

*Table 2-5. Fault Scenario List
(Normal Contingencies and More)*

ID	Fault Location	Type	Impedance (1st = existing, 2nd=2nd Tie Project)	Stuck Breaker	Near End Clearing	Far End Location	Clearing
ncm139	Tewksbury 115kV	3 ϕ	0.0+j0.0	none	5 cy	Woburn 115kV	41 cy
nc282-520	Waltham 115kV	3 ϕ	0.0+j0.0	none	5 cy	Brighton 115kV Watertown 115kV	29 cy 66 cy
nc337	Tewksbury 345kV	3 ϕ	0.0+j0.0	none	4 cy	Sandy Pond 345kV	4.75 cy
nc374	Buxton 345kV	3 ϕ	0.0+j0.0	none	4 cy	Surowiec 345kV	4 cy
nc375a	Buxton 345kV	3 ϕ	0.0+j0.0	none	4 cy	Maine Yankee 345kV	4 cy
nc375b	Maine Yankee 345kV	3 ϕ	0.0+j0.0	none	4 cy	Buxton 345kV	4 cy
nc377	Maine Yankee 345kV	3 ϕ	0.0+j0.0	none	4 cy	Surowiec 345kV	4 cy
nc385	Buxton 345kV	3 ϕ	0.0+j0.0	none	4 cy	Deerfield 345kV	4 cy
nc388	Orrington 345kV	3 ϕ	0.0+j0.0	none	4 cy	Maxcys 345kV	4 cy
nc391	Buxton 345kV	3 ϕ	0.0+j0.0	none	4 cy	Scobie 345kV	4 cy
nc392	Maxcys 345kV	3 ϕ	0.0+j0.0	none	4 cy	Maine Yankee 345kV	4 cy
nc396*	Orrington 345kV	3 ϕ	0.0+j0.0	none	4 cy	Keswick 345kV Chester SVC	4 cy 4 cy
nc3016	Orrington 345kV	3 ϕ	0.0+j0.0	none	4 cy	Pt. Lepreau 345kV	4 cy
dct03	Maine Yankee 345kV	2 ϕ	0.00118+j0.00857 0.00115+j0.00846 0.00113+j0.00803	none	4 cy	Buxton 345kV Surowiec 345kV MIS transfer trip	4 cy 4 cy 15 cy
dct04	Maine Yankee 345kV	2 ϕ	0.00118+j0.00857 0.00115+j0.00846 0.00113+j0.00803	none	4 cy	Buxton 345kV Maxcys 345kV MIS transfer trip	4 cy 4 cy 15 cy
mis	Trip MIS	NA	NA	none	NA	NA	NA
ph2	Trip Phase II HVDC	NA	NA	none	NA	NA	NA
ptlp	Trip Pt. Lepreau	NA	NA	none	NA	NA	NA
sbrk	Trip Seabrook	NA	NA	none	NA	NA	NA
wbrk	Trip Westbrook	NA	NA	none	NA	NA	NA
sc381*	Vermont Yankee 345kV	1 ϕ	0.0025+j0.0203 (0 to 4cy) 0.0033+j0.037 (4 to 10cy)	381	10 cy	Northfield 345kV VY Auto #4 115kV	4 cy 10 cy

*Table 2-5. Fault Scenario List (continued)
(Extreme Contingencies)*

ID	Fault Location	Type	Impedance (1st = existing, 2nd=2nd NB tie+SC)	Stuck Breaker	Near End Clearing	Far End Location	Clearing
ec312*	Northfield 345kV	3 ϕ /1 ϕ	0.0022+j0.0201	3T	8.7 cy	ALPS 345kV Berkshire Auto 115kV VY 345kV	4 cy 5 cy 8.7 cy
ec326*	Scobie 345kV	3 ϕ /1 ϕ	0.0053+j0.0280	9126	8 cy	Sandy Pond 345kV Lawrence Auto 34.5kV Buxton 345kV	4 cy 6 cy 8 cy
ec328*	Sherman Rd 345kV	3 ϕ /1 ϕ	0.0020+j0.0162	142	10.5 cy	N. Smith 345kV ANP 336 345kV	4 cy 10.5 cy
ec339	Tewksbury 345kV	3 ϕ /1 ϕ	0.00286+j0.0165	37-39	10.5 cy	Golden Hills 345kV Golden Hills Auto 115kV Sandy Pond 345kV	4 cy 5 cy 10.5 cy
ec342	Canal 345kV	3 ϕ	0.0+j0.0	312	10.5 cy	Pilgrim 345kV Auburn 345kV Canal Auto 115kV	4 cy 4 cy 10.5 cy
ec368*	Card 345kV	3 ϕ /1 ϕ	0.0044+j0.0211	2T	13.9 cy	Manchester 345kV Millstone 345kV	4 cy 13.9 cy
ec372-2	Mystic 345kV	3 ϕ /1 ϕ	0.000625+j0.00833	102	10.25 cy	Kingston 345kV Golden Hills	4 cy 10.25 cy
ec374	Buxton 345kV	3 ϕ /1 ϕ	0.00546+j0.0279 0.00546+j0.0278	K386-4	11.2 cy	Surowiec 345kV S. Gorham Auto 115kV Wyman 345kV	4 cy 11.2 cy 11.2 cy
ec377	Maine Yankee 345kV	3 ϕ	0.0+j0.0	K378-1	9.9 cy	Surowiec 345kV Mason Auto 115kV Mason Caps 115kV	4 cy 9.9 cy 9.9 cy
ec385	Deerfield 345kV	3 ϕ	0.0+j0.0	785	9 cy	Buxton 345kV Newington 345kV	4 cy 9 cy
ec388-1	Orrington 345kV	3 ϕ	0.0+j0.0	K388-3	11.3 cy	Maxcys 345kV Orrington T2 115kV	4 cy 11.3 cy
ec388-2	Orrington 345kV	3 ϕ	0.0+j0.0	K396/388	11.3 cy	Maxcys 345kV Keswick 345kV Chester SVC	4 cy 11.3 cy 11.3 cy
ecx388-1	Orrington 345kV	3 ϕ	0.0+j0.0	K396/388	11.3 cy	Maxcys 345kV Orrington T1, T2 115kV Keswick 345kV Chester SVC	4 cy 11.3 cy 11.3 cy 11.3 cy
ec391	Buxton 345kV	3 ϕ	0.0+j0.0	K391/386	11.2 cy	Scobie 345kV S. Gorham Auto 115kV Wyman 345kV	4 cy 11.2 cy 11.2 cy
ec394a*	Seabrook 345kV	3 ϕ /1 ϕ	0.00081+j0.01351	294	8 cy	Tewksbury 345kV Ward Hill Auto 345kV	4 cy 4 cy
ec394b	Tewksbury 345kV	3 ϕ /1 ϕ	0.00253+j0.0161	38-94	10.5 cy	Seabrook 345kV Ward Hill Auto 345kV Woburn 345kV	4 cy 4 cy 10.5 cy
ec396-1	Orrington 345kV	3 ϕ	0.0+j0.0	K396-1	11.3 cy	Keswick 345kV Chester SVC Orrington T1 115kV	4 cy 4 cy 11.3 cy

*Table 2-5. Fault Scenario List (continued)
(Extreme Contingencies)*

ID	Fault Location	Type	Impedance (1st = existing, 2nd=2nd NB tie+SC)	Stuck Breaker	Near End Clearing	Far End Location	Clearing
ec396-2	Orrington 345kV	3 ϕ	0.0+j0.0	K396/388	11.3 cy	Keswick 345kV Chester SVC Maxcys 345kV	4 cy 4 cy 11.3 cy
ecx396-1	Orrington 345kV	3 ϕ	0.0+j0.0	K396-1	11.3 cy	Keswick 345kV Chester SVC Orrington T1, T2 115kV Maxcys 345kV	4 cy 4 cy 11.3 cy 11.3 cy
ec3002	Keswick 345kV	3 ϕ	0.0+j0.0	K3-2	10 cy	Coleson Cove 345kV St Andre 345kV Block Madawaska	4 cy 10 cy 10 cy
ec3016	Orrington 345kV	3 ϕ	0.0+j0.0	K3016	11.5 cy	Pt. Lepreau 345kV Orrington T1 115kV	4 cy 11.5 cy
ec3016-2	Orrington 345kV	3 ϕ	0.0+j0.0	K4/3016	11.5 cy	Pt. Lepreau 345kV Orrington T2 115kV	4 cy 11.5 cy
ecort1-1	Orrington 345kV	3 ϕ	0.0+j0.0	K396-1	12 cy	Orrington T1 115kV Keswick 345kV Chester SVC	5 cy 12 cy 12 cy
ecort1-2	Orrington 345kV	3 ϕ	0.0+j0.0	K3016	12 cy	Orrington T1 115kV Pt. Lepreau 345kV	5 cy 12 cy
ecort2-1	Orrington 345kV	3 ϕ	0.0+j0.0	K388-3	12 cy	Orrington T2 115kV Maxcys 345Kv	5 cy 12 cy
ecort2-2	Orrington 345kV	3 ϕ	0.0+j0.0	K4/3016	12 cy	Orrington T2 115kV Pt. Lepreau 345Kv	5 cy 12 cy
ecxort1	Orrington 345kV	3 ϕ	0.0+j0.0	KBS3/4	11.3 cy	Orrington T1 115kV Maxcys 345kV Orrington T2 115kV Keswick 345kV Chester SVC	5 cy 11.3 cy 11.3 cy 11.3 cy 11.3 cy
ecwalauto	W Medway 345kV	3 ϕ /1 ϕ	0.000644+j0.00699	111	10.25 cy	Waltham 115kV W Walpole 345kV	5 cy 10.25 cy
ec212	Canal 345kV	3 ϕ	0.0+j0.0	212	13.5 cy	Carver 345kV Canal Bourne Auto 115kV	4 cy 13.5 cy

Notes: * = favorite seven