.65	Reverse Power Flow - max
Edina	EDA077	1.03	Reverse Power Flow - min	1.03	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Edina	EDA078	0.97	Thermal for Gen - min	1.19	Reverse Power Flow - max
Edina	EDA079	1.2	Thermal for Gen - min	1.26	Reverse Power Flow - max
Edina	EDA081	0.6	Thermal for Gen - min	0.88	Reverse Power Flow - max
Edina	EDA082	1.1	Primary Over-Voltage - min	1.25	Reverse Power Flow - max
Edina	EDA083	1.28	Reverse Power Flow - min	1.28	Reverse Power Flow - max
Edina	EDA084	1	Thermal for Gen - min	1.49	Reverse Power Flow - max
Edina	EDA085	0.26	Thermal for Gen - min	0.48	Reverse Power Flow - max
Edina	EDA087	0.99	Thermal for Gen - min	1.55	Reverse Power Flow - max
Edina	EDA088	1.1	Primary Over-Voltage - min	1.17	Reverse Power Flow - max
Edina	EDA089	0.7	Primary Over-Voltage - min	1.1	Reverse Power Flow - max
Eden Prarie	EDP062	1.3	Primary Over-Voltage - min	1.83	Reverse Power Flow - max
Eden Prarie	EDP063	1.2	Thermal for Gen - min	1.42	Reverse Power Flow - max
Eden Prarie	EDP071	1	Primary Over-Voltage - min	1.12	Reverse Power Flow - max
Eden Prarie	EDP072	0.65	Reverse Power Flow - min	0.65	Reverse Power Flow - max
Eden Prarie	EDP073	1	Primary Over-Voltage - min	1.85	Reverse Power Flow - max
Eden Prarie	EDP081	0.05	Reverse Power Flow - min	0.05	Reverse Power Flow - max
Eden Prarie	EDP082	1.1	Primary Over-Voltage - min	1.17	Reverse Power Flow - max
Eden Prarie	EDP083	1.2	Primary Over-Voltage - min	1.36	Reverse Power Flow - max
Eden Prarie	EDP084	0.47	Reverse Power Flow - min	0.47	Reverse Power Flow - max
Eden Prarie	EDP085	1.12	Reverse Power Flow - min	1.12	Reverse Power Flow - max
Eden Prarie	EDP091	0.6	Primary Over-Voltage - min	0.84	Reverse Power Flow - max
Eden Prarie	EDP092	1.1	Primary Over-Voltage - min	1.25	Reverse Power Flow - max
Eden Prarie	EDP093	1.2	Primary Over-Voltage - min	1.64	Reverse Power Flow - max
Eden Prarie	EDP094	1.2	Thermal for Gen - min	1.46	Reverse Power Flow - max
Eden Prarie	EDP095	1.2	Primary Over-Voltage - min	1.3	Reverse Power Flow - max
Eagle Lake	EGL021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Eagle Lake	EGL022	0.32	Thermal for Gen - min	0.54	Reverse Power Flow - max
Elko	EKO021	0.4	Primary Over-Voltage - min	0.86	Reverse Power Flow - max
Elliott Park	ELP061	0.94	Thermal for Gen - min	2.02	Reverse Power Flow - max
Elliott Park	ELP062	0.59	Thermal for Gen - min	1.65	Reverse Power Flow - max
Elliott Park	ELP063	0.94	Thermal for Gen - min	1.45	Reverse Power Flow - max
Elliott Park	ELP064	0.78	Thermal for Gen - min	0.99	Reverse Power Flow - max
Elliott Park	ELP071	0.94	Thermal for Gen - min	1.59	Reverse Power Flow - max
Elliott Park	ELP072	0.72	Reverse Power Flow - min	0.72	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Elliott Park	ELP073	0.64	Reverse Power Flow - min	0.64	Reverse Power Flow - max
Elliott Park	ELP074	0.93	Thermal for Gen - min	1.43	Reverse Power Flow - max
Elliott Park	ELP075	0.53	Reverse Power Flow - min	0.53	Reverse Power Flow - max
Elliott Park	ELP081	1.17	Thermal for Gen - min	1.76	Reverse Power Flow - max
Elliott Park	ELP082	0.59	Thermal for Gen - min	1.99	Reverse Power Flow - max
Elliott Park	ELP083	1.21	Reverse Power Flow - min	1.21	Reverse Power Flow - max
Elliott Park	ELP084	0.94	Thermal for Gen - min	1.98	Reverse Power Flow - max
Elliott Park	ELP085	0	Reverse Power Flow - min	0	Reverse Power Flow - max
Elliott Park	ELP086X	1.17	Thermal for Gen - min	1.4	Reverse Power Flow - max
Elliott Park	ELP086Y	0.26	Thermal for Gen - min	1	Reverse Power Flow - max
Essig	ESG001	0.05	Reverse Power Flow - min	0.05	Reverse Power Flow - max
Eastwood	ESW061	0.35	Thermal for Gen - min	2.07	Reverse Power Flow - max
Eastwood	ESW062	0.47	Thermal for Gen - min	2.17	Reverse Power Flow - max
Eastwood	ESW063	0.44	Reverse Power Flow - min	0.44	Reverse Power Flow - max
Eastwood	ESW071	0.94	Thermal for Gen - min	1.07	Reverse Power Flow - max
Eastwood	ESW072	0.26	Thermal for Gen - min	1.71	Reverse Power Flow - max
Eastwood	ESW073	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Eastwood	ESW081	1.19	Thermal for Gen - min	1.53	Reverse Power Flow - max
Eastwood	ESW082	0.03	Additional Element Fault Current - min	0.34	Reverse Power Flow - max
East Winona	EWI022	0.42	Thermal for Gen - min	1.78	Reverse Power Flow - max
Excelsior	EXC061	0.96	Thermal for Gen - min	1.11	Reverse Power Flow - max
Excelsior	EXC062	0.58	Thermal for Gen - min	1.4	Reverse Power Flow - max
Faribault	FAB061	0.58	Thermal for Gen - min	1.18	Reverse Power Flow - max
Faribault	FAB063	0.2	Primary Over-Voltage - min	1.59	Reverse Power Flow - max
Faribault	FAB071	0.23	Thermal for Gen - min	1.49	Reverse Power Flow - max
Faribault	FAB073	0.28	Thermal for Gen - min	0.85	Reverse Power Flow - max
Fair Park	FAP061	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Fair Park	FAP071	0.35	Thermal for Gen - min	3.25	Reverse Power Flow - max
Fiesta City	FIC021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Fiesta City	FIC022	0.64	Thermal for Gen - min	0.8	Reverse Power Flow - max
Fiesta City	FIC031	0.2	Primary Over-Voltage - min	1.12	Reverse Power Flow - max
Franklin	FRA001	0.1	Primary Over-Voltage - min	0.17	Reverse Power Flow - max
Franklin	FRA211	0.31	Reverse Power Flow - min	0.31	Reverse Power Flow - max
Farmington	FRM061	0.39	Reverse Power Flow - min	0.39	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Farmington	FRM062	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Farmington	FRM071	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Frontenac	FRO021	0.4	Primary Over-Voltage - min	0.64	Reverse Power Flow - max
First Lake	FSL311	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
First Lake	FSL312	0.1	Primary Over-Voltage - min	1.36	Breaker Relay Reduction of Reach - max
Fifth Street	FST067	0.91	Reverse Power Flow - min	0.91	Reverse Power Flow - max
Fifth Street	FST068	0.77	Reverse Power Flow - min	0.77	Reverse Power Flow - max
Fifth Street	FST077	0.85	Reverse Power Flow - min	0.85	Reverse Power Flow - max
Fifth Street	FST078	0.98	Reverse Power Flow - min	0.98	Reverse Power Flow - max
Fifth Street	FST085	0.7	Reverse Power Flow - min	0.7	Reverse Power Flow - max
Fifth Street	FST086	0.38	Reverse Power Flow - min	0.38	Reverse Power Flow - max
Fifth Street	FST087	1.17	Thermal for Gen - min	1.5	Reverse Power Flow - max
Fifth Street	FST088	0.58	Reverse Power Flow - min	0.58	Reverse Power Flow - max
Gaylord	GAY001	0.2	Primary Over-Voltage - min	0.26	Reverse Power Flow - max
Gaylord	GAY002	0.09	Thermal for Gen - min	0.43	Reverse Power Flow - max
Gaylord	GAY003	0.2	Primary Over-Voltage - min	0.32	Reverse Power Flow - max
Greenfield	GFD021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Greenfield	GFD022	0.32	Thermal for Gen - min	0.53	Reverse Power Flow - max
Gibbon	GIB021	0.33	Thermal for Gen - min	0.39	Reverse Power Flow - max
Glenwood	GLD021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Glenwood	GLD031	0.2	Primary Over-Voltage - min	1	Primary Over-Voltage - max
Goose Lake	GLK061	0.8	Primary Over-Voltage - min	2.34	Reverse Power Flow - max
Goose Lake	GLK062	0.9	Primary Over-Voltage - min	2.02	Reverse Power Flow - max
Goose Lake	GLK063	0.94	Thermal for Gen - min	1.47	Reverse Power Flow - max
Goose Lake	GLK064	0.94	Thermal for Gen - min	1.65	Reverse Power Flow - max
Goose Lake	GLK065	0.9	Primary Over-Voltage - min	1.19	Reverse Power Flow - max
Goose Lake	GLK071	0.94	Thermal for Gen - min	2.17	Reverse Power Flow - max
Goose Lake	GLK072	0.94	Thermal for Gen - min	1.72	Reverse Power Flow - max
Goose Lake	GLK073	0.62	Thermal for Gen - min	1.74	Reverse Power Flow - max
Goose Lake	GLK074	0.2	Primary Over-Voltage - min	1.59	Breaker Relay Reduction of Reach - max
Glen Lake	GNL061	1.08	Reverse Power Flow - min	1.08	Reverse Power Flow - max
Glen Lake	GNL062	0.8	Primary Over-Voltage - min	1.42	Reverse Power Flow - max
Glen Lake	GNL063	0.7	Primary Over-Voltage - min	1.23	Reverse Power Flow - max
Glen Lake	GNL071	0.59	Thermal for Gen - min	1.26	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Glen Lake	GNL072	0.94	Thermal for Gen - min	1.61	Reverse Power Flow - max
Glen Lake	GNL073	1.01	Reverse Power Flow - min	1.01	Reverse Power Flow - max
Gopher	GPH061	0.94	Thermal for Gen - min	1.28	Reverse Power Flow - max
Gopher	GPH062	0.94	Thermal for Gen - min	1.8	Reverse Power Flow - max
Gopher	GPH068	2.62	Reverse Power Flow - min	2.62	Reverse Power Flow - max
Gopher	GPH069	1.68	Reverse Power Flow - min	1.68	Reverse Power Flow - max
Gopher	GPH073	0.32	Thermal for Gen - min	1.16	Reverse Power Flow - max
Gopher	GPH074	1.35	Reverse Power Flow - min	1.35	Reverse Power Flow - max
Gopher	GPH075	1.87	Reverse Power Flow - min	1.87	Reverse Power Flow - max
Gopher	GPH079	1.62	Reverse Power Flow - min	1.62	Reverse Power Flow - max
Granite City	GRC062	0.9	Primary Over-Voltage - min	1.79	Reverse Power Flow - max
Granite City	GRC063	0.77	Thermal for Gen - min	1.78	Reverse Power Flow - max
Granite City	GRC073	0.2	Primary Over-Voltage - min	1.65	Reverse Power Flow - max
Granite City	GRC311	0	Reverse Power Flow - min	0	Reverse Power Flow - max
Granite City	GRC312	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Granite City	GRC313	0.4	Primary Over-Voltage - min	1.4	Reverse Power Flow - max
Green Isle	GRI001	0.18	Thermal for Gen - min	0.21	Reverse Power Flow - max
Gleason Lake	GSL061	1.08	Reverse Power Flow - min	1.08	Reverse Power Flow - max
Gleason Lake	GSL064	0.6	Thermal for Gen - min	1.52	Reverse Power Flow - max
Gleason Lake	GSL065	0.5	Primary Over-Voltage - min	1.59	Breaker Relay Reduction of Reach - max
Gleason Lake	GSL074	0.6	Thermal for Gen - min	1.62	Reverse Power Flow - max
Gleason Lake	GSL075	0.96	Thermal for Gen - min	1.38	Reverse Power Flow - max
Gleason Lake	GSL076	1.1	Primary Over-Voltage - min	1.43	Reverse Power Flow - max
Gleason Lake	GSL079	0.96	Thermal for Gen - min	1.44	Reverse Power Flow - max
Gleason Lake	GSL341	0.2	Primary Over-Voltage - min	1.06	Breaker Relay Reduction of Reach - max
Gleason Lake	GSL342	1.5	Primary Over-Voltage - min	6.1	Reverse Power Flow - max
Goodview	GVW021	0.14	Thermal for Gen - min	1.57	Reverse Power Flow - max
Goodview	GVW022	0.26	Thermal for Gen - min	1.92	Reverse Power Flow - max
Goodview	GVW023	0.27	Thermal for Gen - min	1.82	Reverse Power Flow - max
Goodview	GVW031	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Goodview	GVW032	0.22	Thermal for Gen - min	1.9	Reverse Power Flow - max
Hadley	HAD021	0.18	Reverse Power Flow - min	0.18	Reverse Power Flow - max
Hadley	HAD022	0.17	Reverse Power Flow - min	0.17	Reverse Power Flow - max
Hastings	HAS021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Hastings	HAS022	0.34	Thermal for Gen - min	1.96	Reverse Power Flow - max
Hastings	HAS023	0.85	Thermal for Gen - min	1.63	Reverse Power Flow - max
Hastings	HAS031	0.58	Reverse Power Flow - min	0.58	Reverse Power Flow - max
Hastings	HAS032	0.7	Primary Over-Voltage - min	0.81	Reverse Power Flow - max
Hastings	HAS033	0.73	Reverse Power Flow - min	0.73	Reverse Power Flow - max
Hector	HEC001	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Henderson	HEN021	0.21	Thermal for Gen - min	0.32	Reverse Power Flow - max
Hollydale	HOL061	0.7	Primary Over-Voltage - min	1.39	Reverse Power Flow - max
Hollydale	HOL062	0.7	Primary Over-Voltage - min	1.97	Reverse Power Flow - max
Howard Lake	HOW061	0.5	Primary Over-Voltage - min	1.32	Reverse Power Flow - max
Hassan	HSN311	0.3	Primary Over-Voltage - min	2.75	Breaker Relay Reduction of Reach - max
Hassan	HSN312	0.1	Primary Over-Voltage - min	3.31	Breaker Relay Reduction of Reach - max
Hassan	HSN321	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Hassan	HSN322	1.4	Primary Over-Voltage - min	4.58	Reverse Power Flow - max
Hugo	HUG311	0.1	Primary Over-Voltage - min	0.89	Breaker Relay Reduction of Reach - max
Hugo	HUG312	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Hugo	HUG321	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Hugo	HUG322	1.5	Primary Over-Voltage - min	2.23	Primary Over-Voltage - max
Hiawatha West	HWW061	0.3	Primary Over-Voltage - min	0.56	Reverse Power Flow - max
Hiawatha West	HWW062	0.94	Thermal for Gen - min	1.45	Reverse Power Flow - max
Hiawatha West	HWW071	0.94	Thermal for Gen - min	2.57	Reverse Power Flow - max
Hiawatha West	HWW072	0.94	Thermal for Gen - min	1.37	Reverse Power Flow - max
Hiawatha West	HWW073	0.61	Thermal for Gen - min	0.86	Reverse Power Flow - max
Hiawatha West	HWW074	1	Thermal for Gen - min	1.39	Reverse Power Flow - max
Hiawatha West	HWW075	0.26	Thermal for Gen - min	2.18	Reverse Power Flow - max
Hyland Lake	HYL061	1.2	Primary Over-Voltage - min	1.81	Reverse Power Flow - max
Hyland Lake	HYL062	1.03	Thermal for Gen - min	1.49	Reverse Power Flow - max
Hyland Lake	HYL063	0.4	Primary Over-Voltage - min	1	Reverse Power Flow - max
Hyland Lake	HYL064	0.6	Primary Over-Voltage - min	2.65	Reverse Power Flow - max
Hyland Lake	HYL065	1.18	Thermal for Gen - min	2.25	Reverse Power Flow - max
Hyland Lake	HYL071	0.25	Reverse Power Flow - min	0.25	Reverse Power Flow - max
Hyland Lake	HYL072	0.9	Primary Over-Voltage - min	1.4	Reverse Power Flow - max
Hyland Lake	HYL073	0.94	Thermal for Gen - min	1.53	Reverse Power Flow - max
Hyland Lake	HYL074	0.61	Thermal for Gen - min	1.41	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Hyland Lake	HYL075	0.8	Primary Over-Voltage - min	1.32	Reverse Power Flow - max
Indiana	IDA061	0.58	Reverse Power Flow - min	0.58	Reverse Power Flow - max
Indiana	IDA062	0.9	Reverse Power Flow - min	0.9	Reverse Power Flow - max
Indiana	IDA063	1.17	Thermal for Gen - min	1.4	Reverse Power Flow - max
Indiana	IDA064	0.94	Thermal for Gen - min	1.6	Reverse Power Flow - max
Indiana	IDA071	1.06	Reverse Power Flow - min	1.06	Reverse Power Flow - max
Indiana	IDA072	0.95	Thermal for Gen - min	1.55	Reverse Power Flow - max
Indiana	IDA073	0.94	Thermal for Gen - min	1.22	Reverse Power Flow - max
Indiana	IDA074	0.94	Thermal for Gen - min	1.73	Reverse Power Flow - max
Jordan	JOR021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Jordan	JOR022	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Kasson	KAN022	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Kasson	KAN031	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Kenyon	KEN021	0.1	Primary Over-Voltage - min	0.22	Reverse Power Flow - max
Kenyon	KEN022	0	Reverse Power Flow - min	0	Reverse Power Flow - max
Kimball	KIM021	0.47	Reverse Power Flow - min	0.47	Reverse Power Flow - max
Kegan Lake	KLK061	0.58	Thermal for Gen - min	1.03	Reverse Power Flow - max
Kohlman Lake	KOL061	0.59	Thermal for Gen - min	0.73	Reverse Power Flow - max
Kohlman Lake	KOL062	1.52	Thermal for Gen - min	1.76	Reverse Power Flow - max
Kohlman Lake	KOL063	0.76	Reverse Power Flow - min	0.76	Reverse Power Flow - max
Kohlman Lake	KOL064	1.32	Thermal for Gen - min	1.47	Reverse Power Flow - max
Kohlman Lake	KOL065	1.17	Thermal for Gen - min	1.6	Reverse Power Flow - max
Kohlman Lake	KOL071	0.92	Reverse Power Flow - min	0.92	Reverse Power Flow - max
Kohlman Lake	KOL073	0.5	Primary Over-Voltage - min	0.9	Primary Over-Voltage - max
Kohlman Lake	KOL074	0.94	Thermal for Gen - min	1.28	Reverse Power Flow - max
Lake Bavaria	LAB311	0.6	Primary Over-Voltage - min	1.94	Reverse Power Flow - max
Lake Bavaria	LAB312	0.37	Thermal for Gen - min	1.56	Breaker Relay Reduction of Reach - max
La Crescant	LAC062	0.16	Thermal for Gen - min	1.47	Reverse Power Flow - max
La Crescant	LAC063	0.14	Thermal for Gen - min	0.86	Reverse Power Flow - max
Lake Emily	LAE061	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Lafayette	LAF001	0.1	Primary Over-Voltage - min	0.19	Reverse Power Flow - max
Lake City	LAK032	0.3	Primary Over-Voltage - min	0.34	Reverse Power Flow - max
Lake Pulaski	LAP311	0.1	Primary Over-Voltage - min	0.53	Breaker Relay Reduction of Reach - max
Lake Yankton	LAY061	0.2	Primary Over-Voltage - min	0.37	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Lawrence Creek	LCR311	0	Reverse Power Flow - min	0	Reverse Power Flow - max
Lexington	LEX061	0.96	Thermal for Gen - min	1.54	Reverse Power Flow - max
Lexington	LEX062	0.97	Reverse Power Flow - min	0.97	Reverse Power Flow - max
Lexington	LEX063	0.48	Thermal for Gen - min	1.66	Reverse Power Flow - max
Lexington	LEX064	0.96	Thermal for Gen - min	1.64	Reverse Power Flow - max
Lexington	LEX065	0.97	Thermal for Gen - min	1.12	Reverse Power Flow - max
Lexington	LEX071	1.33	Thermal for Gen - min	1.83	Reverse Power Flow - max
Lexington	LEX072	0.79	Reverse Power Flow - min	0.79	Reverse Power Flow - max
Lexington	LEX073	0.6	Reverse Power Flow - min	0.6	Reverse Power Flow - max
Lexington	LEX074	0.9	Primary Over-Voltage - min	1.6	Reverse Power Flow - max
Lexington	LEX075	0.96	Thermal for Gen - min	1.33	Reverse Power Flow - max
Lexington	LEX331	0.29	Thermal for Gen - min	0.83	Breaker Relay Reduction of Reach - max
Lexington	LEX332	1.49	Thermal for Gen - min	4.71	Reverse Power Flow - max
Lexington	LEX333	0.3	Primary Over-Voltage - min	1.68	Primary Over-Voltage - max
Lake Lillian	LIL021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Lindstrom	LIN022	0.53	Thermal for Gen - min	1.3	Reverse Power Flow - max
Lindstrom	LIN031	0.1	Primary Over-Voltage - min	2.24	Primary Over-Voltage - max
Long Lake	LLK061	0.96	Thermal for Gen - min	1.38	Reverse Power Flow - max
Long Lake	LLK063	0.94	Thermal for Gen - min	1.41	Reverse Power Flow - max
Long Lake	LLK071	0.26	Reverse Power Flow - min	1.96	Reverse Power Flow - max
Long Lake	LLK072	0.8	Primary Over-Voltage - min	1.82	Reverse Power Flow - max
Linn Street	LNS021	0.1	Primary Over-Voltage - min	0.74	Reverse Power Flow - max
Linn Street	LNS022	0.03	Reverse Power Flow - min	0.03	Reverse Power Flow - max
Linn Street	LNS032	0.61	Reverse Power Flow - min	0.61	Reverse Power Flow - max
Linn Street	LNS033	0.5	Primary Over-Voltage - min	0.61	Reverse Power Flow - max
Lone Oak	LOK061	1	Primary Over-Voltage - min	1.4	Reverse Power Flow - max
Lone Oak	LOK062	0.5	Primary Over-Voltage - min	2.48	Reverse Power Flow - max
Lone Oak	LOK063	0.42	Reverse Power Flow - min	0.42	Reverse Power Flow - max
Lone Oak	LOK081	0.96	Thermal for Gen - min	1.79	Reverse Power Flow - max
Lone Oak	LOK082	0.96	Thermal for Gen - min	1.11	Reverse Power Flow - max
Lone Oak	LOK083	1.1	Primary Over-Voltage - min	2.35	Reverse Power Flow - max
Lone Oak	LOK091	1.3	Primary Over-Voltage - min	1.53	Reverse Power Flow - max
Lone Oak	LOK092	1.48	Reverse Power Flow - min	1.48	Reverse Power Flow - max
Lone Oak	LOK093	0.48	Thermal for Gen - min	1.99	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Lowry	LOW021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Lester Prarie	LSP021	0.24	Thermal for Gen - min	1.08	Breaker Relay Reduction of Reach - max
Lester Prarie	LSP022	0.2	Primary Over-Voltage - min	0.59	Reverse Power Flow - max
Maple Lake	MAP061	0.1	Primary Over-Voltage - min	0.82	Primary Over-Voltage - max
Mazeppa	MAZ021	0.1	Primary Over-Voltage - min	0.48	Reverse Power Flow - max
Medford Junction	MDF021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Midtown	MDT061	0.94	Thermal for Gen - min	1.46	Reverse Power Flow - max
Midtown	MDT062	0.94	Thermal for Gen - min	1.43	Reverse Power Flow - max
Midtown	MDT067	0.94	Thermal for Gen - min	1.74	Reverse Power Flow - max
Midtown	MDT071	0.65	Reverse Power Flow - min	0.65	Reverse Power Flow - max
Midtown	MDT073	0.94	Thermal for Gen - min	1.4	Reverse Power Flow - max
Midtown	MDT074	0.96	Thermal for Gen - min	1.03	Reverse Power Flow - max
Midtown	MDT077	1.17	Thermal for Gen - min	1.52	Reverse Power Flow - max
Meire Grove	MEI021	0.1	Primary Over-Voltage - min	0.22	Reverse Power Flow - max
Meeker	MEK021	0.1	Reverse Power Flow - min	0.1	Reverse Power Flow - min
Medicine Lake	MEL061	0.85	Reverse Power Flow - min	0.85	Reverse Power Flow - max
Medicine Lake	MEL062	0.9	Primary Over-Voltage - min	1.07	Reverse Power Flow - max
Medicine Lake	MEL063	0.3	Reverse Power Flow - min	0.3	Reverse Power Flow - max
Medicine Lake	MEL064	0.94	Thermal for Gen - min	1.62	Reverse Power Flow - max
Medicine Lake	MEL065	0.54	Reverse Power Flow - min	0.54	Reverse Power Flow - max
Medicine Lake	MEL066	0.43	Reverse Power Flow - min	0.43	Reverse Power Flow - max
Medicine Lake	MEL067	0.94	Thermal for Gen - min	1.14	Reverse Power Flow - max
Medicine Lake	MEL068	0.94	Thermal for Gen - min	1.6	Reverse Power Flow - max
Medicine Lake	MEL069	1.07	Thermal for Gen - min	1.87	Reverse Power Flow - max
Medicine Lake	MEL071	0.98	Thermal for Gen - min	1.29	Reverse Power Flow - max
Medicine Lake	MEL072	0.59	Thermal for Gen - min	1.52	Reverse Power Flow - max
Medicine Lake	MEL073	0.36	Thermal for Gen - min	1.88	Reverse Power Flow - max
Medicine Lake	MEL074	0.94	Thermal for Gen - min	1.51	Reverse Power Flow - max
Medicine Lake	MEL075	0.94	Thermal for Gen - min	2.13	Reverse Power Flow - max
Medicine Lake	MEL076	1.01	Reverse Power Flow - min	1.01	Reverse Power Flow - max
Medicine Lake	MEL077	0.94	Thermal for Gen - min	1.42	Reverse Power Flow - max
Medicine Lake	MEL078	0.94	Thermal for Gen - min	1.28	Reverse Power Flow - max
Medicine Lake	MEL079	1.08	Reverse Power Flow - min	1.08	Reverse Power Flow - max
Medicine Lake	MEL081	0.26	Thermal for Gen - min	1.33	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Medicine Lake	MEL082	0.94	Thermal for Gen - min	1.34	Reverse Power Flow - max
Medicine Lake	MEL083	0.94	Thermal for Gen - min	1.57	Reverse Power Flow - max
Medicine Lake	MEL087	0.67	Reverse Power Flow - min	0.67	Reverse Power Flow - max
Medicine Lake	MEL088	1	Primary Over-Voltage - min	1.44	Reverse Power Flow - max
Medicine Lake	MEL089	1.2	Primary Over-Voltage - min	1.53	Reverse Power Flow - max
Morgan	MGN211	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Mayhew Lake	MHW311	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Mayhew Lake	MHW312	0	Reverse Power Flow - min	0	Reverse Power Flow - max
Mound	MND061	0.59	Thermal for Gen - min	0.97	Reverse Power Flow - max
Mound	MND062	0.68	Thermal for Gen - min	2.1	Reverse Power Flow - max
Mound	MND063	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Mound	MND071	0.3	Primary Over-Voltage - min	1.4	Reverse Power Flow - max
Mound	MND072	0.39	Thermal for Gen - min	1.99	Reverse Power Flow - max
Minnesota Lake	MNL001	0.08	Thermal for Gen - min	0.27	Reverse Power Flow - max
Minnesota Valley	MNV211	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Moore Lake	MOL061	0.59	Thermal for Gen - min	1.57	Reverse Power Flow - max
Moore Lake	MOL062	1.52	Thermal for Gen - min	2.38	Reverse Power Flow - max
Moore Lake	MOL063	0.6	Thermal for Gen - min	1.8	Reverse Power Flow - max
Moore Lake	MOL064	0.94	Thermal for Gen - min	1.64	Reverse Power Flow - max
Moore Lake	MOL065	0.94	Thermal for Gen - min	1.54	Reverse Power Flow - max
Moore Lake	MOL066	0.94	Thermal for Gen - min	1.91	Reverse Power Flow - max
Moore Lake	MOL067	0.63	Thermal for Gen - min	1.2	Reverse Power Flow - max
Moore Lake	MOL068	0.3	Primary Over-Voltage - min	1.27	Reverse Power Flow - max
Moore Lake	MOL069	0.6	Reverse Power Flow - min	0.6	Reverse Power Flow - max
Moore Lake	MOL071	0.94	Thermal for Gen - min	1.2	Reverse Power Flow - max
Moore Lake	MOL072	0.94	Thermal for Gen - min	1.38	Reverse Power Flow - max
Moore Lake	MOL073	0.9	Primary Over-Voltage - min	1.76	Reverse Power Flow - max
Moore Lake	MOL074	0.87	Reverse Power Flow - min	0.87	Reverse Power Flow - max
Moore Lake	MOL076	0.95	Thermal for Gen - min	1.79	Reverse Power Flow - max
Moore Lake	MOL077	0.82	Reverse Power Flow - min	0.82	Reverse Power Flow - max
Moore Lake	MOL078	0.8	Primary Over-Voltage - min	1.8	Reverse Power Flow - max
Moore Lake	MOL079	0.95	Thermal for Gen - min	1.1	Reverse Power Flow - max
Merriam Park	MPK061	2.07	Reverse Power Flow - min	2.07	Reverse Power Flow - max
Merriam Park	MPK062	0.96	Thermal for Gen - min	1.07	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Merriam Park	MPK063	0.6	Thermal for Gen - min	2.14	Reverse Power Flow - max
Merriam Park	MPK064	0	Reverse Power Flow - min	0	Reverse Power Flow - min
Merriam Park	MPK065	0.65	Thermal for Gen - min	1.54	Reverse Power Flow - max
Merriam Park	MPK066	0.69	Reverse Power Flow - min	0.69	Reverse Power Flow - max
Merriam Park	MPK067	0.96	Thermal for Gen - min	2.01	Reverse Power Flow - max
Merriam Park	MPK068	0.3	Primary Over-Voltage - min	1.86	Reverse Power Flow - max
Merriam Park	MPK071	0	Reverse Power Flow - min	0	Reverse Power Flow - min
Merriam Park	MPK072	1.62	Reverse Power Flow - min	1.62	Reverse Power Flow - max
Merriam Park	MPK073	0.73	Reverse Power Flow - min	0.73	Reverse Power Flow - max
Merriam Park	MPK074	1.06	Primary Over-Voltage - min	1.11	Reverse Power Flow - max
Merriam Park	MPK075	0.96	Thermal for Gen - min	1.41	Reverse Power Flow - max
Merriam Park	MPK076	1.33	Reverse Power Flow - min	1.33	Reverse Power Flow - max
Merriam Park	MPK077	1.43	Reverse Power Flow - min	1.43	Reverse Power Flow - max
Merriam Park	MPK078	0.2	Primary Over-Voltage - min	0.79	Breaker Relay Reduction of Reach - max
Merriam Park	MPK081	1.38	Reverse Power Flow - min	1.38	Reverse Power Flow - max
Merriam Park	MPK082	0.3	Primary Over-Voltage - min	1.3	Breaker Relay Reduction of Reach - max
Merriam Park	MPK083	0.2	Primary Over-Voltage - min	1.15	Breaker Relay Reduction of Reach - max
Merriam Park	MPK084	0.3	Primary Over-Voltage - min	1.02	Breaker Relay Reduction of Reach - max
Merriam Park	MPK085	0.96	Thermal for Gen - min	1.49	Reverse Power Flow - max
Merriam Park	MPK086	0.73	Reverse Power Flow - min	0.73	Reverse Power Flow - max
Merriam Park	MPK087	0.96	Thermal for Gen - min	1.94	Reverse Power Flow - max
Mapleton	MPN081	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Meridian	MRN021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Main Street	MST063	1.76	Reverse Power Flow - min	1.76	Reverse Power Flow - max
Main Street	MST064	0.35	Reverse Power Flow - min	0.35	Reverse Power Flow - max
Main Street	MST066	0.97	Thermal for Gen - min	1.5	Reverse Power Flow - max
Main Street	MST068	0.94	Thermal for Gen - min	1.26	Reverse Power Flow - max
Main Street	MST069	0.94	Thermal for Gen - min	1.13	Reverse Power Flow - max
Main Street	MST070	0.94	Thermal for Gen - min	1.79	Reverse Power Flow - max
Main Street	MST071	1	Thermal for Gen - min	1.72	Reverse Power Flow - max
Main Street	MST074	0.19	Reverse Power Flow - min	0.19	Reverse Power Flow - max
Main Street	MST075	0.94	Thermal for Gen - min	2.22	Reverse Power Flow - max
Main Street	MST076	0.48	Thermal for Gen - min	1.28	Reverse Power Flow - max
Main Street	MST080	0.1	Primary Over-Voltage - min	0.84	Breaker Relay Reduction of Reach - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Main Street	MST082	1.04	Reverse Power Flow - min	1.04	Reverse Power Flow - max
Montrose	MTR021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Montevideo	MTV001	0.1	Primary Over-Voltage - min	0.23	Reverse Power Flow - max
Montevideo	MTV002	0.3	Primary Over-Voltage - min	0.3	Reverse Power Flow - max
Montevideo	MTV003	0.44	Reverse Power Flow - min	0.44	Reverse Power Flow - max
Montevideo	MTV021	0.2	Primary Over-Voltage - min	0.57	Reverse Power Flow - max
Montevideo	MTV022	0.3	Primary Over-Voltage - min	0.6	Reverse Power Flow - max
Morristown	MTW021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Maynard	MYN021	0.4	Primary Over-Voltage - min	0.44	Reverse Power Flow - max
Nerstrand	NER021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Nine Mile Creek	NMC063	1.51	Reverse Power Flow - min	1.51	Reverse Power Flow - max
Nine Mile Creek	NMC064	1.59	Reverse Power Flow - min	1.59	Reverse Power Flow - max
Nine Mile Creek	NMC082	0.94	Thermal for Gen - min	1.72	Reverse Power Flow - max
Nine Mile Creek	NMC083	0.99	Thermal for Gen - min	1.77	Reverse Power Flow - max
Nine Mile Creek	NMC092	0.95	Thermal for Gen - min	1.88	Reverse Power Flow - max
Nine Mile Creek	NMC093	0.94	Thermal for Gen - min	1.84	Reverse Power Flow - max
Northfield	NOF061	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Northfield	NOF062	0.81	Thermal for Gen - min	2.06	Reverse Power Flow - max
Northfield	NOF071	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Northfield	NOF072	0.23	Thermal for Gen - min	1.95	Reverse Power Flow - max
Northfield	NOF073	1.14	Reverse Power Flow - min	1.14	Reverse Power Flow - max
Oakdale	OAD061	0.95	Thermal for Gen - min	1.69	Reverse Power Flow - max
Oakdale	OAD062	0.75	Reverse Power Flow - min	0.75	Reverse Power Flow - max
Oakdale	OAD063	0.94	Thermal for Gen - min	1.6	Reverse Power Flow - max
Oakdale	OAD064	0.73	Reverse Power Flow - min	0.73	Reverse Power Flow - max
Oakdale	OAD065	0.94	Thermal for Gen - min	1.44	Reverse Power Flow - max
Oakdale	OAD071	0.58	Thermal for Gen - min	1.51	Reverse Power Flow - max
Oakdale	OAD072	0.78	Thermal for Gen - min	1.62	Reverse Power Flow - max
Oakdale	OAD073	0.94	Thermal for Gen - min	1.47	Reverse Power Flow - max
Oakdale	OAD074	0.94	Thermal for Gen - min	1.38	Reverse Power Flow - max
Oakdale	OAD075	1	Primary Over-Voltage - min	2.33	Reverse Power Flow - max
Oak Park	OPK065	0.4	Primary Over-Voltage - min	1.72	Reverse Power Flow - max
Oak Park	OPK066	0.52	Reverse Power Flow - min	0.52	Reverse Power Flow - max
Oak Park	OPK067	0.3	Primary Over-Voltage - min	1.55	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Oak Park	OPK071	0.7	Reverse Power Flow - min	0.7	Reverse Power Flow - max
Oak Park	OPK072	0.94	Thermal for Gen - min	1.2	Reverse Power Flow - max
Oak Park	OPK073	0.3	Primary Over-Voltage - min	1.46	Reverse Power Flow - max
Oak Park	OPK074	1.56	Reverse Power Flow - min	1.56	Reverse Power Flow - max
Oak Park	OPK075	0.79	Reverse Power Flow - min	0.79	Reverse Power Flow - max
Oak Park	OPK077	0	Reverse Power Flow - min	2.23	Reverse Power Flow - max
Orono	ORO061	0.5	Primary Over-Voltage - min	1.56	Reverse Power Flow - max
Orono	ORO062	0.7	Primary Over-Voltage - min	2	Reverse Power Flow - max
Osseo	OSS061	0.94	Thermal for Gen - min	1.8	Reverse Power Flow - max
Osseo	OSS062	0.94	Thermal for Gen - min	1.72	Reverse Power Flow - max
Osseo	OSS063	0.7	Primary Over-Voltage - min	1.3	Reverse Power Flow - max
Osseo	OSS064	0.33	Thermal for Gen - min	1.77	Reverse Power Flow - max
Osseo	OSS065	0.94	Thermal for Gen - min	1.64	Reverse Power Flow - max
Osseo	OSS066	1.17	Thermal for Gen - min	1.55	Reverse Power Flow - max
Osseo	OSS071	0.94	Thermal for Gen - min	1.4	Reverse Power Flow - max
Osseo	OSS072	0.86	Reverse Power Flow - min	0.86	Reverse Power Flow - max
Osseo	OSS073	0.6	Primary Over-Voltage - min	1.56	Reverse Power Flow - max
Osseo	OSS074	0.71	Reverse Power Flow - min	0.71	Reverse Power Flow - max
Osseo	OSS075	1.46	Reverse Power Flow - min	1.46	Reverse Power Flow - max
Osseo	OSS076	1.17	Thermal for Gen - min	1.26	Reverse Power Flow - max
Osseo	OSS077	0.94	Thermal for Gen - min	1.61	Reverse Power Flow - max
aynesville Transmissio	PAT312	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
aynesville Transmissio	PAT313	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
aynesville Transmissio	PAT314	0.1	Primary Over-Voltage - min	0.49	Reverse Power Flow - max
Pine Bend	PBE061	0.58	Thermal for Gen - min	0.81	Reverse Power Flow - max
Pine Island	PIL021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Pine Island	PIL022	0.2	Primary Over-Voltage - min	1.18	Reverse Power Flow - max
Pipestone	PIP061	0.35	Reverse Power Flow - min	0.35	Reverse Power Flow - max
Pipestone	PIP062	0.59	Thermal for Gen - min	0.89	Reverse Power Flow - max
Pipestone	PIP090	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Parkers Lake	PKL061	1.11	Thermal for Gen - min	1.82	Reverse Power Flow - max
Parkers Lake	PKL062	1.17	Thermal for Gen - min	1.61	Reverse Power Flow - max
Parkers Lake	PKL063	0.9	Primary Over-Voltage - min	1.22	Reverse Power Flow - max
Parkers Lake	PKL064	1.19	Thermal for Gen - min	1.66	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Parkers Lake	PKL065	1.18	Thermal for Gen - min	1.43	Reverse Power Flow - max
Parkers Lake	PKL066	0.98	Reverse Power Flow - min	0.98	Reverse Power Flow - max
Parkers Lake	PKL071	0.94	Thermal for Gen - min	2.08	Reverse Power Flow - max
Parkers Lake	PKL072	1	Thermal for Gen - min	1.43	Reverse Power Flow - max
Parkers Lake	PKL073	0.73	Reverse Power Flow - min	0.73	Reverse Power Flow - max
Parkers Lake	PKL074	0.5	Primary Over-Voltage - min	1.8	Reverse Power Flow - max
Parkers Lake	PKL075	1	Primary Over-Voltage - min	1.65	Reverse Power Flow - max
Parkers Lake	PKL081	0.9	Primary Over-Voltage - min	1.13	Reverse Power Flow - max
Parkers Lake	PKL082	0	Thermal for Gen - min	1.08	Reverse Power Flow - max
Parkers Lake	PKL083	1.45	Thermal for Gen - min	1.75	Reverse Power Flow - max
Parkers Lake	PKL084	1.17	Thermal for Gen - min	5.74	Reverse Power Flow - max
Parkers Lake	PKL085	0.9	Primary Over-Voltage - min	1.89	Reverse Power Flow - max
Plato	PLA022	0.1	Primary Over-Voltage - min	0.47	Reverse Power Flow - max
Plato	PLA023	1.25	Reverse Power Flow - min	1.25	Reverse Power Flow - max
Prior	PRR061	0.36	Thermal for Gen - min	1.87	Reverse Power Flow - max
Prior	PRR062	0.59	Thermal for Gen - min	1.36	Reverse Power Flow - max
Prior	PRR063	0.94	Thermal for Gen - min	1.05	Reverse Power Flow - max
Ramsey	RAM061	1.02	Thermal for Gen - min	1.05	Reverse Power Flow - max
Ramsey	RAM062	0.94	Thermal for Gen - min	1.26	Reverse Power Flow - max
Ramsey	RAM063	0.94	Thermal for Gen - min	1.53	Reverse Power Flow - max
Ramsey	RAM064	0.94	Thermal for Gen - min	1.63	Reverse Power Flow - max
Ramsey	RAM071	1	Primary Over-Voltage - min	1.92	Reverse Power Flow - max
Ramsey	RAM072	0.9	Primary Over-Voltage - min	1.15	Reverse Power Flow - max
Ramsey	RAM073	0.8	Primary Over-Voltage - min	0.93	Reverse Power Flow - max
Ramsey	RAM077	0.35	Thermal for Gen - min	1.47	Reverse Power Flow - max
Rapidan	RAP081	0.1	Primary Over-Voltage - min	0.29	Breaker Relay Reduction of Reach - max
Richmond	RCH061	0.4	Primary Over-Voltage - min	0.66	Reverse Power Flow - max
Red River	RED091	0.1	Primary Over-Voltage - min	0.71	Breaker Relay Reduction of Reach - max
Red Wing	REW021	0.4	Primary Over-Voltage - min	1.02	Reverse Power Flow - max
Red Wing	REW022	0.85	Thermal for Gen - min	1.32	Reverse Power Flow - max
Red Wing	REW023	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Red Wing	REW031	0.3	Primary Over-Voltage - min	1.04	Reverse Power Flow - max
Red Wing	REW032	0.71	Reverse Power Flow - min	0.71	Reverse Power Flow - max
Red Wing	REW033	0.8	Primary Over-Voltage - min	1.35	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Riverside	RIV061	0.96	Thermal for Gen - min	1.01	Reverse Power Flow - max
Riverside	RIV062	0.96	Thermal for Gen - min	1.16	Reverse Power Flow - max
Riverside	RIV063	0.6	Thermal for Gen - min	1.31	Reverse Power Flow - max
Riverside	RIV064	0.96	Thermal for Gen - min	1.3	Reverse Power Flow - max
Riverside	RIV065	1.86	Reverse Power Flow - min	1.86	Reverse Power Flow - max
Riverside	RIV066	0.75	Reverse Power Flow - min	0.75	Reverse Power Flow - max
Riverside	RIV071	0.93	Reverse Power Flow - min	0.93	Reverse Power Flow - max
Riverside	RIV072	0.77	Reverse Power Flow - min	0.77	Reverse Power Flow - max
Riverside	RIV073	0.96	Thermal for Gen - min	1.07	Reverse Power Flow - max
Riverside	RIV074	0.63	Reverse Power Flow - min	0.63	Reverse Power Flow - max
Riverside	RIV075	0.92	Thermal for Gen - min	1.05	Reverse Power Flow - max
Riverside	RIV076	0.96	Thermal for Gen - min	1.18	Reverse Power Flow - max
Rogers Lake	RLK064	0.7	Primary Over-Voltage - min	6.1	Breaker Relay Reduction of Reach - max
Rogers Lake	RLK065	0.94	Thermal for Gen - min	5.69	Breaker Relay Reduction of Reach - max
Rogers Lake	RLK066	0.98	Primary Over-Voltage - min	1.86	Primary Over-Voltage - max
Rogers Lake	RLK068	1.2	Thermal for Gen - min	7.75	Breaker Relay Reduction of Reach - max
Rogers Lake	RLK069	0.26	Thermal for Gen - min	5.03	Breaker Relay Reduction of Reach - max
Rogers Lake	RLK071	0.58	Thermal for Gen - min	6.83	Breaker Relay Reduction of Reach - max
Rogers Lake	RLK072	0.94	Thermal for Gen - min	9.85	Breaker Relay Reduction of Reach - max
Rogers Lake	RLK073	0.94	Thermal for Gen - min	7.54	Breaker Relay Reduction of Reach - max
Rogers Lake	RLK079	0.62	Thermal for Gen - min	5.83	Breaker Relay Reduction of Reach - max
Rosemount	RMT311	0.2	Primary Over-Voltage - min	0.72	Breaker Relay Reduction of Reach - max
Rosemount	RMT312	0.05	Thermal for Gen - min	0.15	Breaker Relay Reduction of Reach - max
Renville	RNV021	0	Reverse Power Flow - min	0	Reverse Power Flow - max
Rock River	ROC090	0	Thermal for Gen - min	0	Thermal for Gen - max
Rock River	ROC091	0	Reverse Power Flow - min	0	Reverse Power Flow - max
Rose Place	RPL061	0.97	Thermal for Gen - min	1.71	Reverse Power Flow - max
Rose Place	RPL062	1.04	Reverse Power Flow - min	1.04	Reverse Power Flow - max
Rose Place	RPL063	1	Thermal for Gen - min	1.29	Reverse Power Flow - max
Rose Place	RPL064	0.94	Thermal for Gen - min	1.43	Reverse Power Flow - max
Rose Place	RPL071	0.94	Thermal for Gen - min	1.93	Reverse Power Flow - max
Rose Place	RPL072	0.95	Thermal for Gen - min	1.13	Reverse Power Flow - max
Rose Place	RPL073	0.94	Thermal for Gen - min	1.13	Reverse Power Flow - max
Rose Place	RPL074	0.94	Thermal for Gen - min	1.49	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Rose Place	RPL075	0.94	Thermal for Gen - min	0.97	Reverse Power Flow - max
Red Rock	RRK061	1.52	Thermal for Gen - min	1.78	Reverse Power Flow - max
Red Rock	RRK062	1.75	Thermal for Gen - min	1.95	Reverse Power Flow - max
Red Rock	RRK063	0.8	Primary Over-Voltage - min	1.63	Reverse Power Flow - max
Red Rock	RRK064	0.7	Primary Over-Voltage - min	2.67	Reverse Power Flow - max
Red Rock	RRK071	1.52	Thermal for Gen - min	1.57	Reverse Power Flow - max
Red Rock	RRK072	1.49	Thermal for Gen - min	1.89	Reverse Power Flow - max
Red Rock	RRK081	1.56	Reverse Power Flow - min	1.56	Reverse Power Flow - max
Red Rock	RRK082	0.7	Primary Over-Voltage - min	0.87	Reverse Power Flow - max
Red Rock	RRK083	0.4	Thermal for Gen - min	2	Reverse Power Flow - max
Rich Spring	RSP061	1.12	Reverse Power Flow - min	1.12	Reverse Power Flow - max
Rich Valley	RVA061	0.5	Primary Over-Voltage - min	3.05	Reverse Power Flow - max
Rich Valley	RVA062	0.1	Primary Over-Voltage - min	1.27	Breaker Relay Reduction of Reach - max
Rich Valley	RVA063	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Riverwood	RWD061	0.59	Thermal for Gen - min	0.94	Reverse Power Flow - max
Riverwood	RWD062	0.94	Thermal for Gen - min	1.79	Reverse Power Flow - max
Riverwood	RWD063	1.1	Primary Over-Voltage - min	1.39	Reverse Power Flow - max
Riverwood	RWD081	0.85	Reverse Power Flow - min	0.85	Reverse Power Flow - max
Riverwood	RWD082	0.59	Thermal for Gen - min	1.12	Reverse Power Flow - max
Sauk River	SAK311	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Sauk River	SAK312	0.1	Primary Over-Voltage - min	1.74	Breaker Relay Reduction of Reach - max
Sauk River	SAK321	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Savage	SAV063	0.7	Primary Over-Voltage - min	1.78	Reverse Power Flow - max
Savage	SAV067	0.6	Primary Over-Voltage - min	2.06	Reverse Power Flow - max
Savage	SAV069	0.28	Thermal for Gen - min	1.11	Reverse Power Flow - max
Savage	SAV071	0.94	Thermal for Gen - min	1.69	Reverse Power Flow - max
Savage	SAV072	0.51	Reverse Power Flow - min	0.51	Reverse Power Flow - max
Savage	SAV073	0.85	Reverse Power Flow - min	0.85	Reverse Power Flow - max
Scandia	SCA021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Sacred Heart	SCH001	0.15	Reverse Power Flow - min	0.15	Reverse Power Flow - max
Sacred Heart	SCH211	0.01	Reverse Power Flow - min	0.34	Reverse Power Flow - max
Saint Cloud	SCL311	0.3	Primary Over-Voltage - min	2.25	Reverse Power Flow - max
Saint Cloud	SCL312	0.1	Primary Over-Voltage - min	0.9	Breaker Relay Reduction of Reach - max
Saint Cloud	SCL313	0.1	Primary Over-Voltage - min	1.97	Breaker Relay Reduction of Reach - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Saint Cloud	SCL322	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Saint Cloud	SCL323	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Salida Crossing	SDX061	3.09	Reverse Power Flow - min	3.09	Reverse Power Flow - max
Sedan	SED061	0.04	Reverse Power Flow - min	0.04	Reverse Power Flow - max
Shepard	SHP061	0.91	Reverse Power Flow - min	0.91	Reverse Power Flow - max
Shepard	SHP062	0.6	Thermal for Gen - min	1.9	Reverse Power Flow - max
Shepard	SHP063	0.9	Reverse Power Flow - min	0.9	Reverse Power Flow - max
Shepard	SHP071	0.96	Thermal for Gen - min	1.43	Reverse Power Flow - max
Shepard	SHP072	0.36	Thermal for Gen - min	1.32	Reverse Power Flow - max
Sibley Park	SIP061	0.7	Primary Over-Voltage - min	1.86	Reverse Power Flow - max
Sibley Park	SIP062	1.87	Reverse Power Flow - min	1.87	Reverse Power Flow - max
Sibley Park	SIP063	0.6	Thermal for Gen - min	1.39	Reverse Power Flow - max
Sibley Park	SIP071	0.28	Thermal for Gen - min	1.54	Reverse Power Flow - max
Sibley Park	SIP072	0.3	Primary Over-Voltage - min	1.31	Reverse Power Flow - max
Sibley Park	SIP073	0.35	Thermal for Gen - min	1.3	Reverse Power Flow - max
Saint John's	SJO001	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Saint Louis Park	SLP071	0.6	Thermal for Gen - min	1.77	Reverse Power Flow - max
Saint Louis Park	SLP072	0.29	Thermal for Gen - min	2.02	Reverse Power Flow - max
Saint Louis Park	SLP073	0.36	Thermal for Gen - min	1.85	Reverse Power Flow - max
Saint Louis Park	SLP074	0.4	Primary Over-Voltage - min	1.13	Breaker Relay Reduction of Reach - max
Saint Louis Park	SLP075	0.6	Thermal for Gen - min	1.81	Reverse Power Flow - max
Saint Louis Park	SLP076	0.96	Thermal for Gen - min	1.62	Reverse Power Flow - max
Saint Louis Park	SLP077	0.96	Thermal for Gen - min	1.83	Reverse Power Flow - max
Saint Louis Park	SLP081	0.9	Primary Over-Voltage - min	1.43	Reverse Power Flow - max
Saint Louis Park	SLP082	0.96	Thermal for Gen - min	2.13	Reverse Power Flow - max
Saint Louis Park	SLP083	0.96	Thermal for Gen - min	1.7	Reverse Power Flow - max
Saint Louis Park	SLP084	0.96	Thermal for Gen - min	1.73	Reverse Power Flow - max
Saint Louis Park	SLP085	0.96	Thermal for Gen - min	1.58	Reverse Power Flow - max
Saint Louis Park	SLP086	1.01	Thermal for Gen - min	1.42	Reverse Power Flow - max
Saint Louis Park	SLP087	0.96	Thermal for Gen - min	1.31	Reverse Power Flow - max
Saint Louis Park	SLP091	0.86	Reverse Power Flow - min	0.86	Reverse Power Flow - max
Saint Louis Park	SLP092	0.96	Thermal for Gen - min	1.72	Reverse Power Flow - max
Saint Louis Park	SLP093	0.9	Primary Over-Voltage - min	2.05	Reverse Power Flow - max
Saint Louis Park	SLP094	0.96	Thermal for Gen - min	1.11	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Saint Louis Park	SLP095	0.96	Reverse Power Flow - min	0.96	Reverse Power Flow - max
Saint Louis Park	SLP096	0.96	Thermal for Gen - min	1.98	Reverse Power Flow - max
Saint Louis Park	SLP097	0.96	Thermal for Gen - min	1.24	Reverse Power Flow - max
Saint Louis Park	SLP321	0.3	Primary Over-Voltage - min	1.12	Breaker Relay Reduction of Reach - max
Saint Louis Park	SLP322	0.5	Primary Over-Voltage - min	1.8	Breaker Relay Reduction of Reach - max
Slayton West	SLW061	0.61	Reverse Power Flow - min	0.61	Reverse Power Flow - max
Slayton West	SLW062	0.58	Reverse Power Flow - min	0.58	Reverse Power Flow - max
Summit Ave	SMT061	0.72	Thermal for Gen - min	1.06	Reverse Power Flow - max
Summit Ave	SMT062	0.1	Primary Over-Voltage - min	0.86	Breaker Relay Reduction of Reach - max
Summit Ave	SMT063	0.59	Thermal for Gen - min	1.11	Reverse Power Flow - max
Summit Ave	SMT071	1.53	Thermal for Gen - min	2.22	Reverse Power Flow - max
Summit Ave	SMT072	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Summit Ave	SMT081	0.96	Thermal for Gen - min	1.92	Reverse Power Flow - max
Summit Ave	SMT082	0.2	Primary Over-Voltage - min	1.08	Breaker Relay Reduction of Reach - max
Summit Ave	SMT091	0.49	Thermal for Gen - min	1.98	Reverse Power Flow - max
Summit Ave	SMT092	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
South Haven	SOH001	0.1	Reverse Power Flow - min	0.1	Reverse Power Flow - max
Southtown	SOU061	0.47	Thermal for Gen - min	1.56	Reverse Power Flow - max
Southtown	SOU063	1.07	Thermal for Gen - min	1.77	Reverse Power Flow - max
Southtown	SOU064	0.23	Thermal for Gen - min	2.2	Reverse Power Flow - max
Southtown	SOU065	1.3	Primary Over-Voltage - min	1.53	Reverse Power Flow - max
Southtown	SOU066	0.94	Reverse Power Flow - min	0.94	Reverse Power Flow - max
Southtown	SOU069	0.9	Reverse Power Flow - min	0.9	Reverse Power Flow - max
Southtown	SOU072	0.94	Thermal for Gen - min	1.85	Reverse Power Flow - max
Southtown	SOU073	0.82	Reverse Power Flow - min	0.82	Reverse Power Flow - max
Southtown	SOU075	0.47	Thermal for Gen - min	1.94	Reverse Power Flow - max
Southtown	SOU076	0.47	Thermal for Gen - min	1.15	Reverse Power Flow - max
Southtown	SOU077	0.94	Thermal for Gen - min	2.42	Reverse Power Flow - max
Southtown	SOU078	0.2	Primary Over-Voltage - min	0.93	Reverse Power Flow - max
Southtown	SOU079	0.47	Thermal for Gen - min	1.59	Reverse Power Flow - max
Southtown	SOU081	0.92	Reverse Power Flow - min	0.92	Reverse Power Flow - max
Southtown	SOU082	0.47	Thermal for Gen - min	1.99	Reverse Power Flow - max
Southtown	SOU083	0.47	Thermal for Gen - min	1.31	Reverse Power Flow - max
Southtown	SOU084	0.4	Reverse Power Flow - min	0.4	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Southtown	SOU085	0.94	Thermal for Gen - min	1.5	Reverse Power Flow - max
Southtown	SOU086	0.47	Thermal for Gen - min	1.64	Reverse Power Flow - max
Southtown	SOU087	0.47	Thermal for Gen - min	0.65	Reverse Power Flow - max
Southtown	SOU088	0.25	Thermal for Gen - min	1.25	Reverse Power Flow - max
South Ridge	SRD211	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Saint Joseph	STO001	0.65	Reverse Power Flow - min	0.65	Reverse Power Flow - max
Saint Joseph	STO002	0.2	Primary Over-Voltage - min	0.56	Reverse Power Flow - max
Stewart	STW021	0.1	Primary Over-Voltage - min	0.1	Primary Over-Voltage - max
Stockyards	STY061	0.1	Primary Over-Voltage - min	1.95	Reverse Power Flow - max
Stockyards	STY062	0.5	Primary Over-Voltage - min	1.61	Reverse Power Flow - max
Stockyards	STY063	0.4	Primary Over-Voltage - min	1.1	Primary Over-Voltage - max
Stockyards	STY065	0.5	Primary Over-Voltage - min	1.91	Reverse Power Flow - max
Stockyards	STY071	0.8	Primary Over-Voltage - min	2.38	Reverse Power Flow - max
Stockyards	STY072	0.94	Thermal for Gen - min	1.4	Reverse Power Flow - max
Stockyards	STY073	0.59	Thermal for Gen - min	1.6	Reverse Power Flow - max
Stockyards	STY075	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Swan Lake	SWN021	0.25	Reverse Power Flow - min	0.25	Reverse Power Flow - max
Swan Lake	SWN022	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Terminal	TER061	0.96	Thermal for Gen - min	1.49	Reverse Power Flow - max
Terminal	TER062	0.96	Thermal for Gen - min	1.54	Reverse Power Flow - max
Terminal	TER063	0.96	Thermal for Gen - min	1.75	Reverse Power Flow - max
Terminal	TER064	0.96	Thermal for Gen - min	1.33	Reverse Power Flow - max
Terminal	TER065	0.48	Thermal for Gen - min	2.24	Reverse Power Flow - max
Terminal	TER066	0.96	Thermal for Gen - min	2.22	Reverse Power Flow - max
Terminal	TER071	0.96	Thermal for Gen - min	1.51	Reverse Power Flow - max
Terminal	TER072	1.2	Reverse Power Flow - min	1.2	Reverse Power Flow - max
Terminal	TER073	0.17	Thermal for Gen - min	0.53	Breaker Relay Reduction of Reach - max
Terminal	TER074	1.25	Reverse Power Flow - min	1.25	Reverse Power Flow - max
Terminal	TER075	0.96	Thermal for Gen - min	1.3	Reverse Power Flow - max
Terminal	TER076	0.73	Reverse Power Flow - min	0.73	Reverse Power Flow - max
Terminal	TER081	0.26	Thermal for Gen - min	1.78	Reverse Power Flow - max
Terminal	TER082	1	Thermal for Gen - min	1.66	Reverse Power Flow - max
Terminal	TER083	0.6	Thermal for Gen - min	1.36	Reverse Power Flow - max
Terminal	TER084	1.76	Reverse Power Flow - min	1.76	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Terminal	TER085	0.73	Reverse Power Flow - min	0.73	Reverse Power Flow - max
Terminal	TER086	1.13	Reverse Power Flow - min	1.13	Reverse Power Flow - max
Tanner's Lake	TLK023	2.08	Reverse Power Flow - min	2.08	Reverse Power Flow - max
Tanner's Lake	TLK032	2.08	Reverse Power Flow - min	2.08	Reverse Power Flow - max
Tanner's Lake	TLK034	1.45	Reverse Power Flow - min	1.45	Reverse Power Flow - max
Tanner's Lake	TLK061	0.9	Primary Over-Voltage - min	1.93	Reverse Power Flow - max
Tanner's Lake	TLK062	0.9	Primary Over-Voltage - min	1.59	Reverse Power Flow - max
Tanner's Lake	TLK064	0.96	Thermal for Gen - min	1.14	Reverse Power Flow - max
Tanner's Lake	TLK065	0.62	Reverse Power Flow - min	0.62	Reverse Power Flow - max
Tanner's Lake	TLK066	0.7	Thermal for Gen - min	1.59	Reverse Power Flow - max
Tanner's Lake	TLK067	0.6	Thermal for Gen - min	1.51	Reverse Power Flow - max
Tanner's Lake	TLK071	0.88	Reverse Power Flow - min	0.88	Reverse Power Flow - max
Tanner's Lake	TLK073	1.06	Thermal for Gen - min	1.08	Reverse Power Flow - max
Tanner's Lake	TLK075	0.96	Thermal for Gen - min	1.39	Reverse Power Flow - max
Tanner's Lake	TLK076	0.94	Reverse Power Flow - min	0.94	Reverse Power Flow - max
Tanner's Lake	TLK077	0.8	Primary Over-Voltage - min	2.04	Reverse Power Flow - max
Tracy	TRA001	0.23	Reverse Power Flow - min	0.23	Reverse Power Flow - max
Tracy	TRA002	0.2	Primary Over-Voltage - min	0.24	Reverse Power Flow - max
racy Switching Statio	TSS061	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Twin Lake	TWL061	0.76	Thermal for Gen - min	1.03	Reverse Power Flow - max
Twin Lake	TWL062	0.5	Primary Over-Voltage - min	1.29	Reverse Power Flow - max
Twin Lake	TWL063	1.3	Primary Over-Voltage - min	1.36	Reverse Power Flow - max
Twin Lake	TWL064	0.5	Primary Over-Voltage - min	1.23	Reverse Power Flow - max
Twin Lake	TWL065	0.94	Thermal for Gen - min	1.65	Reverse Power Flow - max
Twin Lake	TWL066	0.96	Thermal for Gen - min	1.33	Reverse Power Flow - max
Twin Lake	TWL067	0.94	Thermal for Gen - min	1	Reverse Power Flow - max
Twin Lake	TWL068	0.58	Thermal for Gen - min	1.4	Reverse Power Flow - max
Twin Lake	TWL069	0.94	Thermal for Gen - min	1.3	Reverse Power Flow - max
Twin Lake	TWL071	0.94	Thermal for Gen - min	1.97	Reverse Power Flow - max
Twin Lake	TWL072	0.94	Thermal for Gen - min	1.92	Reverse Power Flow - max
Twin Lake	TWL073	0.64	Reverse Power Flow - min	0.64	Reverse Power Flow - max
Twin Lake	TWL074	0.91	Thermal for Gen - min	1.14	Reverse Power Flow - max
Twin Lake	TWL075	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Twin Lake	TWL076	0.94	Thermal for Gen - min	1.66	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Twin Lake	TWL077	0.55	Reverse Power Flow - min	0.55	Reverse Power Flow - max
Twin Lake	TWL078	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Twin Lake	TWL079	0.94	Thermal for Gen - min	2.2	Reverse Power Flow - max
Twin Lake	TWL081	0.8	Primary Over-Voltage - min	1.68	Reverse Power Flow - max
Twin Lake	TWL082	0.59	Thermal for Gen - min	1.44	Reverse Power Flow - max
Twin Lake	TWL083	0.99	Thermal for Gen - min	1.5	Reverse Power Flow - max
Twin Lake	TWL089	0.94	Thermal for Gen - min	1.31	Reverse Power Flow - max
Upper Levee	UPP061	0.96	Thermal for Gen - min	1.62	Reverse Power Flow - max
Upper Levee	UPP062	0.96	Thermal for Gen - min	1.88	Reverse Power Flow - max
Upper Levee	UPP063	0.5	Primary Over-Voltage - min	1.7	Reverse Power Flow - max
Upper Levee	UPP064	0.96	Thermal for Gen - min	2.01	Reverse Power Flow - max
Upper Levee	UPP065	1.63	Thermal for Gen - min	1.68	Reverse Power Flow - max
Upper Levee	UPP066	0.36	Thermal for Gen - min	1.46	Reverse Power Flow - max
Upper Levee	UPP067	1.3	Reverse Power Flow - min	1.3	Reverse Power Flow - max
Upper Levee	UPP068	0.99	Thermal for Gen - min	1.25	Reverse Power Flow - max
Upper Levee	UPP069	1.12	Reverse Power Flow - min	1.12	Reverse Power Flow - max
Upper Levee	UPP081	0.96	Thermal for Gen - min	2.06	Reverse Power Flow - max
Upper Levee	UPP082	0.6	Thermal for Gen - min	1.69	Reverse Power Flow - max
Upper Levee	UPP083	1.23	Reverse Power Flow - min	1.23	Reverse Power Flow - max
Upper Levee	UPP084	0.74	Thermal for Gen - min	2.15	Reverse Power Flow - max
Upper Levee	UPP085	0.96	Thermal for Gen - min	1.43	Reverse Power Flow - max
Upper Levee	UPP086	0.96	Thermal for Gen - min	1.83	Reverse Power Flow - max
Upper Levee	UPP088	2.03	Reverse Power Flow - min	2.03	Reverse Power Flow - max
Upper Levee	UPP089	0.43	Reverse Power Flow - min	0.43	Reverse Power Flow - max
Vesili	VES021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Villard	VIL021	0.2	Reverse Power Flow - min	0.2	Reverse Power Flow - max
Viking	VKG061	0.58	Reverse Power Flow - min	0.58	Reverse Power Flow - max
Viking	VKG065	0.94	Thermal for Gen - min	1.45	Reverse Power Flow - max
Viking	VKG071	1	Reverse Power Flow - min	1	Reverse Power Flow - max
Viking	VKG072	1.2	Primary Over-Voltage - min	1.65	Reverse Power Flow - max
Vermillion	VMR061	0.26	Thermal for Gen - min	0.48	Reverse Power Flow - max
Vermillion	VMR062	0.96	Thermal for Gen - min	1	Reverse Power Flow - max
Vermillion	VMR063	0.28	Thermal for Gen - min	0.36	Reverse Power Flow - max
Wabasha	WAB021	0.35	Thermal for Gen - min	0.77	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Wabasha	WAB031	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Wakefield	WAK321	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Waseca	WAS081	0	Reverse Power Flow - min	0	Reverse Power Flow - max
Waseca	WAS091	1.22	Thermal for Gen - min	2.54	Reverse Power Flow - max
Waseca	WAS092	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Waseca	WAS231	2.18	Reverse Power Flow - min	2.18	Reverse Power Flow - max
Waterville	WAT021	0.2	Primary Over-Voltage - min	0.61	Reverse Power Flow - max
Waterville	WAT081	0.3	Primary Over-Voltage - min	0.6	Breaker Relay Reduction of Reach - max
Waterville	WAT221	0.36	Thermal for Gen - min	0.66	Reverse Power Flow - max
Waverly	WAV021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
lliams Brothers Propa	WBP061	0.94	Thermal for Gen - min	1.37	Reverse Power Flow - max
lliams Brothers Propa	WBP062	0	Thermal for Gen - min	1.27	Reverse Power Flow - max
West Coon Rapids	WCR061	0.7	Primary Over-Voltage - min	1.1	Primary Over-Voltage - max
West Coon Rapids	WCR062	0.6	Primary Over-Voltage - min	1.62	Reverse Power Flow - max
West Coon Rapids	WCR063	0.6	Primary Over-Voltage - min	1.38	Reverse Power Flow - max
West Coon Rapids	WCR311	0.26	Primary Over-Voltage - min	2.06	Primary Over-Voltage - max
West Coon Rapids	WCR321	0.19	Primary Over-Voltage - min	0.73	Breaker Relay Reduction of Reach - max
West Coon Rapids	WCR322	0.5	Primary Over-Voltage - min	3.81	Reverse Power Flow - max
Waconia	WCS061	1	Reverse Power Flow - min	1	Reverse Power Flow - max
Waconia	WCS064	0.3	Primary Over-Voltage - min	1.21	Reverse Power Flow - max
Waconia	WCS071	0.96	Thermal for Gen - min	1.42	Reverse Power Flow - max
Waconia	WCS072	0.26	Thermal for Gen - min	1.23	Reverse Power Flow - max
Woodbury	WDY311	0.1	Primary Over-Voltage - min	1.73	Breaker Relay Reduction of Reach - max
Woodbury	WDY312	1.52	Thermal for Gen - min	3.73	Reverse Power Flow - max
Woodbury	WDY321	0.94	Thermal for Gen - min	2.67	Reverse Power Flow - max
Woodbury	WDY322	2.6	Primary Over-Voltage - min	3.94	Reverse Power Flow - max
West Byron	WEB021	0.31	Thermal for Gen - min	1.95	Reverse Power Flow - max
West Faribault	WEF061	0.23	Thermal for Gen - min	1.28	Reverse Power Flow - max
West Faribault	WEF071	0.4	Primary Over-Voltage - min	1.57	Reverse Power Flow - max
West Hastings	WEH021	0.5	Primary Over-Voltage - min	1.34	Reverse Power Flow - max
West Hastings	WEH022	0.85	Thermal for Gen - min	1.43	Reverse Power Flow - max
Wells Creek	WEL021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Western	WES061	0.67	Thermal for Gen - min	1.72	Reverse Power Flow - max
Western	WES062	0.7	Primary Over-Voltage - min	1.59	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Western	WES063	0.4	Primary Over-Voltage - min	1.39	Reverse Power Flow - max
Western	WES064	0.96	Thermal for Gen - min	2.11	Reverse Power Flow - max
Western	WES065	0.3	Primary Over-Voltage - min	1.51	Reverse Power Flow - max
Western	WES071	0.97	Thermal for Gen - min	1.57	Reverse Power Flow - max
Western	WES072	1	Thermal for Gen - min	1.64	Reverse Power Flow - max
Western	WES073	0.3	Primary Over-Voltage - min	0.71	Breaker Relay Reduction of Reach - max
Western	WES074	0.63	Thermal for Gen - min	1.86	Reverse Power Flow - max
Western	WES075	0.96	Thermal for Gen - min	1.4	Reverse Power Flow - max
Western	WES076	1.03	Thermal for Gen - min	1.82	Reverse Power Flow - max
Wilson	WIL071	0.95	Thermal for Gen - min	1.68	Reverse Power Flow - max
Wilson	WIL072	0.71	Thermal for Gen - min	1.57	Reverse Power Flow - max
Wilson	WIL073	0.95	Thermal for Gen - min	1.65	Reverse Power Flow - max
Wilson	WIL074	0.95	Thermal for Gen - min	1.28	Reverse Power Flow - max
Wilson	WIL075	0.94	Thermal for Gen - min	0.97	Reverse Power Flow - max
Wilson	WIL076	0.94	Thermal for Gen - min	1.45	Reverse Power Flow - max
Wilson	WIL077	0.94	Thermal for Gen - min	1.26	Reverse Power Flow - max
Wilson	WIL078	0.94	Thermal for Gen - min	1.22	Reverse Power Flow - max
Wilson	WIL079	1.17	Thermal for Gen - min	1.54	Reverse Power Flow - max
Wilson	WIL081	1.04	Thermal for Gen - min	1.67	Reverse Power Flow - max
Wilson	WIL082	0.74	Thermal for Gen - min	1.7	Reverse Power Flow - max
Wilson	WIL083	0.66	Thermal for Gen - min	0.85	Reverse Power Flow - max
Wilson	WIL084	0.6	Thermal for Gen - min	1.44	Reverse Power Flow - max
Wilson	WIL085	0.61	Thermal for Gen - min	1.99	Reverse Power Flow - max
Wilson	WIL086	0.26	Thermal for Gen - min	1.66	Reverse Power Flow - max
Wilson	WIL087	0.96	Thermal for Gen - min	1.96	Reverse Power Flow - max
Wilson	WIL088	0.59	Thermal for Gen - min	0.59	Reverse Power Flow - max
Wilson	WIL089	0.96	Thermal for Gen - min	1.83	Reverse Power Flow - max
Wilson	WIL091	0.95	Thermal for Gen - min	1.26	Reverse Power Flow - max
Wilson	WIL092	0.94	Thermal for Gen - min	1.31	Reverse Power Flow - max
Wilson	WIL093	0.94	Thermal for Gen - min	1.33	Reverse Power Flow - max
Wilson	WIL094	1.17	Thermal for Gen - min	1.44	Reverse Power Flow - max
Wilson	WIL095	0.94	Thermal for Gen - min	1.58	Reverse Power Flow - max
Wilson	WIL096	0.99	Thermal for Gen - min	1.4	Reverse Power Flow - max
Wilson	WIL097	0.59	Thermal for Gen - min	1.6	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Wilson	WIL098	0.6	Thermal for Gen - min	1.67	Reverse Power Flow - max
Winona	WIN021	0.05	Thermal for Gen - min	0.8	Reverse Power Flow - max
Winona	WIN022	0.13	Thermal for Gen - min	0.28	Reverse Power Flow - max
Winona	WIN023	0.21	Thermal for Gen - min	0.29	Reverse Power Flow - max
Winona	WIN032	0.85	Thermal for Gen - min	1.17	Reverse Power Flow - max
Winona	WIN033	0.17	Thermal for Gen - min	1.76	Reverse Power Flow - max
Winona	WIN034	0.49	Reverse Power Flow - min	0.49	Reverse Power Flow - max
Winona	WIN041	0.68	Reverse Power Flow - min	0.68	Reverse Power Flow - max
Winona	WIN042	0.17	Thermal for Gen - min	0.53	Reverse Power Flow - max
Winona	WIN043	0.13	Thermal for Gen - min	0.87	Breaker Relay Reduction of Reach - max
Watkins	WKN001	0.1	Primary Over-Voltage - min	0.33	Reverse Power Flow - max
Wobegon Trail	WOB021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Wobegon Trail	WOB022	0.19	Thermal for Gen - min	0.46	Reverse Power Flow - max
West River Road	WRR061	1.01	Thermal for Gen - min	1.35	Reverse Power Flow - max
West River Road	WRR064	0.95	Thermal for Gen - min	1.94	Reverse Power Flow - max
West River Road	WRR065	2.15	Reverse Power Flow - min	2.15	Reverse Power Flow - max
West River Road	WRR074	1.17	Thermal for Gen - min	1.7	Reverse Power Flow - max
West River Road	WRR075	0.94	Thermal for Gen - min	1.78	Reverse Power Flow - max
West River Road	WRR081	1.24	Thermal for Gen - min	1.38	Reverse Power Flow - max
West River Road	WRR084	0.94	Thermal for Gen - min	1.73	Reverse Power Flow - max
West River Road	WRR085	0.8	Reverse Power Flow - min	0.8	Reverse Power Flow - max
Winsted	WSD061	0.59	Thermal for Gen - min	1.12	Reverse Power Flow - max
Westgate	WSG061	1.55	Thermal for Gen - min	1.93	Reverse Power Flow - max
Westgate	WSG062	1.3	Primary Over-Voltage - min	1.43	Reverse Power Flow - max
Westgate	WSG063	1.1	Primary Over-Voltage - min	1.62	Reverse Power Flow - max
Westgate	WSG064	1.1	Primary Over-Voltage - min	1.54	Reverse Power Flow - max
Westgate	WSG065	0.8	Primary Over-Voltage - min	1.45	Reverse Power Flow - max
Westgate	WSG066	0.9	Primary Over-Voltage - min	1.98	Reverse Power Flow - max
Westgate	WSG071	1.1	Primary Over-Voltage - min	1.79	Reverse Power Flow - max
Westgate	WSG072	0.89	Reverse Power Flow - min	0.89	Reverse Power Flow - max
Westgate	WSG073	0.57	Reverse Power Flow - min	0.57	Reverse Power Flow - max
Westgate	WSG074	1	Primary Over-Voltage - min	2.09	Reverse Power Flow - max
Westgate	WSG075	1.23	Thermal for Gen - min	1.59	Reverse Power Flow - max
Westgate	WSG076	0.5	Primary Over-Voltage - min	1.22	Reverse Power Flow - max

Substation	Feeder	Minimum Hosting Capacity (MW)	Min Limiting Factor	Maximum Hosting Capacity (MW)	Max Limiting Factor
Westgate	WSG351	0.6	Thermal for Gen - min	1.13	Reverse Power Flow - max
Westgate	WSG352	0.6	Primary Over-Voltage - min	2.48	Breaker Relay Reduction of Reach - max
Westgate	WSG361	0.38	Thermal for Gen - min	1.75	Breaker Relay Reduction of Reach - max
Westgate	WSG362	0.5	Primary Over-Voltage - min	2.97	Reverse Power Flow - max
Westport	WSP021	0.06	Reverse Power Flow - min	0.06	Reverse Power Flow - max
West Union	WSU021	0.03	Reverse Power Flow - min	0.03	Reverse Power Flow - max
Watab River	WTB021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Watertown	WTN061	0.5	Primary Over-Voltage - min	0.55	Reverse Power Flow - max
Watertown	WTN062	0.3	Primary Over-Voltage - min	0.79	Reverse Power Flow - max
West Waconia	WWK311	0.15	Thermal for Gen - min	0.56	Breaker Relay Reduction of Reach - max
West Waconia	WWK321	0.2	Primary Over-Voltage - min	1.64	Breaker Relay Reduction of Reach - max
Wyoming	WYO021	0.8	Primary Over-Voltage - min	1.84	Reverse Power Flow - max
Wyoming	WYO022	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Wyoming	WYO031	0.7	Primary Over-Voltage - min	1.43	Reverse Power Flow - max
Wyoming	WYO032	0.4	Primary Over-Voltage - min	1.26	Reverse Power Flow - max
Wyoming	WYO033	0.85	Thermal for Gen - min	1.5	Reverse Power Flow - max
Crossroads	XRD061	0.81	Reverse Power Flow - min	0.81	Reverse Power Flow - max
Crossroads	XRD062	1.02	Thermal for Gen - min	1.44	Reverse Power Flow - max
Crossroads	XRD063	0.94	Thermal for Gen - min	1.75	Reverse Power Flow - max
Crossroads	XRD075	0.94	Thermal for Gen - min	1.19	Reverse Power Flow - max
Crossroads	XRD076	0.2	Primary Over-Voltage - min	1.23	Breaker Relay Reduction of Reach - max
Crossroads	XRD077	0.96	Thermal for Gen - min	1.36	Reverse Power Flow - max
Young America	YAM021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Young America	YAM031	0.2	Primary Over-Voltage - min	0.83	Reverse Power Flow - max
Yellow Medicine	YLM211	0.1	Primary Over-Voltage - min	0.69	Breaker Relay Reduction of Reach - max
Yellow Medicine	YLM212	0.1	Primary Over-Voltage - min	0.48	Reverse Power Flow - max
Zumbro Falls	ZUF021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Zumbrota	ZUM021	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max
Zumbrota	ZUM022	0	Primary Over-Voltage - min	0	Primary Over-Voltage - max