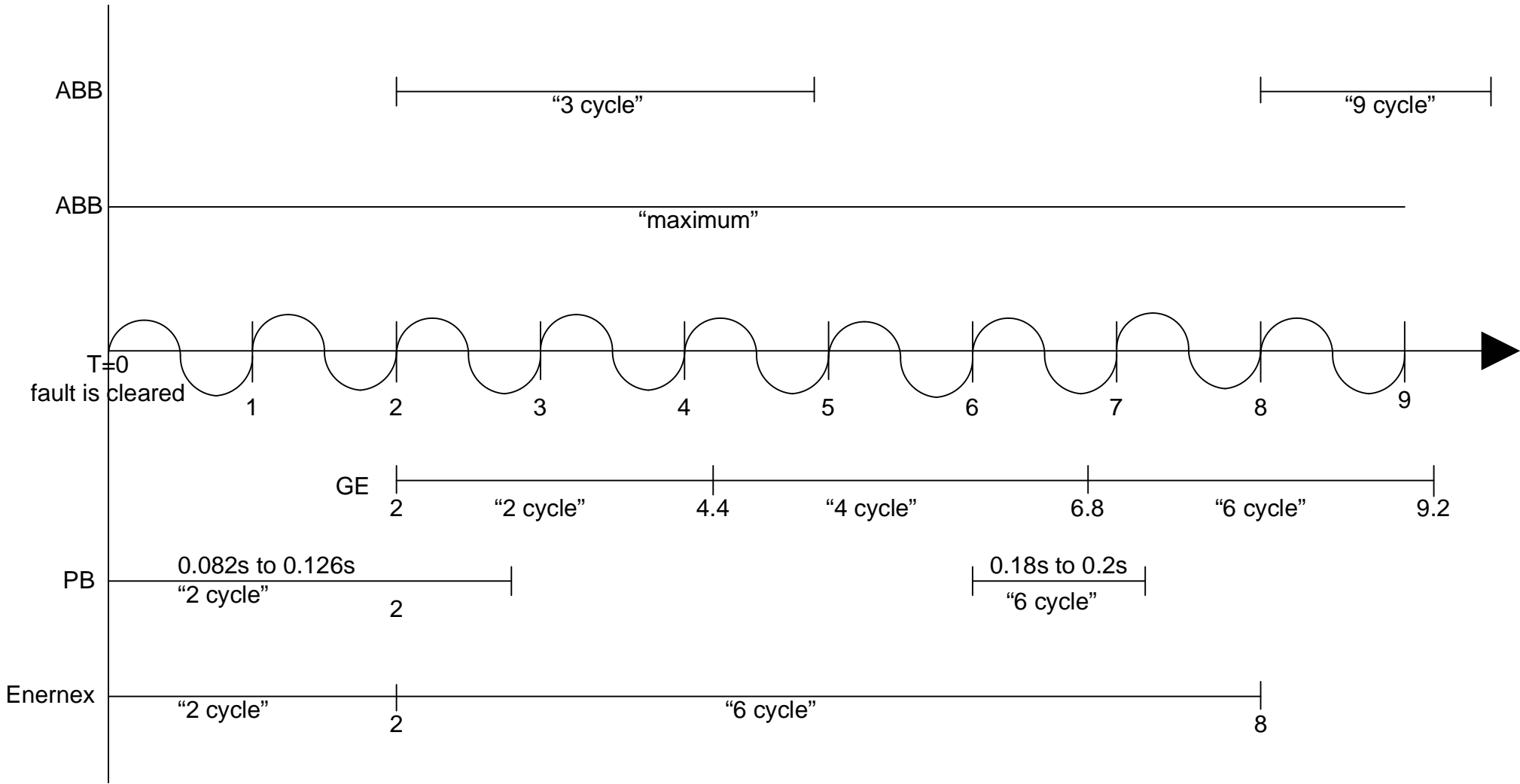


Explanation of Reporting

Various consultants were using varying reporting times for their results. The attached chart shows how each consultant has provided its data. Please note that in the case of EnerNex, some of the data has been reported in the manner listed on the following page, and recent data has been provided consistent with the reporting used by GE – noted with “GE 2C and 6C windows” at the top of the sheet.



CASE #: 2 (Model Rev A15) With GE 2C and 6C Windows

DATE: 12/11/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
	TYPE	LOCATION								2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C		
Case2_bas	No Fault		40	0	350				1.06	1.06	ED345	1.05	1.05	1.05	1.05	1.06	1.06	1.05	1.05	1.06	1.06	1.05	1.05	1.05	1.05	1.03	1.03	1.04	1.04	1.03	1.03
Case2_F1	3 Phase	Plumtree	40	0	350				1.39	1.31	PT345	1.39	1.28	1.30	1.22	1.34	1.28	1.21	1.20	1.35	1.31	1.23	1.19	1.26	1.21	1.13	1.13	1.26	1.23	1.23	1.17
Case2_F2	3 Phase	East Devon	40	0	350				1.56	1.44	ED345	1.38	1.33	1.39	1.33	1.45	1.36	1.31	1.22	1.56	1.44	1.23	1.18	1.27	1.22	1.24	1.17	1.39	1.31	1.38	1.28
Case2_F3	1 Phase	East Devon	40	0	350				1.09	1.06	NW345	1.08	1.05	1.07	1.04	1.09	1.06	1.05	1.04	1.07	1.06	1.07	1.04	1.05	1.04	1.04	1.03	1.07	1.04	1.05	1.03
Case2_F4	3 Phase	Norwalk Junction	40	0	350				1.48	1.42	ED345	1.23	1.27	1.24	1.27	1.43	1.38	1.28	1.25	1.48	1.42	1.29	1.23	1.28	1.28	1.16	1.17	1.23	1.24	1.20	1.22
Case2_F5	3 Phase	East Devon	40	0	350				1.43	1.38	NW345	1.35	1.36	1.33	1.31	1.43	1.38	1.31	1.30	1.42	1.38	1.27	1.22	1.30	1.28	1.19	1.16	1.31	1.31	1.28	1.26
Case2_F6	3 Phase Bt	Norwalk 345	40	0	350				1.49	1.44	ED345	1.37	1.31	1.32	1.30	1.44	1.39	1.32	1.32	1.49	1.44	1.28	1.22	1.33	1.25	1.20	1.18	1.31	1.29	1.27	1.27
Case2_F7	3 Phase Bt	Plumtree 345	40	0	350				1.31	1.25	ED345	1.27	1.24	1.29	1.23	1.29	1.25	1.22	1.19	1.31	1.25	1.19	1.18	1.21	1.17	1.16	1.13	1.30	1.21	1.28	1.20
Case2_bas	No Fault		40	0	350	PT345-LM34	1.07	1.07	ED345	1.07	1.07	1.05	1.05	1.07	1.07	1.05	1.05	1.07	1.07	1.05	1.05	1.05	1.05	1.03	1.03	1.05	1.05	1.04	1.04	1.04	1.04
Case2_F2	3 Phase	East Devon	40	0	350	PT345-LM34	1.55	1.30	ED345	1.34	1.22	1.31	1.19	1.46	1.23	1.28	1.09	1.55	1.30	1.09	1.08	1.16	1.05	1.07	1.07	1.28	1.14	1.19	1.19	1.11	1.11
Case2_F3	1 Phase	East Devon	40	0	350	PT345-LM34	1.10	1.08	ED345	1.09	1.07	1.06	1.06	1.09	1.08	1.06	1.05	1.10	1.08	1.06	1.04	1.05	1.04	1.04	1.03	1.06	1.05	1.06	1.06	1.04	1.04
Case2_F4	3 Phase	Norwalk Junction	40	0	350	PT345-LM34	1.44	1.41	ED345	1.28	1.21	1.28	1.21	1.40	1.35	1.24	1.24	1.44	1.41	1.21	1.20	1.26	1.24	1.14	1.12	1.25	1.21	1.28	1.19	1.19	1.19
Case2_F5	3 Phase	East Devon	40	0	350	PT345-LM34	1.50	1.45	PT345	1.50	1.45	1.37	1.36	1.48	1.45	1.33	1.32	1.45	1.42	1.25	1.21	1.27	1.25	1.17	1.13	1.35	1.32	1.28	1.28	1.25	1.25
Case2_F6	3 Phase Bt	Norwalk 345	40	0	350	PT345-LM34	1.51	1.47	ED345	1.45	1.40	1.37	1.32	1.48	1.42	1.38	1.31	1.51	1.47	1.28	1.24	1.31	1.25	1.22	1.16	1.34	1.32	1.33	1.29	1.29	
Case2_F7	3 Phase Bt	Plumtree 345	40	0	350	PT345-LM34	1.37	1.28	PT345	1.37	1.26	1.26	1.22	1.31	1.26	1.20	1.18	1.31	1.28	1.18	1.18	1.21	1.20	1.11	1.11	1.25	1.21	1.15	1.16	1.16	1.16
Case2_bas	No Fault		40	0	350	BK345-ED34	1.06	1.06	ED345	1.05	1.05	1.04	1.04	1.06	1.04	1.04	1.06	1.06	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.04	1.04	1.03	1.03	1.03
Case2_F1	3 Phase	Plumtree	40	0	350	BK345-ED34	1.37	1.20	ED345	1.31	1.20	1.25	1.15	1.29	1.14	1.15	1.08	1.37	1.15	1.07	1.07	1.07	1.07	1.09	1.08	1.23	1.15	1.14	1.14	1.16	1.16
Case2_F4	3 Phase	Norwalk Junction	40	0	350	BK345-ED34	1.59	1.46	ED345	1.18	1.17	1.21	1.18	1.54	1.38	1.32	1.20	1.59	1.46	1.10	1.07	1.22	1.14	1.07	1.04	1.21	1.16	1.16	1.12	1.12	1.12
Case2_F5	3 Phase	East Devon	40	0	350	BK345-ED34	1.53	1.46	ED345	1.34	1.30	1.28	1.26	1.44	1.38	1.27	1.26	1.53	1.46	1.16	1.14	1.20	1.18	1.16	1.13	1.27	1.24	1.28	1.20	1.20	1.20
Case2_F6	3 Phase Bt	Norwalk 345	40	0	350	BK345-ED34	1.64	1.49	ED345	1.38	1.32	1.35	1.33	1.47	1.38	1.35	1.28	1.64	1.49	1.18	1.13	1.26	1.21	1.20	1.15	1.35	1.31	1.32	1.32	1.32	1.32
Case2_F7	3 Phase Bt	Plumtree 345	40	0	350	BK345-ED34	1.40	1.30	ED345	1.31	1.26	1.26	1.23	1.36	1.27	1.22	1.16	1.40	1.30	1.12	1.09	1.15	1.12	1.13	1.11	1.25	1.23	1.20	1.20	1.20	1.20
Case2_bas	No Fault		40	0	350	NE138-NO13	1.06	1.06	ED345	1.05	1.05	1.04	1.04	1.05	1.05	1.05	1.05	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.03	1.03	1.04	1.04	1.03	1.03	1.03
Case2_F1	3 Phase	Plumtree	40	0	350	NE138-NO13	1.31	1.21	PT345	1.31	1.20	1.26	1.21	1.24	1.15	1.21	1.14	1.23	1.14	1.11	1.08	1.11	1.06	1.08	1.07	1.23	1.19	1.20	1.14	1.14	1.14
Case2_F2	3 Phase	East Devon	40	0	350	NE138-NO13	1.44	1.28	ED345	1.23	1.20	1.30	1.24	1.35	1.21	1.28	1.21	1.44	1.28	1.18	1.13	1.19	1.13	1.17	1.12	1.29	1.21	1.28	1.21	1.21	1.21
Case2_F3	1 Phase	East Devon	40	0	350	NE138-NO13	1.06	1.06	NW345	1.05	1.05	1.05	1.04	1.06	1.06	1.05	1.05	1.06	1.06	1.06	1.04	1.05	1.04	1.03	1.02	1.04	1.04	1.04	1.04	1.03	1.03
Case2_F4	3 Phase	Norwalk Junction	40	0	350	NE138-NO13	1.30	1.28	ED345	1.18	1.21	1.17	1.18	1.30	1.26	1.27	1.24	1.30	1.28	1.17	1.13	1.20	1.16	1.15	1.11	1.18	1.17	1.15	1.16	1.16	1.16
Case2_F5	3 Phase	East Devon	40	0	350	NE138-NO13	1.36	1.33	NW345	1.30	1.30	1.33	1.32	1.36	1.31	1.34	1.33	1.36	1.33	1.24	1.16	1.22	1.20	1.20	1.16	1.33	1.31	1.30	1.26	1.26	
Case2_F6	3 Phase Bt	Norwalk 345	40	0	350	NE138-NO13	1.38	1.34	ED345	1.25	1.24	1.32	1.28	1.34	1.30	1.34	1.32	1.38	1.34	1.22	1.17	1.23	1.16	1.19	1.14	1.31	1.28	1.30	1.25	1.25	
Case2_F7	3 Phase Bt	Plumtree 345	40	0	350	NE138-NO13	1.33	1.26	PT115	1.24	1.22	1.33	1.26	1.24	1.21	1.22	1.17	1.26	1.21	1.16	1.12	1.19	1.12	1.13	1.12	1.31	1.23	1.29	1.20	1.20	
Case2_bas	No Fault		40	0	350	LM345-PLVA	1.07	1.07	ED345	1.06	1.06	1.05	1.05	1.07	1.07	1.05	1.05	1.07	1.07	1.05	1.05	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.04	1.04
Case2_F1	3 Phase	Plumtree	40	0	350	LM345-PLVA	1.40	1.31	PT345	1.40	1.31	1.33	1.28	1.34	1.29	1.19	1.19	1.34	1.30	1.20	1.18	1.26	1.22	1.18	1.16	1.33	1.27	1.25	1.27	1.27	
Case2_F2	3 Phase	East Devon	40	0	350	LM345-PLVA	1.67	1.40	ED345	1.41	1.28	1.35	1.26	1.49	1.31	1.33	1.19	1.67	1.40	1.24	1.18	1.29	1.18	1.21	1.17	1.33	1.24	1.31	1.21	1.21	
Case2_F3	1 Phase	East Devon	40	0	350	LM345-PLVA	1.08	1.07	ED345	1.07	1.06	1.06	1.05	1.07	1.07	1.05	1.05	1.08	1.07	1.06	1.05	1.05	1.05	1.03	1.03	1.05	1.05	1.04	1.04	1.04	1.04
Case2_F4	3 Phase	Norwalk Junction	40	0	350	LM345-PLVA	1.45	1.43	ED345	1.24	1.23	1.23	1.21	1.41	1.38	1.26	1.23	1.45	1.43	1.28	1.21	1.29	1.23	1.19	1.15	1.22	1.20	1.21	1.27	1.27	
Case2_F5	3 Phase	East Devon	40	0	350	LM345-PLVA	1.49	1.43	ED345	1.44	1.40	1.36	1.34	1.46	1.42	1.33	1.31	1.49	1.43	1.30	1.22	1.32	1.29	1.23	1.20	1.36	1.31	1.33	1.28	1.28	
Case2_F6	3 Phase Bt	Norwalk 345	40	0	350	LM345-PLVA	1.53	1.45	ED345	1.45	1.37	1.37	1.32	1.49	1.42	1.41	1.29	1.53	1.45	1.29	1.22	1.34	1.24	1.24	1.18	1.35	1.31	1.30	1.27	1.27	
Case2_F7	3 Phase Bt	Plumtree 345	40	0	350	LM345-PLVA	1.36	1.31	ED345	1.34	1.31	1.30	1.30	1.32	1.27	1.21	1.19	1.36	1.29	1.19	1.14	1.22	1.19	1.16	1.14	1.28	1.28	1.22	1.21	1.21	

CASE #: 2 (Model Rev A15) With GE 2C and 6C Windows

DATE: 12/11/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
	TYPE	LOCATION								2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C			
Case2_bas	No Fault		50	302	490				1.05	1.05	ED345	1.04	1.04	1.04	1.04	1.05	1.05	1.04	1.04	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.03	1.03	
Case2_F1_3	Phase Plumtree		50	302	490				1.34	1.22	PT345	1.34	1.19	1.19	1.15	1.27	1.19	1.18	1.15	1.26	1.20	1.17	1.10	1.17	1.08	1.08	1.08	1.30	1.22	1.20	1.13	
Case2_F2_3	Phase East Devon		50	302	490				1.52	1.34	ED345	1.35	1.27	1.32	1.23	1.44	1.30	1.30	1.21	1.52	1.34	1.17	1.10	1.23	1.12	1.15	1.13	1.31	1.23	1.22	1.13	
Case2_F3_1	Phase East Devon		50	302	490				1.08	1.05	BK345	1.05	1.04	1.03	1.03	1.05	1.04	1.04	1.03	1.05	1.05	1.08	1.05	1.04	1.04	1.03	1.03	1.05	1.03	1.03	1.03	
Case2_F4_3	Phase Norwalk Junction		50	302	490				1.43	1.39	ED345	1.19	1.20	1.20	1.21	1.37	1.34	1.27	1.25	1.43	1.39	1.22	1.19	1.22	1.19	1.16	1.13	1.22	1.23	1.18	1.20	
Case2_F5_3	Phase East Devon		50	302	490				1.39	1.34	ED345	1.34	1.28	1.35	1.34	1.36	1.30	1.28	1.28	1.39	1.29	1.34	1.19	1.28	1.27	1.17	1.14	1.33	1.29	1.27	1.21	
Case2_F6_3	Phase Bt Norwalk 345		50	302	490				1.45	1.37	ED345	1.30	1.27	1.29	1.25	1.39	1.31	1.29	1.24	1.45	1.37	1.29	1.20	1.27	1.18	1.17	1.14	1.38	1.31	1.27	1.25	
Case2_F7_3	Phase Bt Plumtree 345		50	302	490				1.33	1.30	STONY	1.28	1.23	1.23	1.16	1.26	1.21	1.19	1.18	1.25	1.22	1.19	1.15	1.16	1.13	1.16	1.13	1.33	1.30	1.21	1.19	
Case2_bas	No Fault		50	302	490	PT345-LM34	1.05	1.05	ED345	1.04	1.04	1.04	1.04	1.05	1.05	1.03	1.03	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.05	1.05	1.03	1.03	1.04	1.04	1.03	1.03
Case2_F2_3	Phase East Devon		50	302	490	PT345-LM34	1.43	1.16	ED345	1.31	1.14	1.17	1.09	1.37	1.15	1.13	1.04	1.43	1.16	1.11	1.07	1.09	1.03	1.08	1.09	1.23	1.11	1.14	1.14	1.07		
Case2_F3_1	Phase East Devon		50	302	490	PT345-LM34	1.09	1.06	BK345	1.04	1.03	1.03	1.03	1.05	1.04	1.02	1.02	1.05	1.04	1.09	1.06	1.04	1.04	1.03	1.03	1.03	1.03	1.03	1.02	1.02	1.02	
Case2_F4_3	Phase Norwalk Junction		50	302	490	PT345-LM34	1.36	1.32	ED345	1.28	1.16	1.28	1.16	1.33	1.30	1.21	1.20	1.36	1.32	1.17	1.14	1.21	1.15	1.14	1.11	1.26	1.15	1.16	1.14	1.11	1.19	
Case2_F5_3	Phase East Devon		50	302	490	PT345-LM34	1.45	1.34	ED345	1.38	1.33	1.29	1.30	1.43	1.34	1.29	1.26	1.45	1.31	1.27	1.16	1.24	1.22	1.14	1.14	1.35	1.29	1.26	1.22	1.22		
Case2_F6_3	Phase Bt Norwalk 345		50	302	490	PT345-LM34	1.43	1.32	ED345	1.37	1.27	1.29	1.22	1.39	1.30	1.28	1.21	1.43	1.32	1.17	1.14	1.21	1.12	1.13	1.10	1.27	1.22	1.20	1.16	1.16		
Case2_F7_3	Phase Bt Plumtree 345		50	302	490	PT345-LM34	1.32	1.17	STONY	1.32	1.17	1.18	1.13	1.24	1.16	1.14	1.12	1.22	1.17	1.10	1.08	1.09	1.07	1.07	1.06	1.32	1.17	1.20	1.11	1.11		
Case2_bas	No Fault		50	302	490	BK345-ED34	1.04	1.04	ED345	1.03	1.03	1.03	1.03	1.04	1.04	1.04	1.03	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.03	1.03	1.03	1.03
Case2_F1_3	Phase Plumtree		50	302	490	BK345-ED34	1.23	1.11	STONY	1.20	1.08	1.13	1.09	1.18	1.07	1.06	1.04	1.23	1.08	1.18	1.09	1.02	1.03	1.06	1.06	1.23	1.11	1.12	1.06	1.12	1.06	
Case2_F4_3	Phase Norwalk Junction		50	302	490	BK345-ED34	1.53	1.38	ED345	1.12	1.13	1.14	1.14	1.45	1.31	1.21	1.15	1.53	1.38	1.07	1.07	1.13	1.07	1.07	1.06	1.15	1.15	1.12	1.12	1.12		
Case2_F5_3	Phase East Devon		50	302	490	BK345-ED34	1.49	1.34	ED345	1.30	1.26	1.31	1.29	1.41	1.29	1.25	1.24	1.49	1.34	1.13	1.10	1.21	1.16	1.11	1.09	1.29	1.27	1.23	1.18	1.18		
Case2_F6_3	Phase Bt Norwalk 345		50	302	490	BK345-ED34	1.53	1.37	ED345	1.29	1.23	1.29	1.25	1.40	1.29	1.27	1.21	1.53	1.37	1.12	1.08	1.21	1.11	1.17	1.10	1.34	1.22	1.25	1.18	1.18		
Case2_F7_3	Phase Bt Plumtree 345		50	302	490	BK345-ED34	1.38	1.36	STONY	1.28	1.22	1.22	1.19	1.29	1.22	1.18	1.15	1.35	1.22	1.09	1.08	1.10	1.10	1.16	1.14	1.38	1.36	1.25	1.25	1.25		
Case2_bas	No Fault		50	302	490	NE138-NO13	1.04	1.04	ESHOR	1.03	1.03	1.03	1.03	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.03	1.03	1.03	1.03
Case2_F1_3	Phase Plumtree		50	302	490	NE138-NO13	1.22	1.12	STONY	1.17	1.06	1.08	1.05	1.14	1.04	1.07	1.07	1.14	1.07	1.13	1.06	1.04	1.05	1.06	1.06	1.22	1.12	1.14	1.07	1.07		
Case2_F2_3	Phase East Devon		50	302	490	NE138-NO13	1.31	1.16	ED345	1.21	1.15	1.16	1.11	1.29	1.16	1.19	1.10	1.31	1.16	1.09	1.07	1.12	1.05	1.13	1.08	1.19	1.16	1.12	1.09	1.12	1.09	
Case2_F3_1	Phase East Devon		50	302	490	NE138-NO13	1.06	1.04	BK345	1.03	1.03	1.02	1.02	1.04	1.03	1.04	1.03	1.04	1.04	1.06	1.04	1.04	1.04	1.04	1.02	1.02	1.03	1.02	1.02	1.02	1.02	
Case2_F4_3	Phase Norwalk Junction		50	302	490	NE138-NO13	1.28	1.24	ED345	1.16	1.14	1.16	1.15	1.25	1.22	1.23	1.20	1.28	1.24	1.13	1.11	1.12	1.08	1.11	1.12	1.16	1.16	1.17	1.15	1.15		
Case2_F5_3	Phase East Devon		50	302	490	NE138-NO13	1.33	1.28	ED345	1.27	1.24	1.30	1.28	1.32	1.25	1.29	1.23	1.33	1.22	1.22	1.13	1.18	1.17	1.15	1.09	1.28	1.28	1.21	1.18	1.18		
Case2_F6_3	Phase Bt Norwalk 345		50	302	490	NE138-NO13	1.33	1.25	ED345	1.23	1.18	1.22	1.18	1.29	1.22	1.30	1.24	1.33	1.25	1.21	1.11	1.19	1.08	1.10	1.07	1.31	1.20	1.22	1.15	1.15		
Case2_F7_3	Phase Bt Plumtree 345		50	302	490	NE138-NO13	1.35	1.34	STONY	1.22	1.19	1.18	1.17	1.19	1.15	1.16	1.14	1.20	1.13	1.11	1.09	1.11	1.08	1.09	1.09	1.35	1.34	1.24	1.23	1.23		
Case2_bas	No Fault		50	302	490	LM345-PLVA	1.05	1.05	ED345	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.03	1.03	1.03	1.03	
Case2_F1_3	Phase Plumtree		50	302	490	LM345-PLVA	1.34	1.21	STONY	1.32	1.17	1.22	1.17	1.27	1.17	1.17	1.12	1.28	1.21	1.14	1.10	1.18	1.09	1.15	1.13	1.34	1.18	1.26	1.11	1.11		
Case2_F2_3	Phase East Devon		50	302	490	LM345-PLVA	1.48	1.24	ED345	1.40	1.23	1.29	1.17	1.43	1.24	1.21	1.10	1.48	1.22	1.20	1.12	1.24	1.08	1.22	1.12	1.28	1.24	1.25	1.19	1.19		
Case2_F3_1	Phase East Devon		50	302	490	LM345-PLVA	1.07	1.05	BK345	1.05	1.04	1.04	1.03	1.05	1.05	1.03	1.03	1.06	1.05	1.07	1.05	1.04	1.04	1.03	1.03	1.04	1.03	1.03	1.03	1.03	1.03	
Case2_F4_3	Phase Norwalk Junction		50	302	490	LM345-PLVA	1.38	1.34	ED345	1.23	1.22	1.25	1.24	1.34	1.30	1.24	1.23	1.38	1.34	1.30	1.20	1.31	1.18	1.25	1.19	1.28	1.22	1.19	1.14	1.14		
Case2_F5_3	Phase East Devon		50	302	490	LM345-PLVA	1.43	1.33	NW345	1.38	1.32	1.30	1.30	1.43	1.33	1.27	1.23	1.41	1.29	1.33	1.19	1.30	1.22	1.26	1.15	1.36	1.29	1.25	1.19	1.19		
Case2_F6_3	Phase Bt Norwalk 345		50	302	490	LM345-PLVA	1.44	1.30	ED345	1.34	1.25	1.27	1.20	1.40	1.29	1.27	1.20	1.44	1.30	1.25	1.20	1.30	1.14	1.29	1.12	1.28	1.23	1.25	1.15	1.15		
Case2_F7_3	Phase Bt Plumtree 345		50	302	490	LM345-PLVA	1.37	1.24	STONY	1.25	1.18	1.21	1.14	1.25	1.17	1.16	1.11	1.24	1.18	1.18	1.11	1.20	1.08	1.12	1.11	1.37	1.24	1.23	1.15	1.15		

CASE #: 2 (Model Rev A15) With GE 2C and 6C Windows

DATE: 12/11/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
	TYPE	LOCATION							2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C				
Case2_bas	No Fault		70	1249	600				1.10	1.10	FB115	1.05	1.05	1.07	1.07	1.06	1.06	1.06	1.06	1.06	1.06	1.07	1.07	1.09	1.09	1.1	1.1	1.07	1.07	1.09	1.09	
Case2_F1_3	Phase Plumtree		70	1249	600				1.29	1.24	ROCKY	1.24	1.14	1.15	1.2	1.19	1.13	1.16	1.11	1.18	1.16	1.16	1.11	1.08	1.07	1.14	1.13	1.23	1.22	1.29	1.24	
Case2_F2_3	Phase East Devon		70	1249	600				1.36	1.24	ROCKY	1.23	1.18	1.25	1.17	1.28	1.18	1.27	1.16	1.32	1.19	1.28	1.15	1.21	1.08	1.22	1.16	1.31	1.23	1.36	1.24	
Case2_F3_1	Phase East Devon		70	1249	600				1.15	1.10	BK345	1.07	1.05	1.08	1.06	1.06	1.05	1.06	1.05	1.07	1.06	1.15	1.09	1.09	1.09	1.1	1.1	1.08	1.07	1.11	1.08	
Case2_F4_3	Phase Norwalk Junction		70	1249	600				1.53	1.47	ROCKY	1.17	1.14	1.18	1.16	1.27	1.22	1.28	1.19	1.27	1.22	1.18	1.12	1.22	1.18	1.25	1.19	1.2	1.19	1.53	1.47	
Case2_F5_3	Phase East Devon		70	1249	600				1.63	1.54	ROCKY	1.2	1.19	1.24	1.22	1.27	1.15	1.19	1.16	1.32	1.18	1.23	1.17	1.25	1.15	1.37	1.31	1.28	1.21	1.63	1.54	
Case2_F6_3	Phase Bt Norwalk 345		70	1249	600				1.48	1.34	ROCKY	1.18	1.15	1.22	1.18	1.19	1.14	1.21	1.14	1.26	1.17	1.17	1.1	1.21	1.11	1.31	1.27	1.24	1.18	1.48	1.34	
Case2_F7_3	Phase Bt Plumtree 345		70	1249	600				1.38	1.41	ROCKY	1.22	1.14	1.16	1.13	1.21	1.15	1.18	1.14	1.21	1.21	1.2	1.12	1.14	1.1	1.21	1.12	1.24	1.23	1.38	1.41	
Case2_bas	No Fault		70	1249	600	PT345-LM34	1.09	1.09			FB115	1.06	1.06	1.07	1.07	1.06	1.06	1.05	1.05	1.06	1.06	1.06	1.06	1.08	1.08	1.09	1.09	1.07	1.07	1.08	1.08	
Case2_F2_3	Phase East Devon		70	1249	600	PT345-LM34	1.28	1.15			ED345	1.16	1.08	1.14	1.09	1.2	1.07	1.17	1.04	1.28	1.07	1.18	1.11	1.08	1.08	1.1	1.08	1.19	1.15	1.26	1.14	
Case2_F3_1	Phase East Devon		70	1249	600	PT345-LM34	1.12	1.08			BK345	1.06	1.05	1.05	1.05	1.06	1.05	1.04	1.04	1.06	1.05	1.12	1.07	1.07	1.07	1.08	1.08	1.06	1.06	1.07	1.07	
Case2_F4_3	Phase Norwalk Junction		70	1249	600	PT345-LM34	1.67	1.53			ROCKY	1.21	1.15	1.22	1.15	1.25	1.19	1.19	1.17	1.22	1.19	1.09	1.06	1.09	1.07	1.26	1.21	1.2	1.14	1.67	1.53	
Case2_F5_3	Phase East Devon		70	1249	600	PT345-LM34	1.43	1.43			ROCKY	1.24	1.16	1.25	1.19	1.23	1.17	1.17	1.14	1.3	1.16	1.23	1.11	1.19	1.1	1.25	1.22	1.23	1.2	1.43	1.43	
Case2_F6_3	Phase Bt Norwalk 345		70	1249	600	PT345-LM34	1.36	1.31			ROCKY	1.25	1.22	1.25	1.22	1.21	1.18	1.17	1.13	1.17	1.16	1.15	1.09	1.15	1.07	1.2	1.14	1.26	1.17	1.36	1.31	
Case2_F7_3	Phase Bt Plumtree 345		70	1249	600	PT345-LM34	1.36	1.25			ROCKY	1.22	1.15	1.16	1.18	1.18	1.13	1.11	1.11	1.16	1.13	1.09	1.09	1.07	1.08	1.13	1.1	1.24	1.24	1.36	1.25	
Case2_bas	No Fault		70	1249	600	BK345-ED34	1.09	1.09			FB115	1.05	1.05	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.07	1.07	1.09	1.09	1.09	1.09	1.09	1.07	1.07	1.08	1.08
Case2_F1_3	Phase Plumtree		70	1249	600	BK345-ED34	1.26	1.18			ROCKY	1.18	1.1	1.14	1.15	1.15	1.07	1.1	1.04	1.1	1.08	1.2	1.1	1.08	1.08	1.14	1.14	1.21	1.16	1.26	1.18	
Case2_F4_3	Phase Norwalk Junction		70	1249	600	BK345-ED34	1.41	1.34			ROCKY	1.15	1.11	1.18	1.12	1.33	1.2	1.23	1.15	1.33	1.23	1.11	1.11	1.13	1.06	1.17	1.16	1.18	1.16	1.41	1.34	
Case2_F5_3	Phase East Devon		70	1249	600	BK345-ED34	1.45	1.33			ROCKY	1.22	1.17	1.23	1.21	1.26	1.2	1.2	1.16	1.26	1.19	1.12	1.1	1.16	1.1	1.23	1.2	1.17	1.16	1.45	1.33	
Case2_F6_3	Phase Bt Norwalk 345		70	1249	600	BK345-ED34	1.42	1.26			ROCKY	1.22	1.17	1.29	1.2	1.25	1.19	1.21	1.17	1.27	1.22	1.12	1.09	1.16	1.08	1.21	1.16	1.24	1.17	1.42	1.26	
Case2_F7_3	Phase Bt Plumtree 345		70	1249	600	BK345-ED34	1.38	1.35			ROCKY	1.21	1.12	1.12	1.14	1.18	1.12	1.15	1.11	1.24	1.18	1.17	1.12	1.1	1.06	1.16	1.13	1.21	1.24	1.38	1.35	
Case2_bas	No Fault		70	1249	600	NE138-NO13	1.09	1.09			FB115	1.04	1.04	1.06	1.06	1.05	1.05	1.07	1.07	1.05	1.05	1.06	1.06	1.08	1.08	1.09	1.09	1.06	1.06	1.08	1.08	
Case2_F1_3	Phase Plumtree		70	1249	600	NE138-NO13	1.22	1.18			ROCKY	1.14	1.1	1.15	1.15	1.08	1.06	1.09	1.06	1.08	1.08	1.14	1.09	1.07	1.05	1.1	1.09	1.19	1.13	1.22	1.18	
Case2_F2_3	Phase East Devon		70	1249	600	NE138-NO13	1.30	1.13			BK345	1.12	1.05	1.11	1.07	1.09	1.06	1.22	1.08	1.12	1.06	1.3	1.13	1.1	1.1	1.1	1.07	1.15	1.1	1.29	1.11	
Case2_F3_1	Phase East Devon		70	1249	600	NE138-NO13	1.11	1.08			BK345	1.05	1.03	1.06	1.05	1.05	1.04	1.06	1.06	1.05	1.04	1.11	1.07	1.07	1.07	1.08	1.08	1.06	1.05	1.09	1.07	
Case2_F4_3	Phase Norwalk Junction		70	1249	600	NE138-NO13	1.48	1.43			ROCKY	1.15	1.11	1.16	1.13	1.13	1.13	1.21	1.15	1.12	1.14	1.11	1.06	1.09	1.09	1.12	1.11	1.2	1.18	1.48	1.43	
Case2_F5_3	Phase East Devon		70	1249	600	NE138-NO13	1.50	1.35			ROCKY	1.13	1.07	1.17	1.12	1.15	1.06	1.19	1.13	1.26	1.11	1.22	1.1	1.13	1.07	1.24	1.21	1.23	1.16	1.5	1.35	
Case2_F6_3	Phase Bt Norwalk 345		70	1249	600	NE138-NO13	1.34	1.27			ROCKY	1.11	1.07	1.16	1.11	1.12	1.07	1.19	1.12	1.14	1.1	1.12	1.08	1.08	1.06	1.2	1.15	1.19	1.12	1.34	1.27	
Case2_F7_3	Phase Bt Plumtree 345		70	1249	600	NE138-NO13	1.42	1.37			ROCKY	1.14	1.1	1.1	1.13	1.1	1.07	1.16	1.11	1.1	1.11	1.16	1.08	1.09	1.08	1.13	1.1	1.2	1.22	1.42	1.37	
Case2_bas	No Fault		70	1249	600	LM345-PLVA	1.10	1.10			FB115	1.07	1.07	1.08	1.08	1.07	1.07	1.06	1.06	1.07	1.07	1.07	1.07	1.09	1.09	1.1	1.1	1.08	1.08	1.09	1.09	
Case2_F1_3	Phase Plumtree		70	1249	600	LM345-PLVA	1.37	1.33			ROCKY	1.2	1.14	1.17	1.19	1.16	1.11	1.16	1.09	1.16	1.12	1.16	1.12	1.09	1.07	1.16	1.16	1.34	1.22	1.37	1.33	
Case2_F2_3	Phase East Devon		70	1249	600	LM345-PLVA	1.29	1.22			ROCKY	1.17	1.14	1.21	1.15	1.2	1.13	1.2	1.09	1.23	1.13	1.22	1.15	1.1	1.09	1.15	1.11	1.22	1.22	1.29	1.19	
Case2_F3_1	Phase East Devon		70	1249	600	LM345-PLVA	1.11	1.09			BK345	1.08	1.07	1.07	1.07	1.08	1.07	1.05	1.05	1.07	1.07	1.11	1.08	1.08	1.08	1.09	1.09	1.08	1.07	1.1	1.08	
Case2_F4_3	Phase Norwalk Junction		70	1249	600	LM345-PLVA	1.54	1.49			ROCKY	1.21	1.19	1.21	1.23	1.22	1.17	1.24	1.16	1.21	1.17	1.13	1.1	1.21	1.14	1.24	1.19	1.26	1.22	1.54	1.49	
Case2_F5_3	Phase East Devon		70	1249	600	LM345-PLVA	1.55	1.45			ROCKY	1.2	1.13	1.24	1.14	1.2	1.13	1.19	1.11	1.25	1.15	1.2	1.1	1.22	1.09	1.27	1.24	1.25	1.18	1.55	1.45	
Case2_F6_3	Phase Bt Norwalk 345		70	1249	600	LM345-PLVA	1.64	1.35			ROCKY	1.19	1.14	1.24	1.16	1.16	1.15	1.23	1.13	1.19	1.17	1.15	1.1	1.19	1.07	1.29	1.21	1.28	1.2	1.64	1.35	
Case2_F7_3	Phase Bt Plumtree 345		70	1249	600	LM345-PLVA	1.51	1.39			ROCKY	1.21	1.16	1.17	1.19	1.16	1.12	1.18	1.11	1.17	1.13	1.12	1.1	1.1	1.08	1.19	1.12	1.27	1.24	1.51	1.39	

CASE #: Case 2 (Model Rev 15)

DATE: 12/03/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																				
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY		
	TYPE	LOCATION							2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C		
Case2_bas	No Fault		40	0	350			1.06	1.06	ED345	1.05	1.05	1.05	1.05	1.06	1.06	1.05	1.05	1.06	1.06	1.05	1.05	1.05	1.05	1.03	1.03	1.04	1.04	1.03	1.03
Case2_F1	3 Phase	Plumtree	40	0	350			1.41	1.39	PT345	1.41	1.39	1.36	1.30	1.38	1.34	1.21	1.21	1.40	1.35	1.25	1.23	1.26	1.26	1.26	1.13	1.32	1.26	1.31	1.23
Case2_F2	3 Phase	East Devon	40	0	350			1.62	1.56	ED345	1.39	1.38	1.39	1.39	1.51	1.45	1.32	1.31	1.62	1.56	1.24	1.23	1.30	1.27	1.23	1.24	1.36	1.39	1.44	1.38
Case2_F3	1 Phase	East Devon	40	0	350			1.38	1.09	ED345	1.18	1.08	1.12	1.07	1.27	1.09	1.13	1.05	1.38	1.07	1.14	1.07	1.12	1.05	1.09	1.04	1.12	1.07	1.09	1.05
Case2_F4	3 Phase	Norwalk Junction	40	0	350			1.57	1.48	NW345	1.22	1.27	1.24	1.27	1.57	1.43	1.36	1.28	1.52	1.48	1.29	1.29	1.32	1.28	1.17	1.17	1.25	1.24	1.24	1.22
Case2_F5	3 Phase	Singer	40	0	350			1.74	1.43	ED345	1.34	1.36	1.40	1.33	1.57	1.43	1.41	1.31	1.74	1.42	1.32	1.27	1.43	1.30	1.22	1.19	1.39	1.31	1.34	1.28
Case2_F6	3 Phase Bt	Norwalk 345	40	0	350			1.60	1.49	NW345	1.42	1.37	1.37	1.32	1.60	1.44	1.43	1.32	1.57	1.49	1.36	1.28	1.41	1.33	1.27	1.20	1.37	1.31	1.33	1.27
Case2_F7	3 Phase Bt	Plumtree 345	40	0	350			1.54	1.31	PT345	1.54	1.27	1.46	1.29	1.37	1.29	1.25	1.22	1.38	1.31	1.26	1.19	1.27	1.21	1.18	1.16	1.46	1.30	1.40	1.28
Case2_bas	No Fault		40	0	350 PT345-LM345			1.07	1.07	ED345	1.07	1.07	1.05	1.05	1.07	1.07	1.05	1.05	1.07	1.05	1.05	1.05	1.03	1.03	1.03	1.05	1.05	1.04	1.04	1.04
Case2_F2	3 Phase	East Devon	40	0	350 PT345-LM345			1.62	1.55	ED345	1.40	1.34	1.36	1.31	1.52	1.46	1.33	1.28	1.62	1.55	1.20	1.09	1.15	1.16	1.14	1.07	1.31	1.28	1.27	1.19
Case2_F3	1 Phase	East Devon	40	0	350 PT345-LM345			1.22	1.1	ED345	1.19	1.09	1.11	1.06	1.19	1.09	1.10	1.06	1.22	1.10	1.15	1.06	1.09	1.05	1.09	1.04	1.11	1.06	1.12	1.06
Case2_F4	3 Phase	Norwalk Junction	40	0	350 PT345-LM345			1.52	1.44	NW345	1.21	1.28	1.21	1.28	1.52	1.40	1.31	1.24	1.47	1.44	1.26	1.21	1.28	1.26	1.14	1.14	1.24	1.25	1.27	1.28
Case2_F5	3 Phase	Singer	40	0	350 PT345-LM345			1.63	1.5	ED345	1.60	1.50	1.50	1.37	1.59	1.48	1.40	1.33	1.63	1.45	1.32	1.25	1.33	1.27	1.24	1.17	1.46	1.35	1.40	1.28
Case2_F6	3 Phase Bt	Norwalk 345	40	0	350 PT345-LM345			1.54	1.51	NW345	1.50	1.45	1.39	1.37	1.54	1.48	1.37	1.38	1.53	1.51	1.29	1.28	1.30	1.31	1.23	1.22	1.38	1.34	1.36	1.33
Case2_F7	3 Phase Bt	Plumtree 345	40	0	350 PT345-LM345			1.37	1.37	PT345	1.37	1.37	1.29	1.26	1.36	1.31	1.19	1.20	1.37	1.31	1.18	1.18	1.20	1.21	1.11	1.11	1.29	1.25	1.22	1.16
Case2_bas	No Fault		40	0	350 BK345-ED345			1.06	1.06	ED345	1.05	1.05	1.04	1.04	1.06	1.06	1.04	1.04	1.06	1.06	1.04	1.04	1.04	1.04	1.03	1.03	1.04	1.04	1.03	1.03
Case2_F1	3 Phase	Plumtree	40	0	350 BK345-ED345			1.39	1.37	ED345	1.36	1.31	1.27	1.25	1.31	1.29	1.10	1.15	1.39	1.37	1.11	1.07	1.08	1.07	1.28	1.09	1.28	1.23	1.34	1.15
Case2_F4	3 Phase	Norwalk Junction	40	0	350 BK345-ED345			1.57	1.59	ED345	1.21	1.18	1.22	1.21	1.57	1.54	1.32	1.32	1.54	1.59	1.11	1.10	1.18	1.22	1.09	1.07	1.26	1.21	1.23	1.16
Case2_F5	3 Phase	Singer	40	0	350 BK345-ED345			1.93	1.53	ED345	1.40	1.34	1.35	1.28	1.63	1.44	1.34	1.27	1.93	1.53	1.19	1.16	1.23	1.20	1.20	1.16	1.33	1.27	1.33	1.28
Case2_F6	3 Phase Bt	Norwalk 345	40	0	350 BK345-ED345			1.65	1.64	ED345	1.40	1.38	1.39	1.35	1.57	1.47	1.40	1.35	1.65	1.64	1.18	1.18	1.28	1.26	1.20	1.20	1.36	1.35	1.28	1.32
Case2_F7	3 Phase Bt	Plumtree 345	40	0	350 BK345-ED345			1.54	1.4	PT345	1.54	1.31	1.41	1.26	1.42	1.36	1.21	1.22	1.46	1.40	1.18	1.12	1.17	1.15	1.14	1.13	1.42	1.25	1.33	1.20
Case2_bas	No Fault		40	0	350 NE138-NO138			1.06	1.06	ED345	1.05	1.05	1.04	1.04	1.05	1.05	1.05	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.03	1.03	1.04	1.04	1.03	1.03
Case2_F1	3 Phase	Plumtree	40	0	350 NE138-NO138			1.31	1.31	PT345	1.31	1.31	1.19	1.26	1.23	1.24	1.22	1.21	1.23	1.23	1.14	1.11	1.11	1.11	1.19	1.08	1.17	1.23	1.25	1.20
Case2_F2	3 Phase	East Devon	40	0	350 NE138-NO138			1.44	1.44	ED345	1.21	1.23	1.27	1.30	1.35	1.35	1.27	1.28	1.44	1.44	1.18	1.18	1.18	1.19	1.16	1.17	1.26	1.29	1.27	1.28
Case2_F3	1 Phase	East Devon	40	0	350 NE138-NO138			1.25	1.06	ED345	1.10	1.05	1.07	1.05	1.19	1.06	1.18	1.05	1.25	1.06	1.13	1.06	1.12	1.05	1.07	1.03	1.07	1.04	1.09	1.04
Case2_F4	3 Phase	Norwalk Junction	40	0	350 NE138-NO138			1.46	1.3	NW345	1.18	1.21	1.16	1.17	1.46	1.30	1.37	1.27	1.40	1.30	1.23	1.17	1.21	1.20	1.15	1.18	1.18	1.19	1.19	1.16
Case2_F5	3 Phase	Singer	40	0	350 NE138-NO138			1.63	1.36	ED345	1.31	1.30	1.32	1.33	1.49	1.36	1.42	1.34	1.63	1.36	1.25	1.24	1.30	1.22	1.22	1.20	1.33	1.33	1.32	1.30
Case2_F6	3 Phase Bt	Norwalk 345	40	0	350 NE138-NO138			1.5	1.38	NW345	1.29	1.25	1.36	1.32	1.50	1.34	1.46	1.34	1.48	1.38	1.24	1.22	1.27	1.23	1.19	1.19	1.34	1.31	1.31	1.30
Case2_F7	3 Phase Bt	Plumtree 345	40	0	350 NE138-NO138			1.45	1.33	PT345	1.45	1.24	1.38	1.33	1.35	1.24	1.31	1.22	1.30	1.26	1.17	1.16	1.20	1.19	1.15	1.13	1.36	1.31	1.26	1.29
Case2_bas	No Fault		40	0	350 LM345-PLVAL			1.07	1.07	ED345	1.06	1.06	1.05	1.05	1.07	1.07	1.05	1.05	1.07	1.07	1.05	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.04
Case2_F1	3 Phase	Plumtree	40	0	350 LM345-PLVAL			1.42	1.4	PT345	1.42	1.40	1.34	1.33	1.34	1.34	1.19	1.19	1.37	1.34	1.21	1.20	1.25	1.26	1.18	1.18	1.31	1.33	1.20	1.27
Case2_F2	3 Phase	East Devon	40	0	350 LM345-PLVAL			1.65	1.67	ED345	1.40	1.41	1.39	1.35	1.52	1.49	1.32	1.33	1.65	1.67	1.20	1.24	1.29	1.29	1.23	1.21	1.38	1.33	1.37	1.31
Case2_F3	1 Phase	East Devon	40	0	350 LM345-PLVAL			1.25	1.08	ED345	1.13	1.07	1.12	1.06	1.20	1.07	1.08	1.05	1.25	1.08	1.16	1.06	1.08	1.05	1.11	1.03	1.12	1.05	1.12	1.05
Case2_F4	3 Phase	Norwalk Junction	40	0	350 LM345-PLVAL			1.5	1.45	ED345	1.31	1.24	1.32	1.23	1.47	1.41	1.29	1.26	1.50	1.45	1.27	1.28	1.35	1.29	1.21	1.19	1.27	1.22	1.29	1.27
Case2_F5	3 Phase	Singer	40	0	350 LM345-PLVAL			1.61	1.49	ED345	1.43	1.44	1.41	1.36	1.46	1.46	1.32	1.33	1.61	1.49	1.31	1.30	1.36	1.32	1.29	1.23	1.40	1.36	1.40	1.33
Case2_F6	3 Phase Bt	Norwalk 345	40	0	350 LM345-PLVAL			1.6	1.53	ED345	1.44	1.45	1.37	1.37	1.52	1.49	1.45	1.41	1.60	1.53	1.32	1.29	1.32	1.34	1.24	1.24	1.35	1.35	1.34	1.30
Case2_F7	3 Phase Bt	Plumtree 345	40	0	350 LM345-PLVAL			1.41	1.36	PT345	1.41	1.34	1.32	1.30	1.37	1.32	1.21	1.21	1.37	1.36	1.19	1.19	1.22	1.22	1.23	1.16	1.34	1.28	1.30	1.22

CASE #: Case 2 (Model Rev 15)

DATE: 12/03/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
	TYPE	LOCATION								2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C		
Case2_bas	No Fault		50	302	490				1.05	1.05	ED345	1.04	1.04	1.04	1.04	1.05	1.05	1.04	1.04	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.03	1.03
Case2_F1_3	Phase	Plumtree	50	302	490				1.34	1.34	PT345	1.34	1.34	1.24	1.19	1.32	1.27	1.17	1.18	1.27	1.26	1.20	1.17	1.16	1.17	1.12	1.08	1.28	1.30	1.20	1.20
Case2_F2_3	Phase	East Devon	50	302	490				1.68	1.52	ED345	1.37	1.35	1.28	1.32	1.59	1.44	1.38	1.30	1.68	1.52	1.20	1.17	1.27	1.23	1.18	1.15	1.24	1.31	1.24	1.22
Case2_F3_1	Phase	East Devon	50	302	490				1.29	1.08	ED345	1.12	1.05	1.08	1.03	1.22	1.05	1.12	1.04	1.29	1.05	1.12	1.08	1.12	1.04	1.07	1.03	1.10	1.05	1.08	1.03
Case2_F4_3	Phase	Norwalk Junction	50	302	490				1.43	1.43	ED345	1.25	1.19	1.23	1.20	1.41	1.37	1.28	1.27	1.40	1.43	1.24	1.22	1.22	1.22	1.25	1.16	1.43	1.22	1.31	1.19
Case2_F5_3	Phase	Singer	50	302	490				1.55	1.39	ED345	1.37	1.34	1.40	1.35	1.44	1.36	1.37	1.28	1.55	1.39	1.34	1.34	1.39	1.28	1.23	1.17	1.45	1.33	1.34	1.27
Case2_F6_3	Phase Bt	Norwalk 345	50	302	490				1.53	1.45	NW345	1.39	1.30	1.32	1.29	1.53	1.39	1.34	1.29	1.47	1.45	1.32	1.29	1.32	1.27	1.21	1.17	1.41	1.38	1.31	1.27
Case2_F7_3	Phase Bt	Plumtree 345	50	302	490				1.44	1.33	STONY	1.43	1.28	1.35	1.23	1.33	1.26	1.25	1.19	1.33	1.25	1.21	1.19	1.26	1.16	1.15	1.16	1.44	1.33	1.30	1.21
Case2_bas	No Fault		50	302	490	PT345-LM345			1.05	1.05	ED345	1.04	1.04	1.04	1.04	1.05	1.05	1.03	1.03	1.05	1.05	1.04	1.04	1.05	1.05	1.03	1.03	1.04	1.04	1.03	1.03
Case2_F2_3	Phase	East Devon	50	302	490	PT345-LM345			1.5	1.43	ED345	1.36	1.31	1.23	1.17	1.42	1.37	1.22	1.13	1.50	1.43	1.19	1.11	1.09	1.09	1.11	1.09	1.31	1.23	1.17	1.14
Case2_F3_1	Phase	East Devon	50	302	490	PT345-LM345			1.18	1.09	ED345	1.17	1.04	1.16	1.03	1.17	1.05	1.10	1.02	1.18	1.05	1.16	1.09	1.08	1.04	1.07	1.03	1.16	1.03	1.14	1.02
Case2_F4_3	Phase	Norwalk Junction	50	302	490	PT345-LM345			1.42	1.36	NW345	1.34	1.28	1.34	1.28	1.42	1.33	1.27	1.21	1.39	1.36	1.21	1.17	1.25	1.21	1.18	1.14	1.33	1.26	1.18	1.16
Case2_F5_3	Phase	Singer	50	302	490	PT345-LM345			1.54	1.45	ED345	1.44	1.38	1.34	1.30	1.46	1.43	1.29	1.29	1.54	1.45	1.30	1.27	1.23	1.24	1.17	1.14	1.44	1.35	1.31	1.26
Case2_F6_3	Phase Bt	Norwalk 345	50	302	490	PT345-LM345			1.46	1.43	ED345	1.39	1.37	1.30	1.29	1.42	1.39	1.29	1.28	1.46	1.43	1.20	1.17	1.21	1.21	1.11	1.13	1.35	1.27	1.23	1.20
Case2_F7_3	Phase Bt	Plumtree 345	50	302	490	PT345-LM345			1.45	1.32	PT345	1.45	1.32	1.26	1.18	1.28	1.24	1.13	1.14	1.23	1.22	1.09	1.10	1.10	1.09	1.07	1.07	1.34	1.32	1.20	1.20
Case2_bas	No Fault		50	302	490	BK345-ED345			1.04	1.04	ED345	1.03	1.03	1.03	1.03	1.04	1.04	1.03	1.03	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.03	1.03	1.03
Case2_F1_3	Phase	Plumtree	50	302	490	BK345-ED345			1.39	1.23	STONY	1.34	1.20	1.19	1.13	1.25	1.18	1.07	1.06	1.27	1.23	1.20	1.18	1.04	1.03	1.18	1.06	1.39	1.23	1.19	1.12
Case2_F4_3	Phase	Norwalk Junction	50	302	490	BK345-ED345			1.55	1.53	NW345	1.18	1.13	1.16	1.14	1.55	1.45	1.22	1.21	1.51	1.53	1.09	1.07	1.11	1.13	1.12	1.07	1.26	1.15	1.17	1.12
Case2_F5_3	Phase	Singer	50	302	490	BK345-ED345			1.75	1.49	ED345	1.36	1.30	1.39	1.31	1.64	1.41	1.37	1.25	1.75	1.49	1.15	1.13	1.24	1.21	1.13	1.11	1.46	1.29	1.28	1.23
Case2_F6_3	Phase Bt	Norwalk 345	50	302	490	BK345-ED345			1.56	1.53	ED345	1.31	1.29	1.30	1.29	1.53	1.40	1.33	1.27	1.56	1.53	1.12	1.12	1.21	1.21	1.15	1.17	1.34	1.34	1.25	1.25
Case2_F7_3	Phase Bt	Plumtree 345	50	302	490	BK345-ED345			1.45	1.38	PT345	1.45	1.28	1.30	1.22	1.38	1.29	1.22	1.18	1.40	1.35	1.12	1.09	1.09	1.10	1.14	1.16	1.37	1.38	1.25	1.25
Case2_bas	No Fault		50	302	490	NE138-NO138			1.04	1.04	ESHOR	1.03	1.03	1.03	1.03	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.03	1.03	1.03
Case2_F1_3	Phase	Plumtree	50	302	490	NE138-NO138			1.32	1.22	STONY	1.27	1.17	1.14	1.08	1.17	1.14	1.12	1.07	1.13	1.14	1.18	1.13	1.05	1.05	1.13	1.06	1.32	1.22	1.19	1.14
Case2_F2_3	Phase	East Devon	50	302	490	NE138-NO138			1.41	1.31	ED345	1.20	1.21	1.18	1.16	1.40	1.29	1.25	1.19	1.41	1.31	1.23	1.09	1.14	1.12	1.13	1.13	1.24	1.19	1.15	1.12
Case2_F3_1	Phase	East Devon	50	302	490	NE138-NO138			1.22	1.06	ED345	1.08	1.03	1.07	1.02	1.16	1.04	1.15	1.04	1.22	1.04	1.11	1.06	1.12	1.04	1.06	1.02	1.09	1.03	1.07	1.02
Case2_F4_3	Phase	Norwalk Junction	50	302	490	NE138-NO138			1.41	1.28	STONY	1.22	1.16	1.18	1.16	1.28	1.25	1.22	1.23	1.22	1.28	1.15	1.13	1.11	1.12	1.19	1.12	1.41	1.16	1.28	1.17
Case2_F5_3	Phase	Singer	50	302	490	NE138-NO138			1.44	1.33	ED345	1.28	1.27	1.34	1.30	1.35	1.32	1.37	1.29	1.44	1.33	1.24	1.22	1.27	1.18	1.18	1.15	1.37	1.28	1.28	1.21
Case2_F6_3	Phase Bt	Norwalk 345	50	302	490	NE138-NO138			1.41	1.33	STONY	1.27	1.23	1.23	1.22	1.40	1.29	1.37	1.30	1.36	1.33	1.21	1.21	1.19	1.19	1.11	1.10	1.41	1.31	1.29	1.22
Case2_F7_3	Phase Bt	Plumtree 345	50	302	490	NE138-NO138			1.34	1.35	STONY	1.33	1.22	1.26	1.18	1.23	1.19	1.25	1.16	1.22	1.20	1.14	1.11	1.17	1.11	1.08	1.09	1.34	1.35	1.24	1.24
Case2_bas	No Fault		50	302	490	LM345-PLVAL			1.05	1.05	ED345	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.03	1.03
Case2_F1_3	Phase	Plumtree	50	302	490	LM345-PLVAL			1.35	1.34	PT345	1.35	1.32	1.23	1.22	1.30	1.27	1.15	1.17	1.29	1.28	1.17	1.14	1.20	1.18	1.15	1.15	1.28	1.34	1.20	1.26
Case2_F2_3	Phase	East Devon	50	302	490	LM345-PLVAL			1.51	1.48	ED345	1.43	1.40	1.29	1.29	1.47	1.43	1.27	1.21	1.51	1.48	1.31	1.20	1.28	1.24	1.26	1.22	1.32	1.28	1.30	1.25
Case2_F3_1	Phase	East Devon	50	302	490	LM345-PLVAL			1.17	1.07	ED345	1.09	1.05	1.08	1.04	1.14	1.05	1.06	1.03	1.17	1.06	1.11	1.07	1.07	1.04	1.08	1.03	1.09	1.04	1.07	1.03
Case2_F4_3	Phase	Norwalk Junction	50	302	490	LM345-PLVAL			1.39	1.38	ED345	1.25	1.23	1.26	1.25	1.39	1.34	1.24	1.24	1.39	1.38	1.30	1.30	1.34	1.31	1.25	1.25	1.27	1.28	1.24	1.19
Case2_F5_3	Phase	Singer	50	302	490	LM345-PLVAL			1.48	1.43	ED345	1.40	1.38	1.30	1.30	1.45	1.43	1.27	1.27	1.48	1.41	1.35	1.33	1.37	1.30	1.27	1.26	1.39	1.36	1.32	1.25
Case2_F6_3	Phase Bt	Norwalk 345	50	302	490	LM345-PLVAL			1.49	1.44	ED345	1.37	1.34	1.30	1.27	1.43	1.40	1.30	1.27	1.49	1.44	1.28	1.25	1.37	1.30	1.32	1.29	1.33	1.28	1.24	1.25
Case2_F7_3	Phase Bt	Plumtree 345	50	302	490	LM345-PLVAL			1.35	1.37	STONY	1.35	1.25	1.25	1.21	1.28	1.25	1.17	1.16	1.28	1.24	1.17	1.18	1.21	1.20	1.14	1.12	1.32	1.37	1.20	1.23

CASE #: Case 2 (Model Rev 15)

DATE: 12/03/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
	TYPE	LOCATION								2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C		
Case2_bas	No Fault		70	1249	600				1.1	1.1	FB115	1.05	1.05	1.07	1.07	1.06	1.06	1.06	1.06	1.06	1.06	1.07	1.07	1.09	1.09	1.1	1.1	1.07	1.07	1.09	1.09
Case2_F1_3	Phase	Plumtree	70	1249	600				1.36	1.29	PT345	1.36	1.24	1.15	1.18	1.21	1.19	1.17	1.16	1.18	1.18	1.23	1.16	1.1	1.08	1.15	1.14	1.21	1.23	1.3	1.29
Case2_F2_3	Phase	East Devon	70	1249	600				1.46	1.36	ED345	1.21	1.23	1.17	1.25	1.37	1.28	1.28	1.27	1.46	1.32	1.33	1.28	1.24	1.21	1.25	1.22	1.26	1.31	1.39	1.36
Case2_F3_1	Phase	East Devon	70	1249	600				1.23	1.15	ED345	1.09	1.07	1.09	1.08	1.14	1.06	1.12	1.06	1.23	1.07	1.17	1.15	1.14	1.09	1.13	1.1	1.1	1.08	1.14	1.11
Case2_F4_3	Phase	Norwalk Junction	70	1249	600				1.68	1.53	ROCKY	1.22	1.17	1.2	1.18	1.35	1.27	1.24	1.28	1.25	1.27	1.17	1.18	1.28	1.22	1.27	1.25	1.29	1.2	1.68	1.53
Case2_F5_3	Phase	Singer	70	1249	600				1.56	1.63	ROCKY	1.28	1.2	1.36	1.24	1.41	1.27	1.31	1.19	1.5	1.32	1.34	1.23	1.27	1.25	1.37	1.37	1.38	1.28	1.56	1.63
Case2_F6_3	Phase Bt	Norwalk 345	70	1249	600				1.44	1.48	ROCKY	1.37	1.18	1.34	1.22	1.44	1.19	1.27	1.21	1.35	1.26	1.23	1.17	1.22	1.21	1.32	1.31	1.4	1.24	1.4	1.48
Case2_F7_3	Phase Bt	Plumtree 345	70	1249	600				1.38	1.41	ROCKY	1.34	1.22	1.17	1.16	1.24	1.21	1.19	1.18	1.2	1.21	1.22	1.2	1.16	1.14	1.2	1.21	1.33	1.24	1.38	1.41
Case2_bas	No Fault		70	1249	600	PT345-LM345			1.09	1.09	FB115	1.06	1.06	1.07	1.07	1.06	1.06	1.05	1.05	1.06	1.06	1.06	1.08	1.08	1.09	1.09	1.07	1.07	1.08	1.08	
Case2_F2_3	Phase	East Devon	70	1249	600	PT345-LM345			1.37	1.28	STONY	1.3	1.16	1.18	1.14	1.3	1.2	1.22	1.17	1.32	1.28	1.23	1.18	1.15	1.08	1.13	1.1	1.37	1.19	1.28	1.26
Case2_F3_1	Phase	East Devon	70	1249	600	PT345-LM345			1.18	1.12	ED345	1.14	1.06	1.14	1.05	1.15	1.06	1.09	1.04	1.18	1.06	1.14	1.12	1.11	1.07	1.11	1.08	1.13	1.06	1.12	1.07
Case2_F4_3	Phase	Norwalk Junction	70	1249	600	PT345-LM345			1.75	1.67	ROCKY	1.25	1.21	1.25	1.22	1.29	1.25	1.18	1.19	1.21	1.22	1.11	1.09	1.12	1.09	1.3	1.26	1.3	1.2	1.75	1.67
Case2_F5_3	Phase	Singer	70	1249	600	PT345-LM345			1.46	1.43	ROCKY	1.4	1.24	1.41	1.25	1.34	1.23	1.29	1.17	1.36	1.3	1.25	1.23	1.2	1.19	1.27	1.25	1.38	1.23	1.46	1.43
Case2_F6_3	Phase Bt	Norwalk 345	70	1249	600	PT345-LM345			1.41	1.36	ROCKY	1.36	1.25	1.3	1.25	1.35	1.21	1.2	1.17	1.24	1.17	1.14	1.15	1.17	1.15	1.25	1.2	1.31	1.26	1.41	1.36
Case2_F7_3	Phase Bt	Plumtree 345	70	1249	600	PT345-LM345			1.43	1.36	PT345	1.43	1.22	1.19	1.17	1.24	1.18	1.13	1.11	1.18	1.16	1.11	1.09	1.1	1.08	1.15	1.13	1.25	1.24	1.35	1.36
Case2_bas	No Fault		70	1249	600	BK345-ED345			1.09	1.09	FB115	1.05	1.05	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.07	1.07	1.09	1.09	1.09	1.09	1.07	1.07	1.08	1.08
Case2_F1_3	Phase	Plumtree	70	1249	600	BK345-ED345			1.31	1.26	ROCKY	1.27	1.18	1.12	1.15	1.17	1.15	1.12	1.1	1.15	1.1	1.28	1.2	1.13	1.08	1.16	1.14	1.15	1.21	1.31	1.26
Case2_F4_3	Phase	Norwalk Junction	70	1249	600	BK345-ED345			1.63	1.41	ROCKY	1.27	1.15	1.21	1.18	1.39	1.33	1.27	1.23	1.35	1.33	1.15	1.11	1.16	1.13	1.15	1.17	1.37	1.18	1.63	1.41
Case2_F5_3	Phase	Singer	70	1249	600	BK345-ED345			1.54	1.45	ED345	1.26	1.22	1.34	1.23	1.43	1.26	1.32	1.2	1.54	1.26	1.12	1.12	1.16	1.16	1.28	1.23	1.36	1.17	1.42	1.45
Case2_F6_3	Phase Bt	Norwalk 345	70	1249	600	BK345-ED345			1.56	1.42	ROCKY	1.29	1.22	1.32	1.29	1.39	1.25	1.33	1.21	1.4	1.27	1.18	1.12	1.13	1.16	1.27	1.21	1.33	1.24	1.56	1.42
Case2_F7_3	Phase Bt	Plumtree 345	70	1249	600	BK345-ED345			1.4	1.38	ROCKY	1.36	1.21	1.17	1.13	1.26	1.18	1.22	1.15	1.27	1.24	1.18	1.17	1.13	1.1	1.17	1.16	1.25	1.24	1.4	1.38
Case2_bas	No Fault		70	1249	600	NE138-NO138			1.09	1.09	FB115	1.04	1.04	1.06	1.06	1.05	1.05	1.07	1.07	1.05	1.05	1.06	1.06	1.08	1.08	1.09	1.09	1.06	1.06	1.08	1.08
Case2_F1_3	Phase	Plumtree	70	1249	600	NE138-NO138			1.25	1.22	BK345	1.19	1.14	1.1	1.15	1.13	1.08	1.11	1.09	1.07	1.08	1.25	1.14	1.07	1.07	1.11	1.1	1.17	1.19	1.24	1.22
Case2_F2_3	Phase	East Devon	70	1249	600	NE138-NO138			1.32	1.3	BK345	1.14	1.12	1.1	1.11	1.23	1.09	1.26	1.22	1.23	1.12	1.32	1.3	1.11	1.1	1.13	1.1	1.14	1.15	1.27	1.29
Case2_F3_1	Phase	East Devon	70	1249	600	NE138-NO138			1.21	1.11	ED345	1.08	1.05	1.08	1.06	1.16	1.05	1.18	1.06	1.21	1.05	1.14	1.11	1.14	1.07	1.11	1.08	1.08	1.06	1.17	1.09
Case2_F4_3	Phase	Norwalk Junction	70	1249	600	NE138-NO138			1.46	1.48	ROCKY	1.21	1.15	1.19	1.16	1.2	1.13	1.22	1.21	1.12	1.14	1.15	1.11	1.16	1.09	1.15	1.12	1.21	1.2	1.46	1.48
Case2_F5_3	Phase	Singer	70	1249	600	NE138-NO138			1.43	1.5	ROCKY	1.3	1.13	1.23	1.17	1.28	1.15	1.22	1.19	1.37	1.26	1.34	1.22	1.16	1.13	1.26	1.24	1.26	1.23	1.43	1.5
Case2_F6_3	Phase Bt	Norwalk 345	70	1249	600	NE138-NO138			1.32	1.34	ROCKY	1.2	1.11	1.19	1.16	1.32	1.12	1.25	1.19	1.19	1.14	1.2	1.12	1.1	1.08	1.23	1.2	1.25	1.19	1.31	1.34
Case2_F7_3	Phase Bt	Plumtree 345	70	1249	600	NE138-NO138			1.38	1.42	ROCKY	1.23	1.14	1.16	1.12	1.18	1.1	1.19	1.16	1.13	1.11	1.16	1.16	1.17	1.09	1.13	1.13	1.22	1.22	1.38	1.42
Case2_bas	No Fault		70	1249	600	LM345-PLVAL			1.1	1.1	FB115	1.07	1.07	1.08	1.08	1.07	1.06	1.06	1.07	1.07	1.07	1.07	1.07	1.09	1.09	1.1	1.1	1.08	1.08	1.09	1.09
Case2_F1_3	Phase	Plumtree	70	1249	600	LM345-PLVAL			1.44	1.37	ROCKY	1.31	1.2	1.15	1.19	1.18	1.16	1.15	1.16	1.15	1.16	1.17	1.16	1.12	1.09	1.2	1.16	1.32	1.34	1.44	1.37
Case2_F2_3	Phase	East Devon	70	1249	600	LM345-PLVAL			1.33	1.29	ED345	1.29	1.17	1.2	1.21	1.27	1.2	1.28	1.2	1.33	1.23	1.27	1.22	1.17	1.1	1.18	1.15	1.31	1.22	1.27	1.29
Case2_F3_1	Phase	East Devon	70	1249	600	LM345-PLVAL			1.17	1.11	ED345	1.13	1.08	1.12	1.07	1.15	1.08	1.07	1.05	1.17	1.07	1.12	1.11	1.1	1.08	1.11	1.09	1.12	1.08	1.11	1.1
Case2_F4_3	Phase	Norwalk Junction	70	1249	600	LM345-PLVAL			1.67	1.54	ROCKY	1.36	1.21	1.25	1.22	1.22	1.22	1.23	1.24	1.18	1.21	1.17	1.13	1.23	1.21	1.29	1.24	1.3	1.26	1.67	1.54
Case2_F5_3	Phase	Singer	70	1249	600	LM345-PLVAL			1.4	1.55	ROCKY	1.3	1.2	1.38	1.24	1.28	1.2	1.21	1.19	1.4	1.25	1.25	1.2	1.25	1.22	1.27	1.27	1.36	1.25	1.34	1.55
Case2_F6_3	Phase Bt	Norwalk 345	70	1249	600	LM345-PLVAL			1.6	1.64	ROCKY	1.2	1.19	1.23	1.24	1.22	1.16	1.29	1.23	1.2	1.19	1.17	1.15	1.23	1.19	1.34	1.29	1.3	1.28	1.6	1.64
Case2_F7_3	Phase Bt	Plumtree 345	70	1249	600	LM345-PLVAL			1.56	1.51	ROCKY	1.23	1.21	1.22	1.19	1.21	1.16	1.19	1.18	1.15	1.17	1.17	1.12	1.14	1.1	1.17	1.19	1.31	1.27	1.56	1.51

CASE #: Case 2 Rev 15 Alternate Model

DATE: 12/07/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
	TYPE	LOCATION							2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C			
Case2_bas	No Fault		40	0	350			1.06	1.06	ED345	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.06	1.06	1.05	1.05	1.04	1.04	1.03	1.03	1.04	1.04	1.03	1.03	
Case2_F1	3 Phase	Plumtree	40	0	350			1.33	1.28	PT115	1.31	1.27	1.33	1.23	1.26	1.25	1.26	1.28	1.25	1.26	1.21	1.17	1.31	1.18	1.21	1.16	1.25	1.23	1.23	1.22	
Case2_F2	3 Phase	East Devon	40	0	350			1.48	1.48	ED345	1.28	1.25	1.28	1.21	1.37	1.39	1.38	1.44	1.48	1.48	1.25	1.23	1.40	1.36	1.24	1.18	1.25	1.22	1.30	1.24	
Case2_F3	1 Phase	East Devon	40	0	350			1.22	1.12	ROCKY	1.16	1.11	1.15	1.07	1.19	1.10	1.21	1.12	1.22	1.10	1.16	1.11	1.16	1.06	1.16	1.06	1.21	1.08	1.22	1.09	
Case2_F4	3 Phase	Norwalk Junction	40	0	350			1.45	1.67	NW115	1.28	1.26	1.24	1.33	1.45	1.51	1.39	1.67	1.35	1.48	1.23	1.26	1.44	1.49	1.20	1.24	1.26	1.31	1.34	1.41	
Case2_F5	3 Phase	Singer	40	0	350			1.58	1.66	NW115	1.40	1.43	1.33	1.40	1.50	1.52	1.50	1.66	1.58	1.58	1.35	1.38	1.55	1.60	1.24	1.41	1.38	1.38	1.41	1.48	
Case2_F6	3 Phase Bt	Norwalk 345	40	0	350			1.54	1.64	NW115	1.41	1.42	1.31	1.36	1.54	1.50	1.39	1.64	1.51	1.54	1.27	1.27	1.45	1.64	1.25	1.32	1.31	1.37	1.33	1.36	
Case2_F7	3 Phase Bt	Plumtree 345	40	0	350			1.46	1.41	PT345	1.46	1.33	1.26	1.30	1.33	1.35	1.33	1.41	1.29	1.39	1.19	1.18	1.37	1.31	1.17	1.19	1.29	1.31	1.30	1.38	
Case2_bas	No Fault		40	0	350	PT345-LM345		1.06	1.06	NW345	1.06	1.06	1.05	1.05	1.06	1.06	1.04	1.04	1.06	1.06	1.05	1.05	1.05	1.05	1.03	1.03	1.04	1.04	1.03	1.03	
Case2_F2	3 Phase	East Devon	40	0	350	PT345-LM345		1.64	1.32	ED345	1.48	1.26	1.32	1.20	1.54	1.27	1.37	1.27	1.64	1.32	1.32	1.13	1.28	1.10	1.25	1.09	1.31	1.18	1.25	1.17	
Case2_F3	1 Phase	East Devon	40	0	350	PT345-LM345		1.26	1.1	PT345	1.26	1.09	1.23	1.08	1.24	1.10	1.19	1.08	1.23	1.10	1.12	1.10	1.15	1.07	1.09	1.04	1.19	1.08	1.17	1.08	
Case2_F4	3 Phase	Norwalk Junction	40	0	350	PT345-LM345		1.44	1.61	NW115	1.40	1.43	1.40	1.43	1.35	1.40	1.35	1.61	1.28	1.36	1.16	1.16	1.27	1.42	1.16	1.19	1.44	1.42	1.43	1.53	
Case2_F5	3 Phase	Singer	40	0	350	PT345-LM345		1.55	1.6	NW115	1.51	1.51	1.44	1.38	1.55	1.55	1.41	1.60	1.50	1.49	1.33	1.27	1.36	1.48	1.17	1.20	1.47	1.33	1.45	1.32	
Case2_F6	3 Phase Bt	Norwalk 345	40	0	350	PT345-LM345		1.45	1.46	NW115	1.38	1.41	1.34	1.35	1.40	1.41	1.29	1.46	1.43	1.37	1.21	1.17	1.45	1.36	1.16	1.14	1.37	1.29	1.30	1.22	
Case2_F7	3 Phase Bt	Plumtree 345	40	0	350	PT345-LM345		1.3	1.26	PT345	1.30	1.19	1.27	1.22	1.26	1.21	1.21	1.26	1.23	1.22	1.15	1.14	1.29	1.18	1.13	1.14	1.21	1.22	1.20	1.24	
Case2_bas	No Fault		40	0	350	BK345-ED345		1.06	1.06	ED345	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.06	1.06	1.04	1.04	1.04	1.04	1.03	1.03	1.04	1.04	1.03	1.03	
Case2_F1	3 Phase	Plumtree	40	0	350	BK345-ED345		1.34	1.23	ED345	1.33	1.20	1.25	1.23	1.30	1.19	1.24	1.20	1.34	1.18	1.28	1.15	1.24	1.08	1.21	1.12	1.29	1.22	1.30	1.15	
Case2_F4	3 Phase	Norwalk Junction	40	0	350	BK345-ED345		1.6	1.41	ED345	1.34	1.22	1.32	1.20	1.54	1.38	1.25	1.33	1.60	1.41	1.17	1.14	1.26	1.11	1.14	1.10	1.29	1.22	1.31	1.28	
Case2_F5	3 Phase	Singer	40	0	350	BK345-ED345		1.8	1.66	ED345	1.34	1.34	1.44	1.34	1.59	1.55	1.42	1.53	1.80	1.66	1.26	1.23	1.41	1.53	1.31	1.23	1.51	1.44	1.52	1.39	
Case2_F6	3 Phase Bt	Norwalk 345	40	0	350	BK345-ED345		1.52	1.5	ED345	1.37	1.23	1.26	1.24	1.42	1.37	1.33	1.46	1.52	1.50	1.23	1.15	1.43	1.40	1.20	1.17	1.26	1.27	1.27	1.27	
Case2_F7	3 Phase Bt	Plumtree 345	40	0	350	BK345-ED345		1.42	1.36	PT345	1.42	1.22	1.29	1.28	1.34	1.27	1.37	1.31	1.37	1.36	1.19	1.18	1.35	1.27	1.17	1.17	1.32	1.32	1.35	1.32	
Case2_bas	No Fault		40	0	350	NE138-NO138		1.06	1.06	ED345	1.05	1.05	1.04	1.04	1.05	1.05	1.05	1.05	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.03	1.03	1.04	1.04	1.03	1.03
Case2_F1	3 Phase	Plumtree	40	0	350	NE138-NO138		1.46	1.25	ROCKY	1.35	1.24	1.37	1.19	1.31	1.21	1.31	1.25	1.28	1.18	1.24	1.13	1.32	1.14	1.19	1.11	1.45	1.18	1.46	1.16	
Case2_F2	3 Phase	East Devon	40	0	350	NE138-NO138		1.56	1.4	NW115	1.33	1.18	1.25	1.18	1.44	1.29	1.56	1.40	1.47	1.30	1.24	1.15	1.21	1.15	1.27	1.10	1.26	1.19	1.28	1.19	
Case2_F3	1 Phase	East Devon	40	0	350	NE138-NO138		1.22	1.14	STONY	1.17	1.09	1.17	1.07	1.20	1.10	1.19	1.14	1.21	1.11	1.14	1.09	1.12	1.07	1.17	1.05	1.22	1.06	1.22	1.06	
Case2_F4	3 Phase	Norwalk Junction	40	0	350	NE138-NO138		1.5	1.43	NW115	1.27	1.17	1.25	1.24	1.44	1.39	1.50	1.43	1.42	1.34	1.27	1.13	1.35	1.30	1.26	1.14	1.34	1.27	1.34	1.41	
Case2_F5	3 Phase	Singer	40	0	350	NE138-NO138		1.54	1.59	NW115	1.43	1.26	1.44	1.30	1.53	1.42	1.52	1.59	1.50	1.39	1.33	1.23	1.41	1.30	1.36	1.22	1.46	1.33	1.54	1.42	
Case2_F6	3 Phase Bt	Norwalk 345	40	0	350	NE138-NO138		1.59	1.46	NW115	1.31	1.22	1.24	1.20	1.35	1.31	1.59	1.46	1.30	1.30	1.22	1.13	1.50	1.26	1.29	1.18	1.23	1.23	1.30	1.24	
Case2_F7	3 Phase Bt	Plumtree 345	40	0	350	NE138-NO138		1.46	1.37	NW115	1.30	1.16	1.36	1.24	1.29	1.17	1.46	1.37	1.31	1.19	1.21	1.15	1.42	1.17	1.16	1.13	1.44	1.22	1.40	1.22	
Case2_bas	No Fault		40	0	350	LM345-PLVAL		1.06	1.06	ED345	1.06	1.06	1.05	1.05	1.06	1.06	1.05	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.03	1.03	1.05	1.05	1.04	1.04
Case2_F1	3 Phase	Plumtree	40	0	350	LM345-PLVAL		1.38	1.28	STONY	1.34	1.28	1.30	1.21	1.25	1.25	1.23	1.26	1.23	1.23	1.22	1.15	1.21	1.13	1.24	1.14	1.38	1.22	1.34	1.22	
Case2_F2	3 Phase	East Devon	40	0	350	LM345-PLVAL		1.51	1.38	ED345	1.43	1.25	1.36	1.23	1.46	1.32	1.30	1.32	1.51	1.38	1.28	1.15	1.35	1.31	1.26	1.12	1.36	1.23	1.33	1.20	
Case2_F3	1 Phase	East Devon	40	0	350	LM345-PLVAL		1.28	1.1	ED345	1.26	1.09	1.25	1.08	1.25	1.09	1.14	1.10	1.28	1.09	1.15	1.09	1.19	1.06	1.14	1.07	1.23	1.07	1.20	1.07	
Case2_F4	3 Phase	Norwalk Junction	40	0	350	LM345-PLVAL		1.51	1.53	ESHOR	1.31	1.30	1.36	1.41	1.34	1.41	1.41	1.52	1.32	1.40	1.21	1.19	1.43	1.53	1.21	1.22	1.39	1.35	1.51	1.41	
Case2_F5	3 Phase	Singer	40	0	350	LM345-PLVAL		1.55	1.54	ED345	1.45	1.44	1.38	1.35	1.50	1.51	1.47	1.47	1.55	1.54	1.27	1.24	1.48	1.53	1.27	1.35	1.35	1.39	1.46	1.48	
Case2_F6	3 Phase Bt	Norwalk 345	40	0	350	LM345-PLVAL		1.43	1.41	NW115	1.37	1.32	1.35	1.30	1.41	1.38	1.43	1.39	1.37	1.41	1.23	1.15	1.40	1.36	1.21	1.21	1.34	1.38	1.39	1.39	
Case2_F7	3 Phase Bt	Plumtree 345	40	0	350	LM345-PLVAL		1.47	1.26	STONY	1.33	1.24	1.40	1.20	1.26	1.23	1.23	1.26	1.25	1.23	1.25	1.19	1.44	1.15	1.16	1.15	1.47	1.22	1.39	1.18	

CASE #: Case 2 Rev 15 Alternate Model

DATE: 12/07/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
	2C	6C								2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	
Case2_bas	No Fault		50	302	490				1.05	1.05	ESHOR	1.04	1.04	1.03	1.03	1.04	1.04	1.03	1.03	1.05	1.05	1.05	1.05	1.05	1.05	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Case2_F1.3	Phase	Plumtree	50	302	490				1.35	1.18	STONY	1.31	1.17	1.35	1.16	1.29	1.14	1.24	1.13	1.28	1.11	1.20	1.17	1.27	1.11	1.21	1.17	1.35	1.18	1.25	1.17	
Case2_F2.3	Phase	East Devon	50	302	490				1.43	1.3	STONY	1.30	1.16	1.27	1.14	1.36	1.21	1.27	1.25	1.40	1.30	1.37	1.25	1.35	1.15	1.24	1.18	1.43	1.19	1.37	1.18	
Case2_F3.1	Phase	East Devon	50	302	490				1.22	1.13	ED345	1.15	1.08	1.11	1.06	1.15	1.10	1.10	1.07	1.22	1.09	1.14	1.13	1.18	1.10	1.13	1.11	1.15	1.07	1.15	1.08	
Case2_F4.3	Phase	Norwalk Junction	50	302	490				1.36	1.45	ESHOR	1.24	1.18	1.25	1.15	1.36	1.28	1.31	1.27	1.28	1.29	1.20	1.17	1.30	1.45	1.28	1.19	1.29	1.25	1.23	1.26	
Case2_F5.3	Phase	Singer	50	302	490				1.56	1.49	ED345	1.43	1.26	1.34	1.32	1.43	1.31	1.28	1.32	1.56	1.35	1.26	1.22	1.41	1.44	1.28	1.28	1.52	1.49	1.45	1.47	
Case2_F6.3	Phase Bt	Norwalk 345	50	302	490				1.35	1.36	STONY	1.24	1.19	1.21	1.29	1.35	1.21	1.35	1.26	1.27	1.24	1.17	1.13	1.33	1.35	1.31	1.28	1.33	1.36	1.33	1.36	
Case2_F7.3	Phase Bt	Plumtree 345	50	302	490				1.38	1.23	STONY	1.36	1.20	1.26	1.19	1.23	1.15	1.26	1.18	1.23	1.17	1.16	1.19	1.29	1.21	1.22	1.21	1.38	1.23	1.31	1.20	
Case2_bas	No Fault		50	302	490	PT345-LM345			1.04	1.04	ESHOR	1.04	1.04	1.03	1.03	1.04	1.04	1.03	1.03	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.03	1.02	1.02	
Case2_F2.3	Phase	East Devon	50	302	490	PT345-LM345			1.39	1.2	ED345	1.22	1.13	1.24	1.12	1.28	1.14	1.26	1.12	1.39	1.20	1.26	1.12	1.34	1.17	1.12	1.12	1.34	1.19	1.31	1.15	
Case2_F3.1	Phase	East Devon	50	302	490	PT345-LM345			1.2	1.11	BK345	1.15	1.05	1.15	1.03	1.17	1.04	1.16	1.04	1.17	1.04	1.20	1.11	1.11	1.08	1.07	1.04	1.18	1.04	1.09	1.03	
Case2_F4.3	Phase	Norwalk Junction	50	302	490	PT345-LM345			1.43	1.37	ROCKY	1.38	1.22	1.38	1.22	1.26	1.23	1.24	1.22	1.22	1.22	1.11	1.10	1.33	1.31	1.18	1.20	1.42	1.21	1.43	1.37	
Case2_F5.3	Phase	Singer	50	302	490	PT345-LM345			1.4	1.4	ED345	1.37	1.24	1.32	1.29	1.33	1.24	1.27	1.25	1.40	1.23	1.25	1.24	1.35	1.30	1.27	1.20	1.39	1.40	1.36	1.37	
Case2_F6.3	Phase Bt	Norwalk 345	50	302	490	PT345-LM345			1.41	1.25	STONY	1.33	1.24	1.34	1.20	1.27	1.21	1.27	1.22	1.28	1.20	1.18	1.10	1.36	1.21	1.16	1.12	1.41	1.25	1.33	1.21	
Case2_F7.3	Phase Bt	Plumtree 345	50	302	490	PT345-LM345			1.35	1.2	PT345	1.35	1.15	1.32	1.16	1.30	1.14	1.24	1.13	1.27	1.12	1.12	1.11	1.30	1.07	1.15	1.12	1.29	1.20	1.21	1.16	
Case2_bas	No Fault		50	302	490	BK345-ED345			1.05	1.05	ESHOR	1.03	1.03	1.03	1.03	1.04	1.04	1.03	1.03	1.04	1.04	1.04	1.04	1.05	1.05	1.03	1.03	1.03	1.03	1.02	1.02	
Case2_F1.3	Phase	Plumtree	50	302	490	BK345-ED345			1.36	1.19	STONY	1.31	1.16	1.29	1.19	1.25	1.15	1.26	1.11	1.27	1.15	1.26	1.16	1.27	1.12	1.24	1.13	1.36	1.17	1.34	1.15	
Case2_F4.3	Phase	Norwalk Junction	50	302	490	BK345-ED345			1.4	1.28	ESHOR	1.31	1.21	1.22	1.21	1.37	1.24	1.31	1.18	1.37	1.28	1.16	1.09	1.40	1.16	1.20	1.17	1.31	1.24	1.25	1.26	
Case2_F5.3	Phase	Singer	50	302	490	BK345-ED345			1.44	1.32	ED345	1.30	1.19	1.26	1.19	1.36	1.19	1.28	1.27	1.44	1.27	1.14	1.14	1.37	1.27	1.19	1.19	1.39	1.32	1.38	1.29	
Case2_F6.3	Phase Bt	Norwalk 345	50	302	490	BK345-ED345			1.4	1.34	STONY	1.29	1.15	1.35	1.21	1.34	1.16	1.34	1.16	1.37	1.25	1.16	1.16	1.36	1.34	1.22	1.20	1.40	1.26	1.37	1.24	
Case2_F7.3	Phase Bt	Plumtree 345	50	302	490	BK345-ED345			1.36	1.26	PT345	1.36	1.16	1.18	1.19	1.28	1.15	1.27	1.17	1.32	1.18	1.17	1.16	1.31	1.25	1.23	1.15	1.25	1.26	1.24	1.23	
Case2_bas	No Fault		50	302	490	NE138-NO138			1.05	1.05	ESHOR	1.03	1.03	1.03	1.03	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.05	1.05	1.03	1.03	1.03	1.03	1.02	1.02	
Case2_F1.3	Phase	Plumtree	50	302	490	NE138-NO138			1.27	1.21	NW115	1.23	1.18	1.22	1.18	1.22	1.16	1.27	1.20	1.20	1.15	1.20	1.15	1.24	1.08	1.15	1.11	1.25	1.21	1.18	1.17	
Case2_F2.3	Phase	East Devon	50	302	490	NE138-NO138			1.39	1.24	NW115	1.30	1.17	1.25	1.15	1.31	1.21	1.39	1.24	1.31	1.21	1.29	1.24	1.26	1.14	1.16	1.16	1.32	1.14	1.28	1.13	
Case2_F3.1	Phase	East Devon	50	302	490	NE138-NO138			1.22	1.07	ED345	1.11	1.06	1.13	1.05	1.15	1.05	1.14	1.05	1.22	1.06	1.12	1.07	1.14	1.07	1.11	1.04	1.22	1.05	1.21	1.04	
Case2_F4.3	Phase	Norwalk Junction	50	302	490	NE138-NO138			1.45	1.26	NW115	1.24	1.16	1.24	1.17	1.42	1.24	1.45	1.26	1.37	1.22	1.26	1.10	1.44	1.14	1.19	1.14	1.26	1.17	1.30	1.18	
Case2_F5.3	Phase	Singer	50	302	490	NE138-NO138			1.58	1.3	STONY	1.27	1.17	1.31	1.17	1.40	1.26	1.39	1.30	1.53	1.26	1.33	1.17	1.32	1.21	1.25	1.18	1.58	1.29	1.49	1.26	
Case2_F6.3	Phase Bt	Norwalk 345	50	302	490	NE138-NO138			1.48	1.26	ESHOR	1.24	1.12	1.20	1.15	1.32	1.15	1.44	1.26	1.32	1.14	1.26	1.08	1.48	1.14	1.29	1.16	1.26	1.20	1.25	1.19	
Case2_F7.3	Phase Bt	Plumtree 345	50	302	490	NE138-NO138			1.43	1.18	ESHOR	1.33	1.16	1.22	1.14	1.27	1.11	1.34	1.15	1.26	1.12	1.23	1.15	1.43	1.08	1.20	1.13	1.34	1.18	1.31	1.18	
Case2_bas	No Fault		50	302	490	LM345-PLVAL			1.05	1.05	ED345	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.03	1.03	1.03	1.03	1.03	
Case2_F1.3	Phase	Plumtree	50	302	490	LM345-PLVAL			1.34	1.2	STONY	1.27	1.13	1.30	1.17	1.27	1.12	1.24	1.13	1.27	1.10	1.21	1.14	1.30	1.08	1.22	1.13	1.34	1.20	1.29	1.16	
Case2_F2.3	Phase	East Devon	50	302	490	LM345-PLVAL			1.41	1.25	ED345	1.27	1.15	1.25	1.13	1.32	1.16	1.28	1.17	1.41	1.25	1.26	1.15	1.30	1.13	1.20	1.16	1.32	1.15	1.28	1.14	
Case2_F3.1	Phase	East Devon	50	302	490	LM345-PLVAL			1.16	1.07	ED345	1.13	1.05	1.13	1.04	1.15	1.05	1.11	1.04	1.16	1.06	1.14	1.07	1.12	1.06	1.07	1.04	1.13	1.04	1.10	1.03	
Case2_F4.3	Phase	Norwalk Junction	50	302	490	LM345-PLVAL			1.34	1.34	ESHOR	1.28	1.19	1.26	1.22	1.32	1.24	1.27	1.25	1.28	1.23	1.16	1.10	1.34	1.34	1.23	1.16	1.29	1.20	1.25	1.26	
Case2_F5.3	Phase	Singer	50	302	490	LM345-PLVAL			1.38	1.38	STONY	1.31	1.20	1.25	1.26	1.31	1.21	1.29	1.24	1.38	1.25	1.24	1.15	1.37	1.34	1.23	1.20	1.29	1.38	1.28	1.33	
Case2_F6.3	Phase Bt	Norwalk 345	50	302	490	LM345-PLVAL			1.34	1.31	ESHOR	1.25	1.15	1.27	1.25	1.28	1.14	1.32	1.19	1.27	1.15	1.17	1.09	1.34	1.19	1.31	1.24	1.29	1.31	1.31	1.27	
Case2_F7.3	Phase Bt	Plumtree 345	50	302	490	LM345-PLVAL			1.38	1.19	STONY	1.31	1.17	1.30	1.16	1.24	1.13	1.24	1.14	1.18	1.10	1.18	1.14	1.33	1.11	1.23	1.16	1.38	1.19	1.29	1.15	

CASE #: Case 2 Rev 15 Alternate Model

DATE: 12/07/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																				
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY		
	TYPE	LOCATION							2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C		
Case2_bas	No Fault		70	1249	600			1.1	1.1	FB115	1.05	1.05	1.06	1.06	1.06	1.06	1.05	1.05	1.06	1.06	1.07	1.07	1.08	1.08	1.1	1.1	1.07	1.07	1.08	1.08
Case2_F1.3	Phase	Plumtree	70	1249	600			1.55	1.38	ROCKY	1.29	1.2	1.22	1.17	1.2	1.17	1.18	1.12	1.21	1.19	1.24	1.2	1.32	1.26	1.24	1.2	1.37	1.29	1.55	1.38
Case2_F2.3	Phase	East Devon	70	1249	600			1.49	1.4	STONY	1.26	1.15	1.26	1.18	1.23	1.11	1.19	1.14	1.34	1.17	1.33	1.24	1.43	1.28	1.25	1.2	1.49	1.4	1.41	1.3
Case2_F3.1	Phase	East Devon	70	1249	600			1.25	1.16	ROCKY	1.09	1.09	1.1	1.1	1.15	1.06	1.13	1.07	1.24	1.06	1.19	1.14	1.24	1.12	1.16	1.11	1.24	1.16	1.25	1.15
Case2_F4.3	Phase	Norwalk Junction	70	1249	600			1.43	1.33	ESHOR	1.28	1.2	1.29	1.25	1.42	1.29	1.25	1.31	1.37	1.27	1.28	1.19	1.43	1.31	1.29	1.26	1.26	1.32	1.34	1.33
Case2_F5.3	Phase	Singer	70	1249	600			1.66	1.4	ROCKY	1.39	1.18	1.34	1.15	1.45	1.2	1.2	1.2	1.53	1.3	1.44	1.26	1.43	1.23	1.26	1.24	1.42	1.23	1.66	1.4
Case2_F6.3	Phase Bt	Norwalk 345	70	1249	600			1.62	1.4	ROCKY	1.2	1.14	1.3	1.17	1.27	1.19	1.24	1.28	1.31	1.19	1.25	1.12	1.44	1.26	1.28	1.32	1.37	1.24	1.62	1.4
Case2_F7.3	Phase Bt	Plumtree 345	70	1249	600			1.75	1.48	ROCKY	1.34	1.21	1.25	1.22	1.22	1.14	1.2	1.14	1.29	1.15	1.28	1.16	1.41	1.22	1.26	1.18	1.41	1.4	1.75	1.48
Case2_bas	No Fault		70	1249	600	PT345-LM345		1.09	1.09	FB115	1.05	1.05	1.06	1.06	1.06	1.06	1.05	1.05	1.06	1.06	1.06	1.06	1.08	1.08	1.09	1.09	1.07	1.07	1.08	1.08
Case2_F2.3	Phase	East Devon	70	1249	600	PT345-LM345		1.46	1.33	ROCKY	1.26	1.22	1.28	1.19	1.34	1.24	1.27	1.18	1.4	1.23	1.3	1.23	1.32	1.28	1.24	1.23	1.42	1.28	1.46	1.33
Case2_F3.1	Phase	East Devon	70	1249	600	PT345-LM345		1.19	1.11	ROCKY	1.14	1.07	1.13	1.06	1.15	1.07	1.1	1.04	1.17	1.06	1.16	1.11	1.12	1.07	1.12	1.08	1.14	1.07	1.19	1.08
Case2_F4.3	Phase	Norwalk Junction	70	1249	600	PT345-LM345		1.49	1.53	ROCKY	1.29	1.31	1.29	1.31	1.3	1.23	1.22	1.3	1.28	1.21	1.21	1.12	1.4	1.25	1.2	1.17	1.35	1.44	1.49	1.53
Case2_F5.3	Phase	Singer	70	1249	600	PT345-LM345		1.62	1.35	ROCKY	1.53	1.25	1.38	1.18	1.38	1.19	1.29	1.18	1.39	1.27	1.41	1.26	1.38	1.25	1.21	1.18	1.48	1.29	1.62	1.35
Case2_F6.3	Phase Bt	Norwalk 345	70	1249	600	PT345-LM345		1.49	1.4	ROCKY	1.3	1.21	1.3	1.16	1.24	1.18	1.28	1.18	1.24	1.17	1.24	1.14	1.39	1.3	1.22	1.17	1.41	1.24	1.49	1.4
Case2_F7.3	Phase Bt	Plumtree 345	70	1249	600	PT345-LM345		1.54	1.36	ROCKY	1.34	1.22	1.24	1.17	1.22	1.17	1.18	1.13	1.24	1.19	1.18	1.15	1.33	1.25	1.21	1.17	1.34	1.29	1.54	1.36
Case2_bas	No Fault		70	1249	600	BK345-ED345		1.09	1.09	FB115	1.05	1.05	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.07	1.07	1.08	1.08	1.09	1.09	1.09	1.06	1.06	1.08	1.08
Case2_F1.3	Phase	Plumtree	70	1249	600	BK345-ED345		1.39	1.31	ROCKY	1.38	1.25	1.25	1.19	1.28	1.22	1.23	1.16	1.28	1.24	1.29	1.28	1.27	1.21	1.21	1.21	1.28	1.28	1.39	1.31
Case2_F4.3	Phase	Norwalk Junction	70	1249	600	BK345-ED345		1.4	1.43	ROCKY	1.27	1.22	1.26	1.25	1.35	1.27	1.25	1.15	1.32	1.27	1.22	1.2	1.33	1.27	1.3	1.26	1.36	1.35	1.4	1.43
Case2_F5.3	Phase	Singer	70	1249	600	BK345-ED345		2.01	1.34	ROCKY	1.48	1.12	1.33	1.1	1.6	1.23	1.26	1.18	1.83	1.31	1.31	1.13	1.52	1.22	1.37	1.13	1.63	1.2	2.01	1.34
Case2_F6.3	Phase Bt	Norwalk 345	70	1249	600	BK345-ED345		1.46	1.27	ESHOR	1.2	1.12	1.24	1.14	1.23	1.12	1.24	1.16	1.27	1.19	1.25	1.19	1.46	1.25	1.3	1.15	1.31	1.22	1.38	1.27
Case2_F7.3	Phase Bt	Plumtree 345	70	1249	600	BK345-ED345		1.51	1.4	ROCKY	1.32	1.16	1.24	1.15	1.23	1.13	1.26	1.11	1.23	1.13	1.27	1.23	1.41	1.23	1.24	1.18	1.35	1.3	1.51	1.4
Case2_bas	No Fault		70	1249	600	NE138-NO138		1.09	1.09	FB115	1.04	1.04	1.06	1.06	1.05	1.05	1.06	1.07	1.05	1.05	1.06	1.06	1.08	1.08	1.09	1.09	1.06	1.06	1.08	1.08
Case2_F1.3	Phase	Plumtree	70	1249	600	NE138-NO138		1.39	1.32	STONY	1.3	1.23	1.26	1.2	1.22	1.21	1.26	1.2	1.22	1.22	1.3	1.18	1.24	1.24	1.23	1.2	1.39	1.32	1.37	1.29
Case2_F2.3	Phase	East Devon	70	1249	600	NE138-NO138		1.48	1.39	ROCKY	1.26	1.16	1.22	1.2	1.36	1.21	1.3	1.27	1.37	1.23	1.33	1.28	1.31	1.25	1.27	1.26	1.45	1.34	1.48	1.39
Case2_F3.1	Phase	East Devon	70	1249	600	NE138-NO138		1.23	1.16	ED345	1.12	1.07	1.1	1.07	1.19	1.07	1.21	1.07	1.23	1.07	1.17	1.13	1.17	1.08	1.15	1.09	1.2	1.13	1.21	1.16
Case2_F4.3	Phase	Norwalk Junction	70	1249	600	NE138-NO138		1.45	1.39	NW345	1.33	1.21	1.32	1.25	1.45	1.28	1.34	1.22	1.43	1.25	1.29	1.21	1.36	1.34	1.3	1.29	1.32	1.39	1.43	1.37
Case2_F5.3	Phase	Singer	70	1249	600	NE138-NO138		1.59	1.33	ED345	1.43	1.25	1.24	1.2	1.5	1.27	1.33	1.23	1.59	1.33	1.47	1.25	1.33	1.31	1.31	1.22	1.42	1.22	1.52	1.29
Case2_F6.3	Phase Bt	Norwalk 345	70	1249	600	NE138-NO138		1.42	1.35	ROCKY	1.21	1.2	1.28	1.24	1.3	1.24	1.31	1.2	1.32	1.26	1.29	1.2	1.41	1.35	1.32	1.25	1.38	1.25	1.42	1.31
Case2_F7.3	Phase Bt	Plumtree 345	70	1249	600	NE138-NO138		1.73	1.5	ROCKY	1.3	1.27	1.31	1.22	1.28	1.2	1.29	1.22	1.27	1.22	1.33	1.23	1.34	1.3	1.29	1.29	1.42	1.33	1.73	1.5
Case2_bas	No Fault		70	1249	600	LM345-PLVAL		1.1	1.1	FB115	1.07	1.07	1.07	1.07	1.07	1.07	1.05	1.05	1.07	1.07	1.07	1.07	1.08	1.08	1.1	1.1	1.08	1.08	1.09	1.09
Case2_F1.3	Phase	Plumtree	70	1249	600	LM345-PLVAL		1.58	1.4	ROCKY	1.3	1.23	1.23	1.18	1.2	1.22	1.2	1.16	1.19	1.27	1.23	1.23	1.35	1.31	1.27	1.26	1.33	1.3	1.58	1.4
Case2_F2.3	Phase	East Devon	70	1249	600	LM345-PLVAL		1.56	1.4	ROCKY	1.31	1.22	1.29	1.2	1.32	1.23	1.27	1.19	1.33	1.25	1.37	1.26	1.37	1.3	1.26	1.27	1.47	1.4	1.56	1.39
Case2_F3.1	Phase	East Devon	70	1249	600	LM345-PLVAL		1.19	1.13	ED345	1.12	1.07	1.11	1.07	1.12	1.07	1.07	1.05	1.19	1.08	1.17	1.13	1.15	1.08	1.13	1.09	1.1	1.08	1.14	1.09
Case2_F4.3	Phase	Norwalk Junction	70	1249	600	LM345-PLVAL		1.44	1.5	ROCKY	1.3	1.26	1.38	1.26	1.32	1.24	1.22	1.27	1.32	1.21	1.22	1.18	1.39	1.31	1.3	1.25	1.35	1.4	1.44	1.5
Case2_F5.3	Phase	Singer	70	1249	600	LM345-PLVAL		1.52	1.37	ROCKY	1.36	1.21	1.33	1.23	1.42	1.23	1.23	1.14	1.52	1.37	1.46	1.23	1.33	1.32	1.28	1.26	1.43	1.33	1.52	1.37
Case2_F6.3	Phase Bt	Norwalk 345	70	1249	600	LM345-PLVAL		1.5	1.4	ROCKY	1.24	1.21	1.29	1.19	1.25	1.23	1.21	1.16	1.26	1.26	1.31	1.21	1.38	1.32	1.27	1.26	1.36	1.32	1.5	1.4
Case2_F7.3	Phase Bt	Plumtree 345	70	1249	600	LM345-PLVAL		1.65	1.4	ROCKY	1.27	1.25	1.26	1.24	1.24	1.2	1.2	1.18	1.21	1.24	1.29	1.19	1.36	1.31	1.24	1.25	1.39	1.37	1.65	1.4

CASE #: 2B (Model Rev A15)

DATE: 12/03/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
	TYPE	LOCATION								2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C			
Case2_bas	No Fault		50	302	490				1.05	1.05	ESHOR	1.04	1.04	1.03	1.03	1.04	1.04	1.04	1.04	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.03	1.03	
Case2_F1_3	Phase	Plumtree	50	302	490				1.5	1.31	PT345	1.50	1.31	1.18	1.19	1.33	1.23	1.15	1.16	1.27	1.21	1.18	1.16	1.10	1.11	1.10	1.11	1.31	1.23	1.20	1.16	
Case2_F2_3	Phase	East Devon	50	302	490				1.65	1.36	ED345	1.33	1.29	1.31	1.23	1.57	1.33	1.28	1.21	1.65	1.36	1.15	1.13	1.16	1.14	1.17	1.15	1.29	1.22	1.14	1.13	
Case2_F3_1	Phase	East Devon	50	302	490				1.33	1.08	ED345	1.13	1.04	1.09	1.03	1.24	1.05	1.14	1.03	1.33	1.05	1.14	1.08	1.14	1.04	1.08	1.03	1.10	1.04	1.08	1.03	
Case2_F4_3	Phase	Norwalk Junction	50	302	490				1.46	1.37	NW345	1.28	1.20	1.24	1.18	1.46	1.35	1.22	1.24	1.45	1.37	1.22	1.20	1.20	1.21	1.24	1.15	1.43	1.24	1.31	1.21	
Case2_F5_3	Phase	East Devon	50	302	490				1.65	1.32	ED345	1.48	1.27	1.46	1.25	1.56	1.29	1.40	1.26	1.65	1.32	1.36	1.23	1.36	1.29	1.32	1.14	1.54	1.25	1.41	1.20	
Case2_F6_3	Phase Bt	Norwalk 345	50	302	490				1.53	1.37	NW345	1.39	1.27	1.27	1.26	1.53	1.30	1.34	1.23	1.49	1.37	1.24	1.20	1.27	1.22	1.17	1.16	1.35	1.37	1.25	1.27	
Case2_F7_3	Phase Bt	Plumtree 345	50	302	490				1.55	1.3	PT345	1.55	1.21	1.31	1.21	1.32	1.19	1.24	1.17	1.34	1.21	1.23	1.13	1.22	1.13	1.14	1.11	1.49	1.30	1.33	1.21	
Case2_bas	No Fault		50	302	490	PT345-LM34	1.04	1.04	ED345	1.04	1.04	1.03	1.03	1.04	1.04	1.03	1.03	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.03	1.03	
Case2_F2_3	Phase	East Devon	50	302	490	PT345-LM34	1.49	1.45	ED345	1.32	1.37	1.27	1.24	1.43	1.41	1.18	1.19	1.49	1.45	1.18	1.10	1.08	1.12	1.12	1.09	1.28	1.28	1.14	1.16			
Case2_F3_1	Phase	East Devon	50	302	490	PT345-LM34	1.14	1.09	ED345	1.12	1.03	1.10	1.02	1.13	1.04	1.06	1.02	1.14	1.04	1.11	1.09	1.07	1.03	1.06	1.03	1.11	1.02	1.10	1.02			
Case2_F4_3	Phase	Norwalk Junction	50	302	490	PT345-LM34	1.5	1.35	NW345	1.27	1.22	1.28	1.23	1.50	1.33	1.28	1.21	1.40	1.35	1.13	1.14	1.21	1.18	1.08	1.11	1.22	1.30	1.14	1.21			
Case2_F5_3	Phase	East Devon	50	302	490	PT345-LM34	1.73	1.36	ED345	1.51	1.34	1.42	1.32	1.57	1.36	1.36	1.24	1.73	1.34	1.27	1.22	1.28	1.25	1.13	1.15	1.54	1.26	1.34	1.20			
Case2_F6_3	Phase Bt	Norwalk 345	50	302	490	PT345-LM34	1.48	1.39	NW345	1.41	1.34	1.28	1.28	1.48	1.35	1.25	1.23	1.42	1.39	1.18	1.15	1.16	1.17	1.12	1.14	1.30	1.34	1.20	1.25			
Case2_F7_3	Phase Bt	Plumtree 345	50	302	490	PT345-LM34	1.5	1.25	PT345	1.50	1.23	1.25	1.16	1.31	1.19	1.13	1.13	1.24	1.18	1.09	1.09	1.08	1.07	1.06	1.05	1.35	1.25	1.18	1.15			
Case2_bas	No Fault		50	302	490	BK345-ED34	1.04	1.04	BK345	1.03	1.03	1.03	1.03	1.04	1.04	1.03	1.03	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.03	1.03	1.03	
Case2_F1_3	Phase	Plumtree	50	302	490	BK345-ED34	1.34	1.26	STONY	1.33	1.25	1.17	1.13	1.25	1.21	1.06	1.09	1.22	1.23	1.21	1.18	1.11	1.03	1.16	1.06	1.34	1.26	1.17	1.13			
Case2_F4_3	Phase	Norwalk Junction	50	302	490	BK345-ED34	1.71	1.38	ED345	1.22	1.14	1.18	1.14	1.67	1.31	1.38	1.21	1.71	1.38	1.09	1.09	1.10	1.06	1.13	1.08	1.26	1.17	1.15	1.15			
Case2_F5_3	Phase	East Devon	50	302	490	BK345-ED34	1.85	1.36	ED345	1.43	1.23	1.38	1.18	1.67	1.33	1.41	1.23	1.85	1.36	1.16	1.15	1.20	1.17	1.13	1.12	1.44	1.19	1.29	1.15			
Case2_F6_3	Phase Bt	Norwalk 345	50	302	490	BK345-ED34	1.72	1.43	ED345	1.45	1.23	1.32	1.28	1.71	1.30	1.46	1.23	1.72	1.43	1.12	1.11	1.20	1.16	1.11	1.11	1.38	1.26	1.25	1.19			
Case2_F7_3	Phase Bt	Plumtree 345	50	302	490	BK345-ED34	1.56	1.35	PT345	1.56	1.20	1.33	1.20	1.42	1.17	1.24	1.14	1.47	1.20	1.20	1.14	1.10	1.09	1.16	1.11	1.45	1.35	1.24	1.21			
Case2_bas	No Fault		50	302	490	NE138-NO13	1.04	1.04	ESHOR	1.03	1.03	1.03	1.03	1.03	1.03	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.03	1.03	1.02	1.02		
Case2_F1_3	Phase	Plumtree	50	302	490	NE138-NO13	1.38	1.21	PT345	1.38	1.18	1.12	1.09	1.21	1.12	1.14	1.11	1.14	1.11	1.19	1.10	1.09	1.03	1.10	1.06	1.32	1.21	1.19	1.12			
Case2_F2_3	Phase	East Devon	50	302	490	NE138-NO13	1.47	1.21	ED345	1.18	1.20	1.19	1.18	1.46	1.21	1.29	1.17	1.47	1.21	1.18	1.09	1.09	1.06	1.09	1.10	1.15	1.18	1.10	1.10			
Case2_F3_1	Phase	East Devon	50	302	490	NE138-NO13	1.26	1.06	ED345	1.09	1.03	1.05	1.02	1.19	1.03	1.19	1.04	1.26	1.04	1.12	1.06	1.14	1.03	1.05	1.02	1.05	1.02	1.05	1.02			
Case2_F4_3	Phase	Norwalk Junction	50	302	490	NE138-NO13	1.4	1.23	STONY	1.27	1.20	1.22	1.17	1.29	1.21	1.20	1.19	1.27	1.23	1.12	1.11	1.09	1.10	1.19	1.13	1.40	1.16	1.28	1.16			
Case2_F5_3	Phase	East Devon	50	302	490	NE138-NO13	1.54	1.25	ED345	1.36	1.24	1.35	1.22	1.45	1.25	1.48	1.24	1.54	1.25	1.29	1.17	1.28	1.17	1.22	1.09	1.42	1.21	1.31	1.15			
Case2_F6_3	Phase Bt	Norwalk 345	50	302	490	NE138-NO13	1.46	1.26	NW345	1.30	1.19	1.20	1.23	1.46	1.21	1.41	1.25	1.40	1.26	1.11	1.11	1.21	1.11	1.11	1.07	1.23	1.25	1.17	1.18			
Case2_F7_3	Phase Bt	Plumtree 345	50	302	490	NE138-NO13	1.43	1.33	PT345	1.43	1.20	1.29	1.17	1.26	1.14	1.27	1.13	1.26	1.13	1.14	1.12	1.17	1.06	1.09	1.08	1.41	1.33	1.26	1.21			
Case2_bas	No Fault		50	302	490	LM345-PLVA	1.05	1.05	ED345	1.04	1.04	1.03	1.03	1.04	1.04	1.03	1.03	1.05	1.05	1.04	1.04	1.05	1.05	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	
Case2_F1_3	Phase	Plumtree	50	302	490	LM345-PLVA	1.49	1.26	PT345	1.49	1.25	1.23	1.20	1.33	1.21	1.14	1.15	1.24	1.23	1.17	1.16	1.13	1.14	1.14	1.13	1.32	1.26	1.21	1.20			
Case2_F2_3	Phase	East Devon	50	302	490	LM345-PLVA	1.48	1.41	ED345	1.38	1.41	1.26	1.29	1.42	1.41	1.23	1.22	1.48	1.39	1.33	1.15	1.23	1.19	1.21	1.21	1.27	1.32	1.24	1.26			
Case2_F3_1	Phase	East Devon	50	302	490	LM345-PLVA	1.1	1.1	ED345	1.08	1.04	1.07	1.03	1.08	1.04	1.05	1.02	1.10	1.04	1.09	1.10	1.05	1.04	1.06	1.02	1.07	1.03	1.06	1.02			
Case2_F4_3	Phase	Norwalk Junction	50	302	490	LM345-PLVA	1.47	1.36	NW345	1.24	1.27	1.25	1.22	1.47	1.30	1.25	1.24	1.35	1.36	1.21	1.23	1.24	1.24	1.19	1.19	1.28	1.24	1.21	1.22			
Case2_F5_3	Phase	East Devon	50	302	490	LM345-PLVA	1.7	1.4	ED345	1.34	1.40	1.33	1.33	1.44	1.34	1.26	1.25	1.70	1.37	1.29	1.23	1.26	1.24	1.22	1.14	1.44	1.30	1.33	1.21			
Case2_F6_3	Phase Bt	Norwalk 345	50	302	490	LM345-PLVA	1.45	1.4	NW345	1.38	1.33	1.29	1.27	1.45	1.35	1.25	1.23	1.42	1.40	1.28	1.27	1.27	1.24	1.19	1.22	1.35	1.34	1.25	1.26			
Case2_F7_3	Phase Bt	Plumtree 345	50	302	490	LM345-PLVA	1.41	1.35	STONY	1.36	1.23	1.24	1.21	1.22	1.20	1.14	1.14	1.22	1.21	1.18	1.13	1.14	1.16	1.14	1.11	1.41	1.35	1.26	1.22			

CASE #: 2B (Model Rev A15)

DATE: 12/03/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
	TYPE	LOCATION								2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C			
Case2_bas	No Fault		70	1249	600				1.1	1.1	FB115	1.05	1.05	1.07	1.07	1.06	1.06	1.06	1.06	1.06	1.06	1.07	1.07	1.09	1.09	1.10	1.10	1.07	1.07	1.08	1.08	
Case2_F1_3	Phase Plumtree		70	1249	600				1.52	1.36	PT345	1.52	1.23	1.21	1.14	1.30	1.21	1.17	1.15	1.24	1.20	1.23	1.18	1.10	1.08	1.15	1.14	1.25	1.21	1.37	1.36	
Case2_F2_3	Phase East Devon		70	1249	600				1.57	1.33	ED345	1.26	1.28	1.24	1.22	1.35	1.25	1.24	1.23	1.57	1.26	1.34	1.25	1.21	1.19	1.25	1.25	1.32	1.28	1.33	1.33	
Case2_F3_1	Phase East Devon		70	1249	600				1.26	1.15	ED345	1.10	1.07	1.13	1.08	1.17	1.05	1.14	1.05	1.26	1.06	1.16	1.15	1.15	1.08	1.12	1.09	1.14	1.08	1.16	1.10	
Case2_F4_3	Phase Norwalk Junction		70	1249	600				1.54	1.63	ROCKY	1.28	1.20	1.26	1.18	1.48	1.27	1.28	1.19	1.41	1.29	1.18	1.17	1.22	1.18	1.24	1.25	1.42	1.17	1.54	1.63	
Case2_F5_3	Phase East Devon		70	1249	600				1.51	1.61	ROCKY	1.43	1.21	1.39	1.22	1.49	1.20	1.27	1.19	1.51	1.35	1.27	1.20	1.23	1.20	1.35	1.36	1.42	1.23	1.50	1.61	
Case2_F6_3	Phase Bt Norwalk 345		70	1249	600				1.56	1.39	NW345	1.37	1.17	1.30	1.19	1.56	1.20	1.29	1.20	1.35	1.27	1.17	1.17	1.19	1.17	1.31	1.32	1.34	1.23	1.35	1.39	
Case2_F7_3	Phase Bt Plumtree 345		70	1249	600				1.59	1.41	PT345	1.59	1.24	1.30	1.18	1.31	1.21	1.20	1.15	1.29	1.22	1.19	1.14	1.13	1.11	1.17	1.16	1.35	1.24	1.37	1.41	
Case2_bas	No Fault		70	1249	600	PT345-LM34	1.09	1.09	FB115	1.05	1.05	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.06	1.06	1.06	1.06	1.08	1.08	1.08	1.09	1.09	1.06	1.06	1.08	1.08	
Case2_F2_3	Phase East Devon		70	1249	600	PT345-LM34	1.34	1.3	NW345	1.27	1.26	1.22	1.23	1.34	1.26	1.19	1.20	1.32	1.28	1.23	1.20	1.18	1.09	1.15	1.12	1.26	1.28	1.30	1.30			
Case2_F3_1	Phase East Devon		70	1249	600	PT345-LM34	1.15	1.12	BK345	1.09	1.05	1.09	1.05	1.09	1.05	1.06	1.04	1.14	1.05	1.15	1.12	1.10	1.07	1.11	1.08	1.07	1.05	1.14	1.07			
Case2_F4_3	Phase Norwalk Junction		70	1249	600	PT345-LM34	1.86	1.77	ROCKY	1.32	1.23	1.32	1.23	1.49	1.19	1.26	1.16	1.36	1.19	1.11	1.10	1.11	1.09	1.23	1.22	1.30	1.18	1.86	1.77			
Case2_F5_3	Phase East Devon		70	1249	600	PT345-LM34	1.58	1.54	ROCKY	1.41	1.21	1.45	1.22	1.40	1.19	1.29	1.20	1.51	1.26	1.23	1.22	1.16	1.15	1.26	1.26	1.45	1.25	1.58	1.54			
Case2_F6_3	Phase Bt Norwalk 345		70	1249	600	PT345-LM34	1.46	1.36	PT345	1.46	1.22	1.29	1.20	1.44	1.19	1.24	1.17	1.24	1.18	1.15	1.11	1.14	1.12	1.22	1.19	1.32	1.21	1.27	1.36			
Case2_F7_3	Phase Bt Plumtree 345		70	1249	600	PT345-LM34	1.48	1.4	PT345	1.48	1.17	1.24	1.13	1.32	1.13	1.14	1.10	1.19	1.14	1.10	1.10	1.13	1.07	1.12	1.11	1.23	1.21	1.39	1.40			
Case2_bas	No Fault		70	1249	600	BK345-ED34	1.09	1.09	FB115	1.04	1.04	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.07	1.07	1.08	1.08	1.09	1.09	1.06	1.06	1.08	1.08			
Case2_F1_3	Phase Plumtree		70	1249	600	BK345-ED34	1.35	1.34	ROCKY	1.29	1.18	1.11	1.12	1.19	1.18	1.10	1.10	1.10	1.23	1.16	1.28	1.21	1.14	1.08	1.20	1.19	1.17	1.35	1.34			
Case2_F4_3	Phase Norwalk Junction		70	1249	600	BK345-ED34	1.55	1.53	NW345	1.24	1.15	1.21	1.15	1.55	1.28	1.23	1.20	1.53	1.31	1.15	1.12	1.12	1.13	1.14	1.15	1.32	1.16	1.44	1.53			
Case2_F5_3	Phase East Devon		70	1249	600	BK345-ED34	1.68	1.37	ED345	1.32	1.19	1.31	1.19	1.47	1.21	1.26	1.16	1.68	1.29	1.10	1.10	1.12	1.12	1.24	1.20	1.31	1.16	1.32	1.37			
Case2_F6_3	Phase Bt Norwalk 345		70	1249	600	BK345-ED34	1.61	1.33	NW345	1.37	1.20	1.36	1.21	1.61	1.19	1.30	1.15	1.54	1.22	1.13	1.12	1.19	1.14	1.23	1.20	1.38	1.21	1.31	1.33			
Case2_F7_3	Phase Bt Plumtree 345		70	1249	600	BK345-ED34	1.47	1.41	PT345	1.47	1.12	1.21	1.13	1.36	1.14	1.17	1.10	1.35	1.20	1.24	1.15	1.13	1.07	1.14	1.13	1.28	1.20	1.45	1.41			
Case2_bas	No Fault		70	1249	600	NE138-NO13	1.08	1.08	FB115	1.04	1.04	1.05	1.05	1.04	1.04	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.08	1.08	1.08	1.08	1.06	1.06	1.07	1.07		
Case2_F1_3	Phase Plumtree		70	1249	600	NE138-NO13	1.39	1.32	PT345	1.39	1.15	1.09	1.10	1.17	1.09	1.20	1.10	1.09	1.07	1.21	1.13	1.06	1.06	1.09	1.10	1.17	1.17	1.29	1.32			
Case2_F2_3	Phase East Devon		70	1249	600	NE138-NO13	1.37	1.25	ED345	1.13	1.11	1.13	1.12	1.21	1.11	1.27	1.16	1.37	1.10	1.31	1.25	1.13	1.10	1.16	1.14	1.16	1.15	1.19	1.22			
Case2_F3_1	Phase East Devon		70	1249	600	NE138-NO13	1.25	1.11	ED345	1.10	1.04	1.07	1.05	1.18	1.04	1.21	1.05	1.25	1.04	1.15	1.11	1.15	1.07	1.11	1.08	1.08	1.05	1.13	1.08			
Case2_F4_3	Phase Norwalk Junction		70	1249	600	NE138-NO13	1.49	1.58	ROCKY	1.27	1.17	1.23	1.17	1.25	1.16	1.23	1.15	1.18	1.15	1.14	1.10	1.09	1.07	1.18	1.14	1.38	1.13	1.49	1.58			
Case2_F5_3	Phase East Devon		70	1249	600	NE138-NO13	1.42	1.46	ROCKY	1.30	1.14	1.27	1.16	1.36	1.11	1.27	1.19	1.39	1.26	1.28	1.15	1.12	1.10	1.23	1.24	1.30	1.19	1.42	1.46			
Case2_F6_3	Phase Bt Norwalk 345		70	1249	600	NE138-NO13	1.42	1.32	NW345	1.24	1.07	1.16	1.12	1.42	1.12	1.27	1.18	1.17	1.13	1.15	1.10	1.11	1.06	1.21	1.20	1.20	1.13	1.29	1.32			
Case2_F7_3	Phase Bt Plumtree 345		70	1249	600	NE138-NO13	1.44	1.46	ROCKY	1.44	1.18	1.20	1.10	1.21	1.11	1.22	1.12	1.15	1.15	1.22	1.14	1.08	1.07	1.11	1.11	1.23	1.19	1.35	1.46			
Case2_bas	No Fault		70	1249	600	LM345-PLVA	1.1	1.1	FB115	1.06	1.06	1.07	1.07	1.06	1.06	1.05	1.05	1.06	1.06	1.06	1.06	1.06	1.08	1.08	1.10	1.10	1.07	1.07	1.08	1.08		
Case2_F1_3	Phase Plumtree		70	1249	600	LM345-PLVA	1.47	1.39	ROCKY	1.43	1.24	1.20	1.16	1.26	1.17	1.15	1.15	1.20	1.18	1.16	1.20	1.10	1.08	1.18	1.14	1.39	1.28	1.47	1.39			
Case2_F2_3	Phase East Devon		70	1249	600	LM345-PLVA	1.44	1.3	ED345	1.25	1.25	1.23	1.24	1.31	1.23	1.23	1.22	1.44	1.27	1.23	1.23	1.17	1.13	1.16	1.16	1.27	1.30	1.29	1.28			
Case2_F3_1	Phase East Devon		70	1249	600	LM345-PLVA	1.13	1.11	ED345	1.10	1.07	1.09	1.06	1.10	1.06	1.06	1.05	1.13	1.06	1.11	1.11	1.08	1.07	1.11	1.09	1.08	1.07	1.12	1.09			
Case2_F4_3	Phase Norwalk Junction		70	1249	600	LM345-PLVA	0	0		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Case2_F5_3	Phase East Devon		70	1249	600	LM345-PLVA	1.49	1.58	ROCKY	1.30	1.17	1.39	1.19	1.31	1.18	1.23	1.20	1.49	1.25	1.28	1.21	1.21	1.19	1.26	1.31	1.38	1.22	1.47	1.58			
Case2_F6_3	Phase Bt Norwalk 345		70	1249	600	LM345-PLVA	0	0		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Case2_F7_3	Phase Bt Plumtree 345		70	1249	600	LM345-PLVA	1.38	1.39	ROCKY	1.38	1.18	1.22	1.14	1.23	1.14	1.12	1.13	1.16	1.17	1.18	1.13	1.11	1.07	1.16	1.15	1.32	1.27	1.37	1.39			

CASE #: Case 5 with Ansonia, Bunker Hill and Hawthorne Banks DATE: 12/12/2004
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C
Case5_basNo Fault			40	0	500				1.03	1.03	ED345	1.02	1.02	1.02	1.02	1.03	1.03	1.02	1.02	1.03	1.03	1.03	1.03	1.03	1.03	1.01	1.01	1.02	1.02	1.01	1.01	
Case5_F1.3 Phase		Plumtree	40	0	500				1.31	1.22	ED345	1.29	1.22	1.30	1.20	1.30	1.21	1.20	1.15	1.31	1.21	1.15	1.07	1.17	1.10	1.10	1.05	1.26	1.18	1.21	1.18	
Case5_F2.3 Phase		East Devon	40	0	500				1.48	1.31	ED345	1.42	1.30	1.35	1.21	1.45	1.31	1.32	1.18	1.48	1.30	1.15	1.07	1.20	1.15	1.16	1.12	1.32	1.21	1.26	1.19	
Case5_F3.1 Phase		East Devon	40	0	500				1.05	1.03	ED345	1.03	1.02	1.02	1.02	1.04	1.03	1.02	1.02	1.05	1.03	1.04	1.02	1.03	1.03	1.02	1.01	1.02	1.01	1.03	1.01	
Case5_F4.3 Phase		Norwalk Junction	40	0	500				1.44	1.40	NW345	1.24	1.21	1.25	1.21	1.44	1.40	1.31	1.28	1.43	1.39	1.24	1.19	1.25	1.24	1.17	1.17	1.25	1.21	1.26	1.19	
Case5_F5.3 Phase		Singer	40	0	500				1.42	1.37	ED345	1.36	1.30	1.30	1.29	1.40	1.35	1.30	1.25	1.42	1.37	1.23	1.18	1.26	1.21	1.17	1.14	1.28	1.25	1.28	1.20	
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500				1.40	1.35	ED345	1.35	1.31	1.32	1.25	1.40	1.35	1.28	1.27	1.40	1.34	1.24	1.18	1.25	1.19	1.19	1.13	1.31	1.24	1.25	1.22	
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500				1.27	1.23	PT115	1.24	1.20	1.27	1.23	1.26	1.21	1.19	1.15	1.26	1.21	1.14	1.12	1.17	1.14	1.12	1.10	1.24	1.23	1.20	1.18	
Case5_basNo Fault			40	0	500	PT345-LM34	1.04	1.04	ED345	1.03	1.03	1.02	1.02	1.03	1.03	1.02	1.02	1.04	1.04	1.03	1.03	1.03	1.03	1.01	1.01	1.02	1.02	1.01	1.01	1.01	1.01	
Case5_F2.3 Phase		East Devon	40	0	500	PT345-LM34	1.33	1.12	NW345	1.33	1.12	1.30	1.06	1.33	1.10	1.21	1.04	1.33	1.10	1.07	1.03	1.08	1.03	1.05	1.02	1.23	1.07	1.14	1.05			
Case5_F3.1 Phase		East Devon	40	0	500	PT345-LM34	1.05	1.04	ED345	1.05	1.03	1.03	1.02	1.05	1.04	1.03	1.02	1.05	1.04	1.05	1.02	1.03	1.02	1.03	1.01	1.02	1.02	1.02	1.01	1.01	1.01	1.01
Case5_F4.3 Phase		Norwalk Junction	40	0	500	PT345-LM34	1.41	1.37	ED345	1.22	1.22	1.21	1.22	1.41	1.37	1.28	1.26	1.41	1.37	1.19	1.17	1.21	1.17	1.10	1.11	1.20	1.19	1.22	1.17			
Case5_F5.3 Phase		Singer	40	0	500	PT345-LM34	1.46	1.37	ED345	1.43	1.37	1.39	1.30	1.45	1.37	1.34	1.22	1.46	1.36	1.22	1.16	1.25	1.18	1.16	1.11	1.35	1.28	1.31	1.20			
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	PT345-LM34	1.55	1.41	NW345	1.48	1.36	1.47	1.30	1.55	1.39	1.41	1.25	1.54	1.41	1.23	1.15	1.31	1.17	1.17	1.08	1.47	1.30	1.36	1.24			
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	PT345-LM34	1.29	1.22	PT345	1.29	1.21	1.27	1.20	1.27	1.22	1.18	1.17	1.28	1.22	1.11	1.07	1.15	1.12	1.09	1.07	1.25	1.18	1.22	1.15			
Case5_basNo Fault			40	0	500	BK345-ED34	1.03	1.03	ED345	1.02	1.02	1.02	1.02	1.03	1.03	1.02	1.02	1.03	1.03	1.02	1.02	1.02	1.02	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01
Case5_F1.3 Phase		Plumtree	40	0	500	BK345-ED34	1.23	1.08	ED345	1.18	1.08	1.13	1.06	1.23	1.06	1.13	1.03	1.23	1.08	1.04	1.03	1.04	1.04	1.06	1.03	1.11	1.06	1.11	1.06	1.11	1.06	
Case5_F4.3 Phase		Norwalk Junction	40	0	500	BK345-ED34	1.62	1.36	ED345	1.18	1.09	1.17	1.10	1.61	1.36	1.33	1.18	1.62	1.36	1.06	1.07	1.21	1.10	1.05	1.02	1.16	1.09	1.17	1.07			
Case5_F5.3 Phase		Singer	40	0	500	BK345-ED34	1.42	1.34	ED345	1.37	1.32	1.28	1.25	1.39	1.33	1.27	1.23	1.42	1.34	1.11	1.07	1.17	1.14	1.13	1.10	1.27	1.24	1.25	1.22			
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	BK345-ED34	1.49	1.34	ED345	1.39	1.32	1.33	1.25	1.47	1.34	1.34	1.23	1.49	1.34	1.10	1.06	1.19	1.13	1.14	1.10	1.33	1.25	1.31	1.23			
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	BK345-ED34	1.34	1.26	ED345	1.28	1.17	1.29	1.19	1.32	1.25	1.20	1.16	1.34	1.26	1.08	1.05	1.11	1.10	1.11	1.07	1.26	1.18	1.24	1.17			
Case5_basNo Fault			40	0	500	NE138-NO13	1.02	1.02	ED345	1.02	1.02	1.01	1.01	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.01	1.01	1.01	1.01	1.00	1.00	1.00	1.00
Case5_F1.3 Phase		Plumtree	40	0	500	NE138-NO13	1.15	1.16	PT115	1.14	1.06	1.15	1.16	1.14	1.07	1.14	1.05	1.15	1.07	1.07	1.03	1.04	1.03	1.06	1.02	1.15	1.15	1.12	1.14			
Case5_F2.3 Phase		East Devon	40	0	500	NE138-NO13	1.32	1.15	ED345	1.24	1.13	1.20	1.15	1.29	1.13	1.26	1.14	1.32	1.14	1.07	1.03	1.11	1.06	1.07	1.05	1.19	1.15	1.16	1.12			
Case5_F3.1 Phase		East Devon	40	0	500	NE138-NO13	1.03	1.02	BK345	1.02	1.01	1.02	1.01	1.02	1.02	1.02	1.01	1.02	1.02	1.03	1.02	1.02	1.02	1.02	1.01	1.00	1.01	1.00	1.01	1.00	1.00	1.00
Case5_F4.3 Phase		Norwalk Junction	40	0	500	NE138-NO13	1.29	1.23	NW345	1.17	1.12	1.15	1.12	1.29	1.23	1.27	1.20	1.28	1.23	1.16	1.09	1.16	1.11	1.12	1.08	1.16	1.12	1.18	1.12			
Case5_F5.3 Phase		Singer	40	0	500	NE138-NO13	1.30	1.25	ED345	1.28	1.24	1.29	1.22	1.28	1.25	1.28	1.24	1.30	1.25	1.18	1.13	1.18	1.12	1.15	1.10	1.28	1.21	1.22	1.17			
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	NE138-NO13	1.32	1.24	ED345	1.27	1.24	1.31	1.20	1.31	1.24	1.27	1.23	1.32	1.23	1.16	1.13	1.17	1.11	1.12	1.09	1.29	1.20	1.27	1.17			
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	NE138-NO13	1.27	1.22	ROCKY	1.22	1.14	1.25	1.19	1.20	1.16	1.17	1.13	1.22	1.17	1.09	1.07	1.11	1.09	1.10	1.09	1.23	1.19	1.27	1.22			
Case5_basNo Fault			40	0	500	LM345-PLVA	1.04	1.04	ED345	1.04	1.04	1.03	1.03	1.04	1.04	1.03	1.03	1.04	1.04	1.03	1.03	1.03	1.03	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	
Case5_F1.3 Phase		Plumtree	40	0	500	LM345-PLVA	1.33	1.24	NW345	1.32	1.21	1.28	1.22	1.33	1.24	1.20	1.16	1.32	1.23	1.15	1.10	1.21	1.14	1.16	1.11	1.24	1.21	1.21	1.21			
Case5_F2.3 Phase		East Devon	40	0	500	LM345-PLVA	1.47	1.23	ED345	1.38	1.22	1.41	1.18	1.44	1.22	1.32	1.16	1.47	1.23	1.18	1.05	1.23	1.11	1.17	1.05	1.36	1.17	1.29	1.13			
Case5_F3.1 Phase		East Devon	40	0	500	LM345-PLVA	1.04	1.04	ED345	1.03	1.03	1.03	1.02	1.04	1.04	1.03	1.02	1.04	1.04	1.04	1.02	1.03	1.03	1.02	1.01	1.02	1.02	1.02	1.01	1.01	1.01	1.01
Case5_F4.3 Phase		Norwalk Junction	40	0	500	LM345-PLVA	1.45	1.39	NW345	1.24	1.21	1.24	1.17	1.45	1.38	1.30	1.27	1.44	1.39	1.23	1.18	1.23	1.20	1.16	1.14	1.24	1.18	1.21	1.19			
Case5_F5.3 Phase		Singer	40	0	500	LM345-PLVA	1.45	1.36	ED345	1.42	1.35	1.36	1.31	1.44	1.36	1.36	1.22	1.45	1.35	1.25	1.20	1.29	1.20	1.20	1.15	1.37	1.30	1.32	1.23			
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	LM345-PLVA	1.53	1.37	NW345	1.47	1.34	1.36	1.27	1.53	1.36	1.40	1.23	1.52	1.37	1.27	1.16	1.34	1.18	1.24	1.14	1.33	1.26	1.32	1.24			
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	LM345-PLVA	1.31	1.24	NW345	1.30	1.20	1.27	1.21	1.31	1.23	1.20	1.17	1.31	1.24	1.16	1.11	1.20	1.16	1.15	1.11	1.24	1.18	1.19	1.17			

CASE #: Case 5 with Ansonia, Bunker Hill and Hawthorne Banks DATE: 12/12/2004
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		50	434	690				1.07	1.07	ESHOR	1.06	1.06	1.05	1.05	1.06	1.06	1.05	1.05	1.06	1.06	1.07	1.07	1.07	1.07	1.07	1.07	1.06	1.06	1.06	1.06
Case5_F1_3	Phase Plumtree		50	434	690				1.29	1.26	PT115	1.27	1.15	1.29	1.22	1.24	1.15	1.20	1.14	1.23	1.15	1.16	1.12	1.18	1.11	1.21	1.17	1.29	1.26	1.22	1.21
Case5_F2_3	Phase East Devon		50	434	690				1.46	1.29	NW345	1.38	1.22	1.28	1.24	1.46	1.29	1.33	1.25	1.46	1.29	1.15	1.11	1.30	1.17	1.26	1.19	1.36	1.22	1.24	1.17
Case5_F3_1	Phase East Devon		50	434	690				1.14	1.09	BK345	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.05	1.05	1.14	1.09	1.07	1.07	1.07	1.06	1.05	1.05	1.06	1.05
Case5_F4_3	Phase Norwalk Junction		50	434	690				1.42	1.36	ED345	1.28	1.20	1.21	1.20	1.42	1.36	1.32	1.31	1.42	1.35	1.28	1.21	1.30	1.22	1.30	1.29	1.32	1.34	1.20	1.21
Case5_F5_3	Phase Singer		50	434	690				1.44	1.34	ED345	1.39	1.30	1.30	1.29	1.40	1.32	1.33	1.32	1.44	1.34	1.33	1.25	1.33	1.26	1.32	1.28	1.32	1.28	1.30	1.27
Case5_F6_3	Phase Bt Norwalk 345		50	434	690				1.41	1.33	ED345	1.34	1.26	1.35	1.25	1.40	1.32	1.31	1.29	1.41	1.33	1.34	1.21	1.33	1.21	1.34	1.28	1.27	1.24	1.27	1.21
Case5_F7_3	Phase Bt Plumtree 345		50	434	690				1.34	1.31	STONY	1.26	1.21	1.30	1.31	1.24	1.19	1.22	1.18	1.25	1.20	1.16	1.12	1.19	1.15	1.25	1.24	1.34	1.28	1.26	1.24
Case5_bas	No Fault		50	434	690	PT345-LM34	1.07	1.07	ESHOR	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.05	1.05	1.06	1.06	1.07	1.07	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.05
Case5_F2_3	Phase East Devon		50	434	690	PT345-LM34	1.26	1.13	ED345	1.26	1.04	1.17	1.08	1.26	1.07	1.09	1.05	1.26	1.06	1.15	1.13	1.07	1.08	1.06	1.07	1.24	1.09	1.12	1.07	1.12	1.07
Case5_F3_1	Phase East Devon		50	434	690	PT345-LM34	1.12	1.08	BK345	1.04	1.02	1.02	1.02	1.03	1.03	1.02	1.02	1.03	1.03	1.12	1.08	1.06	1.06	1.06	1.06	1.06	1.03	1.03	1.04	1.04	1.03
Case5_F4_3	Phase Norwalk Junction		50	434	690	PT345-LM34	1.39	1.32	NW345	1.25	1.22	1.25	1.21	1.39	1.32	1.27	1.27	1.39	1.32	1.21	1.17	1.23	1.16	1.19	1.11	1.23	1.21	1.17	1.17	1.17	1.17
Case5_F5_3	Phase Singer		50	434	690	PT345-LM34	1.48	1.32	ED345	1.44	1.32	1.40	1.23	1.44	1.30	1.34	1.28	1.48	1.31	1.27	1.17	1.25	1.17	1.18	1.17	1.33	1.25	1.27	1.21	1.21	1.21
Case5_F6_3	Phase Bt Norwalk 345		50	434	690	PT345-LM34	1.50	1.28	ED345	1.43	1.27	1.43	1.23	1.47	1.28	1.34	1.20	1.50	1.28	1.24	1.13	1.25	1.13	1.17	1.14	1.43	1.18	1.29	1.16	1.16	1.16
Case5_F7_3	Phase Bt Plumtree 345		50	434	690	PT345-LM34	1.27	1.20	PT345	1.27	1.14	1.24	1.20	1.20	1.14	1.12	1.10	1.20	1.13	1.10	1.08	1.09	1.07	1.09	1.08	1.26	1.19	1.18	1.14	1.14	1.14
Case5_bas	No Fault		50	434	690	BK345-ED34	1.07	1.07	BK345	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.05	1.05	1.07	1.07	1.07	1.07	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.05
Case5_F1_3	Phase Plumtree		50	434	690	BK345-ED34	1.19	1.13	BK345	1.16	1.04	1.13	1.10	1.18	1.07	1.08	1.02	1.17	1.07	1.19	1.13	1.06	1.06	1.17	1.07	1.18	1.12	1.13	1.09	1.09	1.09
Case5_F4_3	Phase Norwalk Junction		50	434	690	BK345-ED34	1.55	1.28	NW345	1.17	1.14	1.13	1.11	1.55	1.28	1.30	1.17	1.54	1.28	1.12	1.09	1.13	1.07	1.16	1.15	1.24	1.24	1.12	1.12	1.12	1.12
Case5_F5_3	Phase Singer		50	434	690	BK345-ED34	1.45	1.33	ED345	1.34	1.25	1.30	1.27	1.42	1.31	1.30	1.27	1.45	1.33	1.17	1.13	1.21	1.17	1.20	1.16	1.32	1.27	1.25	1.24	1.24	1.24
Case5_F6_3	Phase Bt Norwalk 345		50	434	690	BK345-ED34	1.49	1.32	NW345	1.34	1.20	1.30	1.22	1.49	1.30	1.36	1.25	1.48	1.32	1.14	1.09	1.20	1.12	1.20	1.16	1.33	1.24	1.22	1.18	1.18	1.18
Case5_F7_3	Phase Bt Plumtree 345		50	434	690	BK345-ED34	1.30	1.23	PT345	1.30	1.20	1.28	1.23	1.29	1.20	1.22	1.16	1.29	1.20	1.13	1.09	1.11	1.07	1.19	1.15	1.29	1.22	1.23	1.19	1.19	1.19
Case5_bas	No Fault		50	434	690	NE138-NO13	1.07	1.07	ESHOR	1.05	1.05	1.05	1.05	1.05	1.05	1.06	1.06	1.05	1.05	1.06	1.06	1.06	1.07	1.07	1.06	1.06	1.05	1.05	1.05	1.05	1.05
Case5_F1_3	Phase Plumtree		50	434	690	NE138-NO13	1.19	1.15	PT115	1.10	1.05	1.19	1.10	1.11	1.03	1.09	1.06	1.10	1.04	1.14	1.09	1.07	1.07	1.17	1.12	1.18	1.15	1.14	1.10	1.10	1.10
Case5_F2_3	Phase East Devon		50	434	690	NE138-NO13	1.25	1.13	ED345	1.17	1.07	1.17	1.13	1.25	1.11	1.23	1.12	1.25	1.11	1.14	1.11	1.14	1.08	1.17	1.13	1.24	1.10	1.13	1.08	1.08	1.08
Case5_F3_1	Phase East Devon		50	434	690	NE138-NO13	1.12	1.07	BK345	1.05	1.04	1.04	1.04	1.04	1.04	1.05	1.05	1.05	1.04	1.12	1.07	1.06	1.06	1.06	1.06	1.05	1.04	1.05	1.04	1.04	1.04
Case5_F4_3	Phase Norwalk Junction		50	434	690	NE138-NO13	1.29	1.25	STONY	1.21	1.16	1.19	1.17	1.27	1.19	1.28	1.25	1.27	1.19	1.18	1.10	1.18	1.09	1.27	1.24	1.29	1.25	1.16	1.16	1.16	1.16
Case5_F5_3	Phase Singer		50	434	690	NE138-NO13	1.34	1.31	NW115	1.27	1.19	1.23	1.21	1.33	1.25	1.34	1.31	1.33	1.26	1.23	1.16	1.24	1.15	1.23	1.21	1.25	1.21	1.22	1.20	1.20	1.20
Case5_F6_3	Phase Bt Norwalk 345		50	434	690	NE138-NO13	1.33	1.26	NW115	1.25	1.15	1.21	1.19	1.29	1.22	1.33	1.26	1.30	1.22	1.23	1.14	1.23	1.10	1.24	1.17	1.22	1.19	1.18	1.16	1.16	1.16
Case5_F7_3	Phase Bt Plumtree 345		50	434	690	NE138-NO13	1.26	1.20	PT115	1.17	1.13	1.26	1.20	1.16	1.11	1.19	1.18	1.16	1.11	1.16	1.09	1.11	1.07	1.20	1.18	1.24	1.20	1.21	1.17	1.17	1.17
Case5_bas	No Fault		50	434	690	LM345-PLVA	1.07	1.07	ESHOR	1.06	1.06	1.05	1.05	1.06	1.06	1.05	1.05	1.06	1.06	1.06	1.06	1.06	1.07	1.07	1.06	1.06	1.05	1.05	1.05	1.05	1.05
Case5_F1_3	Phase Plumtree		50	434	690	LM345-PLVA	1.34	1.24	STONY	1.27	1.13	1.28	1.18	1.23	1.13	1.16	1.11	1.22	1.14	1.13	1.10	1.15	1.09	1.24	1.24	1.34	1.23	1.25	1.19	1.19	1.19
Case5_F2_3	Phase East Devon		50	434	690	LM345-PLVA	1.35	1.16	ED345	1.31	1.11	1.22	1.14	1.34	1.14	1.16	1.10	1.35	1.16	1.14	1.12	1.19	1.08	1.22	1.13	1.29	1.14	1.25	1.10	1.10	1.10
Case5_F3_1	Phase East Devon		50	434	690	LM345-PLVA	1.08	1.07	BK345	1.05	1.04	1.05	1.04	1.05	1.04	1.04	1.05	1.05	1.08	1.07	1.06	1.06	1.06	1.06	1.05	1.04	1.04	1.04	1.04	1.04	1.04
Case5_F4_3	Phase Norwalk Junction		50	434	690	LM345-PLVA	1.45	1.31	FB115	1.32	1.23	1.28	1.23	1.38	1.31	1.30	1.26	1.37	1.31	1.26	1.18	1.33	1.21	1.45	1.29	1.39	1.25	1.29	1.26	1.26	1.26
Case5_F5_3	Phase Singer		50	434	690	LM345-PLVA	1.43	1.34	ED345	1.40	1.26	1.30	1.22	1.41	1.28	1.29	1.25	1.43	1.30	1.28	1.17	1.37	1.21	1.35	1.34	1.27	1.20	1.28	1.27	1.27	
Case5_F6_3	Phase Bt Norwalk 345		50	434	690	LM345-PLVA	1.43	1.28	NW345	1.36	1.22	1.36	1.18	1.43	1.26	1.32	1.18	1.41	1.26	1.27	1.15	1.35	1.16	1.39	1.28	1.31	1.16	1.33	1.19	1.19	
Case5_F7_3	Phase Bt Plumtree 345		50	434	690	LM345-PLVA	1.30	1.21	STONY	1.22	1.14	1.26	1.20	1.21	1.13	1.13	1.10	1.20	1.13	1.16	1.13	1.18	1.09	1.23	1.18	1.30	1.21	1.23	1		

CASE #: Case 5 with Ansonia, Bunker Hill and Hawthorne Banks DATE: 12/12/2004
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_basNo Fault			70	1382	900				1.12	1.12	FB115	1.06	1.06	1.08	1.08	1.06	1.06	1.06	1.06	1.06	1.06	1.08	1.08	1.11	1.11	1.12	1.12	1.08	1.08	1.10	1.10
Case5_F1.3 Phase Plumtree			70	1382	900				1.49	1.44	ROCKY	1.22	1.12	1.27	1.24	1.13	1.08	1.17	1.07	1.14	1.09	1.16	1.10	1.09	1.08	1.20	1.18	1.20	1.22	1.49	1.44
Case5_F2.3 Phase East Devon			70	1382	900				1.49	1.36	ROCKY	1.24	1.12	1.21	1.14	1.25	1.13	1.25	1.15	1.31	1.13	1.16	1.15	1.20	1.11	1.27	1.18	1.23	1.13	1.49	1.36
Case5_F3.1 Phase East Devon			70	1382	900				1.13	1.12	BK345	1.06	1.05	1.07	1.07	1.05	1.04	1.05	1.05	1.05	1.04	1.13	1.10	1.10	1.10	1.12	1.12	1.08	1.07	1.10	1.10
Case5_F4.3 Phase Norwalk Junction			70	1382	900				1.52	1.45	ROCKY	1.29	1.17	1.22	1.18	1.22	1.14	1.22	1.21	1.22	1.13	1.24	1.13	1.23	1.16	1.31	1.22	1.19	1.18	1.52	1.45
Case5_F5.3 Phase Singer			70	1382	900				1.56	1.39	ROCKY	1.25	1.13	1.25	1.21	1.23	1.14	1.25	1.20	1.32	1.15	1.21	1.12	1.26	1.15	1.38	1.29	1.27	1.23	1.56	1.39
Case5_F6.3 Phase Bt Norwalk 345			70	1382	900				1.47	1.38	ROCKY	1.20	1.13	1.24	1.23	1.21	1.13	1.21	1.16	1.22	1.14	1.22	1.12	1.24	1.09	1.33	1.25	1.25	1.25	1.47	1.38
Case5_F7.3 Phase Bt Plumtree 345			70	1382	900				1.59	1.56	ROCKY	1.19	1.15	1.25	1.21	1.18	1.13	1.18	1.13	1.18	1.14	1.18	1.12	1.11	1.09	1.18	1.18	1.24	1.17	1.59	1.56
Case5_basNo Fault			70	1382	900	PT345-LM34	1.12	1.12	FB115	1.05	1.05	1.07	1.07	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.07	1.07	1.10	1.10	1.12	1.12	1.07	1.07	1.09	1.09	
Case5_F2.3 Phase East Devon			70	1382	900	PT345-LM34	1.29	1.15	ROCKY	1.09	1.02	1.09	1.03	1.10	1.02	1.10	1.03	1.11	1.02	1.18	1.14	1.10	1.10	1.13	1.15	1.13	1.06	1.29	1.14	1.07	1.07
Case5_F3.1 Phase East Devon			70	1382	900	PT345-LM34	1.11	1.10	BK345	1.01	1.01	1.03	1.03	1.02	1.01	1.02	1.02	1.02	1.01	1.11	1.09	1.08	1.08	1.11	1.10	1.04	1.04	1.07	1.07		
Case5_F4.3 Phase Norwalk Junction			70	1382	900	PT345-LM34	1.81	1.49	ROCKY	1.34	1.17	1.20	1.16	1.15	1.13	1.16	1.15	1.14	1.14	1.24	1.14	1.13	1.08	1.25	1.19	1.17	1.17	1.81	1.49	1.07	1.07
Case5_F5.3 Phase Singer			70	1382	900	PT345-LM34	1.50	1.35	ROCKY	1.24	1.16	1.26	1.18	1.19	1.14	1.20	1.12	1.27	1.14	1.16	1.12	1.17	1.08	1.26	1.18	1.26	1.19	1.50	1.35	1.07	1.07
Case5_F6.3 Phase Bt Norwalk 345			70	1382	900	PT345-LM34	1.46	1.39	ROCKY	1.28	1.17	1.25	1.23	1.15	1.12	1.17	1.12	1.18	1.13	1.20	1.13	1.13	1.08	1.26	1.16	1.25	1.24	1.46	1.39	1.07	1.07
Case5_F7.3 Phase Bt Plumtree 345			70	1382	900	PT345-LM34	1.46	1.44	ROCKY	1.15	1.14	1.17	1.16	1.14	1.08	1.11	1.10	1.15	1.08	1.10	1.09	1.09	1.09	1.14	1.13	1.18	1.14	1.46	1.44	1.07	1.07
Case5_basNo Fault			70	1382	900	BK345-ED34	1.12	1.12	FB115	1.05	1.05	1.07	1.07	1.04	1.04	1.05	1.05	1.04	1.04	1.09	1.09	1.10	1.10	1.12	1.12	1.07	1.07	1.09	1.09		
Case5_F1.3 Phase Plumtree			70	1382	900	BK345-ED34	1.41	1.42	ROCKY	1.13	1.05	1.22	1.12	1.06	1.02	1.04	1.03	1.07	1.03	1.20	1.13	1.10	1.10	1.18	1.19	1.19	1.14	1.41	1.42	1.07	1.07
Case5_F4.3 Phase Norwalk Junction			70	1382	900	BK345-ED34	1.37	1.33	ROCKY	1.16	1.12	1.18	1.11	1.22	1.09	1.21	1.11	1.21	1.09	1.13	1.11	1.10	1.09	1.20	1.21	1.18	1.20	1.37	1.33	1.07	1.07
Case5_F5.3 Phase Singer			70	1382	900	BK345-ED34	1.41	1.27	ROCKY	1.19	1.15	1.24	1.19	1.17	1.15	1.19	1.13	1.20	1.16	1.15	1.12	1.17	1.09	1.25	1.20	1.24	1.19	1.41	1.27	1.07	1.07
Case5_F6.3 Phase Bt Norwalk 345			70	1382	900	BK345-ED34	1.45	1.25	ROCKY	1.21	1.17	1.28	1.20	1.17	1.14	1.22	1.15	1.19	1.15	1.13	1.11	1.15	1.09	1.26	1.18	1.29	1.20	1.45	1.25	1.07	1.07
Case5_F7.3 Phase Bt Plumtree 345			70	1382	900	BK345-ED34	1.50	1.47	ROCKY	1.21	1.12	1.24	1.24	1.16	1.09	1.17	1.09	1.18	1.10	1.17	1.12	1.09	1.09	1.19	1.16	1.19	1.19	1.50	1.47	1.07	1.07
Case5_basNo Fault			70	1382	900	NE138-NO13	1.11	1.11	FB115	1.05	1.05	1.07	1.07	1.05	1.05	1.08	1.08	1.05	1.05	1.07	1.07	1.10	1.10	1.11	1.11	1.08	1.08	1.10	1.10	1.07	1.07
Case5_F1.3 Phase Plumtree			70	1382	900	NE138-NO13	1.38	1.41	ROCKY	1.14	1.05	1.18	1.12	1.05	1.05	1.08	1.07	1.06	1.05	1.13	1.07	1.08	1.08	1.13	1.12	1.15	1.14	1.38	1.41	1.07	1.07
Case5_F2.3 Phase East Devon			70	1382	900	NE138-NO13	1.36	1.17	ROCKY	1.10	1.05	1.11	1.07	1.06	1.04	1.16	1.08	1.08	1.05	1.18	1.13	1.12	1.11	1.12	1.10	1.12	1.11	1.36	1.17	1.07	1.07
Case5_F3.1 Phase East Devon			70	1382	900	NE138-NO13	1.12	1.11	BK345	1.04	1.04	1.06	1.05	1.04	1.03	1.06	1.06	1.04	1.03	1.12	1.09	1.09	1.09	1.11	1.11	1.07	1.06	1.08	1.08	1.07	1.07
Case5_F4.3 Phase Norwalk Junction			70	1382	900	NE138-NO13	1.57	1.47	ROCKY	1.28	1.14	1.21	1.15	1.10	1.10	1.18	1.13	1.10	1.09	1.21	1.11	1.11	1.10	1.16	1.11	1.21	1.18	1.57	1.47	1.07	1.07
Case5_F5.3 Phase Singer			70	1382	900	NE138-NO13	1.39	1.28	ROCKY	1.15	1.07	1.15	1.11	1.14	1.07	1.22	1.12	1.22	1.07	1.13	1.09	1.14	1.08	1.25	1.18	1.20	1.12	1.39	1.28	1.07	1.07
Case5_F6.3 Phase Bt Norwalk 345			70	1382	900	NE138-NO13	1.36	1.23	ROCKY	1.17	1.09	1.19	1.14	1.09	1.07	1.17	1.15	1.14	1.08	1.21	1.11	1.10	1.08	1.21	1.15	1.21	1.16	1.36	1.23	1.07	1.07
Case5_F7.3 Phase Bt Plumtree 345			70	1382	900	NE138-NO13	1.53	1.46	ROCKY	1.13	1.10	1.19	1.18	1.08	1.05	1.15	1.10	1.10	1.06	1.13	1.08	1.09	1.08	1.15	1.15	1.19	1.15	1.53	1.46	1.07	1.07
Case5_basNo Fault			70	1382	900	LM345-PLVA	1.12	1.12	FB115	1.07	1.07	1.08	1.08	1.06	1.06	1.06	1.06	1.06	1.06	1.08	1.08	1.10	1.10	1.12	1.12	1.08	1.08	1.10	1.10	1.07	1.07
Case5_F1.3 Phase Plumtree			70	1382	900	LM345-PLVA	1.42	1.44	ROCKY	1.19	1.11	1.27	1.23	1.08	1.06	1.12	1.07	1.08	1.07	1.12	1.09	1.08	1.09	1.17	1.17	1.27	1.21	1.42	1.44	1.07	1.07
Case5_F2.3 Phase East Devon			70	1382	900	LM345-PLVA	1.38	1.22	ROCKY	1.12	1.06	1.14	1.09	1.14	1.07	1.14	1.06	1.15	1.07	1.19	1.13	1.10	1.09	1.15	1.14	1.17	1.10	1.38	1.22	1.07	1.07
Case5_F3.1 Phase East Devon			70	1382	900	LM345-PLVA	1.11	1.11	BK345	1.07	1.05	1.06	1.06	1.05	1.04	1.04	1.04	1.05	1.04	1.11	1.08	1.09	1.09	1.11	1.11	1.07	1.07	1.09	1.09	1.07	1.07
Case5_F4.3 Phase Norwalk Junction			70	1382	900	LM345-PLVA	1.56	1.53	ROCKY	1.27	1.20	1.23	1.24	1.14	1.10	1.16	1.14	1.15	1.11	1.19	1.12	1.20	1.10	1.28	1.19	1.26	1.22	1.56	1.53	1.07	1.07
Case5_F5.3 Phase Singer			70	1382	900	LM345-PLVA	1.49	1.32	ROCKY	1.22	1.11	1.20	1.13	1.18	1.10	1.20	1.10	1.29	1.14	1.18	1.11	1.21	1.08	1.31	1.20	1.19	1.17	1.49	1.32	1.07	1.07
Case5_F6.3 Phase Bt Norwalk 345			70	1382	900	LM345-PLVA	1.42	1.32	ROCKY	1.15	1.11	1.22	1.18	1.12	1.10	1.18	1.11	1.14	1.10	1.20	1.12	1.17	1.08	1.25	1.15	1.28	1.20	1.42	1.32	1.07	1.07
Case5_F7.3 Phase Bt Plumtree 345			70	1382	900	LM345-PLVA	1.45	1.44	ROCKY	1.16	1.12	1.24	1.22	1.12	1.07	1.14	1.08	1.12	1.08	1.14	1.09	1.08	1.09	1.14	1.14	1.20	1.19	1.45	1.44	1.07	1.07

CASE #: Case 5 - 50% load Special Cap Case
 Normal 50% + Glenbrook, North Haven, Waterside, Sacket and Southington Rings 1 & 2
 DATE: 12/14/2004
 DONE BY: Jack King/EnerNex GE 2C and 6C Windows

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		50	710	690				1.10	1.10	ESHOR	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.08	1.08	1.09	1.09	1.10	1.10	1.08	1.08	1.07	1.07	1.07	1.07
Case5_F1.3	Phase	Plumtree	50	710	690				1.30	1.27	STONY	1.29	1.17	1.29	1.23	1.25	1.16	1.27	1.18	1.24	1.16	1.23	1.12	1.22	1.10	1.15	1.14	1.30	1.27	1.25	1.22
Case5_F2.3	Phase	East Devon	50	710	690				1.45	1.34	ED345	1.32	1.22	1.33	1.24	1.43	1.29	1.43	1.34	1.45	1.29	1.19	1.14	1.31	1.23	1.20	1.19	1.32	1.22	1.25	1.23
Case5_F3.1	Phase	East Devon	50	710	690				1.12	1.10	BK345	1.07	1.06	1.07	1.06	1.06	1.06	1.07	1.06	1.06	1.06	1.12	1.10	1.10	1.10	1.09	1.08	1.07	1.06	1.07	1.07
Case5_F4.3	Phase	Norwalk Junction	50	710	690				1.46	1.36	ED345	1.29	1.25	1.36	1.31	1.46	1.30	1.40	1.36	1.46	1.30	1.28	1.22	1.37	1.31	1.27	1.22	1.28	1.30	1.26	1.25
Case5_F5.3	Phase	Singer	50	710	690				1.42	1.35	NW345	1.33	1.26	1.30	1.27	1.42	1.30	1.37	1.34	1.41	1.33	1.29	1.24	1.39	1.35	1.30	1.27	1.32	1.29	1.29	1.25
Case5_F6.3	Phase Bt	Norwalk 345	50	710	690				1.42	1.32	NW345	1.33	1.22	1.35	1.27	1.42	1.29	1.41	1.32	1.42	1.29	1.26	1.22	1.38	1.30	1.28	1.24	1.33	1.24	1.26	1.23
Case5_F7.3	Phase Bt	Plumtree 345	50	710	690				1.33	1.30	NW115	1.28	1.21	1.30	1.30	1.25	1.20	1.33	1.27	1.26	1.20	1.19	1.15	1.28	1.18	1.26	1.24	1.32	1.27	1.31	1.25
Case5_bas	No Fault		50	710	690	PT345-LM34	1.10	1.10	ESHOR	1.07	1.07	1.06	1.06	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.08	1.08	1.10	1.10	1.08	1.08	1.07	1.07	1.07	1.07	1.07
Case5_F2.3	Phase	East Devon	50	710	690	PT345-LM34	1.30	1.16	PT345	1.30	1.07	1.18	1.11	1.30	1.10	1.24	1.07	1.30	1.10	1.23	1.15	1.13	1.16	1.16	1.13	1.22	1.14	1.11	1.11	1.10	1.10
Case5_F3.1	Phase	East Devon	50	710	690	PT345-LM34	1.15	1.10	BK345	1.06	1.04	1.05	1.04	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.15	1.10	1.09	1.09	1.08	1.08	1.05	1.05	1.05	1.05	1.05
Case5_F4.3	Phase	Norwalk Junction	50	710	690	PT345-LM34	1.40	1.32	NW345	1.24	1.22	1.23	1.21	1.40	1.23	1.33	1.25	1.39	1.23	1.24	1.17	1.30	1.28	1.20	1.16	1.35	1.32	1.24	1.24	1.22	1.19
Case5_F5.3	Phase	Singer	50	710	690	PT345-LM34	1.44	1.30	ED345	1.39	1.23	1.38	1.24	1.40	1.25	1.39	1.30	1.44	1.26	1.25	1.20	1.35	1.26	1.22	1.16	1.35	1.22	1.29	1.29	1.19	1.19
Case5_F6.3	Phase Bt	Norwalk 345	50	710	690	PT345-LM34	1.41	1.27	NW345	1.38	1.18	1.40	1.19	1.41	1.20	1.38	1.27	1.39	1.21	1.21	1.13	1.32	1.17	1.18	1.15	1.36	1.18	1.27	1.17	1.17	1.17
Case5_F7.3	Phase Bt	Plumtree 345	50	710	690	PT345-LM34	1.28	1.23	STONY	1.18	1.12	1.24	1.21	1.14	1.11	1.17	1.13	1.14	1.10	1.14	1.10	1.11	1.10	1.14	1.11	1.28	1.23	1.20	1.15	1.15	
Case5_bas	No Fault		50	710	690	BK345-ED34	1.10	1.10	ESHOR	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.09	1.09	1.10	1.10	1.08	1.08	1.06	1.06	1.06	1.06	1.06
Case5_F1.3	Phase	Plumtree	50	710	690	BK345-ED34	1.23	1.14	STONY	1.19	1.06	1.16	1.14	1.18	1.05	1.13	1.05	1.19	1.06	1.21	1.13	1.11	1.12	1.16	1.14	1.23	1.11	1.17	1.17	1.13	
Case5_F4.3	Phase	Norwalk Junction	50	710	690	BK345-ED34	1.47	1.23	ED345	1.21	1.17	1.25	1.18	1.46	1.21	1.36	1.23	1.47	1.21	1.13	1.11	1.18	1.08	1.14	1.11	1.20	1.21	1.17	1.16	1.16	
Case5_F5.3	Phase	Singer	50	710	690	BK345-ED34	1.40	1.30	ED345	1.28	1.21	1.36	1.26	1.37	1.24	1.36	1.30	1.40	1.24	1.22	1.14	1.28	1.23	1.22	1.18	1.30	1.26	1.27	1.23	1.23	
Case5_F6.3	Phase Bt	Norwalk 345	50	710	690	BK345-ED34	1.42	1.28	ED345	1.29	1.18	1.27	1.27	1.41	1.23	1.34	1.26	1.42	1.23	1.15	1.12	1.28	1.17	1.22	1.16	1.32	1.28	1.25	1.24	1.24	
Case5_F7.3	Phase Bt	Plumtree 345	50	710	690	BK345-ED34	1.30	1.28	PT115	1.25	1.20	1.30	1.28	1.27	1.17	1.29	1.21	1.30	1.17	1.15	1.11	1.21	1.12	1.24	1.16	1.30	1.26	1.25	1.21	1.21	
Case5_bas	No Fault		50	710	690	NE138-NO13	1.10	1.10	ESHOR	1.07	1.07	1.07	1.07	1.07	1.07	1.09	1.09	1.08	1.08	1.08	1.08	1.10	1.10	1.08	1.08	1.07	1.07	1.07	1.07	1.07	1.07
Case5_F1.3	Phase	Plumtree	50	710	690	NE138-NO13	1.20	1.19	ROCKY	1.12	1.09	1.18	1.19	1.09	1.07	1.17	1.11	1.09	1.07	1.17	1.12	1.11	1.11	1.12	1.12	1.20	1.17	1.20	1.13	1.13	
Case5_F2.3	Phase	East Devon	50	710	690	NE138-NO13	1.35	1.22	NW115	1.16	1.10	1.16	1.16	1.21	1.10	1.35	1.22	1.22	1.11	1.22	1.15	1.14	1.15	1.14	1.14	1.19	1.17	1.17	1.18	1.18	
Case5_F3.1	Phase	East Devon	50	710	690	NE138-NO13	1.10	1.10	BK345	1.08	1.06	1.07	1.06	1.06	1.09	1.08	1.07	1.06	1.10	1.10	1.10	1.10	1.10	1.08	1.08	1.08	1.06	1.08	1.07	1.07	
Case5_F4.3	Phase	Norwalk Junction	50	710	690	NE138-NO13	1.32	1.27	NW345	1.26	1.20	1.30	1.21	1.32	1.16	1.31	1.27	1.30	1.14	1.15	1.11	1.23	1.18	1.18	1.13	1.24	1.26	1.20	1.20	1.20	
Case5_F5.3	Phase	Singer	50	710	690	NE138-NO13	1.36	1.32	NW115	1.23	1.14	1.23	1.18	1.30	1.20	1.36	1.32	1.32	1.20	1.22	1.13	1.27	1.23	1.22	1.21	1.31	1.23	1.26	1.22	1.22	
Case5_F6.3	Phase Bt	Norwalk 345	50	710	690	NE138-NO13	1.37	1.32	NW115	1.22	1.09	1.22	1.20	1.27	1.15	1.37	1.32	1.26	1.16	1.18	1.14	1.24	1.19	1.19	1.17	1.25	1.20	1.20	1.19	1.19	
Case5_F7.3	Phase Bt	Plumtree 345	50	710	690	NE138-NO13	1.29	1.23	NW115	1.18	1.11	1.25	1.23	1.12	1.08	1.29	1.23	1.15	1.09	1.12	1.10	1.18	1.12	1.21	1.15	1.28	1.22	1.25	1.18	1.18	
Case5_bas	No Fault		50	710	690	LM345-PLVA	1.10	1.10	ESHOR	1.08	1.08	1.08	1.08	1.08	1.07	1.07	1.08	1.08	1.08	1.09	1.09	1.10	1.10	1.09	1.09	1.08	1.08	1.08	1.08	1.08	1.08
Case5_F1.3	Phase	Plumtree	50	710	690	LM345-PLVA	1.37	1.26	STONY	1.27	1.15	1.30	1.22	1.23	1.15	1.26	1.17	1.23	1.15	1.15	1.11	1.21	1.10	1.20	1.12	1.37	1.26	1.26	1.18	1.18	
Case5_F2.3	Phase	East Devon	50	710	690	LM345-PLVA	1.38	1.20	ED345	1.28	1.12	1.25	1.17	1.36	1.17	1.35	1.20	1.38	1.18	1.26	1.16	1.22	1.14	1.18	1.11	1.34	1.17	1.25	1.16	1.16	
Case5_F3.1	Phase	East Devon	50	710	690	LM345-PLVA	1.12	1.10	BK345	1.08	1.07	1.08	1.07	1.07	1.07	1.07	1.06	1.07	1.07	1.12	1.09	1.10	1.10	1.09	1.08	1.07	1.07	1.08	1.07	1.07	
Case5_F4.3	Phase	Norwalk Junction	50	710	690	LM345-PLVA	1.41	1.33	NW345	1.38	1.26	1.38	1.31	1.41	1.25	1.36	1.32	1.40	1.25	1.25	1.17	1.37	1.29	1.37	1.31	1.31	1.33	1.34	1.32	1.32	
Case5_F5.3	Phase	Singer	50	710	690	LM345-PLVA	1.42	1.30	ESHOR	1.38	1.21	1.32	1.22	1.35	1.24	1.39	1.28	1.38	1.25	1.27	1.17	1.42	1.30	1.38	1.20	1.41	1.28	1.31	1.21	1.21	
Case5_F6.3	Phase Bt	Norwalk 345	50	710	690	LM345-PLVA	1.38	1.26	NW115	1.31	1.16	1.36	1.21	1.37	1.21	1.38	1.26	1.36	1.20	1.31	1.16	1.37	1.23	1.32	1.19	1.31	1.25	1.26	1.18	1.18	
Case5_F7.3	Phase Bt	Plumtree 345	50	710	690	LM345-PLVA	1.31	1.22	STONY	1.18	1.13	1.27	1.22	1.17	1.13	1.26	1.16	1.17	1.13	1.14	1.11	1.25	1.10	1.20	1.19	1.31	1.21	1.27	1.19	1.19	

CASE #: Case 5 - 50% load Special Cap Case

DATE: 12/14/2004

Normal 50% + Glenbrook, North Haven, Waterside, Sacket and Southington Ring 1

DONE BY: Jack King/EnerNex

GE 2C and 6C Windows

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C
Case5_bas	No Fault		50	606	690				1.09	1.09	ESHOR	1.06	1.06	1.06	1.06	1.07	1.07	1.07	1.07	1.07	1.07	1.08	1.08	1.09	1.09	1.07	1.07	1.06	1.06	1.06	1.06	
Case5_F1.3	Phase	Plumtree	50	606	690				1.28	1.23	PT115	1.27	1.15	1.28	1.20	1.24	1.15	1.24	1.16	1.24	1.15	1.20	1.12	1.20	1.10	1.12	1.12	1.25	1.23	1.19	1.17	
Case5_F2.3	Phase	East Devon	50	606	690				1.43	1.32	ED345	1.32	1.21	1.29	1.20	1.41	1.28	1.41	1.32	1.43	1.28	1.19	1.13	1.27	1.20	1.20	1.14	1.25	1.21	1.23	1.16	
Case5_F3.1	Phase	East Devon	50	606	690				1.11	1.09	BK345	1.06	1.06	1.06	1.05	1.06	1.05	1.06	1.06	1.06	1.05	1.11	1.09	1.09	1.09	1.08	1.07	1.06	1.05	1.07	1.05	
Case5_F4.3	Phase	Norwalk Junction	50	606	690				1.46	1.34	NW345	1.23	1.21	1.24	1.22	1.46	1.30	1.39	1.34	1.45	1.29	1.29	1.18	1.33	1.32	1.20	1.17	1.22	1.24	1.18	1.19	
Case5_F5.3	Phase	Singer	50	606	690				1.40	1.36	NW345	1.33	1.26	1.30	1.26	1.40	1.31	1.37	1.35	1.39	1.32	1.31	1.21	1.40	1.36	1.17	1.17	1.25	1.27	1.24	1.21	
Case5_F6.3	Phase Bt	Norwalk 345	50	606	690				1.42	1.31	NW345	1.32	1.23	1.37	1.25	1.42	1.29	1.41	1.31	1.41	1.30	1.30	1.21	1.35	1.31	1.18	1.14	1.26	1.21	1.22	1.18	
Case5_F7.3	Phase Bt	Plumtree 345	50	606	690				1.35	1.28	STONY	1.30	1.21	1.28	1.28	1.25	1.20	1.30	1.24	1.26	1.21	1.17	1.13	1.24	1.19	1.19	1.14	1.35	1.25	1.26	1.18	
Case5_bas	No Fault		50	606	690	PT345-LM34	1.09	1.09	ESHOR	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.07	1.07	1.09	1.09	1.06	1.06	1.06	1.06	1.05	1.05	
Case5_F2.3	Phase	East Devon	50	606	690	PT345-LM34	1.28	1.17	ED345	1.25	1.05	1.17	1.09	1.27	1.07	1.23	1.06	1.28	1.07	1.20	1.13	1.15	1.17	1.15	1.13	1.23	1.14	1.12	1.12	1.13	1.13	
Case5_F3.1	Phase	East Devon	50	606	690	PT345-LM34	1.14	1.09	BK345	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.14	1.09	1.08	1.08	1.06	1.06	1.04	1.04	1.04	1.04	1.04	
Case5_F4.3	Phase	Norwalk Junction	50	606	690	PT345-LM34	1.39	1.30	NW345	1.22	1.20	1.21	1.19	1.39	1.23	1.32	1.26	1.37	1.24	1.21	1.15	1.33	1.30	1.14	1.13	1.23	1.22	1.19	1.17	1.17	1.17	
Case5_F5.3	Phase	Singer	50	606	690	PT345-LM34	1.45	1.30	ED345	1.39	1.24	1.35	1.23	1.40	1.25	1.40	1.30	1.45	1.26	1.25	1.18	1.34	1.26	1.17	1.10	1.31	1.20	1.24	1.24	1.17	1.17	
Case5_F6.3	Phase Bt	Norwalk 345	50	606	690	PT345-LM34	1.42	1.28	NW345	1.38	1.19	1.37	1.19	1.42	1.22	1.40	1.28	1.41	1.22	1.20	1.13	1.31	1.19	1.16	1.10	1.33	1.14	1.24	1.24	1.13	1.13	
Case5_F7.3	Phase Bt	Plumtree 345	50	606	690	PT345-LM34	1.23	1.19	STONY	1.19	1.12	1.22	1.19	1.15	1.10	1.17	1.13	1.15	1.10	1.13	1.10	1.11	1.09	1.11	1.08	1.23	1.19	1.15	1.12	1.12	1.12	
Case5_bas	No Fault		50	606	690	BK345-ED34	1.09	1.09	ESHOR	1.05	1.05	1.05	1.05	1.05	1.05	1.06	1.06	1.05	1.05	1.08	1.08	1.09	1.09	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05	
Case5_F1.3	Phase	Plumtree	50	606	690	BK345-ED34	1.20	1.14	BK345	1.14	1.04	1.12	1.11	1.15	1.04	1.12	1.04	1.17	1.05	1.20	1.14	1.08	1.08	1.11	1.11	1.20	1.10	1.12	1.09	1.09	1.09	
Case5_F4.3	Phase	Norwalk Junction	50	606	690	BK345-ED34	1.46	1.22	ED345	1.19	1.14	1.19	1.16	1.45	1.20	1.37	1.22	1.46	1.20	1.10	1.10	1.12	1.08	1.15	1.11	1.16	1.15	1.16	1.11	1.11	1.11	1.11
Case5_F5.3	Phase	Singer	50	606	690	BK345-ED34	1.40	1.31	ED345	1.29	1.22	1.31	1.25	1.36	1.25	1.35	1.31	1.40	1.25	1.19	1.12	1.30	1.24	1.17	1.12	1.28	1.25	1.21	1.20	1.20	1.20	
Case5_F6.3	Phase Bt	Norwalk 345	50	606	690	BK345-ED34	1.43	1.28	ED345	1.28	1.18	1.26	1.24	1.41	1.24	1.37	1.28	1.43	1.24	1.13	1.10	1.25	1.18	1.15	1.11	1.31	1.22	1.21	1.15	1.15	1.15	
Case5_F7.3	Phase Bt	Plumtree 345	50	606	690	BK345-ED34	1.29	1.24	ED345	1.26	1.19	1.28	1.24	1.26	1.18	1.28	1.20	1.29	1.18	1.13	1.11	1.16	1.13	1.12	1.09	1.25	1.20	1.19	1.17	1.17	1.17	
Case5_bas	No Fault		50	606	690	NE138-NO13	1.10	1.10	ESHOR	1.06	1.06	1.06	1.06	1.07	1.07	1.08	1.08	1.07	1.07	1.08	1.08	1.10	1.10	1.07	1.07	1.06	1.06	1.06	1.06	1.06	1.06	
Case5_F1.3	Phase	Plumtree	50	606	690	NE138-NO13	1.18	1.15	BK345	1.10	1.07	1.16	1.12	1.09	1.06	1.16	1.09	1.08	1.06	1.18	1.11	1.09	1.09	1.10	1.10	1.16	1.15	1.13	1.13	1.13	1.13	
Case5_F2.3	Phase	East Devon	50	606	690	NE138-NO13	1.31	1.20	NW115	1.15	1.08	1.14	1.12	1.18	1.10	1.31	1.20	1.18	1.10	1.20	1.15	1.13	1.13	1.14	1.13	1.15	1.15	1.12	1.12	1.12	1.12	
Case5_F3.1	Phase	East Devon	50	606	690	NE138-NO13	1.10	1.09	BK345	1.06	1.05	1.06	1.05	1.06	1.05	1.08	1.07	1.06	1.06	1.10	1.08	1.09	1.09	1.07	1.06	1.07	1.05	1.07	1.05	1.05	1.05	
Case5_F4.3	Phase	Norwalk Junction	50	606	690	NE138-NO13	1.30	1.25	NW115	1.20	1.16	1.19	1.19	1.28	1.13	1.30	1.25	1.27	1.12	1.15	1.09	1.21	1.18	1.15	1.11	1.20	1.15	1.16	1.15	1.15	1.15	
Case5_F5.3	Phase	Singer	50	606	690	NE138-NO13	1.37	1.34	NW115	1.20	1.15	1.17	1.17	1.28	1.18	1.37	1.34	1.29	1.19	1.17	1.12	1.29	1.25	1.11	1.10	1.23	1.19	1.20	1.16	1.16	1.16	
Case5_F6.3	Phase Bt	Norwalk 345	50	606	690	NE138-NO13	1.37	1.32	NW115	1.21	1.11	1.18	1.19	1.27	1.16	1.37	1.32	1.25	1.15	1.20	1.13	1.23	1.19	1.10	1.08	1.22	1.18	1.14	1.13	1.13		
Case5_F7.3	Phase Bt	Plumtree 345	50	606	690	NE138-NO13	1.25	1.19	NW115	1.15	1.11	1.22	1.18	1.13	1.09	1.25	1.19	1.13	1.09	1.15	1.10	1.15	1.11	1.12	1.10	1.19	1.17	1.14	1.14	1.14		
Case5_bas	No Fault		50	606	690	LM345-PLVA	1.09	1.09	ESHOR	1.07	1.07	1.06	1.06	1.07	1.06	1.06	1.06	1.07	1.07	1.08	1.08	1.09	1.09	1.07	1.07	1.06	1.06	1.06	1.06	1.06	1.06	
Case5_F1.3	Phase	Plumtree	50	606	690	LM345-PLVA	1.31	1.19	STONY	1.26	1.15	1.28	1.16	1.22	1.13	1.24	1.13	1.21	1.12	1.14	1.10	1.20	1.08	1.16	1.14	1.31	1.19	1.25	1.14	1.14	1.14	
Case5_F2.3	Phase	East Devon	50	606	690	LM345-PLVA	1.36	1.18	ED345	1.27	1.12	1.19	1.14	1.35	1.16	1.33	1.17	1.36	1.16	1.24	1.14	1.17	1.13	1.16	1.11	1.31	1.18	1.20	1.14	1.14		
Case5_F3.1	Phase	East Devon	50	606	690	LM345-PLVA	1.10	1.09	BK345	1.07	1.06	1.06	1.05	1.06	1.05	1.05	1.06	1.06	1.10	1.08	1.09	1.09	1.07	1.06	1.06	1.05	1.06	1.05	1.05	1.05		
Case5_F4.3	Phase	Norwalk Junction	50	606	690	LM345-PLVA	1.39	1.29	NW345	1.27	1.22	1.27	1.26	1.39	1.23	1.36	1.29	1.38	1.22	1.23	1.14	1.34	1.29	1.16	1.18	1.26	1.24	1.23	1.20	1.20		
Case5_F5.3	Phase	Singer	50	606	690	LM345-PLVA	1.40	1.28	NW115	1.37	1.23	1.27	1.18	1.35	1.25	1.40	1.28	1.39	1.27	1.27	1.15	1.38	1.28	1.21	1.14	1.28	1.19	1.24	1.16	1.16		
Case5_F6.3	Phase Bt	Norwalk 345	50	606	690	LM345-PLVA	1.38	1.26	NW345	1.32	1.17	1.32	1.17	1.38	1.23	1.37	1.26	1.37	1.22	1.33	1.15	1.35	1.20	1.20	1.11	1.25	1.15	1.19	1.13	1.13		
Case5_F7.3	Phase Bt	Plumtree 345	50	606	690	LM345-PLVA	1.25	1.19	STONY	1.19	1.12	1.25	1.17																			

CASE #: Case 5 with Ansonia, Bunker Hill and Hawthorne Banks, 80% Source Strength
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

DATE: 12/12/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C
Case5_basNo Fault			40	0	500				1.03	1.03	ED345	1.02	1.02	1.02	1.02	1.03	1.03	1.02	1.02	1.03	1.03	1.02	1.02	1.02	1.02	1.01	1.01	1.01	1.01	1.01	1.01	
Case5_F1.3 Phase		Plumtree	40	0	500				1.29	1.19	ED345	1.26	1.19	1.26	1.18	1.28	1.19	1.19	1.14	1.29	1.18	1.13	1.05	1.14	1.08	1.13	1.05	1.22	1.16	1.19	1.14	
Case5_F2.3 Phase		East Devon	40	0	500				1.47	1.30	ED345	1.42	1.30	1.40	1.20	1.46	1.30	1.33	1.18	1.47	1.29	1.14	1.07	1.18	1.12	1.17	1.11	1.35	1.20	1.27	1.18	
Case5_F3.1 Phase		East Devon	40	0	500				1.05	1.03	BK345	1.02	1.02	1.01	1.01	1.03	1.03	1.02	1.02	1.03	1.03	1.05	1.02	1.02	1.02	1.01	1.00	1.01	1.01	1.01	1.00	
Case5_F4.3 Phase		Norwalk Junction	40	0	500				1.44	1.39	ED345	1.24	1.19	1.22	1.18	1.44	1.39	1.30	1.27	1.44	1.38	1.23	1.18	1.23	1.21	1.14	1.14	1.21	1.17	1.21	1.17	
Case5_F5.3 Phase		Singer	40	0	500				1.37	1.33	ED345	1.35	1.31	1.36	1.26	1.36	1.33	1.29	1.25	1.37	1.32	1.21	1.18	1.25	1.20	1.16	1.15	1.34	1.21	1.29	1.22	
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500				1.41	1.35	ED345	1.36	1.31	1.29	1.24	1.41	1.35	1.29	1.26	1.41	1.33	1.22	1.17	1.23	1.18	1.16	1.12	1.27	1.23	1.26	1.24	
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500				1.26	1.21	PT115	1.24	1.19	1.26	1.21	1.26	1.20	1.21	1.16	1.25	1.21	1.13	1.11	1.17	1.13	1.11	1.09	1.25	1.20	1.20	1.17	
Case5_basNo Fault			40	0	500	PT345-LM34	1.03	1.03	ED345	1.03	1.03	1.02	1.02	1.03	1.03	1.02	1.02	1.02	1.03	1.03	1.02	1.02	1.02	1.02	1.00	1.00	1.02	1.02	1.01	1.01	1.01	
Case5_F2.3 Phase		East Devon	40	0	500	PT345-LM34	1.30	1.11	NW345	1.29	1.11	1.29	1.05	1.30	1.08	1.18	1.02	1.29	1.08	1.05	1.02	1.03	1.02	1.04	1.01	1.23	1.05	1.13	1.03			
Case5_F3.1 Phase		East Devon	40	0	500	PT345-LM34	1.05	1.04	ED345	1.04	1.03	1.03	1.02	1.05	1.03	1.03	1.02	1.05	1.04	1.04	1.02	1.02	1.02	1.01	1.00	1.03	1.01	1.02	1.01			
Case5_F4.3 Phase		Norwalk Junction	40	0	500	PT345-LM34	1.40	1.35	ED345	1.22	1.20	1.21	1.20	1.40	1.35	1.27	1.24	1.40	1.34	1.24	1.14	1.21	1.16	1.11	1.08	1.19	1.17	1.17	1.15			
Case5_F5.3 Phase		Singer	40	0	500	PT345-LM34	1.46	1.36	NW345	1.42	1.36	1.35	1.31	1.46	1.35	1.32	1.23	1.46	1.33	1.22	1.14	1.24	1.16	1.16	1.11	1.33	1.30	1.30	1.22			
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	PT345-LM34	1.52	1.36	ED345	1.44	1.31	1.42	1.27	1.50	1.35	1.37	1.23	1.52	1.36	1.23	1.14	1.30	1.15	1.17	1.07	1.41	1.27	1.37	1.22			
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	PT345-LM34	1.28	1.19	ED345	1.25	1.17	1.24	1.17	1.25	1.19	1.15	1.14	1.28	1.17	1.10	1.06	1.12	1.07	1.08	1.05	1.21	1.16	1.15	1.13			
Case5_basNo Fault			40	0	500	BK345-ED34	1.03	1.03	ED345	1.02	1.02	1.01	1.01	1.02	1.02	1.02	1.02	1.03	1.03	1.02	1.02	1.02	1.02	1.00	1.00	1.01	1.01	1.00	1.00			
Case5_F1.3 Phase		Plumtree	40	0	500	BK345-ED34	1.20	1.07	ED345	1.17	1.07	1.10	1.05	1.20	1.05	1.11	1.02	1.20	1.06	1.06	1.03	1.03	1.06	1.03	1.06	1.03	1.09	1.05	1.09	1.05		
Case5_F4.3 Phase		Norwalk Junction	40	0	500	BK345-ED34	1.57	1.33	NW345	1.12	1.09	1.14	1.11	1.57	1.31	1.29	1.15	1.56	1.33	1.05	1.05	1.18	1.07	1.05	1.01	1.12	1.10	1.12	1.07			
Case5_F5.3 Phase		Singer	40	0	500	BK345-ED34	1.43	1.32	ED345	1.38	1.32	1.26	1.25	1.40	1.32	1.26	1.23	1.43	1.32	1.10	1.07	1.16	1.12	1.12	1.10	1.24	1.23	1.21	1.20			
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	BK345-ED34	1.50	1.33	ED345	1.39	1.31	1.37	1.24	1.49	1.32	1.37	1.22	1.50	1.33	1.11	1.06	1.19	1.11	1.17	1.09	1.36	1.24	1.33	1.19			
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	BK345-ED34	1.34	1.24	ED345	1.25	1.17	1.25	1.17	1.31	1.23	1.19	1.17	1.34	1.24	1.06	1.05	1.10	1.08	1.10	1.06	1.24	1.16	1.20	1.17			
Case5_basNo Fault			40	0	500	NE138-NO13	1.02	1.02	ED345	1.01	1.01	1.01	1.01	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.00	1.00	1.01	1.01	1.00	1.00			
Case5_F1.3 Phase		Plumtree	40	0	500	NE138-NO13	1.16	1.15	PT115	1.15	1.05	1.16	1.15	1.15	1.06	1.14	1.05	1.14	1.07	1.06	1.02	1.03	1.02	1.05	1.02	1.15	1.14	1.13	1.12			
Case5_F2.3 Phase		East Devon	40	0	500	NE138-NO13	1.27	1.12	ED345	1.21	1.11	1.22	1.11	1.23	1.12	1.22	1.11	1.27	1.12	1.06	1.02	1.07	1.03	1.06	1.03	1.20	1.12	1.21	1.09			
Case5_F3.1 Phase		East Devon	40	0	500	NE138-NO13	1.03	1.01	BK345	1.01	1.01	1.01	1.00	1.02	1.01	1.01	1.01	1.02	1.01	1.03	1.01	1.01	1.01	1.00	0.99	1.01	1.00	1.00	1.00			
Case5_F4.3 Phase		Norwalk Junction	40	0	500	NE138-NO13	1.29	1.22	ED345	1.16	1.08	1.12	1.09	1.29	1.22	1.24	1.18	1.29	1.22	1.17	1.09	1.14	1.08	1.08	1.06	1.14	1.08	1.14	1.09			
Case5_F5.3 Phase		Singer	40	0	500	NE138-NO13	1.29	1.25	ED345	1.26	1.25	1.19	1.20	1.28	1.23	1.26	1.22	1.29	1.23	1.14	1.12	1.16	1.11	1.11	1.09	1.21	1.19	1.20	1.21			
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	NE138-NO13	1.33	1.23	PT115	1.28	1.23	1.33	1.17	1.30	1.22	1.27	1.22	1.33	1.21	1.16	1.11	1.18	1.09	1.11	1.07	1.30	1.17	1.28	1.14			
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	NE138-NO13	1.24	1.19	PT115	1.21	1.13	1.24	1.18	1.19	1.15	1.17	1.13	1.21	1.17	1.09	1.07	1.09	1.08	1.08	1.08	1.22	1.17	1.22	1.19			
Case5_basNo Fault			40	0	500	LM345-PLVA	1.04	1.04	ED345	1.03	1.03	1.02	1.02	1.03	1.03	1.03	1.04	1.04	1.03	1.03	1.03	1.03	1.01	1.01	1.02	1.02	1.01	1.01				
Case5_F1.3 Phase		Plumtree	40	0	500	LM345-PLVA	1.30	1.18	ED345	1.26	1.16	1.22	1.17	1.29	1.18	1.16	1.13	1.30	1.18	1.14	1.07	1.18	1.09	1.13	1.06	1.21	1.17	1.19	1.14			
Case5_F2.3 Phase		East Devon	40	0	500	LM345-PLVA	1.41	1.19	ED345	1.34	1.19	1.39	1.14	1.38	1.18	1.28	1.12	1.41	1.19	1.12	1.04	1.20	1.05	1.15	1.03	1.34	1.14	1.28	1.11			
Case5_F3.1 Phase		East Devon	40	0	500	LM345-PLVA	1.04	1.03	ED345	1.03	1.03	1.03	1.02	1.03	1.03	1.02	1.02	1.04	1.03	1.03	1.02	1.02	1.02	1.01	1.01	1.02	1.02	1.02				
Case5_F4.3 Phase		Norwalk Junction	40	0	500	LM345-PLVA	1.44	1.36	NW345	1.26	1.21	1.23	1.19	1.44	1.36	1.30	1.24	1.44	1.36	1.24	1.16	1.24	1.18	1.16	1.11	1.32	1.20	1.19	1.20			
Case5_F5.3 Phase		Singer	40	0	500	LM345-PLVA	1.45	1.33	ED345	1.39	1.32	1.35	1.30	1.44	1.33	1.32	1.21	1.45	1.32	1.27	1.16	1.28	1.17	1.21	1.15	1.32	1.29	1.30	1.24			
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	LM345-PLVA	1.50	1.33	NW345	1.44	1.29	1.33	1.26	1.50	1.31	1.42	1.19	1.49	1.33	1.28	1.14	1.32	1.16	1.21	1.13	1.32	1.26	1.28	1.23			
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	LM345-PLVA	1.28	1.18	ED345	1.23	1.16	1.20	1.16	1.27	1.18	1.18	1.14	1.28	1.17	1.14	1.07	1.15	1.11	1.11	1.06	1.19	1.16	1.16	1.13			

CASE #: Case 5 with Ansonia, Bunker Hill and Hawthorne Banks, 80% Source Strength
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

DATE: 12/12/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		50	434	690				1.07	1.07	ESHOR	1.06	1.06	1.06	1.06	1.06	1.06	1.05	1.05	1.06	1.06	1.07	1.07	1.07	1.07	1.07	1.07	1.06	1.06	1.06	1.06
Case5_F1.3	Phase Plumtree		50	434	690				1.29	1.25	ROCKY	1.27	1.14	1.29	1.20	1.21	1.13	1.17	1.13	1.21	1.13	1.18	1.11	1.17	1.10	1.20	1.17	1.29	1.25	1.29	1.19
Case5_F2.3	Phase East Devon		50	434	690				1.42	1.28	ED345	1.33	1.20	1.28	1.24	1.42	1.27	1.35	1.24	1.42	1.28	1.16	1.14	1.24	1.15	1.21	1.20	1.27	1.20	1.22	1.16
Case5_F3.1	Phase East Devon		50	434	690				1.09	1.08	BK345	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.09	1.08	1.07	1.07	1.07	1.06	1.06	1.05	1.06	1.05
Case5_F4.3	Phase Norwalk Junction		50	434	690				1.43	1.34	ED345	1.22	1.18	1.22	1.21	1.42	1.34	1.32	1.33	1.43	1.34	1.28	1.20	1.31	1.22	1.29	1.30	1.33	1.34	1.23	1.20
Case5_F5.3	Phase Singer		50	434	690				1.44	1.33	ED345	1.38	1.30	1.30	1.27	1.39	1.31	1.34	1.32	1.44	1.33	1.35	1.25	1.33	1.26	1.32	1.29	1.31	1.26	1.27	1.25
Case5_F6.3	Phase Bt Norwalk 345		50	434	690				1.43	1.32	ED345	1.34	1.26	1.37	1.24	1.41	1.32	1.33	1.28	1.43	1.32	1.33	1.20	1.34	1.21	1.34	1.27	1.29	1.22	1.26	1.19
Case5_F7.3	Phase Bt Plumtree 345		50	434	690				1.36	1.30	STONY	1.27	1.21	1.31	1.30	1.24	1.19	1.24	1.19	1.26	1.19	1.17	1.12	1.19	1.16	1.27	1.24	1.36	1.28	1.27	1.23
Case5_bas	No Fault		50	434	690	PT345-LM34	1.07	1.07	ESHOR	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.06	1.06	1.07	1.07	1.06	1.06	1.05	1.05	1.05	1.05	1.05
Case5_F2.3	Phase East Devon		50	434	690	PT345-LM34	1.25	1.15	NW345	1.24	1.03	1.15	1.08	1.25	1.07	1.08	1.05	1.24	1.06	1.17	1.15	1.09	1.09	1.08	1.08	1.25	1.09	1.13	1.08		
Case5_F3.1	Phase East Devon		50	434	690	PT345-LM34	1.10	1.09	BK345	1.04	1.03	1.03	1.02	1.03	1.03	1.03	1.02	1.03	1.03	1.10	1.09	1.06	1.06	1.07	1.06	1.04	1.03	1.04	1.03		
Case5_F4.3	Phase Norwalk Junction		50	434	690	PT345-LM34	1.40	1.30	ED345	1.26	1.23	1.23	1.21	1.39	1.29	1.28	1.29	1.40	1.30	1.24	1.14	1.22	1.16	1.16	1.11	1.25	1.23	1.19	1.16		
Case5_F5.3	Phase Singer		50	434	690	PT345-LM34	1.44	1.29	PT345	1.44	1.28	1.38	1.22	1.43	1.28	1.35	1.27	1.43	1.29	1.24	1.16	1.26	1.17	1.17	1.16	1.32	1.24	1.25	1.19		
Case5_F6.3	Phase Bt Norwalk 345		50	434	690	PT345-LM34	1.46	1.26	ED345	1.40	1.24	1.44	1.21	1.44	1.26	1.36	1.20	1.46	1.25	1.22	1.11	1.25	1.10	1.15	1.13	1.41	1.17	1.28	1.13		
Case5_F7.3	Phase Bt Plumtree 345		50	434	690	PT345-LM34	1.26	1.18	STONY	1.24	1.12	1.23	1.18	1.19	1.11	1.13	1.11	1.19	1.11	1.12	1.08	1.08	1.07	1.11	1.08	1.26	1.18	1.18	1.12		
Case5_bas	No Fault		50	434	690	BK345-ED34	1.07	1.07	BK345	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.05	1.05	1.07	1.07	1.07	1.07	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05
Case5_F1.3	Phase Plumtree		50	434	690	BK345-ED34	1.19	1.12	STONY	1.15	1.03	1.14	1.10	1.15	1.03	1.03	1.02	1.16	1.03	1.19	1.12	1.07	1.07	1.12	1.09	1.19	1.09	1.11	1.09		
Case5_F4.3	Phase Norwalk Junction		50	434	690	BK345-ED34	1.51	1.26	ED345	1.15	1.14	1.13	1.11	1.51	1.26	1.31	1.17	1.51	1.25	1.11	1.10	1.11	1.07	1.17	1.16	1.24	1.22	1.12	1.12		
Case5_F5.3	Phase Singer		50	434	690	BK345-ED34	1.45	1.32	ED345	1.34	1.23	1.28	1.25	1.43	1.31	1.30	1.28	1.45	1.32	1.18	1.13	1.22	1.17	1.21	1.16	1.34	1.25	1.24	1.23		
Case5_F6.3	Phase Bt Norwalk 345		50	434	690	BK345-ED34	1.49	1.29	ED345	1.34	1.18	1.29	1.21	1.47	1.28	1.36	1.24	1.49	1.29	1.14	1.09	1.19	1.11	1.20	1.15	1.33	1.23	1.22	1.17		
Case5_F7.3	Phase Bt Plumtree 345		50	434	690	BK345-ED34	1.30	1.25	STONY	1.27	1.17	1.29	1.25	1.28	1.19	1.22	1.16	1.30	1.19	1.13	1.10	1.11	1.08	1.22	1.20	1.30	1.22	1.23	1.20		
Case5_bas	No Fault		50	434	690	NE138-NO13	1.07	1.07	ESHOR	1.05	1.05	1.05	1.05	1.05	1.05	1.06	1.06	1.05	1.05	1.06	1.06	1.07	1.07	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05
Case5_F1.3	Phase Plumtree		50	434	690	NE138-NO13	1.20	1.13	ROCKY	1.10	1.04	1.17	1.11	1.09	1.03	1.11	1.05	1.09	1.03	1.16	1.10	1.08	1.07	1.17	1.11	1.18	1.13	1.20	1.09		
Case5_F2.3	Phase East Devon		50	434	690	NE138-NO13	1.22	1.15	ED345	1.17	1.05	1.16	1.15	1.21	1.10	1.17	1.11	1.22	1.11	1.15	1.12	1.12	1.08	1.15	1.14	1.15	1.11	1.11	1.11		
Case5_F3.1	Phase East Devon		50	434	690	NE138-NO13	1.09	1.08	BK345	1.05	1.04	1.04	1.04	1.04	1.04	1.05	1.05	1.05	1.04	1.09	1.08	1.06	1.06	1.06	1.06	1.05	1.04	1.05	1.04		
Case5_F4.3	Phase Norwalk Junction		50	434	690	NE138-NO13	1.28	1.24	STONY	1.19	1.14	1.16	1.17	1.28	1.19	1.26	1.24	1.28	1.18	1.19	1.09	1.18	1.08	1.26	1.24	1.28	1.23	1.17	1.15		
Case5_F5.3	Phase Singer		50	434	690	NE138-NO13	1.37	1.29	ED345	1.26	1.19	1.22	1.20	1.34	1.25	1.32	1.29	1.37	1.24	1.21	1.17	1.25	1.15	1.23	1.20	1.26	1.20	1.21	1.18		
Case5_F6.3	Phase Bt Norwalk 345		50	434	690	NE138-NO13	1.32	1.26	NW115	1.24	1.14	1.22	1.16	1.30	1.20	1.32	1.26	1.29	1.21	1.20	1.11	1.23	1.10	1.22	1.17	1.21	1.19	1.16	1.15		
Case5_F7.3	Phase Bt Plumtree 345		50	434	690	NE138-NO13	1.30	1.24	STONY	1.20	1.12	1.27	1.24	1.17	1.12	1.16	1.14	1.19	1.11	1.10	1.08	1.14	1.08	1.20	1.20	1.30	1.20	1.24	1.19		
Case5_bas	No Fault		50	434	690	LM345-PLVA	1.07	1.07	ESHOR	1.06	1.06	1.05	1.05	1.06	1.06	1.05	1.05	1.06	1.06	1.06	1.06	1.07	1.07	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05
Case5_F1.3	Phase Plumtree		50	434	690	LM345-PLVA	1.31	1.24	STONY	1.24	1.11	1.26	1.18	1.21	1.11	1.15	1.09	1.20	1.11	1.13	1.11	1.14	1.08	1.25	1.24	1.31	1.19	1.22	1.17		
Case5_F2.3	Phase East Devon		50	434	690	LM345-PLVA	1.32	1.14	ED345	1.24	1.10	1.20	1.14	1.30	1.11	1.15	1.10	1.32	1.12	1.16	1.12	1.20	1.09	1.17	1.12	1.26	1.14	1.24	1.09		
Case5_F3.1	Phase East Devon		50	434	690	LM345-PLVA	1.10	1.07	BK345	1.05	1.05	1.05	1.04	1.05	1.04	1.04	1.04	1.05	1.05	1.10	1.07	1.06	1.06	1.06	1.05	1.05	1.04	1.05	1.04		
Case5_F4.3	Phase Norwalk Junction		50	434	690	LM345-PLVA	1.43	1.28	FB115	1.26	1.18	1.28	1.19	1.38	1.28	1.30	1.26	1.38	1.28	1.27	1.16	1.33	1.18	1.43	1.26	1.37	1.24	1.32	1.24		
Case5_F5.3	Phase Singer		50	434	690	LM345-PLVA	1.41	1.30	PT345	1.41	1.24	1.30	1.19	1.39	1.27	1.28	1.24	1.40	1.27	1.26	1.16	1.34	1.19	1.35	1.30	1.25	1.18	1.27	1.22		
Case5_F6.3	Phase Bt Norwalk 345		50	434	690	LM345-PLVA	1.40	1.26	ED345	1.34	1.19	1.33	1.18	1.39	1.22	1.31	1.17	1.40	1.22	1.24	1.12	1.31	1.12	1.37	1.26	1.26	1.15	1.30	1.17		
Case5_F7.3	Phase Bt Plumtree 345		50	434	690	LM345-PLVA	1.30	1.23	STONY	1.24	1.12	1.24	1.18	1.22	1.13	1.17	1.11	1.24	1.12	1.12	1.10	1.15	1.10	1.26	1.23	1.30	1.20	1.23	1.19		

CASE #: Case 5 with Ansonia, Bunker Hill and Hawthorne Banks, 80% Source Strength
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

DATE: 12/12/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																										
										LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY	
																	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		70	1382	900				1.13	1.13	FB115	1.06	1.06	1.08	1.08	1.06	1.06	1.07	1.07	1.06	1.06	1.09	1.09	1.11	1.11	1.13	1.13	1.09	1.09	1.11	1.11					
Case5_F1.3	Phase Plumtree		70	1382	900				1.47	1.42	ROCKY	1.18	1.12	1.26	1.24	1.10	1.06	1.17	1.07	1.11	1.08	1.19	1.11	1.09	1.09	1.18	1.18	1.19	1.20	1.47	1.42					
Case5_F2.3	Phase East Devon		70	1382	900				1.49	1.36	ROCKY	1.16	1.10	1.20	1.12	1.22	1.12	1.22	1.13	1.23	1.12	1.22	1.17	1.20	1.12	1.24	1.16	1.20	1.13	1.49	1.36					
Case5_F3.1	Phase East Devon		70	1382	900				1.14	1.12	BK345	1.06	1.05	1.07	1.07	1.05	1.04	1.06	1.06	1.05	1.05	1.14	1.10	1.11	1.11	1.12	1.12	1.08	1.08	1.10	1.10					
Case5_F4.3	Phase Norwalk Junction		70	1382	900				1.59	1.51	ROCKY	1.21	1.17	1.27	1.19	1.21	1.13	1.24	1.18	1.21	1.13	1.20	1.12	1.24	1.16	1.28	1.20	1.25	1.19	1.59	1.51					
Case5_F5.3	Phase Singer		70	1382	900				1.54	1.38	ROCKY	1.19	1.11	1.24	1.19	1.21	1.13	1.25	1.18	1.29	1.14	1.18	1.13	1.27	1.14	1.36	1.27	1.26	1.22	1.54	1.38					
Case5_F6.3	Phase Bt Norwalk 345		70	1382	900				1.45	1.37	ROCKY	1.23	1.12	1.23	1.22	1.20	1.12	1.19	1.15	1.21	1.13	1.21	1.12	1.24	1.10	1.31	1.23	1.25	1.23	1.45	1.37					
Case5_F7.3	Phase Bt Plumtree 345		70	1382	900				1.58	1.55	ROCKY	1.17	1.14	1.24	1.21	1.15	1.11	1.18	1.12	1.16	1.12	1.19	1.12	1.11	1.09	1.17	1.17	1.21	1.17	1.58	1.55					
Case5_bas	No Fault		70	1382	900	PT345-LM34	1.12	1.12	FB115	1.05	1.05	1.07	1.07	1.05	1.05	1.06	1.06	1.05	1.05	1.08	1.08	1.10	1.10	1.12	1.12	1.07	1.07	1.09	1.09	1.10	1.10					
Case5_F2.3	Phase East Devon		70	1382	900	PT345-LM34	1.27	1.17	ROCKY	1.08	1.03	1.08	1.03	1.08	1.02	1.09	1.03	1.09	1.03	1.09	1.03	1.19	1.17	1.12	1.11	1.14	1.15	1.11	1.07	1.27	1.14					
Case5_F3.1	Phase East Devon		70	1382	900	PT345-LM34	1.13	1.11	BK345	1.02	1.02	1.03	1.03	1.02	1.01	1.02	1.02	1.02	1.01	1.13	1.09	1.09	1.08	1.11	1.11	1.04	1.04	1.07	1.07							
Case5_F4.3	Phase Norwalk Junction		70	1382	900	PT345-LM34	1.76	1.48	ROCKY	1.32	1.17	1.18	1.15	1.13	1.13	1.13	1.14	1.13	1.12	1.18	1.11	1.11	1.08	1.23	1.18	1.16	1.16	1.16	1.76	1.48						
Case5_F5.3	Phase Singer		70	1382	900	PT345-LM34	1.48	1.31	ROCKY	1.25	1.15	1.26	1.16	1.15	1.13	1.18	1.11	1.24	1.12	1.18	1.13	1.16	1.08	1.25	1.17	1.24	1.18	1.48	1.31							
Case5_F6.3	Phase Bt Norwalk 345		70	1382	900	PT345-LM34	1.44	1.37	ROCKY	1.24	1.16	1.25	1.22	1.14	1.12	1.14	1.10	1.17	1.12	1.15	1.10	1.12	1.08	1.24	1.14	1.26	1.23	1.44	1.37							
Case5_F7.3	Phase Bt Plumtree 345		70	1382	900	PT345-LM34	1.50	1.38	ROCKY	1.19	1.15	1.20	1.18	1.14	1.07	1.11	1.10	1.17	1.08	1.11	1.09	1.10	1.09	1.14	1.13	1.19	1.21	1.50	1.38							
Case5_bas	No Fault		70	1382	900	BK345-ED34	1.12	1.12	FB115	1.05	1.05	1.07	1.07	1.04	1.04	1.05	1.05	1.04	1.04	1.09	1.09	1.11	1.11	1.12	1.12	1.07	1.07	1.10	1.10							
Case5_F1.3	Phase Plumtree		70	1382	900	BK345-ED34	1.41	1.43	ROCKY	1.11	1.04	1.22	1.12	1.05	1.03	1.05	1.03	1.05	1.04	1.19	1.14	1.10	1.10	1.18	1.18	1.20	1.14	1.41	1.43							
Case5_F4.3	Phase Norwalk Junction		70	1382	900	BK345-ED34	1.43	1.41	ROCKY	1.16	1.13	1.23	1.13	1.21	1.07	1.20	1.09	1.21	1.08	1.15	1.13	1.10	1.10	1.19	1.20	1.19	1.17	1.43	1.41							
Case5_F5.3	Phase Singer		70	1382	900	BK345-ED34	1.40	1.27	ROCKY	1.20	1.14	1.23	1.18	1.16	1.15	1.17	1.13	1.19	1.15	1.16	1.12	1.16	1.09	1.24	1.19	1.23	1.18	1.40	1.27							
Case5_F6.3	Phase Bt Norwalk 345		70	1382	900	BK345-ED34	1.44	1.25	ROCKY	1.22	1.14	1.27	1.19	1.16	1.13	1.21	1.14	1.18	1.15	1.16	1.13	1.14	1.10	1.24	1.16	1.28	1.20	1.44	1.25							
Case5_F7.3	Phase Bt Plumtree 345		70	1382	900	BK345-ED34	1.52	1.47	ROCKY	1.19	1.12	1.24	1.24	1.15	1.08	1.15	1.09	1.16	1.09	1.17	1.12	1.10	1.09	1.17	1.16	1.18	1.20	1.52	1.47							
Case5_bas	No Fault		70	1382	900	NE138-NO13	1.12	1.12	FB115	1.05	1.05	1.07	1.07	1.05	1.05	1.08	1.08	1.05	1.05	1.07	1.07	1.10	1.10	1.12	1.12	1.08	1.08	1.10	1.10							
Case5_F1.3	Phase Plumtree		70	1382	900	NE138-NO13	1.36	1.41	ROCKY	1.16	1.05	1.17	1.12	1.06	1.04	1.11	1.07	1.06	1.05	1.15	1.10	1.08	1.08	1.13	1.12	1.15	1.12	1.36	1.41							
Case5_F2.3	Phase East Devon		70	1382	900	NE138-NO13	1.35	1.16	ROCKY	1.07	1.05	1.10	1.07	1.05	1.04	1.15	1.09	1.05	1.05	1.22	1.15	1.14	1.13	1.11	1.10	1.11	1.11	1.35	1.16							
Case5_F3.1	Phase East Devon		70	1382	900	NE138-NO13	1.12	1.11	BK345	1.04	1.03	1.06	1.05	1.03	1.03	1.06	1.06	1.04	1.03	1.12	1.09	1.09	1.09	1.11	1.11	1.07	1.06	1.08	1.08							
Case5_F4.3	Phase Norwalk Junction		70	1382	900	NE138-NO13	1.55	1.46	ROCKY	1.24	1.14	1.22	1.15	1.09	1.10	1.16	1.14	1.09	1.10	1.18	1.10	1.11	1.10	1.15	1.12	1.23	1.17	1.55	1.46							
Case5_F5.3	Phase Singer		70	1382	900	NE138-NO13	1.36	1.26	ROCKY	1.16	1.08	1.14	1.10	1.12	1.07	1.19	1.12	1.16	1.08	1.15	1.10	1.14	1.08	1.23	1.17	1.18	1.11	1.36	1.26							
Case5_F6.3	Phase Bt Norwalk 345		70	1382	900	NE138-NO13	1.35	1.22	ROCKY	1.18	1.08	1.19	1.13	1.09	1.07	1.18	1.15	1.12	1.08	1.17	1.11	1.11	1.08	1.19	1.13	1.21	1.15	1.35	1.22							
Case5_F7.3	Phase Bt Plumtree 345		70	1382	900	NE138-NO13	1.52	1.45	ROCKY	1.14	1.09	1.18	1.18	1.07	1.06	1.15	1.11	1.10	1.07	1.18	1.10	1.10	1.09	1.14	1.14	1.18	1.19	1.52	1.45							
Case5_bas	No Fault		70	1382	900	LM345-PLVA	1.12	1.12	FB115	1.07	1.07	1.08	1.08	1.06	1.06	1.06	1.06	1.06	1.06	1.08	1.08	1.10	1.10	1.12	1.12	1.09	1.09	1.10	1.10							
Case5_F1.3	Phase Plumtree		70	1382	900	LM345-PLVA	1.39	1.45	ROCKY	1.16	1.09	1.24	1.20	1.08	1.07	1.11	1.08	1.08	1.07	1.12	1.10	1.10	1.09	1.18	1.17	1.26	1.18	1.39	1.45							
Case5_F2.3	Phase East Devon		70	1382	900	LM345-PLVA	1.33	1.23	ROCKY	1.13	1.07	1.12	1.09	1.11	1.06	1.13	1.07	1.12	1.06	1.24	1.16	1.12	1.11	1.18	1.14	1.16	1.10	1.33	1.23							
Case5_F3.1	Phase East Devon		70	1382	900	LM345-PLVA	1.11	1.11	BK345	1.06	1.05	1.07	1.06	1.05	1.04	1.04	1.04	1.05	1.04	1.11	1.09	1.09	1.09	1.11	1.11	1.07	1.07	1.09	1.09							
Case5_F4.3	Phase Norwalk Junction		70	1382	900	LM345-PLVA	1.52	1.50	ROCKY	1.24	1.19	1.23	1.24	1.10	1.09	1.14	1.11	1.10	1.10	1.18	1.11	1.19	1.10	1.23	1.17	1.26	1.22	1.52	1.50							
Case5_F5.3	Phase Singer		70	1382	900	LM345-PLVA	1.42	1.27	ROCKY	1.17	1.10	1.18	1.12	1.14	1.10	1.17	1.10	1.22	1.12	1.15	1.10	1.19	1.08	1.26	1.17	1.17	1.15	1.42	1.27							
Case5_F6.3	Phase Bt Norwalk 345		70	1382	900	LM345-PLVA	1.39	1.28	ROCKY	1.16	1.10	1.22	1.16	1.10	1.09	1.15	1.12	1.13	1.09	1.21	1.12	1.15	1.09	1.20	1.14	1.28	1.18	1.39	1.28							
Case5_F7.3	Phase Bt Plumtree 345		70	1382	900	LM345-PLVA	1.43	1.40	ROCKY	1.13	1.12	1.21	1.20	1.09	1.08	1.11	1.09	1.11	1.08	1.17	1.12	1.10	1.09	1.15	1.14	1.20	1.18	1.43	1.40							

CASE #: Case 5 with 80% source strength
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

DATE: 12/12/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		40	0	500				1.03	1.03	ED345	1.02	1.02	1.02	1.02	1.03	1.03	1.02	1.02	1.03	1.03	1.02	1.02	1.02	1.02	1.01	1.01	1.01	1.01	1.01	1.01
Case5_F1_3	Phase	Plumtree	40	0	500				1.29	1.19	ED345	1.26	1.19	1.26	1.18	1.28	1.19	1.19	1.14	1.29	1.18	1.13	1.05	1.14	1.08	1.13	1.05	1.22	1.16	1.19	1.14
Case5_F2_3	Phase	East Devon	40	0	500				1.47	1.30	ED345	1.42	1.30	1.40	1.20	1.46	1.30	1.33	1.18	1.47	1.29	1.14	1.07	1.18	1.12	1.17	1.11	1.35	1.20	1.27	1.18
Case5_F3_1	Phase	East Devon	40	0	500				1.05	1.03	BK345	1.02	1.02	1.01	1.01	1.03	1.03	1.02	1.02	1.03	1.03	1.05	1.02	1.02	1.02	1.01	1.00	1.01	1.01	1.01	1.00
Case5_F4_3	Phase	Norwalk Junction	40	0	500				1.44	1.39	ED345	1.24	1.19	1.22	1.18	1.44	1.39	1.30	1.27	1.44	1.38	1.23	1.18	1.23	1.21	1.14	1.14	1.21	1.17	1.21	1.17
Case5_F5_3	Phase	Singer	40	0	500				1.37	1.33	ED345	1.35	1.31	1.36	1.26	1.36	1.33	1.29	1.25	1.37	1.32	1.21	1.18	1.25	1.20	1.16	1.15	1.34	1.21	1.29	1.22
Case5_F6_3	Phase Bt	Norwalk 345	40	0	500				1.41	1.35	ED345	1.36	1.31	1.29	1.24	1.41	1.35	1.29	1.26	1.41	1.33	1.22	1.17	1.23	1.18	1.16	1.12	1.27	1.23	1.26	1.24
Case5_F7_3	Phase Bt	Plumtree 345	40	0	500				1.26	1.21	PT115	1.24	1.19	1.26	1.21	1.26	1.20	1.21	1.16	1.25	1.21	1.13	1.11	1.17	1.13	1.11	1.09	1.25	1.20	1.20	1.17
Case5_bas	No Fault		40	0	500	PT345-LM34	1.03	1.03	ED345	1.03	1.03	1.02	1.02	1.03	1.03	1.02	1.02	1.03	1.03	1.02	1.02	1.02	1.00	1.00	1.00	1.02	1.02	1.02	1.01	1.01	1.01
Case5_F2_3	Phase	East Devon	40	0	500	PT345-LM34	1.30	1.11	NW345	1.29	1.11	1.29	1.05	1.30	1.08	1.18	1.02	1.29	1.08	1.05	1.02	1.03	1.02	1.04	1.01	1.23	1.05	1.13	1.03	1.03	1.03
Case5_F3_1	Phase	East Devon	40	0	500	PT345-LM34	1.05	1.04	ED345	1.04	1.03	1.03	1.02	1.05	1.03	1.03	1.02	1.05	1.04	1.04	1.02	1.02	1.02	1.01	1.00	1.03	1.01	1.02	1.01	1.02	1.01
Case5_F4_3	Phase	Norwalk Junction	40	0	500	PT345-LM34	1.40	1.35	ED345	1.22	1.20	1.21	1.20	1.40	1.35	1.27	1.24	1.40	1.34	1.24	1.14	1.21	1.16	1.11	1.08	1.19	1.17	1.17	1.17	1.15	
Case5_F5_3	Phase	Singer	40	0	500	PT345-LM34	1.46	1.36	NW345	1.42	1.36	1.35	1.31	1.46	1.35	1.32	1.23	1.46	1.33	1.22	1.14	1.24	1.16	1.16	1.11	1.33	1.30	1.30	1.22		
Case5_F6_3	Phase Bt	Norwalk 345	40	0	500	PT345-LM34	1.52	1.36	ED345	1.44	1.31	1.42	1.27	1.50	1.35	1.37	1.23	1.52	1.36	1.23	1.14	1.30	1.15	1.17	1.07	1.41	1.27	1.37	1.22		
Case5_F7_3	Phase Bt	Plumtree 345	40	0	500	PT345-LM34	1.28	1.19	ED345	1.25	1.17	1.24	1.17	1.25	1.19	1.15	1.14	1.28	1.17	1.10	1.06	1.12	1.07	1.08	1.05	1.21	1.16	1.15	1.13		
Case5_bas	No Fault		40	0	500	BK345-ED34	1.03	1.03	ED345	1.02	1.02	1.01	1.01	1.02	1.02	1.02	1.02	1.03	1.03	1.02	1.02	1.02	1.00	1.00	1.01	1.01	1.01	1.01	1.00	1.00	
Case5_F1_3	Phase	Plumtree	40	0	500	BK345-ED34	1.20	1.07	ED345	1.17	1.07	1.10	1.05	1.20	1.05	1.11	1.02	1.20	1.06	1.06	1.03	1.03	1.03	1.06	1.03	1.09	1.05	1.09	1.05		
Case5_F4_3	Phase	Norwalk Junction	40	0	500	BK345-ED34	1.57	1.33	NW345	1.12	1.09	1.14	1.11	1.57	1.31	1.29	1.15	1.56	1.33	1.05	1.05	1.18	1.07	1.05	1.01	1.12	1.10	1.12	1.07		
Case5_F5_3	Phase	Singer	40	0	500	BK345-ED34	1.43	1.32	ED345	1.38	1.32	1.26	1.25	1.40	1.32	1.26	1.23	1.43	1.32	1.10	1.07	1.16	1.12	1.12	1.10	1.24	1.23	1.21	1.20		
Case5_F6_3	Phase Bt	Norwalk 345	40	0	500	BK345-ED34	1.50	1.33	ED345	1.39	1.31	1.37	1.24	1.49	1.32	1.37	1.22	1.50	1.33	1.11	1.06	1.19	1.11	1.17	1.09	1.36	1.24	1.33	1.19		
Case5_F7_3	Phase Bt	Plumtree 345	40	0	500	BK345-ED34	1.34	1.24	ED345	1.25	1.17	1.25	1.17	1.31	1.23	1.19	1.17	1.34	1.24	1.06	1.05	1.10	1.08	1.10	1.06	1.24	1.16	1.20	1.17		
Case5_bas	No Fault		40	0	500	NE138-NO13	1.02	1.02	ED345	1.01	1.01	1.01	1.01	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.00	1.00	1.01	1.01	1.01	1.00	1.00		
Case5_F1_3	Phase	Plumtree	40	0	500	NE138-NO13	1.16	1.15	PT115	1.15	1.05	1.16	1.15	1.15	1.06	1.14	1.05	1.14	1.07	1.06	1.02	1.03	1.02	1.05	1.02	1.15	1.14	1.13	1.12		
Case5_F2_3	Phase	East Devon	40	0	500	NE138-NO13	1.27	1.12	ED345	1.21	1.11	1.22	1.11	1.23	1.12	1.22	1.11	1.27	1.12	1.06	1.02	1.07	1.03	1.06	1.03	1.20	1.12	1.21	1.09		
Case5_F3_1	Phase	East Devon	40	0	500	NE138-NO13	1.03	1.01	BK345	1.01	1.01	1.01	1.00	1.02	1.01	1.01	1.01	1.02	1.01	1.03	1.01	1.01	1.01	1.01	1.00	0.99	1.01	1.00	1.00		
Case5_F4_3	Phase	Norwalk Junction	40	0	500	NE138-NO13	1.29	1.22	ED345	1.16	1.08	1.12	1.09	1.29	1.22	1.24	1.18	1.29	1.22	1.17	1.09	1.14	1.08	1.08	1.06	1.14	1.08	1.14	1.09		
Case5_F5_3	Phase	Singer	40	0	500	NE138-NO13	1.29	1.25	ED345	1.26	1.25	1.19	1.20	1.28	1.23	1.26	1.22	1.29	1.23	1.14	1.12	1.16	1.11	1.11	1.09	1.21	1.19	1.20	1.21		
Case5_F6_3	Phase Bt	Norwalk 345	40	0	500	NE138-NO13	1.33	1.23	PT115	1.28	1.23	1.33	1.17	1.30	1.22	1.27	1.22	1.33	1.21	1.16	1.11	1.18	1.09	1.11	1.07	1.30	1.17	1.28	1.14		
Case5_F7_3	Phase Bt	Plumtree 345	40	0	500	NE138-NO13	1.24	1.19	PT115	1.21	1.13	1.24	1.18	1.19	1.15	1.17	1.13	1.21	1.17	1.09	1.07	1.09	1.08	1.08	1.08	1.22	1.17	1.22	1.19		
Case5_bas	No Fault		40	0	500	LM345-PLVA	1.04	1.04	ED345	1.03	1.03	1.02	1.02	1.03	1.03	1.03	1.04	1.04	1.03	1.03	1.03	1.03	1.01	1.01	1.02	1.02	1.01	1.01			
Case5_F1_3	Phase	Plumtree	40	0	500	LM345-PLVA	1.30	1.18	ED345	1.26	1.16	1.22	1.17	1.29	1.18	1.16	1.13	1.30	1.18	1.14	1.07	1.18	1.09	1.13	1.06	1.21	1.17	1.19	1.14		
Case5_F2_3	Phase	East Devon	40	0	500	LM345-PLVA	1.41	1.19	ED345	1.34	1.19	1.39	1.14	1.38	1.18	1.28	1.12	1.41	1.19	1.12	1.04	1.20	1.05	1.15	1.03	1.34	1.14	1.28	1.11		
Case5_F3_1	Phase	East Devon	40	0	500	LM345-PLVA	1.04	1.03	ED345	1.03	1.03	1.03	1.02	1.03	1.03	1.02	1.04	1.03	1.03	1.02	1.02	1.02	1.01	1.01	1.02	1.02	1.02	1.01			
Case5_F4_3	Phase	Norwalk Junction	40	0	500	LM345-PLVA	1.44	1.36	NW345	1.26	1.21	1.23	1.19	1.44	1.36	1.30	1.24	1.44	1.36	1.24	1.16	1.24	1.18	1.16	1.13	1.22	1.20	1.19	1.20		
Case5_F5_3	Phase	Singer	40	0	500	LM345-PLVA	1.45	1.33	ED345	1.39	1.32	1.35	1.30	1.44	1.33	1.32	1.21	1.45	1.32	1.27	1.16	1.28	1.17	1.21	1.15	1.32	1.29	1.30	1.24		
Case5_F6_3	Phase Bt	Norwalk 345	40	0	500	LM345-PLVA	1.50	1.33	NW345	1.44	1.29	1.33	1.26	1.50	1.31	1.42	1.19	1.49	1.33	1.28	1.14	1.32	1.16	1.21	1.13	1.32	1.26	1.28	1.23		
Case5_F7_3	Phase Bt	Plumtree 345	40	0	500	LM345-PLVA	1.28	1.18	ED345	1.23	1.16	1.20	1.16	1.27	1.18	1.18	1.14	1.28	1.17	1.14	1.07	1.15	1.11	1.11	1.06	1.19	1.16	1.16	1.13		

CASE #: Case 5 with 80% source strength
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

DATE: 12/12/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																										
										LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY	
																	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		50	302	690				1.06	1.06	ESHOR	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.05	1.05	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.04	1.04					
Case5_F1.3	Phase Plumtree		50	302	690				1.27	1.19	PT115	1.26	1.14	1.27	1.17	1.23	1.15	1.15	1.10	1.24	1.15	1.22	1.11	1.17	1.10	1.11	1.11	1.25	1.19	1.22	1.16					
Case5_F2.3	Phase East Devon		50	302	690				1.47	1.29	ED345	1.35	1.23	1.30	1.22	1.45	1.28	1.27	1.20	1.47	1.29	1.20	1.12	1.26	1.13	1.25	1.16	1.25	1.25	1.21	1.19					
Case5_F3.1	Phase East Devon		50	302	690				1.10	1.08	BK345	1.05	1.04	1.04	1.04	1.05	1.04	1.04	1.03	1.05	1.04	1.10	1.08	1.06	1.06	1.05	1.05	1.04	1.04	1.04	1.03					
Case5_F4.3	Phase Norwalk Junction		50	302	690				1.46	1.36	ED345	1.27	1.23	1.24	1.21	1.45	1.36	1.28	1.28	1.46	1.36	1.35	1.23	1.31	1.23	1.17	1.14	1.25	1.25	1.22	1.23					
Case5_F5.3	Phase Singer		50	302	690				1.45	1.33	ED345	1.40	1.31	1.32	1.26	1.38	1.33	1.32	1.28	1.45	1.33	1.36	1.24	1.32	1.28	1.21	1.18	1.37	1.25	1.30	1.21					
Case5_F6.3	Phase Bt Norwalk 345		50	302	690				1.44	1.34	ED345	1.36	1.27	1.32	1.24	1.43	1.33	1.28	1.26	1.44	1.34	1.34	1.24	1.34	1.23	1.18	1.15	1.30	1.24	1.24	1.20					
Case5_F7.3	Phase Bt Plumtree 345		50	302	690				1.33	1.27	STONY	1.30	1.22	1.28	1.27	1.25	1.20	1.21	1.17	1.26	1.20	1.18	1.14	1.19	1.16	1.17	1.12	1.33	1.25	1.20	1.15					
Case5_bas	No Fault		50	302	690	PT345-LM34	1.06	1.06	BK345	1.04	1.04	1.03	1.03	1.04	1.04	1.03	1.03	1.04	1.04	1.06	1.06	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.03					
Case5_F2.3	Phase East Devon		50	302	690	PT345-LM34	1.25	1.12	STONY	1.24	1.02	1.14	1.07	1.23	1.04	1.07	1.01	1.24	1.04	1.13	1.12	1.05	1.07	1.13	1.12	1.25	1.08	1.12	1.07	1.07	1.07					
Case5_F3.1	Phase East Devon		50	302	690	PT345-LM34	1.10	1.07	BK345	1.01	1.01	1.01	1.01	1.02	1.01	1.01	1.01	1.02	1.01	1.10	1.07	1.05	1.05	1.04	1.04	1.01	1.01	1.02	1.02	1.02	1.02					
Case5_F4.3	Phase Norwalk Junction		50	302	690	PT345-LM34	1.41	1.32	ED345	1.26	1.23	1.25	1.22	1.40	1.30	1.28	1.25	1.41	1.32	1.24	1.14	1.20	1.17	1.12	1.13	1.18	1.21	1.15	1.17	1.21	1.15					
Case5_F5.3	Phase Singer		50	302	690	PT345-LM34	1.45	1.30	ED345	1.41	1.28	1.35	1.21	1.43	1.29	1.30	1.23	1.45	1.30	1.28	1.17	1.25	1.18	1.15	1.13	1.33	1.20	1.25	1.15	1.15	1.15					
Case5_F6.3	Phase Bt Norwalk 345		50	302	690	PT345-LM34	1.49	1.27	PT345	1.49	1.26	1.43	1.19	1.45	1.27	1.34	1.18	1.45	1.27	1.24	1.13	1.24	1.12	1.15	1.09	1.39	1.16	1.28	1.12	1.12	1.12					
Case5_F7.3	Phase Bt Plumtree 345		50	302	690	PT345-LM34	1.31	1.18	STONY	1.23	1.13	1.24	1.17	1.19	1.13	1.12	1.09	1.19	1.13	1.10	1.08	1.11	1.07	1.07	1.07	1.31	1.18	1.21	1.12	1.12						
Case5_bas	No Fault		50	302	690	BK345-ED34	1.06	1.06	BK345	1.04	1.04	1.03	1.03	1.03	1.03	1.03	1.04	1.04	1.06	1.06	1.06	1.06	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04					
Case5_F1.3	Phase Plumtree		50	302	690	BK345-ED34	1.20	1.10	BK345	1.15	1.01	1.10	1.08	1.14	1.01	1.03	1.00	1.14	1.02	1.20	1.10	1.04	1.04	1.09	1.09	1.16	1.07	1.12	1.07	1.12	1.07					
Case5_F4.3	Phase Norwalk Junction		50	302	690	BK345-ED34	1.51	1.27	NW345	1.14	1.13	1.18	1.13	1.51	1.26	1.28	1.12	1.49	1.27	1.12	1.11	1.12	1.04	1.09	1.09	1.20	1.17	1.15	1.14	1.14	1.14					
Case5_F5.3	Phase Singer		50	302	690	BK345-ED34	1.43	1.31	ED345	1.40	1.25	1.27	1.25	1.42	1.29	1.27	1.22	1.43	1.31	1.17	1.12	1.22	1.19	1.17	1.13	1.27	1.21	1.20	1.18	1.18						
Case5_F6.3	Phase Bt Norwalk 345		50	302	690	BK345-ED34	1.50	1.29	NW345	1.38	1.20	1.28	1.22	1.50	1.29	1.35	1.20	1.49	1.29	1.15	1.09	1.20	1.12	1.16	1.10	1.31	1.21	1.21	1.14	1.14	1.14					
Case5_F7.3	Phase Bt Plumtree 345		50	302	690	BK345-ED34	1.31	1.26	ED345	1.30	1.18	1.28	1.26	1.29	1.19	1.20	1.14	1.31	1.20	1.11	1.08	1.13	1.11	1.11	1.10	1.27	1.21	1.18	1.13	1.13	1.13					
Case5_bas	No Fault		50	302	690	NE138-NO13	1.06	1.06	ESHOR	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.05	1.05	1.06	1.06	1.04	1.04	1.04	1.04	1.04	1.04	1.04					
Case5_F1.3	Phase Plumtree		50	302	690	NE138-NO13	1.18	1.09	BK345	1.10	1.03	1.15	1.07	1.09	1.03	1.09	1.03	1.09	1.03	1.18	1.08	1.05	1.05	1.09	1.09	1.16	1.08	1.12	1.06	1.12	1.06					
Case5_F2.3	Phase East Devon		50	302	690	NE138-NO13	1.24	1.13	NW345	1.17	1.08	1.13	1.10	1.24	1.12	1.18	1.07	1.23	1.11	1.13	1.10	1.12	1.05	1.19	1.11	1.15	1.13	1.12	1.10	1.10	1.10					
Case5_F3.1	Phase East Devon		50	302	690	NE138-NO13	1.09	1.07	BK345	1.03	1.03	1.03	1.02	1.03	1.02	1.03	1.03	1.03	1.02	1.09	1.07	1.05	1.05	1.04	1.03	1.03	1.03	1.03	1.03	1.02	1.02					
Case5_F4.3	Phase Norwalk Junction		50	302	690	NE138-NO13	1.29	1.20	ED345	1.18	1.19	1.20	1.17	1.28	1.20	1.25	1.18	1.29	1.20	1.26	1.14	1.20	1.10	1.12	1.11	1.18	1.18	1.18	1.18	1.16	1.16					
Case5_F5.3	Phase Singer		50	302	690	NE138-NO13	1.35	1.26	ED345	1.32	1.23	1.26	1.19	1.30	1.24	1.31	1.22	1.35	1.26	1.29	1.18	1.23	1.18	1.17	1.11	1.28	1.17	1.24	1.15	1.15	1.15					
Case5_F6.3	Phase Bt Norwalk 345		50	302	690	NE138-NO13	1.35	1.22	ED345	1.26	1.17	1.20	1.16	1.35	1.22	1.29	1.22	1.35	1.22	1.28	1.15	1.25	1.12	1.12	1.08	1.26	1.16	1.19	1.15	1.15						
Case5_F7.3	Phase Bt Plumtree 345		50	302	690	NE138-NO13	1.26	1.21	STONY	1.22	1.14	1.25	1.21	1.19	1.13	1.15	1.13	1.21	1.13	1.11	1.08	1.12	1.09	1.11	1.05	1.26	1.17	1.20	1.11	1.11						
Case5_bas	No Fault		50	302	690	LM345-PLVA	1.05	1.05	ESHOR	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.04	1.04	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04					
Case5_F1.3	Phase Plumtree		50	302	690	LM345-PLVA	1.28	1.14	STONY	1.25	1.11	1.28	1.13	1.22	1.12	1.15	1.07	1.22	1.12	1.15	1.11	1.15	1.10	1.19	1.14	1.28	1.14	1.24	1.11	1.11						
Case5_F2.3	Phase East Devon		50	302	690	LM345-PLVA	1.33	1.14	ED345	1.29	1.10	1.18	1.13	1.32	1.13	1.15	1.06	1.33	1.14	1.20	1.12	1.23	1.05	1.19	1.08	1.29	1.14	1.21	1.10	1.10						
Case5_F3.1	Phase East Devon		50	302	690	LM345-PLVA	1.08	1.06	BK345	1.04	1.03	1.03	1.02	1.03	1.03	1.03	1.02	1.03	1.03	1.08	1.06	1.05	1.05	1.04	1.03	1.03	1.02	1.03	1.02	1.02						
Case5_F4.3	Phase Norwalk Junction		50	302	690	LM345-PLVA	1.40	1.28	NW345	1.27	1.20	1.23	1.23	1.40	1.27	1.27	1.24	1.40	1.28	1.37	1.22	1.38	1.21	1.17	1.15	1.26	1.25	1.22	1.20	1.20						
Case5_F5.3	Phase Singer		50	302	690	LM345-PLVA	1.43	1.28	PT345	1.43	1.27	1.27	1.18	1.38	1.27	1.28	1.20	1.41	1.28	1.35	1.20	1.34	1.20	1.26	1.17	1.29	1.18	1.24	1.15	1.15						
Case5_F6.3	Phase Bt Norwalk 345		50	302	690	LM345-PLVA	1.42	1.25	NW345	1.37	1.19	1.29	1.16	1.42	1.24	1.31	1.15	1.41	1.25	1.31	1.21	1.36	1.12	1.23	1.10	1.27	1.17	1.22	1.12	1.12						
Case5_F7.3	Phase Bt Plumtree 345		50	302	690	LM345-PLVA	1.27	1.16	STONY	1.19	1.12	1.26	1.14	1.21	1.12	1.14	1.07	1.20	1.12	1.13	1.08	1.17	1.07	1.15	1.12	1.27	1.16	1.19	1.11	1.11						

CASE #: Case 5 with 80% source strength
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

DATE: 12/12/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																										
										LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY	
																	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		70	1275	900				1.11	1.11	FB115	1.05	1.05	1.07	1.07	1.05	1.05	1.06	1.06	1.05	1.05	1.08	1.08	1.10	1.10	1.11	1.11	1.07	1.07	1.09	1.09					
Case5_F1.3	Phase Plumtree		70	1275	900				1.46	1.41	ROCKY	1.20	1.13	1.27	1.23	1.12	1.07	1.15	1.07	1.12	1.09	1.19	1.11	1.09	1.08	1.14	1.14	1.20	1.22	1.46	1.41					
Case5_F2.3	Phase East Devon		70	1275	900				1.54	1.30	ROCKY	1.18	1.11	1.21	1.13	1.24	1.13	1.23	1.14	1.26	1.13	1.20	1.17	1.20	1.11	1.21	1.16	1.21	1.11	1.54	1.30					
Case5_F3.1	Phase East Devon		70	1275	900				1.12	1.10	BK345	1.05	1.04	1.06	1.06	1.04	1.03	1.05	1.04	1.04	1.03	1.12	1.10	1.10	1.10	1.10	1.10	1.06	1.06	1.09	1.08					
Case5_F4.3	Phase Norwalk Junction		70	1275	900				1.63	1.49	ROCKY	1.21	1.18	1.23	1.15	1.22	1.14	1.25	1.19	1.21	1.15	1.20	1.12	1.25	1.17	1.22	1.18	1.23	1.18	1.63	1.49					
Case5_F5.3	Phase Singer		70	1275	900				1.64	1.37	ROCKY	1.19	1.13	1.27	1.21	1.23	1.13	1.25	1.18	1.29	1.15	1.17	1.12	1.27	1.14	1.35	1.28	1.30	1.24	1.64	1.37					
Case5_F6.3	Phase Bt Norwalk 345		70	1275	900				1.56	1.36	ROCKY	1.23	1.13	1.27	1.22	1.22	1.12	1.22	1.15	1.23	1.13	1.20	1.11	1.25	1.10	1.28	1.23	1.27	1.24	1.56	1.36					
Case5_F7.3	Phase Bt Plumtree 345		70	1275	900				1.62	1.54	ROCKY	1.18	1.15	1.23	1.22	1.17	1.12	1.19	1.12	1.18	1.13	1.18	1.11	1.12	1.09	1.14	1.14	1.21	1.14	1.62	1.54					
Case5_bas	No Fault		70	1275	900	PT345-LM34	1.10	1.10	FB115	1.04	1.04	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.07	1.07	1.09	1.10	1.10	1.10	1.06	1.06	1.08	1.08						
Case5_F2.3	Phase East Devon		70	1275	900	PT345-LM34	1.27	1.16	ROCKY	1.08	1.00	1.06	1.02	1.09	1.00	1.06	1.01	1.08	1.00	1.18	1.16	1.11	1.10	1.12	1.15	1.09	1.07	1.27	1.10							
Case5_F3.1	Phase East Devon		70	1275	900	PT345-LM34	1.11	1.09	BK345	1.00	1.00	1.01	1.01	1.00	0.99	1.01	1.01	1.01	1.00	1.11	1.09	1.08	1.07	1.09	1.09	1.02	1.02	1.05	1.05							
Case5_F4.3	Phase Norwalk Junction		70	1275	900	PT345-LM34	1.77	1.45	ROCKY	1.32	1.14	1.18	1.13	1.14	1.12	1.13	1.11	1.14	1.12	1.14	1.10	1.13	1.08	1.23	1.18	1.14	1.14	1.77	1.45							
Case5_F5.3	Phase Singer		70	1275	900	PT345-LM34	1.54	1.31	ROCKY	1.21	1.12	1.27	1.17	1.16	1.11	1.18	1.11	1.24	1.11	1.19	1.12	1.16	1.07	1.24	1.16	1.26	1.17	1.54	1.31							
Case5_F6.3	Phase Bt Norwalk 345		70	1275	900	PT345-LM34	1.50	1.36	ROCKY	1.24	1.12	1.24	1.21	1.13	1.10	1.15	1.09	1.15	1.10	1.13	1.09	1.12	1.07	1.23	1.12	1.26	1.24	1.50	1.36							
Case5_F7.3	Phase Bt Plumtree 345		70	1275	900	PT345-LM34	1.53	1.37	ROCKY	1.18	1.12	1.19	1.16	1.13	1.06	1.10	1.08	1.15	1.08	1.10	1.08	1.08	1.11	1.10	1.10	1.21	1.22	1.53	1.37							
Case5_bas	No Fault		70	1275	900	BK345-ED34	1.10	1.10	FB115	1.04	1.04	1.05	1.05	1.03	1.03	1.04	1.04	1.03	1.03	1.09	1.09	1.10	1.10	1.10	1.10	1.06	1.06	1.08	1.08							
Case5_F1.3	Phase Plumtree		70	1275	900	BK345-ED34	1.43	1.41	ROCKY	1.12	1.02	1.21	1.13	1.05	1.01	1.03	1.00	1.05	1.01	1.17	1.13	1.09	1.08	1.17	1.16	1.18	1.14	1.43	1.41							
Case5_F4.3	Phase Norwalk Junction		70	1275	900	BK345-ED34	1.42	1.36	ROCKY	1.17	1.13	1.20	1.13	1.22	1.08	1.20	1.09	1.22	1.08	1.12	1.12	1.11	1.09	1.17	1.18	1.20	1.17	1.42	1.36							
Case5_F5.3	Phase Singer		70	1275	900	BK345-ED34	1.42	1.26	ROCKY	1.23	1.14	1.24	1.19	1.17	1.14	1.18	1.13	1.19	1.14	1.14	1.12	1.17	1.08	1.22	1.19	1.24	1.18	1.42	1.26							
Case5_F6.3	Phase Bt Norwalk 345		70	1275	900	BK345-ED34	1.47	1.24	ROCKY	1.21	1.13	1.28	1.20	1.16	1.12	1.18	1.14	1.18	1.13	1.14	1.11	1.15	1.09	1.21	1.16	1.28	1.20	1.47	1.24							
Case5_F7.3	Phase Bt Plumtree 345		70	1275	900	BK345-ED34	1.52	1.50	ROCKY	1.21	1.12	1.25	1.24	1.15	1.09	1.18	1.09	1.18	1.11	1.14	1.11	1.10	1.08	1.15	1.13	1.18	1.21	1.52	1.50							
Case5_bas	No Fault		70	1275	900	NE138-NO13	1.09	1.09	FB115	1.04	1.04	1.06	1.06	1.04	1.04	1.06	1.06	1.04	1.04	1.04	1.06	1.06	1.09	1.09	1.09	1.09	1.06	1.06	1.08	1.08						
Case5_F1.3	Phase Plumtree		70	1275	900	NE138-NO13	1.35	1.39	ROCKY	1.12	1.03	1.17	1.12	1.03	1.03	1.06	1.04	1.04	1.04	1.14	1.08	1.07	1.06	1.11	1.09	1.14	1.12	1.35	1.39							
Case5_F2.3	Phase East Devon		70	1275	900	NE138-NO13	1.33	1.15	ROCKY	1.07	1.03	1.09	1.05	1.06	1.03	1.13	1.06	1.06	1.03	1.20	1.15	1.12	1.11	1.10	1.08	1.10	1.09	1.33	1.11							
Case5_F3.1	Phase East Devon		70	1275	900	NE138-NO13	1.11	1.09	BK345	1.03	1.02	1.04	1.04	1.02	1.01	1.04	1.04	1.02	1.01	1.11	1.08	1.08	1.08	1.09	1.09	1.04	1.04	1.06	1.06							
Case5_F4.3	Phase Norwalk Junction		70	1275	900	NE138-NO13	1.58	1.43	ROCKY	1.25	1.13	1.19	1.14	1.09	1.10	1.15	1.10	1.09	1.09	1.15	1.09	1.11	1.09	1.12	1.10	1.22	1.16	1.58	1.43							
Case5_F5.3	Phase Singer		70	1275	900	NE138-NO13	1.41	1.24	ROCKY	1.10	1.07	1.14	1.12	1.10	1.06	1.22	1.10	1.15	1.07	1.14	1.10	1.14	1.07	1.21	1.19	1.20	1.13	1.41	1.24							
Case5_F6.3	Phase Bt Norwalk 345		70	1275	900	NE138-NO13	1.45	1.20	ROCKY	1.09	1.09	1.21	1.12	1.09	1.08	1.20	1.10	1.10	1.08	1.20	1.11	1.10	1.07	1.20	1.14	1.20	1.13	1.45	1.20							
Case5_F7.3	Phase Bt Plumtree 345		70	1275	900	NE138-NO13	1.49	1.46	ROCKY	1.13	1.08	1.18	1.18	1.08	1.05	1.14	1.08	1.11	1.06	1.17	1.09	1.08	1.08	1.12	1.10	1.18	1.18	1.49	1.46							
Case5_bas	No Fault		70	1275	900	LM345-PLVA	1.10	1.10	FB115	1.05	1.05	1.06	1.06	1.05	1.05	1.04	1.04	1.05	1.05	1.07	1.07	1.09	1.09	1.10	1.10	1.07	1.07	1.08	1.08							
Case5_F1.3	Phase Plumtree		70	1275	900	LM345-PLVA	1.35	1.46	ROCKY	1.17	1.08	1.22	1.18	1.07	1.06	1.11	1.05	1.07	1.06	1.11	1.09	1.09	1.08	1.17	1.15	1.24	1.18	1.35	1.46							
Case5_F2.3	Phase East Devon		70	1275	900	LM345-PLVA	1.32	1.22	ROCKY	1.14	1.05	1.12	1.09	1.13	1.04	1.12	1.04	1.15	1.05	1.21	1.16	1.10	1.10	1.14	1.12	1.14	1.10	1.32	1.22							
Case5_F3.1	Phase East Devon		70	1275	900	LM345-PLVA	1.12	1.08	BK345	1.05	1.03	1.05	1.04	1.03	1.02	1.03	1.03	1.03	1.03	1.12	1.08	1.08	1.08	1.09	1.08	1.05	1.05	1.07	1.07							
Case5_F4.3	Phase Norwalk Junction		70	1275	900	LM345-PLVA	1.51	1.48	ROCKY	1.27	1.16	1.21	1.19	1.11	1.11	1.14	1.11	1.12	1.12	1.17	1.09	1.20	1.10	1.21	1.17	1.25	1.18	1.51	1.48							
Case5_F5.3	Phase Singer		70	1275	900	LM345-PLVA	1.52	1.24	ROCKY	1.15	1.10	1.21	1.13	1.13	1.09	1.17	1.08	1.20	1.10	1.16	1.10	1.19	1.07	1.24	1.17	1.22	1.15	1.52	1.24							
Case5_F6.3	Phase Bt Norwalk 345		70	1275	900	LM345-PLVA	1.46	1.27	ROCKY	1.15	1.09	1.24	1.15	1.12	1.09	1.14	1.09	1.12	1.09	1.23	1.11	1.15	1.07	1.16	1.13	1.30	1.18	1.46	1.27							
Case5_F7.3	Phase Bt Plumtree 345		70	1275	900	LM345-PLVA	1.40	1.36	ROCKY	1.14	1.10	1.20	1.18	1.10	1.07	1.12	1.06	1.12	1.07	1.17	1.11	1.09	1.08	1.13	1.13	1.19	1.18	1.40	1.36							

CASE #: Case 5 at 80% Source, ALT Load
 and future capacitors at Ansonia, Bunker Hill, Hawthorne
 DONE BY: Jack King/EnerNex

DATE: 12/14/2004
 GE 2C and 6C Windows

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																							
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY					
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_basNo Fault			30	0	500				1.04	1.04	ED345	1.03	1.03	1.03	1.03	1.04	1.04	1.03	1.03	1.04	1.04	1.03	1.03	1.04	1.04	1.02	1.02	1.03	1.03	1.02	1.02		
Case5_F1.3 Phase		Plumtree	30	0	500				1.29	1.28	ROCKY	1.16	1.10	1.21	1.16	1.16	1.10	1.17	1.08	1.16	1.09	1.14	1.11	1.12	1.07	1.11	1.09	1.28	1.26	1.29	1.28		
Case5_F2.3 Phase		East Devon	30	0	500				1.42	1.21	ESHOR	1.27	1.14	1.25	1.16	1.39	1.19	1.37	1.21	1.39	1.19	1.27	1.17	1.42	1.15	1.19	1.14	1.29	1.20	1.33	1.21		
Case5_F3.1 Phase		East Devon	30	0	500				1.11	1.04	ESHOR	1.05	1.03	1.08	1.03	1.07	1.04	1.06	1.03	1.07	1.04	1.10	1.04	1.11	1.04	1.05	1.02	1.07	1.03	1.06	1.03		
Case5_F4.3 Phase		Norwalk Junction	30	0	500				1.60	1.41	ED345	1.32	1.20	1.42	1.32	1.60	1.40	1.53	1.39	1.60	1.41	1.29	1.18	1.59	1.38	1.25	1.18	1.28	1.22	1.38	1.30		
Case5_F5.3 Phase		Singer	30	0	500				1.65	1.49	ESHOR	1.48	1.40	1.44	1.41	1.55	1.42	1.54	1.43	1.57	1.40	1.34	1.21	1.65	1.49	1.29	1.21	1.44	1.35	1.39	1.30		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	500				1.57	1.38	ESHOR	1.44	1.25	1.36	1.23	1.55	1.33	1.51	1.38	1.53	1.34	1.32	1.15	1.57	1.36	1.28	1.15	1.38	1.24	1.42	1.25		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	500				1.39	1.28	STONY	1.27	1.14	1.30	1.21	1.31	1.20	1.30	1.22	1.33	1.19	1.17	1.13	1.28	1.15	1.15	1.11	1.39	1.25	1.29	1.28		
Case5_basNo Fault			30	0	500	PT345-LM34	1.05	1.05	ED345	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.05	1.05	1.03	1.03	1.03	1.02	1.02	1.04	1.04	1.04	1.03	1.03	1.02	1.02		
Case5_F2.3 Phase		East Devon	30	0	500	PT345-LM34	1.29	1.17	ED345	1.24	1.09	1.14	1.08	1.28	1.12	1.15	1.12	1.29	1.13	1.14	1.10	1.09	1.05	1.11	1.06	1.16	1.13	1.17	1.17	1.17	1.17		
Case5_F3.1 Phase		East Devon	30	0	500	PT345-LM34	1.11	1.06	BK345	1.07	1.06	1.05	1.05	1.08	1.06	1.05	1.04	1.08	1.06	1.11	1.04	1.05	1.04	1.04	1.02	1.05	1.04	1.04	1.04	1.04	1.04		
Case5_F4.3 Phase		Norwalk Junction	30	0	500	PT345-LM34	1.53	1.41	NW345	1.48	1.41	1.47	1.41	1.53	1.34	1.46	1.30	1.51	1.32	1.25	1.11	1.45	1.26	1.24	1.17	1.43	1.38	1.49	1.33	1.33	1.33		
Case5_F5.3 Phase		Singer	30	0	500	PT345-LM34	1.48	1.28	ESHOR	1.43	1.25	1.40	1.21	1.48	1.27	1.42	1.28	1.46	1.26	1.26	1.13	1.48	1.21	1.17	1.11	1.44	1.22	1.40	1.21	1.21	1.21		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	500	PT345-LM34	1.47	1.23	NW345	1.38	1.20	1.34	1.12	1.47	1.20	1.33	1.23	1.45	1.19	1.18	1.11	1.24	1.11	1.14	1.10	1.30	1.17	1.28	1.18	1.18			
Case5_F7.3 Phase Bt		Plumtree 345	30	0	500	PT345-LM34	1.32	1.23	STONY	1.17	1.09	1.27	1.13	1.16	1.11	1.16	1.08	1.16	1.11	1.12	1.11	1.09	1.07	1.08	1.05	1.32	1.22	1.26	1.23	1.23			
Case5_basNo Fault			30	0	500	BK345-ED34	1.04	1.04	ESHOR	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.04	1.04	1.03	1.03	1.04	1.04	1.02	1.02	1.03	1.03	1.02	1.02	1.02			
Case5_F1.3 Phase		Plumtree	30	0	500	BK345-ED34	1.29	1.24	STONY	1.21	1.11	1.21	1.13	1.20	1.10	1.12	1.07	1.20	1.10	1.11	1.06	1.06	1.14	1.09	1.29	1.19	1.27	1.19	1.27	1.24			
Case5_F4.3 Phase		Norwalk Junction	30	0	500	BK345-ED34	1.43	1.22	ED345	1.18	1.11	1.21	1.16	1.42	1.19	1.24	1.16	1.43	1.18	1.16	1.11	1.09	1.07	1.09	1.06	1.22	1.16	1.30	1.22	1.22			
Case5_F5.3 Phase		Singer	30	0	500	BK345-ED34	1.57	1.39	ED345	1.42	1.23	1.33	1.28	1.52	1.34	1.43	1.29	1.57	1.36	1.23	1.16	1.46	1.39	1.17	1.13	1.44	1.26	1.44	1.26	1.26			
Case5_F6.3 Phase Bt		Norwalk 345	30	0	500	BK345-ED34	1.49	1.23	ED345	1.28	1.11	1.22	1.14	1.47	1.18	1.36	1.21	1.49	1.19	1.17	1.13	1.32	1.20	1.16	1.13	1.23	1.20	1.27	1.23	1.23			
Case5_F7.3 Phase Bt		Plumtree 345	30	0	500	BK345-ED34	1.40	1.27	STONY	1.25	1.12	1.29	1.17	1.30	1.11	1.28	1.14	1.30	1.12	1.16	1.10	1.16	1.08	1.18	1.08	1.40	1.24	1.36	1.27	1.27			
Case5_basNo Fault			30	0	500	NE138-NO13	1.04	1.04	NW115	1.03	1.03	1.03	1.03	1.03	1.03	1.04	1.04	1.04	1.04	1.03	1.03	1.03	1.03	1.02	1.02	1.03	1.03	1.02	1.02	1.02			
Case5_F1.3 Phase		Plumtree	30	0	500	NE138-NO13	1.24	1.21	ROCKY	1.11	1.07	1.21	1.10	1.10	1.07	1.13	1.08	1.11	1.07	1.16	1.08	1.13	1.11	1.10	1.08	1.22	1.18	1.24	1.21	1.21			
Case5_F2.3 Phase		East Devon	30	0	500	NE138-NO13	1.25	1.14	ED345	1.12	1.07	1.13	1.06	1.21	1.05	1.22	1.14	1.25	1.06	1.24	1.12	1.17	1.07	1.16	1.06	1.13	1.08	1.19	1.10	1.10			
Case5_F3.1 Phase		East Devon	30	0	500	NE138-NO13	1.06	1.04	BK345	1.05	1.03	1.04	1.03	1.05	1.03	1.05	1.03	1.06	1.04	1.06	1.04	1.05	1.04	1.03	1.02	1.05	1.03	1.04	1.04	1.02			
Case5_F4.3 Phase		Norwalk Junction	30	0	500	NE138-NO13	1.33	1.21	NW345	1.17	1.12	1.20	1.19	1.33	1.18	1.25	1.19	1.32	1.18	1.17	1.11	1.23	1.14	1.14	1.09	1.21	1.16	1.25	1.21	1.21			
Case5_F5.3 Phase		Singer	30	0	500	NE138-NO13	1.40	1.27	NW115	1.25	1.14	1.28	1.16	1.33	1.17	1.40	1.27	1.34	1.18	1.17	1.10	1.31	1.16	1.15	1.08	1.31	1.14	1.27	1.18	1.18			
Case5_F6.3 Phase Bt		Norwalk 345	30	0	500	NE138-NO13	1.31	1.26	NW115	1.22	1.09	1.19	1.13	1.28	1.14	1.31	1.26	1.29	1.12	1.19	1.11	1.24	1.13	1.16	1.11	1.17	1.09	1.19	1.16	1.16			
Case5_F7.3 Phase Bt		Plumtree 345	30	0	500	NE138-NO13	1.23	1.21	STONY	1.12	1.10	1.16	1.12	1.10	1.08	1.22	1.13	1.11	1.09	1.13	1.09	1.09	1.08	1.11	1.06	1.23	1.17	1.20	1.21	1.21			
Case5_basNo Fault			30	0	500	LM345-PLVA	1.05	1.05	ED345	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.05	1.05	1.05	1.04	1.04	1.04	1.03	1.03	1.04	1.04	1.04	1.04	1.04	1.04			
Case5_F1.3 Phase		Plumtree	30	0	500	LM345-PLVA	1.35	1.31	ROCKY	1.18	1.10	1.24	1.18	1.16	1.11	1.16	1.08	1.16	1.11	1.11	1.09	1.15	1.06	1.19	1.14	1.32	1.28	1.35	1.31	1.31			
Case5_F2.3 Phase		East Devon	30	0	500	LM345-PLVA	1.29	1.17	ED345	1.22	1.10	1.17	1.10	1.29	1.12	1.22	1.13	1.29	1.12	1.28	1.15	1.28	1.10	1.22	1.14	1.23	1.15	1.27	1.17	1.17			
Case5_F3.1 Phase		East Devon	30	0	500	LM345-PLVA	1.12	1.06	BK345	1.09	1.05	1.06	1.05	1.09	1.06	1.05	1.04	1.09	1.06	1.12	1.05	1.07	1.05	1.05	1.04	1.07	1.04	1.06	1.04	1.04			
Case5_F4.3 Phase		Norwalk Junction	30	0	500	LM345-PLVA	1.59	1.50	ESHOR	1.42	1.39	1.46	1.50	1.55	1.30	1.39	1.27	1.57	1.30	1.29	1.13	1.59	1.32	1.32	1.25	1.39	1.32	1.47	1.39	1.39			
Case5_F5.3 Phase		Singer	30	0	500	LM345-PLVA	1.51	1.25	ESHOR	1.35	1.23	1.32	1.18	1.44	1.24	1.36	1.24	1.46	1.22	1.24	1.12	1.51	1.25	1.28	1.15	1.39	1.16	1.40	1.22	1.22			
Case5_F6.3 Phase Bt		Norwalk 345	30	0	500	LM345-PLVA	1.38	1.21	NW345	1.35	1.12	1.34	1.13	1.38	1.17	1.33	1.21	1.38	1.16	1.23	1.12	1.36	1.12	1.24	1.15	1.29	1.14	1.33	1.18	1.18			
Case5_F7.3 Phase Bt		Plumtree 345	30	0	500	LM345-PLVA	1.31	1.27	STONY	1.19	1.09	1.25	1.16	1.18	1.10	1.18	1.08	1.17	1.10	1.17	1.09	1.15	1.06	1.14	1.09	1.31	1.24	1.30	1.27	1.27			

CASE #: Case 5 at 80% Source, ALT Load
 and future capacitors at Ansonia, Bunker Hill, Hawthorne
 DONE BY: Jack King/EnerNex

DATE: 12/14/2004
 GE 2C and 6C Windows

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		40	0	500			1.03	1.03	ED345	1.02	1.02	1.01	1.01	1.02	1.02	1.02	1.02	1.03	1.03	1.02	1.02	1.02	1.02	1.00	1.00	1.01	1.01	1.00	1.00	
Case5_F1_3	Phase Plumtree		40	0	500			1.21	1.21	ROCKY	1.12	1.09	1.14	1.10	1.11	1.07	1.11	1.06	1.11	1.07	1.15	1.07	1.07	1.05	1.06	1.03	1.18	1.13	1.21	1.21	
Case5_F2_3	Phase East Devon		40	0	500			1.32	1.17	ROCKY	1.21	1.06	1.19	1.07	1.30	1.11	1.28	1.12	1.32	1.11	1.19	1.10	1.20	1.02	1.13	1.06	1.18	1.11	1.32	1.17	
Case5_F3_1	Phase East Devon		40	0	500			1.08	1.03	BK345	1.04	1.02	1.07	1.01	1.06	1.02	1.05	1.02	1.08	1.02	1.08	1.03	1.04	1.02	1.01	1.00	1.07	1.01	1.05	1.00	
Case5_F4_3	Phase Norwalk Junction		40	0	500			1.44	1.37	NW115	1.30	1.18	1.34	1.27	1.39	1.21	1.44	1.33	1.39	1.21	1.20	1.12	1.37	1.15	1.20	1.16	1.26	1.24	1.39	1.37	
Case5_F5_3	Phase Singer		40	0	500			1.44	1.38	ROCKY	1.35	1.24	1.30	1.21	1.40	1.26	1.42	1.32	1.41	1.27	1.27	1.15	1.42	1.25	1.30	1.20	1.28	1.22	1.44	1.38	
Case5_F6_3	Phase Bt Norwalk 345		40	0	500			1.43	1.28	ROCKY	1.32	1.18	1.25	1.16	1.39	1.22	1.39	1.27	1.38	1.22	1.22	1.12	1.41	1.13	1.28	1.16	1.24	1.17	1.43	1.28	
Case5_F7_3	Phase Bt Plumtree 345		40	0	500			1.27	1.28	ROCKY	1.17	1.10	1.20	1.15	1.16	1.08	1.20	1.12	1.15	1.08	1.14	1.08	1.18	1.10	1.09	1.08	1.21	1.22	1.27	1.28	
Case5_bas	No Fault		40	0	500	PT345-LM34	1.03	1.03	ED345	1.02	1.02	1.02	1.02	1.03	1.03	1.02	1.02	1.03	1.03	1.02	1.02	1.02	1.00	1.00	1.01	1.01	1.01	1.00	1.00	1.00	1.00
Case5_F2_3	Phase East Devon		40	0	500	PT345-LM34	1.16	1.09	PT345	1.16	1.07	1.11	1.08	1.11	1.07	1.11	1.04	1.13	1.07	1.09	1.04	1.07	1.06	1.05	1.01	1.14	1.09	1.13	1.09	1.09	1.09
Case5_F3_1	Phase East Devon		40	0	500	PT345-LM34	1.07	1.03	BK345	1.05	1.03	1.03	1.02	1.05	1.03	1.02	1.02	1.05	1.03	1.07	1.03	1.04	1.02	1.03	1.00	1.03	1.01	1.03	1.00	1.00	1.00
Case5_F4_3	Phase Norwalk Junction		40	0	500	PT345-LM34	1.40	1.31	PT345	1.40	1.31	1.39	1.31	1.33	1.16	1.38	1.26	1.33	1.15	1.14	1.07	1.25	1.23	1.17	1.08	1.35	1.30	1.33	1.23	1.23	
Case5_F5_3	Phase Singer		40	0	500	PT345-LM34	1.32	1.21	ED345	1.30	1.15	1.24	1.14	1.32	1.11	1.32	1.16	1.32	1.11	1.22	1.08	1.26	1.20	1.10	1.05	1.21	1.12	1.28	1.21	1.21	
Case5_F6_3	Phase Bt Norwalk 345		40	0	500	PT345-LM34	1.30	1.22	NW345	1.29	1.10	1.23	1.15	1.30	1.07	1.29	1.12	1.29	1.06	1.12	1.05	1.21	1.13	1.11	1.05	1.16	1.14	1.22	1.22	1.22	
Case5_F7_3	Phase Bt Plumtree 345		40	0	500	PT345-LM34	1.19	1.19	ROCKY	1.10	1.08	1.13	1.09	1.13	1.09	1.10	1.06	1.12	1.10	1.12	1.08	1.07	1.05	1.08	1.04	1.17	1.13	1.19	1.19	1.19	
Case5_bas	No Fault		40	0	500	BK345-ED34	1.02	1.02	ED345	1.01	1.01	1.01	1.01	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.00	1.00	1.01	1.01	1.01	1.00	1.00	1.00	1.00
Case5_F1_3	Phase Plumtree		40	0	500	BK345-ED34	1.22	1.15	ROCKY	1.13	1.09	1.19	1.15	1.12	1.08	1.07	1.06	1.13	1.09	1.08	1.06	1.05	1.02	1.06	1.06	1.22	1.12	1.22	1.14	1.14	
Case5_F4_3	Phase Norwalk Junction		40	0	500	BK345-ED34	1.29	1.13	NW345	1.14	1.07	1.12	1.05	1.29	1.11	1.21	1.10	1.29	1.11	1.09	1.05	1.03	1.01	1.07	1.03	1.13	1.11	1.19	1.13	1.13	
Case5_F5_3	Phase Singer		40	0	500	BK345-ED34	1.34	1.19	ESHOR	1.26	1.08	1.23	1.09	1.29	1.15	1.30	1.17	1.33	1.16	1.17	1.07	1.34	1.16	1.14	1.06	1.21	1.11	1.27	1.19	1.19	
Case5_F6_3	Phase Bt Norwalk 345		40	0	500	BK345-ED34	1.29	1.19	ROCKY	1.25	1.06	1.20	1.08	1.27	1.10	1.28	1.13	1.29	1.10	1.10	1.07	1.20	1.03	1.13	1.05	1.20	1.12	1.29	1.19	1.19	
Case5_F7_3	Phase Bt Plumtree 345		40	0	500	BK345-ED34	1.29	1.29	ROCKY	1.16	1.10	1.19	1.16	1.18	1.07	1.20	1.09	1.20	1.08	1.13	1.07	1.12	1.05	1.08	1.06	1.19	1.17	1.29	1.29	1.29	
Case5_bas	No Fault		40	0	500	NE138-NO13	1.01	1.01	ED345	1.01	1.01	1.00	1.00	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	0.99	0.99	1.00	1.00	0.99	0.99	
Case5_F1_3	Phase Plumtree		40	0	500	NE138-NO13	1.16	1.14	ROCKY	1.10	1.07	1.14	1.12	1.09	1.07	1.07	1.05	1.08	1.07	1.13	1.04	1.07	1.04	1.04	1.01	1.10	1.08	1.16	1.14	1.14	
Case5_F2_3	Phase East Devon		40	0	500	NE138-NO13	1.17	1.06	ROCKY	1.09	1.04	1.10	1.03	1.09	1.05	1.17	1.04	1.10	1.06	1.12	1.06	1.04	1.02	1.03	1.01	1.12	1.03	1.17	1.06	1.06	
Case5_F3_1	Phase East Devon		40	0	500	NE138-NO13	1.05	1.02	BK345	1.01	1.00	1.00	1.00	1.02	1.01	1.01	1.00	1.02	1.01	1.05	1.02	1.03	1.01	1.00	0.99	1.01	0.99	1.01	0.99	0.99	
Case5_F4_3	Phase Norwalk Junction		40	0	500	NE138-NO13	1.32	1.30	ROCKY	1.19	1.11	1.20	1.15	1.19	1.05	1.26	1.19	1.19	1.05	1.15	1.06	1.12	1.09	1.08	1.08	1.20	1.17	1.32	1.30	1.30	
Case5_F5_3	Phase Singer		40	0	500	NE138-NO13	1.29	1.19	NW115	1.15	1.04	1.14	1.08	1.20	1.07	1.29	1.19	1.20	1.08	1.12	1.05	1.21	1.11	1.10	1.06	1.11	1.06	1.24	1.14	1.14	
Case5_F6_3	Phase Bt Norwalk 345		40	0	500	NE138-NO13	1.27	1.16	NW115	1.20	1.06	1.17	1.06	1.20	1.06	1.27	1.16	1.19	1.06	1.15	1.06	1.11	1.09	1.10	1.03	1.14	1.07	1.24	1.16	1.16	
Case5_F7_3	Phase Bt Plumtree 345		40	0	500	NE138-NO13	1.19	1.19	ROCKY	1.08	1.06	1.13	1.10	1.09	1.03	1.17	1.07	1.10	1.04	1.10	1.05	1.07	1.06	1.05	1.04	1.15	1.09	1.19	1.19	1.19	
Case5_bas	No Fault		40	0	500	LM345-PLVA	1.03	1.03	ED345	1.03	1.03	1.02	1.02	1.03	1.03	1.02	1.02	1.03	1.03	1.02	1.02	1.02	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01
Case5_F1_3	Phase Plumtree		40	0	500	LM345-PLVA	1.19	1.19	ROCKY	1.14	1.08	1.15	1.12	1.11	1.07	1.10	1.05	1.12	1.07	1.10	1.05	1.04	1.02	1.07	1.03	1.18	1.12	1.19	1.19	1.19	
Case5_F2_3	Phase East Devon		40	0	500	LM345-PLVA	1.22	1.13	NW345	1.18	1.05	1.15	1.08	1.22	1.05	1.16	1.03	1.22	1.05	1.11	1.06	1.11	1.04	1.07	1.04	1.13	1.08	1.22	1.13	1.13	
Case5_F3_1	Phase East Devon		40	0	500	LM345-PLVA	1.07	1.03	BK345	1.05	1.03	1.03	1.02	1.04	1.03	1.03	1.02	1.04	1.03	1.07	1.03	1.03	1.02	1.02	1.01	1.03	1.01	1.03	1.00	1.00	
Case5_F4_3	Phase Norwalk Junction		40	0	500	LM345-PLVA	1.39	1.23	PT115	1.28	1.17	1.39	1.23	1.33	1.15	1.37	1.23	1.34	1.14	1.20	1.06	1.31	1.11	1.16	1.08	1.37	1.18	1.36	1.19	1.19	
Case5_F5_3	Phase Singer		40	0	500	LM345-PLVA	1.38	1.25	ROCKY	1.27	1.15	1.20	1.17	1.35	1.14	1.26	1.16	1.34	1.16	1.17	1.07	1.26	1.10	1.20	1.15	1.27	1.14	1.38	1.25	1.25	
Case5_F6_3	Phase Bt Norwalk 345		40	0	500	LM345-PLVA	1.33	1.21	ROCKY	1.23	1.11	1.17	1.09	1.31	1.09	1.25	1.13	1.29	1.09	1.12	1.06	1.17	1.09	1.15	1.08	1.17	1.08	1.33	1.21	1.21	
Case5_F7_3	Phase Bt Plumtree 345		40	0	500	LM345-PLVA	1.22	1.19	ROCKY	1.13	1.07	1.17	1.14	1.12	1.07	1.11	1.06	1.12	1.07	1.14	1.08	1.08	1.07	1.07	1.05	1.21	1.12	1.22	1.19	1.19	

CASE #: Case 5 at 80% Source, ALT Load
 and future capacitors at Ansonia, Bunker Hill, Hawthorne
 DONE BY: Jack King/EnerNex

DATE: 12/14/2004
 GE 2C and 6C Windows

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		50	434	690				1.07	1.07	ESHOR	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.06	1.06	1.07	1.07	1.07	1.07	1.07	1.07	1.05	1.05	1.05	1.05
Case5_F1.3	Phase Plumtree		50	434	690				1.22	1.15	STONY	1.13	1.10	1.19	1.15	1.12	1.09	1.10	1.10	1.13	1.09	1.17	1.10	1.10	1.07	1.15	1.15	1.22	1.15	1.21	1.14
Case5_F2.3	Phase East Devon		50	434	690				1.22	1.14	BK345	1.14	1.07	1.12	1.08	1.16	1.07	1.19	1.10	1.17	1.07	1.22	1.14	1.20	1.11	1.20	1.11	1.17	1.10	1.16	1.09
Case5_F3.1	Phase East Devon		50	434	690				1.14	1.08	BK345	1.08	1.05	1.06	1.04	1.09	1.04	1.06	1.04	1.08	1.04	1.14	1.08	1.13	1.08	1.08	1.07	1.06	1.05	1.06	1.05
Case5_F4.3	Phase Norwalk Junction		50	434	690				1.35	1.26	ROCKY	1.20	1.15	1.15	1.20	1.26	1.11	1.27	1.13	1.26	1.12	1.16	1.11	1.31	1.19	1.23	1.14	1.29	1.21	1.35	1.26
Case5_F5.3	Phase Singer		50	434	690				1.39	1.24	STONY	1.23	1.11	1.25	1.16	1.20	1.14	1.24	1.13	1.25	1.16	1.26	1.11	1.34	1.24	1.25	1.19	1.39	1.22	1.34	1.21
Case5_F6.3	Phase Bt Norwalk 345		50	434	690				1.32	1.25	ROCKY	1.16	1.09	1.22	1.15	1.23	1.10	1.24	1.12	1.24	1.10	1.18	1.10	1.31	1.13	1.27	1.18	1.26	1.20	1.32	1.25
Case5_F7.3	Phase Bt Plumtree 345		50	434	690				1.21	1.24	STONY	1.16	1.12	1.20	1.16	1.11	1.10	1.13	1.13	1.12	1.10	1.15	1.11	1.14	1.14	1.21	1.14	1.21	1.24	1.20	1.20
Case5_bas	No Fault		50	434	690	PT345-LM34	1.06	1.06	ESHOR	1.04	1.04	1.04	1.04	1.05	1.05	1.04	1.04	1.05	1.05	1.05	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.04	1.04	1.04	1.04
Case5_F2.3	Phase East Devon		50	434	690	PT345-LM34	1.17	1.13	BK345	1.14	1.10	1.12	1.08	1.14	1.10	1.08	1.07	1.16	1.10	1.17	1.13	1.16	1.12	1.12	1.07	1.16	1.08	1.13	1.08	1.13	1.08
Case5_F3.1	Phase East Devon		50	434	690	PT345-LM34	1.12	1.08	BK345	1.03	1.02	1.02	1.02	1.03	1.02	1.02	1.02	1.03	1.02	1.03	1.02	1.12	1.08	1.07	1.06	1.08	1.06	1.03	1.02	1.04	1.03
Case5_F4.3	Phase Norwalk Junction		50	434	690	PT345-LM34	1.31	1.22	ROCKY	1.18	1.15	1.17	1.15	1.17	1.09	1.19	1.12	1.17	1.10	1.17	1.09	1.26	1.19	1.18	1.14	1.22	1.22	1.31	1.19		
Case5_F5.3	Phase Singer		50	434	690	PT345-LM34	1.25	1.17	ROCKY	1.22	1.10	1.15	1.12	1.14	1.09	1.14	1.09	1.21	1.11	1.19	1.10	1.22	1.13	1.24	1.13	1.21	1.14	1.25	1.17		
Case5_F6.3	Phase Bt Norwalk 345		50	434	690	PT345-LM34	1.26	1.19	ROCKY	1.20	1.09	1.16	1.16	1.17	1.09	1.17	1.09	1.16	1.10	1.15	1.08	1.17	1.11	1.18	1.10	1.21	1.19	1.26	1.18		
Case5_F7.3	Phase Bt Plumtree 345		50	434	690	PT345-LM34	1.22	1.19	ROCKY	1.14	1.08	1.17	1.13	1.15	1.10	1.10	1.08	1.14	1.11	1.12	1.08	1.07	1.07	1.10	1.09	1.21	1.16	1.22	1.19		
Case5_bas	No Fault		50	434	690	BK345-ED34	1.07	1.07	BK345	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.07	1.07	1.07	1.07	1.06	1.06	1.04	1.04	1.05	1.05	
Case5_F1.3	Phase Plumtree		50	434	690	BK345-ED34	1.21	1.17	ROCKY	1.13	1.09	1.18	1.17	1.12	1.09	1.09	1.07	1.12	1.09	1.20	1.11	1.11	1.07	1.18	1.17	1.20	1.12	1.21	1.14		
Case5_F4.3	Phase Norwalk Junction		50	434	690	BK345-ED34	1.24	1.19	STONY	1.22	1.18	1.18	1.18	1.19	1.09	1.14	1.07	1.18	1.09	1.12	1.10	1.12	1.04	1.17	1.14	1.24	1.19	1.24	1.19		
Case5_F5.3	Phase Singer		50	434	690	BK345-ED34	1.30	1.15	ROCKY	1.20	1.12	1.18	1.11	1.23	1.09	1.18	1.11	1.28	1.10	1.12	1.11	1.26	1.13	1.22	1.15	1.29	1.15	1.30	1.13		
Case5_F6.3	Phase Bt Norwalk 345		50	434	690	BK345-ED34	1.23	1.15	ROCKY	1.18	1.10	1.17	1.13	1.16	1.10	1.16	1.09	1.18	1.10	1.14	1.11	1.20	1.13	1.22	1.11	1.21	1.15	1.23	1.12		
Case5_F7.3	Phase Bt Plumtree 345		50	434	690	BK345-ED34	1.22	1.18	STONY	1.15	1.09	1.20	1.12	1.12	1.09	1.11	1.10	1.13	1.10	1.16	1.11	1.13	1.10	1.12	1.09	1.22	1.17	1.21	1.18		
Case5_bas	No Fault		50	434	690	NE138-NO13	1.06	1.06	ESHOR	1.04	1.04	1.04	1.04	1.04	1.04	1.05	1.05	1.05	1.05	1.05	1.06	1.06	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05	
Case5_F1.3	Phase Plumtree		50	434	690	NE138-NO13	1.25	1.16	STONY	1.16	1.14	1.18	1.15	1.17	1.12	1.16	1.11	1.17	1.12	1.17	1.09	1.13	1.08	1.13	1.12	1.25	1.16	1.25	1.14		
Case5_F2.3	Phase East Devon		50	434	690	NE138-NO13	1.18	1.14	FB115	1.15	1.10	1.12	1.09	1.15	1.11	1.13	1.10	1.16	1.11	1.17	1.12	1.18	1.14	1.18	1.09	1.13	1.07	1.12	1.09		
Case5_F3.1	Phase East Devon		50	434	690	NE138-NO13	1.09	1.07	BK345	1.05	1.04	1.04	1.03	1.05	1.03	1.04	1.04	1.05	1.03	1.09	1.07	1.08	1.06	1.08	1.05	1.05	1.03	1.04	1.04		
Case5_F4.3	Phase Norwalk Junction		50	434	690	NE138-NO13	1.29	1.24	ROCKY	1.26	1.17	1.21	1.22	1.18	1.15	1.21	1.18	1.19	1.15	1.15	1.12	1.18	1.13	1.19	1.10	1.21	1.20	1.29	1.24		
Case5_F5.3	Phase Singer		50	434	690	NE138-NO13	1.22	1.12	STONY	1.14	1.09	1.14	1.07	1.14	1.09	1.20	1.11	1.19	1.10	1.17	1.10	1.18	1.08	1.19	1.12	1.22	1.10	1.19	1.10		
Case5_F6.3	Phase Bt Norwalk 345		50	434	690	NE138-NO13	1.26	1.16	FB115	1.12	1.10	1.12	1.10	1.13	1.10	1.23	1.16	1.14	1.10	1.16	1.10	1.17	1.12	1.26	1.14	1.17	1.11	1.23	1.12		
Case5_F7.3	Phase Bt Plumtree 345		50	434	690	NE138-NO13	1.26	1.22	ROCKY	1.15	1.10	1.20	1.14	1.13	1.09	1.12	1.11	1.16	1.09	1.14	1.10	1.08	1.06	1.18	1.12	1.21	1.18	1.26	1.22		
Case5_bas	No Fault		50	434	690	LM345-PLVA	1.06	1.06	ESHOR	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.05	1.05	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.05	1.05	1.05		
Case5_F1.3	Phase Plumtree		50	434	690	LM345-PLVA	1.24	1.18	ROCKY	1.13	1.11	1.15	1.15	1.13	1.10	1.10	1.08	1.14	1.09	1.16	1.11	1.10	1.07	1.17	1.16	1.23	1.18	1.24	1.18		
Case5_F2.3	Phase East Devon		50	434	690	LM345-PLVA	1.22	1.15	ESHOR	1.15	1.12	1.13	1.10	1.16	1.11	1.09	1.07	1.16	1.12	1.19	1.14	1.22	1.15	1.17	1.11	1.17	1.09	1.16	1.11		
Case5_F3.1	Phase East Devon		50	434	690	LM345-PLVA	1.10	1.07	BK345	1.06	1.04	1.04	1.04	1.05	1.04	1.03	1.03	1.05	1.04	1.10	1.07	1.07	1.06	1.07	1.05	1.05	1.04	1.04	1.04		
Case5_F4.3	Phase Norwalk Junction		50	434	690	LM345-PLVA	1.33	1.29	ESHOR	1.24	1.23	1.22	1.29	1.17	1.12	1.21	1.11	1.17	1.12	1.14	1.11	1.33	1.19	1.22	1.13	1.18	1.22	1.23	1.23		
Case5_F5.3	Phase Singer		50	434	690	LM345-PLVA	1.29	1.14	ESHOR	1.18	1.11	1.15	1.11	1.20	1.09	1.15	1.08	1.23	1.10	1.17	1.10	1.29	1.12	1.18	1.14	1.23	1.12	1.18	1.14		
Case5_F6.3	Phase Bt Norwalk 345		50	434	690	LM345-PLVA	1.22	1.15	ROCKY	1.17	1.12	1.16	1.12	1.15	1.10	1.14	1.12	1.16	1.11	1.14	1.10	1.18	1.13	1.19	1.14	1.17	1.15	1.22	1.13		
Case5_F7.3	Phase Bt Plumtree 345		50	434	690	LM345-PLVA	1.25	1.20	ROCKY	1.13	1.12	1.17	1.14	1.13	1.11	1.11	1.09	1.14	1.10	1.16	1.11	1.09	1.07	1.18	1.14	1.25	1.17	1.25	1.20		

CASE #: Case 5 at 80% Source, ALT Load
 and future capacitors at Ansonia, Bunker Hill, Hawthorne
 DONE BY: Jack King/EnerNex

DATE: 12/14/2004
 GE 2C and 6C Windows

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		70	1382	900				1.12	1.12	FB115	1.06	1.06	1.07	1.07	1.05	1.05	1.06	1.06	1.06	1.06	1.08	1.08	1.10	1.10	1.12	1.12	1.08	1.08	1.10	1.10
Case5_F1.3	Phase Plumtree		70	1382	900				1.35	1.31	ROCKY	1.20	1.13	1.18	1.17	1.17	1.13	1.13	1.09	1.17	1.13	1.20	1.14	1.26	1.18	1.22	1.19	1.26	1.24	1.35	1.31
Case5_F2.3	Phase East Devon		70	1382	900				1.35	1.24	ROCKY	1.16	1.10	1.16	1.14	1.15	1.11	1.16	1.14	1.20	1.12	1.24	1.16	1.25	1.23	1.26	1.23	1.25	1.14	1.35	1.24
Case5_F3.1	Phase East Devon		70	1382	900				1.17	1.12	ROCKY	1.06	1.05	1.10	1.06	1.04	1.04	1.06	1.05	1.05	1.04	1.13	1.10	1.11	1.10	1.12	1.12	1.16	1.07	1.17	1.09
Case5_F4.3	Phase Norwalk Junction		70	1382	900				1.41	1.37	ROCKY	1.35	1.24	1.33	1.23	1.15	1.11	1.15	1.12	1.15	1.12	1.23	1.16	1.30	1.27	1.23	1.20	1.41	1.29	1.41	1.37
Case5_F5.3	Phase Singer		70	1382	900				1.31	1.27	ESHOR	1.19	1.15	1.17	1.16	1.17	1.16	1.15	1.13	1.23	1.18	1.19	1.15	1.31	1.27	1.25	1.18	1.21	1.15	1.25	1.17
Case5_F6.3	Phase Bt Norwalk 345		70	1382	900				1.33	1.26	ROCKY	1.18	1.12	1.17	1.15	1.18	1.12	1.14	1.14	1.20	1.12	1.25	1.18	1.30	1.26	1.23	1.18	1.32	1.18	1.33	1.22
Case5_F7.3	Phase Bt Plumtree 345		70	1382	900				1.38	1.37	ROCKY	1.15	1.12	1.19	1.16	1.11	1.12	1.13	1.11	1.12	1.12	1.21	1.16	1.26	1.20	1.20	1.17	1.28	1.28	1.38	1.37
Case5_bas	No Fault		70	1382	900	PT345-LM34	1.11	1.11	FB115	1.04	1.04	1.06	1.06	1.04	1.04	1.05	1.05	1.05	1.05	1.05	1.07	1.07	1.09	1.10	1.11	1.11	1.07	1.07	1.09	1.09	1.09
Case5_F2.3	Phase East Devon		70	1382	900	PT345-LM34	1.25	1.20	FB115	1.19	1.04	1.12	1.05	1.16	1.05	1.14	1.05	1.17	1.06	1.21	1.11	1.22	1.20	1.25	1.19	1.19	1.09	1.19	1.09	1.24	1.14
Case5_F3.1	Phase East Devon		70	1382	900	PT345-LM34	1.12	1.10	BK345	1.01	1.00	1.03	1.02	1.01	1.00	1.01	1.01	1.01	1.01	1.12	1.09	1.08	1.07	1.10	1.10	1.04	1.03	1.07	1.06		
Case5_F4.3	Phase Norwalk Junction		70	1382	900	PT345-LM34	1.43	1.38	STONY	1.36	1.25	1.28	1.24	1.15	1.11	1.19	1.14	1.15	1.10	1.21	1.14	1.28	1.20	1.22	1.22	1.43	1.38	1.39	1.29		
Case5_F5.3	Phase Singer		70	1382	900	PT345-LM34	1.31	1.21	ESHOR	1.24	1.13	1.20	1.15	1.16	1.14	1.13	1.12	1.22	1.16	1.18	1.13	1.31	1.21	1.20	1.17	1.25	1.20	1.21	1.15		
Case5_F6.3	Phase Bt Norwalk 345		70	1382	900	PT345-LM34	1.30	1.20	ESHOR	1.20	1.12	1.16	1.13	1.20	1.12	1.14	1.13	1.20	1.13	1.22	1.13	1.30	1.20	1.20	1.16	1.25	1.17	1.25	1.17		
Case5_F7.3	Phase Bt Plumtree 345		70	1382	900	PT345-LM34	1.32	1.30	ROCKY	1.16	1.14	1.18	1.17	1.14	1.12	1.12	1.08	1.14	1.13	1.14	1.11	1.23	1.17	1.16	1.14	1.28	1.23	1.32	1.30		
Case5_bas	No Fault		70	1382	900	BK345-ED34	1.12	1.12	FB115	1.04	1.04	1.06	1.06	1.04	1.04	1.05	1.05	1.04	1.04	1.09	1.09	1.10	1.10	1.12	1.12	1.07	1.07	1.09	1.09	1.09	
Case5_F1.3	Phase Plumtree		70	1382	900	BK345-ED34	1.26	1.22	ROCKY	1.16	1.08	1.16	1.09	1.15	1.07	1.11	1.03	1.17	1.07	1.20	1.14	1.21	1.12	1.20	1.18	1.20	1.16	1.26	1.22		
Case5_F4.3	Phase Norwalk Junction		70	1382	900	BK345-ED34	1.49	1.40	ROCKY	1.25	1.22	1.26	1.23	1.18	1.07	1.17	1.12	1.19	1.07	1.18	1.15	1.25	1.17	1.24	1.18	1.37	1.29	1.49	1.40		
Case5_F5.3	Phase Singer		70	1382	900	BK345-ED34	1.27	1.19	ESHOR	1.18	1.10	1.14	1.13	1.19	1.10	1.14	1.11	1.25	1.12	1.18	1.13	1.27	1.19	1.16	1.14	1.15	1.14	1.22	1.11		
Case5_F6.3	Phase Bt Norwalk 345		70	1382	900	BK345-ED34	1.28	1.19	ESHOR	1.14	1.09	1.14	1.13	1.13	1.10	1.15	1.13	1.15	1.10	1.18	1.13	1.28	1.19	1.17	1.16	1.18	1.13	1.22	1.17		
Case5_F7.3	Phase Bt Plumtree 345		70	1382	900	BK345-ED34	1.35	1.27	ROCKY	1.18	1.13	1.15	1.15	1.15	1.12	1.13	1.09	1.17	1.13	1.18	1.15	1.26	1.18	1.20	1.18	1.26	1.22	1.35	1.27		
Case5_bas	No Fault		70	1382	900	NE138-NO13	1.10	1.10	FB115	1.04	1.04	1.06	1.06	1.04	1.04	1.06	1.06	1.04	1.04	1.06	1.06	1.08	1.08	1.10	1.10	1.06	1.06	1.08	1.08		
Case5_F1.3	Phase Plumtree		70	1382	900	NE138-NO13	1.27	1.22	ROCKY	1.12	1.07	1.16	1.10	1.12	1.06	1.11	1.05	1.12	1.06	1.16	1.08	1.15	1.08	1.16	1.13	1.20	1.19	1.27	1.22		
Case5_F2.3	Phase East Devon		70	1382	900	NE138-NO13	1.28	1.19	ROCKY	1.19	1.07	1.13	1.09	1.16	1.08	1.19	1.12	1.16	1.08	1.24	1.12	1.20	1.19	1.25	1.18	1.17	1.12	1.28	1.18		
Case5_F3.1	Phase East Devon		70	1382	900	NE138-NO13	1.12	1.09	STONY	1.04	1.02	1.06	1.04	1.02	1.01	1.04	1.04	1.02	1.01	1.10	1.07	1.10	1.08	1.10	1.09	1.12	1.05	1.11	1.07		
Case5_F4.3	Phase Norwalk Junction		70	1382	900	NE138-NO13	1.50	1.43	ROCKY	1.33	1.21	1.25	1.22	1.18	1.13	1.17	1.14	1.19	1.13	1.19	1.16	1.28	1.23	1.23	1.19	1.36	1.35	1.50	1.43		
Case5_F5.3	Phase Singer		70	1382	900	NE138-NO13	1.30	1.27	PT345	1.30	1.14	1.18	1.15	1.25	1.17	1.20	1.17	1.27	1.19	1.21	1.15	1.28	1.27	1.24	1.19	1.26	1.15	1.26	1.13		
Case5_F6.3	Phase Bt Norwalk 345		70	1382	900	NE138-NO13	1.33	1.25	ROCKY	1.20	1.11	1.18	1.13	1.24	1.13	1.19	1.15	1.25	1.13	1.26	1.15	1.28	1.25	1.22	1.18	1.23	1.14	1.33	1.20		
Case5_F7.3	Phase Bt Plumtree 345		70	1382	900	NE138-NO13	1.37	1.31	ROCKY	1.17	1.13	1.24	1.17	1.16	1.12	1.19	1.14	1.18	1.12	1.17	1.12	1.25	1.19	1.22	1.18	1.29	1.26	1.37	1.31		
Case5_bas	No Fault		70	1382	900	LM345-PLVA	1.11	1.11	FB115	1.06	1.06	1.07	1.07	1.05	1.05	1.05	1.05	1.05	1.05	1.07	1.07	1.09	1.09	1.11	1.11	1.07	1.07	1.09	1.09		
Case5_F1.3	Phase Plumtree		70	1382	900	LM345-PLVA	1.38	1.27	ROCKY	1.22	1.14	1.20	1.17	1.19	1.13	1.13	1.08	1.20	1.14	1.22	1.14	1.26	1.21	1.23	1.19	1.27	1.22	1.38	1.27		
Case5_F2.3	Phase East Devon		70	1382	900	LM345-PLVA	1.32	1.25	ROCKY	1.20	1.10	1.17	1.11	1.22	1.12	1.16	1.09	1.22	1.12	1.25	1.13	1.25	1.19	1.25	1.20	1.25	1.14	1.32	1.25		
Case5_F3.1	Phase East Devon		70	1382	900	LM345-PLVA	1.10	1.10	BK345	1.06	1.04	1.06	1.05	1.04	1.03	1.04	1.03	1.04	1.03	1.10	1.08	1.08	1.10	1.10	1.08	1.06	1.10	1.08			
Case5_F4.3	Phase Norwalk Junction		70	1382	900	LM345-PLVA	1.56	1.53	ROCKY	1.33	1.27	1.28	1.29	1.18	1.12	1.17	1.13	1.19	1.12	1.23	1.17	1.33	1.27	1.25	1.23	1.36	1.33	1.56	1.53		
Case5_F5.3	Phase Singer		70	1382	900	LM345-PLVA	1.40	1.26	ROCKY	1.27	1.16	1.25	1.16	1.24	1.18	1.16	1.11	1.26	1.19	1.22	1.14	1.33	1.26	1.25	1.20	1.26	1.24	1.40	1.24		
Case5_F6.3	Phase Bt Norwalk 345		70	1382	900	LM345-PLVA	1.32	1.23	ROCKY	1.25	1.14	1.23	1.14	1.23	1.14	1.15	1.11	1.23	1.14	1.24	1.14	1.31	1.23	1.24	1.20	1.28	1.23	1.32	1.22		
Case5_F7.3	Phase Bt Plumtree 345		70	1382	900	LM345-PLVA	1.33	1.28	ROCKY	1.20	1.15	1.23	1.19	1.19	1.14	1.15	1.10	1.20	1.13	1.23	1.15	1.27	1.20	1.21	1.18	1.31	1.24	1.33	1.28		

CASE #: Case 5 with Ansonia, Bunker Hill and Hawthorne Banks, 90% Source
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

DATE: 12/13/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C
Case5_basNo Fault			40	0	500				1.03	1.03	ED345	1.02	1.02	1.02	1.02	1.03	1.03	1.02	1.02	1.03	1.03	1.02	1.02	1.02	1.02	1.01	1.01	1.01	1.01	1.01	1.01	
Case5_F1.3 Phase		Plumtree	40	0	500				1.30	1.20	ED345	1.26	1.20	1.27	1.19	1.28	1.20	1.20	1.14	1.30	1.19	1.14	1.06	1.15	1.08	1.11	1.05	1.24	1.17	1.19	1.17	
Case5_F2.3 Phase		East Devon	40	0	500				1.46	1.30	ED345	1.42	1.29	1.37	1.21	1.44	1.30	1.32	1.18	1.46	1.29	1.14	1.06	1.18	1.13	1.16	1.11	1.33	1.21	1.27	1.17	
Case5_F3.1 Phase		East Devon	40	0	500				1.04	1.03	BK345	1.02	1.02	1.01	1.01	1.04	1.03	1.02	1.02	1.04	1.03	1.04	1.02	1.02	1.02	1.01	1.00	1.01	1.01	1.01	1.00	
Case5_F4.3 Phase		Norwalk Junction	40	0	500				1.43	1.39	ED345	1.25	1.19	1.23	1.18	1.43	1.39	1.30	1.27	1.43	1.38	1.23	1.19	1.23	1.22	1.15	1.14	1.23	1.18	1.22	1.16	
Case5_F5.3 Phase		Singer	40	0	500				1.39	1.35	ED345	1.36	1.29	1.30	1.27	1.37	1.34	1.30	1.25	1.39	1.35	1.21	1.18	1.25	1.20	1.15	1.13	1.29	1.24	1.28	1.20	
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500				1.40	1.34	NW345	1.35	1.31	1.30	1.24	1.40	1.34	1.28	1.26	1.40	1.33	1.22	1.18	1.24	1.18	1.17	1.12	1.30	1.22	1.24	1.23	
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500				1.27	1.22	PT115	1.23	1.19	1.27	1.22	1.26	1.20	1.20	1.15	1.24	1.21	1.13	1.11	1.17	1.13	1.11	1.09	1.24	1.21	1.20	1.16	
Case5_basNo Fault			40	0	500	PT345-LM34	1.03	1.03	ED345	1.03	1.03	1.02	1.02	1.03	1.03	1.02	1.02	1.03	1.03	1.02	1.02	1.02	1.02	1.02	1.01	1.00	1.02	1.02	1.01	1.01	1.01	
Case5_F2.3 Phase		East Devon	40	0	500	PT345-LM34	1.31	1.11	ED345	1.30	1.11	1.29	1.06	1.31	1.08	1.19	1.02	1.31	1.08	1.06	1.02	1.04	1.02	1.05	1.01	1.23	1.06	1.13	1.03	1.03	1.03	
Case5_F3.1 Phase		East Devon	40	0	500	PT345-LM34	1.05	1.03	ED345	1.04	1.03	1.02	1.02	1.05	1.03	1.03	1.02	1.05	1.03	1.03	1.03	1.02	1.03	1.02	1.01	1.00	1.02	1.01	1.02	1.01	1.02	1.00
Case5_F4.3 Phase		Norwalk Junction	40	0	500	PT345-LM34	1.43	1.36	NW345	1.23	1.23	1.22	1.23	1.43	1.36	1.26	1.25	1.41	1.35	1.20	1.17	1.22	1.16	1.09	1.10	1.20	1.19	1.18	1.18	1.16	1.16	
Case5_F5.3 Phase		Singer	40	0	500	PT345-LM34	1.44	1.36	ED345	1.43	1.36	1.37	1.30	1.44	1.36	1.33	1.22	1.44	1.34	1.23	1.15	1.24	1.17	1.15	1.10	1.33	1.27	1.27	1.20	1.20	1.20	
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	PT345-LM34	1.57	1.39	NW345	1.47	1.34	1.45	1.30	1.57	1.38	1.41	1.23	1.55	1.39	1.27	1.14	1.32	1.16	1.17	1.07	1.44	1.30	1.31	1.24	1.24		
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	PT345-LM34	1.27	1.20	PT345	1.27	1.19	1.25	1.19	1.27	1.20	1.18	1.16	1.26	1.20	1.12	1.06	1.14	1.10	1.10	1.07	1.23	1.17	1.19	1.15	1.15	1.15	
Case5_basNo Fault			40	0	500	BK345-ED34	1.03	1.03	ED345	1.02	1.02	1.01	1.01	1.02	1.02	1.02	1.02	1.03	1.03	1.02	1.02	1.02	1.02	1.00	1.00	1.01	1.01	1.00	1.00	1.00	1.00	
Case5_F1.3 Phase		Plumtree	40	0	500	BK345-ED34	1.21	1.07	ED345	1.17	1.07	1.12	1.06	1.21	1.05	1.11	1.02	1.21	1.06	1.06	1.03	1.03	1.03	1.07	1.03	1.10	1.05	1.08	1.05	1.08	1.05	
Case5_F4.3 Phase		Norwalk Junction	40	0	500	BK345-ED34	1.58	1.34	NW345	1.15	1.08	1.13	1.11	1.58	1.33	1.30	1.17	1.58	1.34	1.05	1.05	1.19	1.07	1.05	1.01	1.12	1.10	1.13	1.07	1.07		
Case5_F5.3 Phase		Singer	40	0	500	BK345-ED34	1.42	1.33	ED345	1.38	1.32	1.26	1.25	1.39	1.32	1.26	1.22	1.42	1.33	1.09	1.07	1.16	1.12	1.12	1.10	1.24	1.23	1.22	1.20	1.20		
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	BK345-ED34	1.49	1.33	ED345	1.40	1.31	1.35	1.24	1.48	1.32	1.36	1.22	1.49	1.33	1.10	1.06	1.19	1.11	1.15	1.09	1.33	1.24	1.33	1.20	1.20		
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	BK345-ED34	1.33	1.25	ED345	1.26	1.17	1.27	1.17	1.32	1.24	1.19	1.17	1.33	1.25	1.07	1.04	1.10	1.09	1.10	1.06	1.24	1.17	1.21	1.16	1.16		
Case5_basNo Fault			40	0	500	NE138-NO13	1.02	1.02	ED345	1.01	1.01	1.01	1.01	1.02	1.02	1.01	1.01	1.02	1.02	1.02	1.02	1.02	1.02	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Case5_F1.3 Phase		Plumtree	40	0	500	NE138-NO13	1.15	1.15	STONY	1.15	1.05	1.14	1.15	1.13	1.06	1.12	1.04	1.13	1.07	1.09	1.03	1.02	1.02	1.06	1.02	1.15	1.13	1.14	1.15	1.15		
Case5_F2.3 Phase		East Devon	40	0	500	NE138-NO13	1.29	1.15	ED345	1.23	1.11	1.21	1.14	1.28	1.12	1.24	1.12	1.29	1.12	1.07	1.02	1.08	1.03	1.06	1.03	1.20	1.15	1.16	1.11	1.11		
Case5_F3.1 Phase		East Devon	40	0	500	NE138-NO13	1.03	1.01	BK345	1.01	1.01	1.01	1.00	1.02	1.01	1.01	1.01	1.02	1.01	1.03	1.01	1.01	1.01	1.01	1.00	0.99	1.01	1.00	1.00	0.99		
Case5_F4.3 Phase		Norwalk Junction	40	0	500	NE138-NO13	1.28	1.22	NW345	1.16	1.09	1.14	1.09	1.28	1.22	1.25	1.18	1.28	1.22	1.15	1.08	1.14	1.09	1.09	1.07	1.16	1.08	1.15	1.11	1.11		
Case5_F5.3 Phase		Singer	40	0	500	NE138-NO13	1.29	1.24	ED345	1.27	1.23	1.28	1.18	1.29	1.24	1.27	1.22	1.29	1.23	1.17	1.10	1.17	1.12	1.14	1.09	1.27	1.18	1.24	1.15	1.15		
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	NE138-NO13	1.32	1.23	PT115	1.27	1.23	1.32	1.18	1.30	1.23	1.26	1.23	1.31	1.22	1.16	1.11	1.17	1.09	1.11	1.07	1.28	1.17	1.27	1.15	1.15		
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	NE138-NO13	1.23	1.16	PT115	1.19	1.12	1.23	1.14	1.18	1.13	1.17	1.11	1.20	1.16	1.10	1.05	1.10	1.06	1.08	1.05	1.22	1.15	1.19	1.15	1.15		
Case5_basNo Fault			40	0	500	LM345-PLVA	1.03	1.03	ED345	1.03	1.03	1.02	1.02	1.03	1.03	1.02	1.02	1.03	1.03	1.02	1.02	1.02	1.01	1.01	1.02	1.02	1.01	1.01	1.01	1.01		
Case5_F1.3 Phase		Plumtree	40	0	500	LM345-PLVA	1.31	1.21	NW345	1.30	1.19	1.26	1.20	1.31	1.21	1.18	1.15	1.31	1.20	1.14	1.08	1.19	1.11	1.14	1.08	1.23	1.18	1.21	1.18	1.18		
Case5_F2.3 Phase		East Devon	40	0	500	LM345-PLVA	1.43	1.20	ED345	1.34	1.19	1.39	1.15	1.40	1.19	1.29	1.13	1.43	1.20	1.14	1.03	1.20	1.08	1.16	1.03	1.35	1.15	1.29	1.11	1.11		
Case5_F3.1 Phase		East Devon	40	0	500	LM345-PLVA	1.04	1.03	ED345	1.03	1.03	1.02	1.02	1.03	1.03	1.02	1.02	1.04	1.03	1.03	1.02	1.02	1.02	1.01	1.00	1.02	1.01	1.02	1.01	1.01		
Case5_F4.3 Phase		Norwalk Junction	40	0	500	LM345-PLVA	1.45	1.37	NW345	1.23	1.21	1.22	1.17	1.45	1.37	1.30	1.25	1.44	1.37	1.22	1.17	1.22	1.18	1.15	1.12	1.25	1.18	1.22	1.19	1.19		
Case5_F5.3 Phase		Singer	40	0	500	LM345-PLVA	1.44	1.34	ED345	1.39	1.33	1.35	1.30	1.43	1.34	1.33	1.21	1.44	1.33	1.25	1.17	1.28	1.18	1.20	1.13	1.35	1.28	1.32	1.24	1.24		
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	LM345-PLVA	1.51	1.34	NW345	1.46	1.31	1.34	1.26	1.51	1.33	1.41	1.20	1.50	1.34	1.28	1.16	1.33	1.17	1.22	1.13	1.31	1.26	1.29	1.24	1.24		
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	LM345-PLVA	1.30	1.21	NW345	1.28	1.19	1.25	1.18	1.30	1.21	1.18	1.15	1.29	1.21	1.15	1.09	1.18	1.14	1.13	1.10	1.23	1.17	1.19	1.14	1.14		

CASE #: Case 5 with Ansonia, Bunker Hill and Hawthorne Banks, 90% Source
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

DATE: 12/13/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		50	434	690				1.07	1.07	ESHOR	1.06	1.06	1.06	1.06	1.06	1.06	1.05	1.05	1.06	1.06	1.07	1.07	1.07	1.07	1.07	1.07	1.06	1.06	1.06	1.06
Case5_F1_3	Phase Plumtree		50	434	690				1.28	1.25	PT115	1.28	1.16	1.28	1.21	1.24	1.15	1.19	1.12	1.23	1.14	1.14	1.12	1.18	1.10	1.21	1.16	1.28	1.25	1.27	1.21
Case5_F2_3	Phase East Devon		50	434	690				1.43	1.29	ED345	1.34	1.21	1.29	1.25	1.42	1.27	1.34	1.24	1.43	1.29	1.18	1.13	1.26	1.17	1.23	1.20	1.27	1.20	1.23	1.17
Case5_F3_1	Phase East Devon		50	434	690				1.11	1.08	BK345	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.05	1.05	1.11	1.08	1.07	1.07	1.07	1.06	1.05	1.05	1.06	1.05
Case5_F4_3	Phase Norwalk Junction		50	434	690				1.43	1.35	NW345	1.25	1.18	1.23	1.20	1.43	1.35	1.33	1.31	1.43	1.35	1.27	1.20	1.31	1.22	1.30	1.29	1.32	1.34	1.22	1.21
Case5_F5_3	Phase Singer		50	434	690				1.44	1.34	ED345	1.36	1.30	1.30	1.28	1.40	1.31	1.33	1.32	1.44	1.34	1.33	1.26	1.33	1.26	1.32	1.29	1.30	1.27	1.28	1.27
Case5_F6_3	Phase Bt Norwalk 345		50	434	690				1.42	1.32	ED345	1.34	1.27	1.36	1.24	1.41	1.32	1.32	1.28	1.42	1.32	1.32	1.22	1.33	1.21	1.33	1.28	1.27	1.23	1.28	1.20
Case5_F7_3	Phase Bt Plumtree 345		50	434	690				1.27	1.29	PT115	1.23	1.20	1.27	1.29	1.23	1.18	1.23	1.19	1.25	1.17	1.18	1.13	1.17	1.14	1.24	1.22	1.27	1.27	1.24	1.25
Case5_bas	No Fault		50	434	690	PT345-LM34	1.07	1.07	ESHOR	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.06	1.06	1.07	1.07	1.06	1.06	1.05	1.05	1.05	1.05
Case5_F2_3	Phase East Devon		50	434	690	PT345-LM34	1.26	1.13	NW345	1.25	1.04	1.16	1.08	1.26	1.07	1.09	1.05	1.25	1.06	1.16	1.13	1.07	1.09	1.07	1.07	1.07	1.25	1.09	1.12	1.07	1.07
Case5_F3_1	Phase East Devon		50	434	690	PT345-LM34	1.10	1.08	BK345	1.04	1.02	1.02	1.02	1.03	1.03	1.03	1.02	1.03	1.03	1.03	1.10	1.08	1.06	1.06	1.07	1.06	1.03	1.03	1.04	1.03	1.04
Case5_F4_3	Phase Norwalk Junction		50	434	690	PT345-LM34	1.40	1.32	NW345	1.27	1.22	1.24	1.21	1.40	1.32	1.26	1.28	1.39	1.31	1.23	1.14	1.23	1.16	1.18	1.12	1.24	1.22	1.18	1.16	1.19	1.16
Case5_F5_3	Phase Singer		50	434	690	PT345-LM34	1.44	1.29	ED345	1.43	1.29	1.39	1.22	1.43	1.29	1.35	1.27	1.44	1.29	1.24	1.16	1.25	1.17	1.18	1.16	1.16	1.33	1.24	1.26	1.19	1.16
Case5_F6_3	Phase Bt Norwalk 345		50	434	690	PT345-LM34	1.46	1.26	ED345	1.43	1.25	1.44	1.22	1.44	1.26	1.35	1.19	1.46	1.26	1.24	1.12	1.25	1.11	1.16	1.12	1.41	1.17	1.30	1.16	1.16	1.16
Case5_F7_3	Phase Bt Plumtree 345		50	434	690	PT345-LM34	1.26	1.19	STONY	1.26	1.13	1.24	1.19	1.19	1.12	1.13	1.10	1.19	1.12	1.11	1.08	1.09	1.07	1.10	1.08	1.26	1.18	1.18	1.13	1.13	
Case5_bas	No Fault		50	434	690	BK345-ED34	1.07	1.07	BK345	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.07	1.07	1.07	1.07	1.06	1.06	1.05	1.05	1.05	1.05
Case5_F1_3	Phase Plumtree		50	434	690	BK345-ED34	1.17	1.11	STONY	1.15	1.04	1.12	1.09	1.17	1.07	1.08	1.02	1.17	1.07	1.15	1.11	1.07	1.07	1.15	1.08	1.17	1.11	1.13	1.10	1.10	
Case5_F4_3	Phase Norwalk Junction		50	434	690	BK345-ED34	1.53	1.27	NW345	1.17	1.13	1.12	1.10	1.53	1.27	1.30	1.17	1.52	1.27	1.11	1.10	1.12	1.07	1.16	1.16	1.24	1.23	1.12	1.12	1.12	
Case5_F5_3	Phase Singer		50	434	690	BK345-ED34	1.45	1.33	ED345	1.36	1.24	1.28	1.26	1.43	1.31	1.31	1.27	1.45	1.33	1.20	1.13	1.22	1.17	1.20	1.17	1.34	1.26	1.23	1.23	1.23	
Case5_F6_3	Phase Bt Norwalk 345		50	434	690	BK345-ED34	1.48	1.30	ED345	1.35	1.20	1.30	1.21	1.48	1.29	1.36	1.25	1.48	1.30	1.13	1.09	1.19	1.11	1.21	1.15	1.33	1.24	1.23	1.17	1.17	
Case5_F7_3	Phase Bt Plumtree 345		50	434	690	BK345-ED34	1.29	1.24	NW345	1.27	1.16	1.27	1.24	1.29	1.19	1.22	1.17	1.28	1.20	1.13	1.11	1.11	1.07	1.20	1.16	1.29	1.21	1.24	1.19	1.19	
Case5_bas	No Fault		50	434	690	NE138-NO13	1.07	1.07	ESHOR	1.05	1.05	1.05	1.05	1.05	1.05	1.06	1.06	1.05	1.05	1.05	1.06	1.06	1.07	1.07	1.06	1.06	1.05	1.05	1.05	1.05	
Case5_F1_3	Phase Plumtree		50	434	690	NE138-NO13	1.20	1.14	FB115	1.09	1.04	1.17	1.11	1.10	1.03	1.08	1.04	1.10	1.03	1.13	1.09	1.07	1.07	1.20	1.11	1.18	1.14	1.15	1.10	1.10	
Case5_F2_3	Phase East Devon		50	434	690	NE138-NO13	1.22	1.15	NW345	1.18	1.06	1.16	1.15	1.22	1.10	1.17	1.11	1.22	1.11	1.21	1.14	1.11	1.08	1.15	1.14	1.17	1.11	1.11	1.11	1.10	
Case5_F3_1	Phase East Devon		50	434	690	NE138-NO13	1.09	1.08	BK345	1.05	1.04	1.05	1.04	1.05	1.04	1.05	1.05	1.05	1.04	1.09	1.08	1.06	1.06	1.06	1.06	1.05	1.04	1.05	1.04	1.04	
Case5_F4_3	Phase Norwalk Junction		50	434	690	NE138-NO13	1.30	1.25	STONY	1.21	1.16	1.18	1.17	1.28	1.19	1.27	1.24	1.27	1.18	1.18	1.09	1.18	1.09	1.27	1.25	1.30	1.24	1.16	1.15	1.15	
Case5_F5_3	Phase Singer		50	434	690	NE138-NO13	1.36	1.31	NW115	1.29	1.20	1.23	1.20	1.33	1.25	1.36	1.31	1.34	1.25	1.22	1.16	1.24	1.15	1.24	1.20	1.25	1.20	1.21	1.19	1.19	
Case5_F6_3	Phase Bt Norwalk 345		50	434	690	NE138-NO13	1.32	1.26	NW115	1.25	1.14	1.21	1.18	1.30	1.21	1.32	1.26	1.29	1.21	1.20	1.11	1.23	1.10	1.22	1.18	1.21	1.19	1.17	1.15	1.15	
Case5_F7_3	Phase Bt Plumtree 345		50	434	690	NE138-NO13	1.30	1.24	STONY	1.22	1.13	1.27	1.24	1.17	1.12	1.15	1.15	1.20	1.12	1.11	1.09	1.14	1.09	1.20	1.21	1.30	1.21	1.24	1.19	1.19	
Case5_bas	No Fault		50	434	690	LM345-PLVA	1.07	1.07	ESHOR	1.06	1.06	1.05	1.05	1.06	1.06	1.05	1.05	1.06	1.06	1.06	1.06	1.06	1.07	1.07	1.06	1.06	1.05	1.05	1.05	1.05	
Case5_F1_3	Phase Plumtree		50	434	690	LM345-PLVA	1.33	1.24	STONY	1.26	1.12	1.28	1.18	1.22	1.12	1.15	1.10	1.21	1.12	1.12	1.11	1.15	1.08	1.24	1.24	1.33	1.21	1.23	1.18	1.18	
Case5_F2_3	Phase East Devon		50	434	690	LM345-PLVA	1.32	1.14	ED345	1.25	1.10	1.21	1.14	1.31	1.13	1.17	1.10	1.32	1.13	1.14	1.13	1.20	1.08	1.20	1.12	1.26	1.14	1.24	1.09	1.09	
Case5_F3_1	Phase East Devon		50	434	690	LM345-PLVA	1.09	1.07	BK345	1.05	1.04	1.05	1.04	1.05	1.04	1.04	1.04	1.05	1.05	1.09	1.07	1.06	1.06	1.05	1.05	1.04	1.04	1.04	1.04	1.04	
Case5_F4_3	Phase Norwalk Junction		50	434	690	LM345-PLVA	1.45	1.30	FB115	1.28	1.24	1.29	1.22	1.36	1.30	1.31	1.25	1.36	1.30	1.28	1.20	1.32	1.20	1.45	1.29	1.37	1.27	1.29	1.26	1.26	
Case5_F5_3	Phase Singer		50	434	690	LM345-PLVA	1.41	1.32	ED345	1.41	1.26	1.30	1.20	1.41	1.28	1.33	1.25	1.41	1.28	1.28	1.17	1.35	1.20	1.36	1.32	1.26	1.19	1.28	1.24	1.24	
Case5_F6_3	Phase Bt Norwalk 345		50	434	690	LM345-PLVA	1.40	1.26	NW345	1.35	1.21	1.35	1.18	1.40	1.23	1.32	1.17	1.40	1.24	1.26	1.13	1.33	1.14	1.38	1.26	1.29	1.15	1.32	1.18	1.18	
Case5_F7_3	Phase Bt Plumtree 345		50	434	690	LM345-PLVA	1.32	1.24	STONY	1.27	1.14	1.27	1.20	1.23	1.14	1.17	1.11	1.24	1.13	1.12	1.11	1.16	1.11	1.27	1.24	1.32	1.21	1.25	1.19	1.19	

CASE #: Case 5 with Ansonia, Bunker Hill and Hawthorne Banks, 90% Source
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

DATE: 12/13/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																										
										LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY	
																	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		70	1382	900				1.13	1.13	FB115	1.06	1.06	1.08	1.08	1.06	1.06	1.07	1.07	1.06	1.06	1.08	1.08	1.11	1.11	1.13	1.13	1.09	1.09	1.11	1.11					
Case5_F1.3	Phase Plumtree		70	1382	900				1.48	1.43	ROCKY	1.20	1.12	1.26	1.24	1.12	1.07	1.19	1.07	1.12	1.08	1.18	1.11	1.09	1.09	1.19	1.18	1.19	1.21	1.48	1.43					
Case5_F2.3	Phase East Devon		70	1382	900				1.49	1.36	ROCKY	1.16	1.12	1.20	1.13	1.23	1.13	1.23	1.14	1.25	1.13	1.20	1.17	1.20	1.11	1.25	1.17	1.21	1.13	1.49	1.36					
Case5_F3.1	Phase East Devon		70	1382	900				1.14	1.12	BK345	1.06	1.05	1.07	1.07	1.05	1.04	1.06	1.05	1.05	1.05	1.14	1.10	1.10	1.10	1.12	1.12	1.08	1.07	1.10	1.10					
Case5_F4.3	Phase Norwalk Junction		70	1382	900				1.51	1.44	ROCKY	1.26	1.15	1.23	1.17	1.22	1.13	1.23	1.20	1.21	1.13	1.19	1.12	1.23	1.15	1.29	1.21	1.19	1.18	1.51	1.44					
Case5_F5.3	Phase Singer		70	1382	900				1.57	1.39	ROCKY	1.23	1.13	1.23	1.19	1.22	1.13	1.25	1.20	1.31	1.16	1.19	1.11	1.28	1.14	1.37	1.28	1.25	1.22	1.57	1.39					
Case5_F6.3	Phase Bt Norwalk 345		70	1382	900				1.46	1.37	ROCKY	1.25	1.13	1.24	1.22	1.21	1.12	1.20	1.15	1.21	1.14	1.21	1.12	1.24	1.09	1.32	1.24	1.25	1.24	1.46	1.37					
Case5_F7.3	Phase Bt Plumtree 345		70	1382	900				1.58	1.55	ROCKY	1.17	1.16	1.25	1.21	1.15	1.12	1.18	1.12	1.17	1.13	1.19	1.11	1.11	1.09	1.18	1.18	1.22	1.17	1.58	1.55					
Case5_bas	No Fault		70	1382	900	PT345-LM34	1.12	1.12	FB115	1.05	1.05	1.07	1.07	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.08	1.08	1.10	1.10	1.12	1.12	1.07	1.07	1.09	1.09					
Case5_F2.3	Phase East Devon		70	1382	900	PT345-LM34	1.28	1.15	ROCKY	1.08	1.02	1.08	1.03	1.09	1.02	1.09	1.03	1.10	1.03	1.19	1.15	1.11	1.10	1.14	1.15	1.12	1.06	1.28	1.14							
Case5_F3.1	Phase East Devon		70	1382	900	PT345-LM34	1.14	1.11	BK345	1.01	1.01	1.03	1.03	1.02	1.01	1.02	1.02	1.02	1.01	1.14	1.10	1.09	1.08	1.11	1.11	1.04	1.04	1.07	1.07							
Case5_F4.3	Phase Norwalk Junction		70	1382	900	PT345-LM34	1.78	1.49	ROCKY	1.33	1.17	1.19	1.15	1.14	1.13	1.14	1.14	1.15	1.13	1.15	1.11	1.11	1.08	1.24	1.19	1.16	1.16	1.78	1.49							
Case5_F5.3	Phase Singer		70	1382	900	PT345-LM34	1.49	1.33	ROCKY	1.21	1.16	1.26	1.17	1.16	1.13	1.20	1.10	1.20	1.13	1.17	1.11	1.17	1.08	1.25	1.18	1.25	1.18	1.49	1.33							
Case5_F6.3	Phase Bt Norwalk 345		70	1382	900	PT345-LM34	1.45	1.38	ROCKY	1.28	1.16	1.25	1.22	1.17	1.12	1.15	1.10	1.18	1.13	1.16	1.10	1.13	1.08	1.25	1.15	1.26	1.24	1.45	1.38							
Case5_F7.3	Phase Bt Plumtree 345		70	1382	900	PT345-LM34	1.50	1.40	ROCKY	1.18	1.14	1.19	1.17	1.15	1.07	1.11	1.10	1.17	1.08	1.11	1.09	1.09	1.09	1.14	1.13	1.19	1.21	1.50	1.40							
Case5_bas	No Fault		70	1382	900	BK345-ED34	1.12	1.12	FB115	1.05	1.05	1.07	1.07	1.04	1.04	1.05	1.05	1.04	1.04	1.09	1.09	1.10	1.10	1.12	1.12	1.07	1.07	1.10	1.10							
Case5_F1.3	Phase Plumtree		70	1382	900	BK345-ED34	1.41	1.42	ROCKY	1.12	1.05	1.22	1.12	1.05	1.03	1.05	1.03	1.06	1.03	1.22	1.15	1.10	1.10	1.18	1.19	1.14	1.41	1.42								
Case5_F4.3	Phase Norwalk Junction		70	1382	900	BK345-ED34	1.36	1.33	ROCKY	1.15	1.12	1.19	1.11	1.20	1.08	1.21	1.10	1.20	1.08	1.13	1.12	1.09	1.09	1.20	1.21	1.17	1.19	1.36	1.33							
Case5_F5.3	Phase Singer		70	1382	900	BK345-ED34	1.40	1.27	ROCKY	1.23	1.15	1.24	1.18	1.17	1.15	1.17	1.13	1.20	1.16	1.14	1.12	1.16	1.09	1.24	1.20	1.23	1.18	1.40	1.27							
Case5_F6.3	Phase Bt Norwalk 345		70	1382	900	BK345-ED34	1.44	1.25	ROCKY	1.23	1.15	1.28	1.19	1.18	1.14	1.22	1.14	1.19	1.15	1.14	1.12	1.15	1.09	1.25	1.17	1.29	1.20	1.44	1.25							
Case5_F7.3	Phase Bt Plumtree 345		70	1382	900	BK345-ED34	1.51	1.47	ROCKY	1.18	1.12	1.24	1.24	1.16	1.09	1.17	1.09	1.18	1.10	1.16	1.12	1.10	1.09	1.18	1.16	1.18	1.20	1.51	1.47							
Case5_bas	No Fault		70	1382	900	NE138-NO13	1.12	1.12	FB115	1.05	1.05	1.07	1.07	1.05	1.05	1.08	1.08	1.05	1.05	1.07	1.07	1.10	1.10	1.12	1.12	1.08	1.08	1.10	1.10							
Case5_F1.3	Phase Plumtree		70	1382	900	NE138-NO13	1.37	1.41	ROCKY	1.15	1.04	1.17	1.12	1.05	1.05	1.11	1.07	1.06	1.05	1.11	1.08	1.08	1.08	1.13	1.12	1.15	1.13	1.37	1.41							
Case5_F2.3	Phase East Devon		70	1382	900	NE138-NO13	1.36	1.17	ROCKY	1.09	1.05	1.11	1.07	1.05	1.04	1.15	1.09	1.06	1.05	1.20	1.13	1.13	1.12	1.11	1.10	1.10	1.11	1.36	1.17							
Case5_F3.1	Phase East Devon		70	1382	900	NE138-NO13	1.12	1.11	BK345	1.05	1.03	1.06	1.05	1.03	1.03	1.06	1.06	1.04	1.03	1.12	1.10	1.09	1.09	1.11	1.11	1.07	1.06	1.09	1.08							
Case5_F4.3	Phase Norwalk Junction		70	1382	900	NE138-NO13	1.56	1.47	ROCKY	1.28	1.14	1.20	1.15	1.08	1.10	1.17	1.14	1.08	1.09	1.18	1.10	1.11	1.10	1.15	1.11	1.21	1.18	1.56	1.47							
Case5_F5.3	Phase Singer		70	1382	900	NE138-NO13	1.36	1.26	ROCKY	1.18	1.10	1.14	1.10	1.13	1.07	1.21	1.12	1.20	1.10	1.14	1.10	1.14	1.08	1.24	1.18	1.17	1.11	1.36	1.26							
Case5_F6.3	Phase Bt Norwalk 345		70	1382	900	NE138-NO13	1.36	1.23	ROCKY	1.18	1.09	1.19	1.14	1.08	1.07	1.17	1.15	1.14	1.08	1.19	1.11	1.11	1.08	1.20	1.14	1.22	1.15	1.36	1.23							
Case5_F7.3	Phase Bt Plumtree 345		70	1382	900	NE138-NO13	1.52	1.45	ROCKY	1.14	1.10	1.18	1.18	1.07	1.06	1.14	1.10	1.09	1.07	1.15	1.10	1.09	1.09	1.15	1.15	1.20	1.15	1.52	1.45							
Case5_bas	No Fault		70	1382	900	LM345-PLVA	1.12	1.12	FB115	1.07	1.07	1.08	1.08	1.06	1.06	1.06	1.06	1.06	1.06	1.08	1.08	1.10	1.10	1.12	1.12	1.09	1.09	1.10	1.10							
Case5_F1.3	Phase Plumtree		70	1382	900	LM345-PLVA	1.41	1.45	ROCKY	1.17	1.09	1.26	1.22	1.09	1.07	1.12	1.07	1.08	1.07	1.12	1.09	1.09	1.09	1.17	1.17	1.27	1.19	1.41	1.45							
Case5_F2.3	Phase East Devon		70	1382	900	LM345-PLVA	1.36	1.22	ROCKY	1.11	1.06	1.13	1.09	1.13	1.05	1.14	1.06	1.13	1.06	1.20	1.13	1.11	1.10	1.17	1.14	1.15	1.10	1.36	1.22							
Case5_F3.1	Phase East Devon		70	1382	900	LM345-PLVA	1.11	1.11	BK345	1.06	1.05	1.07	1.06	1.05	1.04	1.04	1.05	1.04	1.11	1.09	1.09	1.09	1.11	1.11	1.07	1.07	1.09	1.09								
Case5_F4.3	Phase Norwalk Junction		70	1382	900	LM345-PLVA	1.54	1.52	ROCKY	1.23	1.20	1.23	1.24	1.12	1.10	1.15	1.12	1.12	1.10	1.19	1.11	1.19	1.10	1.26	1.17	1.27	1.22	1.54	1.52							
Case5_F5.3	Phase Singer		70	1382	900	LM345-PLVA	1.46	1.28	ROCKY	1.21	1.11	1.18	1.12	1.12	1.11	1.20	1.11	1.19	1.12	1.19	1.11	1.21	1.08	1.29	1.18	1.18	1.16	1.46	1.28							
Case5_F6.3	Phase Bt Norwalk 345		70	1382	900	LM345-PLVA	1.40	1.30	ROCKY	1.15	1.10	1.22	1.17	1.11	1.09	1.17	1.12	1.12	1.10	1.23	1.13	1.16	1.08	1.23	1.14	1.27	1.19	1.40	1.30							
Case5_F7.3	Phase Bt Plumtree 345		70	1382	900	LM345-PLVA	1.45	1.42	ROCKY	1.14	1.11	1.22	1.21	1.10	1.08	1.13	1.08	1.12	1.08	1.16	1.11	1.09	1.09	1.14	1.14	1.20	1.18	1.45	1.42							

CASE #: Case 5 With 90% source
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

DATE: 12/13/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_basNo Fault			40	0	500				1.03	1.03	ED345	1.02	1.02	1.02	1.02	1.03	1.03	1.02	1.02	1.03	1.03	1.02	1.02	1.02	1.02	1.01	1.01	1.01	1.01	1.01	1.01
Case5_F1.3 Phase		Plumtree	40	0	500				1.30	1.20	ED345	1.26	1.20	1.27	1.19	1.28	1.20	1.20	1.14	1.30	1.19	1.14	1.06	1.15	1.08	1.11	1.05	1.24	1.17	1.19	1.17
Case5_F2.3 Phase		East Devon	40	0	500				1.46	1.30	ED345	1.42	1.29	1.37	1.21	1.44	1.30	1.32	1.18	1.46	1.29	1.14	1.06	1.18	1.13	1.16	1.11	1.33	1.21	1.27	1.17
Case5_F3.1 Phase		East Devon	40	0	500				1.04	1.03	BK345	1.02	1.02	1.01	1.01	1.04	1.03	1.02	1.02	1.04	1.03	1.04	1.02	1.02	1.02	1.01	1.00	1.01	1.01	1.01	1.00
Case5_F4.3 Phase		Norwalk Junction	40	0	500				1.43	1.39	ED345	1.25	1.19	1.23	1.18	1.43	1.39	1.30	1.27	1.43	1.38	1.23	1.19	1.23	1.22	1.15	1.14	1.23	1.18	1.22	1.16
Case5_F5.3 Phase		Singer	40	0	500				1.39	1.35	ED345	1.36	1.29	1.30	1.27	1.37	1.34	1.30	1.25	1.39	1.35	1.21	1.18	1.25	1.20	1.15	1.13	1.29	1.24	1.28	1.20
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500				1.40	1.34	NW345	1.35	1.31	1.30	1.24	1.40	1.34	1.28	1.26	1.40	1.33	1.22	1.18	1.24	1.18	1.17	1.12	1.30	1.22	1.24	1.23
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500				1.27	1.22	PT115	1.23	1.19	1.27	1.22	1.26	1.20	1.20	1.15	1.24	1.21	1.13	1.11	1.17	1.13	1.11	1.09	1.24	1.21	1.20	1.16
Case5_basNo Fault			40	0	500	PT345-LM34	1.03	1.03	ED345	1.03	1.03	1.02	1.02	1.03	1.03	1.02	1.02	1.03	1.02	1.03	1.02	1.02	1.02	1.02	1.01	1.00	1.02	1.02	1.01	1.01	1.01
Case5_F2.3 Phase		East Devon	40	0	500	PT345-LM34	1.31	1.11	ED345	1.30	1.11	1.29	1.06	1.31	1.08	1.19	1.02	1.31	1.08	1.06	1.02	1.04	1.02	1.05	1.01	1.23	1.06	1.13	1.03	1.03	1.03
Case5_F3.1 Phase		East Devon	40	0	500	PT345-LM34	1.05	1.03	ED345	1.04	1.03	1.02	1.02	1.05	1.03	1.03	1.02	1.05	1.03	1.03	1.02	1.03	1.02	1.01	1.00	1.02	1.01	1.02	1.01	1.02	1.00
Case5_F4.3 Phase		Norwalk Junction	40	0	500	PT345-LM34	1.43	1.36	NW345	1.23	1.23	1.22	1.23	1.43	1.36	1.26	1.25	1.41	1.35	1.20	1.17	1.22	1.16	1.09	1.10	1.20	1.19	1.18	1.18	1.16	1.16
Case5_F5.3 Phase		Singer	40	0	500	PT345-LM34	1.44	1.36	ED345	1.43	1.36	1.37	1.30	1.44	1.36	1.33	1.22	1.44	1.34	1.23	1.15	1.24	1.17	1.15	1.10	1.33	1.27	1.27	1.20	1.20	1.20
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	PT345-LM34	1.57	1.39	NW345	1.47	1.34	1.45	1.30	1.57	1.38	1.41	1.23	1.55	1.39	1.27	1.14	1.32	1.16	1.17	1.07	1.44	1.30	1.31	1.24	1.24	
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	PT345-LM34	1.27	1.20	PT345	1.27	1.19	1.25	1.19	1.27	1.20	1.18	1.16	1.26	1.20	1.12	1.06	1.14	1.10	1.10	1.07	1.23	1.17	1.19	1.15	1.15	1.15
Case5_basNo Fault			40	0	500	BK345-ED34	1.03	1.03	ED345	1.02	1.02	1.01	1.01	1.02	1.02	1.02	1.02	1.03	1.02	1.03	1.02	1.02	1.02	1.00	1.00	1.01	1.01	1.00	1.00	1.00	1.00
Case5_F1.3 Phase		Plumtree	40	0	500	BK345-ED34	1.21	1.07	ED345	1.17	1.07	1.12	1.06	1.21	1.05	1.11	1.02	1.21	1.06	1.06	1.02	1.03	1.03	1.07	1.03	1.10	1.05	1.08	1.05	1.05	1.05
Case5_F4.3 Phase		Norwalk Junction	40	0	500	BK345-ED34	1.58	1.34	NW345	1.15	1.08	1.13	1.11	1.58	1.33	1.30	1.17	1.58	1.34	1.05	1.05	1.19	1.07	1.05	1.01	1.12	1.10	1.13	1.07	1.07	
Case5_F5.3 Phase		Singer	40	0	500	BK345-ED34	1.42	1.33	ED345	1.38	1.32	1.26	1.25	1.39	1.32	1.26	1.22	1.42	1.33	1.09	1.07	1.16	1.12	1.12	1.10	1.24	1.23	1.22	1.20	1.20	1.20
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	BK345-ED34	1.49	1.33	ED345	1.40	1.31	1.35	1.24	1.48	1.32	1.36	1.22	1.49	1.33	1.10	1.06	1.19	1.11	1.15	1.09	1.33	1.24	1.33	1.20	1.20	
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	BK345-ED34	1.33	1.25	ED345	1.26	1.17	1.27	1.17	1.32	1.24	1.19	1.17	1.33	1.25	1.07	1.04	1.10	1.09	1.10	1.06	1.24	1.17	1.21	1.16	1.16	
Case5_basNo Fault			40	0	500	NE138-NO13	1.02	1.02	ED345	1.01	1.01	1.01	1.01	1.02	1.02	1.01	1.01	1.02	1.02	1.02	1.02	1.02	1.02	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Case5_F1.3 Phase		Plumtree	40	0	500	NE138-NO13	1.15	1.15	STONY	1.15	1.05	1.14	1.15	1.13	1.06	1.12	1.04	1.13	1.07	1.09	1.03	1.02	1.02	1.06	1.02	1.15	1.13	1.14	1.15	1.15	
Case5_F2.3 Phase		East Devon	40	0	500	NE138-NO13	1.29	1.15	ED345	1.23	1.11	1.21	1.14	1.28	1.12	1.24	1.12	1.29	1.12	1.07	1.02	1.08	1.03	1.06	1.03	1.20	1.15	1.16	1.11	1.11	
Case5_F3.1 Phase		East Devon	40	0	500	NE138-NO13	1.03	1.01	BK345	1.01	1.01	1.01	1.00	1.02	1.01	1.01	1.01	1.02	1.01	1.03	1.01	1.01	1.01	1.01	1.00	0.99	1.01	1.00	1.00	0.99	
Case5_F4.3 Phase		Norwalk Junction	40	0	500	NE138-NO13	1.28	1.22	NW345	1.16	1.09	1.14	1.09	1.28	1.22	1.25	1.18	1.28	1.22	1.15	1.08	1.14	1.09	1.09	1.07	1.16	1.08	1.15	1.11	1.11	
Case5_F5.3 Phase		Singer	40	0	500	NE138-NO13	1.29	1.24	ED345	1.27	1.23	1.28	1.18	1.29	1.24	1.27	1.22	1.29	1.23	1.17	1.10	1.17	1.12	1.14	1.09	1.27	1.18	1.24	1.15	1.15	
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	NE138-NO13	1.32	1.23	PT115	1.27	1.23	1.32	1.18	1.30	1.23	1.26	1.23	1.31	1.22	1.16	1.11	1.17	1.09	1.11	1.07	1.28	1.17	1.27	1.15	1.15	
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	NE138-NO13	1.23	1.16	PT115	1.19	1.12	1.23	1.14	1.18	1.13	1.17	1.11	1.20	1.16	1.10	1.05	1.10	1.06	1.08	1.05	1.22	1.15	1.19	1.15	1.15	
Case5_basNo Fault			40	0	500	LM345-PLVA	1.03	1.03	ED345	1.03	1.03	1.02	1.02	1.03	1.03	1.02	1.02	1.03	1.03	1.02	1.02	1.02	1.01	1.01	1.02	1.02	1.01	1.01	1.01	1.01	
Case5_F1.3 Phase		Plumtree	40	0	500	LM345-PLVA	1.31	1.21	NW345	1.30	1.19	1.26	1.20	1.31	1.21	1.18	1.15	1.31	1.20	1.14	1.08	1.19	1.11	1.14	1.08	1.23	1.18	1.21	1.18	1.18	
Case5_F2.3 Phase		East Devon	40	0	500	LM345-PLVA	1.43	1.20	ED345	1.34	1.19	1.39	1.15	1.40	1.19	1.29	1.13	1.43	1.20	1.14	1.03	1.20	1.08	1.16	1.03	1.35	1.15	1.29	1.11	1.11	
Case5_F3.1 Phase		East Devon	40	0	500	LM345-PLVA	1.04	1.03	ED345	1.03	1.03	1.02	1.02	1.03	1.03	1.02	1.02	1.04	1.03	1.03	1.02	1.02	1.02	1.01	1.00	1.02	1.01	1.02	1.01	1.01	
Case5_F4.3 Phase		Norwalk Junction	40	0	500	LM345-PLVA	1.45	1.37	NW345	1.23	1.21	1.22	1.17	1.45	1.37	1.30	1.25	1.44	1.37	1.22	1.17	1.22	1.18	1.15	1.12	1.25	1.18	1.22	1.19	1.19	
Case5_F5.3 Phase		Singer	40	0	500	LM345-PLVA	1.44	1.34	ED345	1.39	1.33	1.35	1.30	1.43	1.34	1.33	1.21	1.44	1.33	1.25	1.17	1.28	1.18	1.20	1.13	1.35	1.28	1.32	1.24	1.24	
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	LM345-PLVA	1.51	1.34	NW345	1.46	1.31	1.34	1.26	1.51	1.33	1.41	1.20	1.50	1.34	1.28	1.16	1.33	1.17	1.22	1.13	1.31	1.26	1.29	1.24	1.24	
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	LM345-PLVA	1.30	1.21	NW345	1.28	1.19	1.25	1.18	1.30	1.21	1.18	1.15	1.29	1.21	1.15	1.09	1.18	1.14	1.13	1.10	1.23	1.17	1.19	1.14	1.14	

CASE #: Case 5 With 90% source
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

DATE: 12/13/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C
Case5_bas	No Fault		50	434	690				1.06	1.06	ESHOR	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.05	1.05	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.04	1.04	
Case5_F1_3	Phase Plumtree		50	434	690				1.28	1.20	PT115	1.26	1.14	1.28	1.17	1.24	1.16	1.15	1.10	1.25	1.15	1.17	1.12	1.18	1.10	1.10	1.10	1.24	1.20	1.24	1.16	
Case5_F2_3	Phase East Devon		50	434	690				1.46	1.30	ED345	1.35	1.23	1.29	1.22	1.45	1.29	1.28	1.21	1.46	1.30	1.18	1.12	1.25	1.14	1.25	1.16	1.25	1.25	1.20	1.19	
Case5_F3_1	Phase East Devon		50	434	690				1.10	1.07	BK345	1.06	1.04	1.03	1.04	1.04	1.04	1.04	1.03	1.04	1.04	1.10	1.07	1.06	1.06	1.05	1.05	1.04	1.04	1.04	1.03	
Case5_F4_3	Phase Norwalk Junction		50	434	690				1.45	1.36	ED345	1.27	1.22	1.24	1.21	1.44	1.35	1.29	1.27	1.45	1.36	1.35	1.24	1.31	1.21	1.16	1.14	1.24	1.25	1.21	1.23	
Case5_F5_3	Phase Singer		50	434	690				1.44	1.34	ED345	1.35	1.30	1.33	1.27	1.39	1.34	1.31	1.29	1.44	1.34	1.39	1.24	1.32	1.26	1.20	1.17	1.36	1.26	1.29	1.21	
Case5_F6_3	Phase Bt Norwalk 345		50	434	690				1.43	1.33	ED345	1.36	1.27	1.30	1.25	1.40	1.33	1.28	1.25	1.43	1.33	1.32	1.22	1.33	1.21	1.18	1.15	1.29	1.24	1.24	1.20	
Case5_F7_3	Phase Bt Plumtree 345		50	434	690				1.27	1.26	STONY	1.24	1.21	1.26	1.26	1.24	1.19	1.19	1.17	1.25	1.18	1.17	1.13	1.19	1.15	1.14	1.13	1.27	1.23	1.22	1.15	
Case5_bas	No Fault		50	434	690	PT345-LM34	1.06	1.06	BK345	1.04	1.04	1.03	1.03	1.04	1.04	1.03	1.03	1.04	1.04	1.06	1.06	1.05	1.05	1.04	1.04	1.04	1.03	1.03	1.03	1.03	1.03	
Case5_F2_3	Phase East Devon		50	434	690	PT345-LM34	1.26	1.11	PT345	1.26	1.02	1.15	1.07	1.26	1.07	1.09	1.02	1.26	1.06	1.12	1.10	1.04	1.06	1.12	1.11	1.25	1.08	1.13	1.07	1.07	1.07	
Case5_F3_1	Phase East Devon		50	434	690	PT345-LM34	1.10	1.07	BK345	1.02	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.02	1.01	1.10	1.07	1.05	1.04	1.04	1.04	1.01	1.01	1.02	1.01	1.01	1.01	
Case5_F4_3	Phase Norwalk Junction		50	434	690	PT345-LM34	1.42	1.32	ED345	1.27	1.23	1.26	1.21	1.41	1.32	1.26	1.25	1.42	1.32	1.26	1.16	1.20	1.17	1.14	1.13	1.20	1.21	1.16	1.17	1.17	1.17	
Case5_F5_3	Phase Singer		50	434	690	PT345-LM34	1.48	1.30	ED345	1.44	1.29	1.35	1.22	1.43	1.30	1.29	1.23	1.48	1.30	1.23	1.17	1.26	1.18	1.15	1.13	1.32	1.20	1.24	1.24	1.16	1.16	
Case5_F6_3	Phase Bt Norwalk 345		50	434	690	PT345-LM34	1.47	1.29	PT345	1.47	1.26	1.43	1.19	1.47	1.28	1.35	1.18	1.47	1.29	1.28	1.15	1.26	1.12	1.17	1.09	1.39	1.17	1.30	1.13	1.13	1.13	
Case5_F7_3	Phase Bt Plumtree 345		50	434	690	PT345-LM34	1.31	1.19	STONY	1.26	1.14	1.25	1.19	1.19	1.14	1.12	1.10	1.19	1.13	1.11	1.09	1.11	1.08	1.08	1.06	1.31	1.19	1.21	1.13	1.13		
Case5_bas	No Fault		50	434	690	BK345-ED34	1.06	1.06	BK345	1.04	1.04	1.03	1.03	1.03	1.03	1.03	1.03	1.04	1.04	1.06	1.06	1.06	1.06	1.05	1.05	1.04	1.04	1.04	1.03	1.03	1.03	
Case5_F1_3	Phase Plumtree		50	434	690	BK345-ED34	1.18	1.10	BK345	1.15	1.01	1.10	1.08	1.15	1.02	1.03	1.00	1.14	1.02	1.18	1.10	1.03	1.04	1.07	1.09	1.17	1.08	1.10	1.06	1.06	1.06	
Case5_F4_3	Phase Norwalk Junction		50	434	690	BK345-ED34	1.55	1.29	NW345	1.17	1.13	1.17	1.13	1.55	1.27	1.31	1.13	1.54	1.29	1.13	1.10	1.13	1.04	1.09	1.08	1.20	1.18	1.15	1.14	1.14	1.14	
Case5_F5_3	Phase Singer		50	434	690	BK345-ED34	1.44	1.31	ED345	1.35	1.27	1.29	1.27	1.41	1.30	1.30	1.23	1.44	1.31	1.15	1.12	1.22	1.17	1.15	1.12	1.29	1.25	1.24	1.19	1.19		
Case5_F6_3	Phase Bt Norwalk 345		50	434	690	BK345-ED34	1.49	1.30	ED345	1.38	1.22	1.28	1.24	1.49	1.30	1.34	1.19	1.49	1.30	1.14	1.08	1.20	1.12	1.16	1.10	1.31	1.20	1.20	1.15	1.15	1.15	
Case5_F7_3	Phase Bt Plumtree 345		50	434	690	BK345-ED34	1.33	1.25	ED345	1.29	1.20	1.28	1.25	1.31	1.20	1.19	1.14	1.33	1.21	1.11	1.08	1.12	1.11	1.12	1.10	1.27	1.21	1.17	1.14	1.14		
Case5_bas	No Fault		50	434	690	NE138-NO13	1.06	1.06	ESHOR	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.05	1.05	1.06	1.06	1.04	1.04	1.04	1.04	1.04	1.04	1.04	
Case5_F1_3	Phase Plumtree		50	434	690	NE138-NO13	1.16	1.09	STONY	1.10	1.03	1.16	1.08	1.10	1.03	1.07	1.03	1.10	1.04	1.14	1.07	1.06	1.05	1.07	1.09	1.16	1.09	1.14	1.06	1.06	1.06	
Case5_F2_3	Phase East Devon		50	434	690	NE138-NO13	1.23	1.13	NW345	1.18	1.08	1.14	1.10	1.23	1.12	1.18	1.08	1.23	1.12	1.16	1.10	1.10	1.05	1.19	1.11	1.16	1.13	1.13	1.10	1.10	1.10	
Case5_F3_1	Phase East Devon		50	434	690	NE138-NO13	1.08	1.06	BK345	1.04	1.03	1.03	1.02	1.03	1.02	1.03	1.03	1.03	1.02	1.08	1.06	1.05	1.05	1.04	1.04	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Case5_F4_3	Phase Norwalk Junction		50	434	690	NE138-NO13	1.30	1.21	NW345	1.18	1.18	1.18	1.17	1.30	1.21	1.25	1.18	1.29	1.20	1.24	1.14	1.20	1.09	1.12	1.12	1.18	1.19	1.18	1.17	1.17	1.17	
Case5_F5_3	Phase Singer		50	434	690	NE138-NO13	1.33	1.26	ED345	1.29	1.23	1.27	1.21	1.31	1.25	1.32	1.23	1.33	1.26	1.31	1.19	1.23	1.17	1.17	1.11	1.27	1.19	1.24	1.16	1.16	1.16	
Case5_F6_3	Phase Bt Norwalk 345		50	434	690	NE138-NO13	1.32	1.24	NW345	1.26	1.18	1.20	1.18	1.32	1.22	1.29	1.22	1.31	1.24	1.27	1.14	1.24	1.11	1.11	1.08	1.27	1.17	1.21	1.15	1.15	1.15	
Case5_F7_3	Phase Bt Plumtree 345		50	434	690	NE138-NO13	1.25	1.21	PT115	1.24	1.15	1.25	1.21	1.20	1.14	1.15	1.13	1.21	1.14	1.10	1.09	1.12	1.10	1.10	1.06	1.24	1.18	1.18	1.12	1.12		
Case5_bas	No Fault		50	434	690	LM345-PLVA	1.05	1.05	ESHOR	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.04	1.04	1.04	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.03	1.03	1.03	
Case5_F1_3	Phase Plumtree		50	434	690	LM345-PLVA	1.30	1.15	STONY	1.27	1.12	1.29	1.13	1.24	1.13	1.15	1.08	1.23	1.14	1.15	1.11	1.16	1.11	1.18	1.14	1.30	1.15	1.25	1.13	1.13		
Case5_F2_3	Phase East Devon		50	434	690	LM345-PLVA	1.35	1.15	NW345	1.30	1.10	1.19	1.13	1.35	1.14	1.17	1.07	1.35	1.15	1.22	1.09	1.24	1.06	1.19	1.09	1.30	1.15	1.22	1.11	1.11		
Case5_F3_1	Phase East Devon		50	434	690	LM345-PLVA	1.08	1.06	BK345	1.03	1.03	1.03	1.02	1.03	1.03	1.02	1.02	1.03	1.03	1.08	1.06	1.05	1.05	1.04	1.03	1.03	1.02	1.02	1.02	1.02	1.02	
Case5_F4_3	Phase Norwalk Junction		50	434	690	LM345-PLVA	1.40	1.29	ED345	1.26	1.22	1.24	1.23	1.39	1.29	1.27	1.23	1.40	1.29	1.36	1.23	1.39	1.22	1.17	1.17	1.26	1.24	1.21	1.20	1.20	1.20	
Case5_F5_3	Phase Singer		50	434	690	LM345-PLVA	1.42	1.30	ED345	1.41	1.28	1.28	1.19	1.40	1.29	1.27	1.21	1.42	1.30	1.33	1.21	1.36	1.20	1.27	1.16	1.27	1.19	1.24	1.15	1.15	1.15	
Case5_F6_3	Phase Bt Norwalk 345		50	434	690	LM345-PLVA	1.42	1.26	NW345	1.37	1.21	1.31	1.17	1.42	1.26	1.33	1.16	1.42	1.26	1.30	1.18	1.38	1.13	1.24	1.10	1.27	1.17	1.22	1.12	1.12		
Case5_F7_3	Phase Bt Plumtree 345		50	434	690	LM345-PLVA	1.28	1.16	STONY	1.21	1.13	1.26	1.15	1.22	1.13	1.13	1.07	1.22	1.14	1.15	1.10	1.19	1.08	1.15	1.12	1.28	1.16	1.20	1.13	1		

CASE #: Case 5 With 90% source
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

DATE: 12/13/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																										
										LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY	
																	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		70	1382	900				1.11	1.11	FB115	1.05	1.05	1.07	1.07	1.05	1.05	1.05	1.05	1.05	1.05	1.08	1.08	1.10	1.10	1.11	1.11	1.07	1.07	1.09	1.09					
Case5_F1.3	Phase Plumtree		70	1382	900				1.48	1.41	ROCKY	1.21	1.12	1.27	1.24	1.14	1.08	1.15	1.07	1.14	1.09	1.18	1.10	1.09	1.08	1.15	1.14	1.20	1.23	1.48	1.41					
Case5_F2.3	Phase East Devon		70	1382	900				1.54	1.31	ROCKY	1.17	1.13	1.21	1.14	1.27	1.14	1.25	1.14	1.27	1.13	1.18	1.15	1.21	1.10	1.22	1.17	1.22	1.11	1.54	1.31					
Case5_F3.1	Phase East Devon		70	1382	900				1.13	1.10	BK345	1.05	1.04	1.06	1.05	1.04	1.03	1.05	1.04	1.04	1.03	1.13	1.09	1.09	1.09	1.10	1.10	1.06	1.06	1.08	1.08					
Case5_F4.3	Phase Norwalk Junction		70	1382	900				1.53	1.45	ROCKY	1.23	1.14	1.21	1.14	1.22	1.15	1.25	1.20	1.22	1.15	1.20	1.12	1.24	1.16	1.24	1.19	1.19	1.18	1.53	1.45					
Case5_F5.3	Phase Singer		70	1382	900				1.64	1.39	ROCKY	1.22	1.13	1.26	1.22	1.26	1.14	1.24	1.18	1.28	1.15	1.23	1.13	1.27	1.14	1.36	1.29	1.29	1.25	1.64	1.39					
Case5_F6.3	Phase Bt Norwalk 345		70	1382	900				1.56	1.37	ROCKY	1.21	1.13	1.27	1.23	1.22	1.13	1.22	1.16	1.23	1.14	1.20	1.11	1.25	1.10	1.29	1.24	1.28	1.25	1.56	1.37					
Case5_F7.3	Phase Bt Plumtree 345		70	1382	900				1.62	1.55	ROCKY	1.19	1.17	1.24	1.22	1.17	1.13	1.18	1.12	1.19	1.14	1.19	1.10	1.12	1.09	1.15	1.14	1.23	1.14	1.62	1.55					
Case5_bas	No Fault		70	1382	900	PT345-LM34	1.10	1.10	FB115	1.04	1.04	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.07	1.07	1.09	1.09	1.10	1.10	1.06	1.06	1.08	1.08						
Case5_F2.3	Phase East Devon		70	1382	900	PT345-LM34	1.28	1.15	ROCKY	1.09	1.00	1.08	1.02	1.10	1.00	1.07	1.01	1.10	1.00	1.18	1.14	1.10	1.11	1.12	1.15	1.10	1.06	1.28	1.10							
Case5_F3.1	Phase East Devon		70	1382	900	PT345-LM34	1.13	1.09	BK345	1.00	1.00	1.01	1.01	1.00	1.00	1.01	1.00	1.00	1.00	1.13	1.09	1.07	1.07	1.09	1.09	1.02	1.02	1.05	1.05							
Case5_F4.3	Phase Norwalk Junction		70	1382	900	PT345-LM34	1.78	1.45	ROCKY	1.32	1.14	1.19	1.13	1.14	1.13	1.14	1.12	1.15	1.13	1.13	1.10	1.13	1.07	1.24	1.19	1.15	1.14	1.78	1.45							
Case5_F5.3	Phase Singer		70	1382	900	PT345-LM34	1.55	1.32	ROCKY	1.26	1.12	1.27	1.18	1.18	1.11	1.19	1.12	1.22	1.11	1.16	1.11	1.16	1.08	1.25	1.17	1.26	1.18	1.55	1.32							
Case5_F6.3	Phase Bt Norwalk 345		70	1382	900	PT345-LM34	1.50	1.38	ROCKY	1.26	1.13	1.24	1.22	1.15	1.10	1.16	1.10	1.16	1.11	1.15	1.09	1.12	1.07	1.24	1.13	1.26	1.24	1.50	1.38							
Case5_F7.3	Phase Bt Plumtree 345		70	1382	900	PT345-LM34	1.53	1.39	ROCKY	1.17	1.12	1.19	1.16	1.14	1.06	1.09	1.09	1.15	1.08	1.11	1.08	1.08	1.11	1.10	1.21	1.22	1.53	1.39								
Case5_bas	No Fault		70	1382	900	BK345-ED34	1.10	1.10	FB115	1.04	1.04	1.05	1.05	1.03	1.03	1.04	1.04	1.03	1.03	1.03	1.09	1.09	1.09	1.09	1.10	1.10	1.06	1.06	1.08	1.08						
Case5_F1.3	Phase Plumtree		70	1382	900	BK345-ED34	1.43	1.41	ROCKY	1.13	1.02	1.22	1.13	1.05	1.01	1.03	1.06	1.01	1.21	1.13	1.08	1.08	1.17	1.16	1.18	1.14	1.43	1.41								
Case5_F4.3	Phase Norwalk Junction		70	1382	900	BK345-ED34	1.37	1.32	ROCKY	1.15	1.12	1.16	1.10	1.22	1.09	1.20	1.10	1.22	1.09	1.12	1.11	1.10	1.08	1.17	1.18	1.17	1.20	1.37	1.32							
Case5_F5.3	Phase Singer		70	1382	900	BK345-ED34	1.43	1.22	ROCKY	1.25	1.14	1.25	1.20	1.22	1.15	1.22	1.13	1.26	1.16	1.13	1.12	1.17	1.08	1.23	1.20	1.24	1.18	1.43	1.22							
Case5_F6.3	Phase Bt Norwalk 345		70	1382	900	BK345-ED34	1.48	1.25	ROCKY	1.21	1.13	1.28	1.20	1.17	1.12	1.19	1.14	1.19	1.14	1.12	1.10	1.16	1.08	1.22	1.17	1.28	1.20	1.48	1.25							
Case5_F7.3	Phase Bt Plumtree 345		70	1382	900	BK345-ED34	1.51	1.50	ROCKY	1.20	1.12	1.25	1.25	1.16	1.09	1.19	1.09	1.18	1.11	1.14	1.11	1.10	1.08	1.15	1.13	1.17	1.22	1.51	1.50							
Case5_bas	No Fault		70	1382	900	NE138-NO13	1.09	1.09	FB115	1.04	1.04	1.06	1.06	1.04	1.04	1.06	1.06	1.04	1.04	1.06	1.06	1.06	1.09	1.09	1.09	1.09	1.06	1.06	1.08	1.08						
Case5_F1.3	Phase Plumtree		70	1382	900	NE138-NO13	1.34	1.40	ROCKY	1.12	1.02	1.17	1.12	1.03	1.03	1.06	1.04	1.03	1.04	1.11	1.07	1.07	1.07	1.11	1.09	1.14	1.13	1.34	1.40							
Case5_F2.3	Phase East Devon		70	1382	900	NE138-NO13	1.34	1.12	ROCKY	1.06	1.03	1.10	1.05	1.08	1.02	1.14	1.06	1.11	1.03	1.18	1.12	1.11	1.10	1.11	1.08	1.10	1.08	1.34	1.10							
Case5_F3.1	Phase East Devon		70	1382	900	NE138-NO13	1.12	1.09	BK345	1.03	1.02	1.04	1.04	1.02	1.01	1.04	1.04	1.02	1.01	1.12	1.09	1.08	1.08	1.09	1.09	1.05	1.04	1.06	1.06							
Case5_F4.3	Phase Norwalk Junction		70	1382	900	NE138-NO13	1.59	1.43	ROCKY	1.27	1.13	1.17	1.14	1.08	1.10	1.15	1.10	1.08	1.09	1.16	1.08	1.12	1.09	1.13	1.11	1.20	1.17	1.59	1.43							
Case5_F5.3	Phase Singer		70	1382	900	NE138-NO13	1.41	1.24	ROCKY	1.17	1.09	1.15	1.13	1.11	1.06	1.22	1.11	1.18	1.07	1.12	1.08	1.14	1.07	1.23	1.20	1.18	1.13	1.41	1.24							
Case5_F6.3	Phase Bt Norwalk 345		70	1382	900	NE138-NO13	1.43	1.24	ROCKY	1.14	1.08	1.21	1.13	1.08	1.06	1.17	1.10	1.10	1.07	1.17	1.09	1.12	1.07	1.19	1.15	1.22	1.16	1.43	1.24							
Case5_F7.3	Phase Bt Plumtree 345		70	1382	900	NE138-NO13	1.54	1.46	ROCKY	1.12	1.09	1.19	1.18	1.08	1.05	1.15	1.08	1.10	1.07	1.14	1.08	1.08	1.08	1.11	1.11	1.18	1.15	1.54	1.46							
Case5_bas	No Fault		70	1382	900	LM345-PLVA	1.10	1.10	FB115	1.05	1.05	1.06	1.06	1.05	1.05	1.04	1.04	1.05	1.05	1.07	1.07	1.09	1.09	1.10	1.10	1.07	1.07	1.08	1.08							
Case5_F1.3	Phase Plumtree		70	1382	900	LM345-PLVA	1.36	1.47	ROCKY	1.19	1.08	1.24	1.20	1.09	1.05	1.12	1.05	1.08	1.06	1.11	1.09	1.09	1.08	1.17	1.15	1.25	1.19	1.36	1.47							
Case5_F2.3	Phase East Devon		70	1382	900	LM345-PLVA	1.36	1.21	ROCKY	1.15	1.05	1.14	1.09	1.16	1.05	1.13	1.04	1.17	1.06	1.19	1.12	1.09	1.09	1.13	1.12	1.15	1.10	1.36	1.21							
Case5_F3.1	Phase East Devon		70	1382	900	LM345-PLVA	1.10	1.08	BK345	1.04	1.03	1.04	1.04	1.03	1.03	1.03	1.03	1.03	1.03	1.10	1.08	1.08	1.08	1.09	1.08	1.05	1.05	1.07	1.07							
Case5_F4.3	Phase Norwalk Junction		70	1382	900	LM345-PLVA	1.55	1.52	ROCKY	1.24	1.16	1.21	1.21	1.14	1.12	1.16	1.13	1.13	1.12	1.18	1.09	1.22	1.11	1.22	1.18	1.26	1.19	1.55	1.52							
Case5_F5.3	Phase Singer		70	1382	900	LM345-PLVA	1.55	1.25	ROCKY	1.22	1.11	1.21	1.13	1.14	1.10	1.21	1.10	1.18	1.11	1.21	1.10	1.21	1.07	1.26	1.19	1.21	1.16	1.55	1.25							
Case5_F6.3	Phase Bt Norwalk 345		70	1382	900	LM345-PLVA	1.48	1.28	ROCKY	1.14	1.10	1.24	1.16	1.13	1.08	1.15	1.09	1.14	1.09	1.23	1.11	1.15	1.07	1.18	1.14	1.30	1.19	1.48	1.28							
Case5_F7.3	Phase Bt Plumtree 345		70	1382	900	LM345-PLVA	1.41	1.38	ROCKY	1.16	1.10	1.21	1.20	1.11	1.06	1.13	1.06	1.12	1.07	1.16	1.11	1.09	1.08	1.13	1.13	1.19	1.19	1.41	1.38							

CASE #: 5 With 40% Load Case

DATE: 12/07/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C
Case5_basNo Fault			40	0	500				1.07	1.07	ED345	1.06	1.06	1.06	1.06	1.07	1.07	1.05	1.05	1.07	1.07	1.07	1.07	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Case5_F1.3 Phase		Plumtree	40	0	500				1.48	1.38	PT345	1.48	1.36	1.30	1.34	1.40	1.38	1.31	1.28	1.39	1.38	1.25	1.23	1.27	1.25	1.28	1.20	1.28	1.29	1.30	1.25	
Case5_F2.3 Phase		East Devon	40	0	500				1.62	1.59	ED345	1.46	1.45	1.45	1.40	1.61	1.54	1.42	1.39	1.62	1.59	1.33	1.26	1.29	1.30	1.31	1.24	1.43	1.37	1.41	1.33	
Case5_F3.1 Phase		East Devon	40	0	500				1.40	1.09	ED345	1.27	1.08	1.23	1.08	1.38	1.09	1.16	1.06	1.40	1.09	1.16	1.09	1.12	1.06	1.10	1.05	1.20	1.07	1.16	1.07	
Case5_F4.3 Phase		Norwalk Junction	40	0	500				1.56	1.52	NW345	1.45	1.32	1.46	1.32	1.56	1.52	1.37	1.37	1.56	1.52	1.37	1.32	1.32	1.30	1.21	1.21	1.41	1.31	1.39	1.32	
Case5_F5.3 Phase		Singer	40	0	500				1.83	1.48	ED345	1.45	1.42	1.38	1.43	1.72	1.48	1.45	1.37	1.83	1.48	1.40	1.31	1.34	1.33	1.24	1.24	1.41	1.42	1.49	1.35	
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500				1.65	1.48	ED345	1.50	1.43	1.47	1.36	1.62	1.48	1.40	1.34	1.65	1.47	1.40	1.32	1.39	1.32	1.27	1.23	1.46	1.36	1.36	1.29	
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500				1.51	1.33	PT115	1.48	1.29	1.51	1.32	1.41	1.33	1.27	1.23	1.42	1.33	1.25	1.23	1.28	1.25	1.20	1.18	1.43	1.29	1.42	1.26	
Case5_basNo Fault			40	0	500	PT345-LM34	1.07	1.07	ED345	1.06	1.06	1.05	1.05	1.07	1.07	1.05	1.05	1.07	1.07	1.06	1.06	1.06	1.06	1.04	1.04	1.04	1.05	1.05	1.04	1.04	1.04	
Case5_F2.3 Phase		East Devon	40	0	500	PT345-LM34	1.54	1.45	ED345	1.47	1.42	1.33	1.34	1.52	1.45	1.28	1.25	1.54	1.44	1.23	1.12	1.16	1.18	1.16	1.18	1.16	1.09	1.31	1.29	1.25	1.20	
Case5_F3.1 Phase		East Devon	40	0	500	PT345-LM34	1.23	1.10	ED345	1.20	1.07	1.09	1.05	1.22	1.07	1.11	1.05	1.23	1.08	1.17	1.10	1.09	1.07	1.09	1.07	1.11	1.05	1.14	1.06	1.06	1.06	
Case5_F4.3 Phase		Norwalk Junction	40	0	500	PT345-LM34	1.72	1.48	ED345	1.34	1.33	1.31	1.31	1.71	1.48	1.44	1.33	1.72	1.47	1.33	1.25	1.32	1.26	1.17	1.19	1.29	1.29	1.30	1.28	1.29	1.42	1.26
Case5_F5.3 Phase		Singer	40	0	500	PT345-LM34	1.62	1.53	ED345	1.62	1.51	1.59	1.42	1.60	1.50	1.49	1.39	1.62	1.53	1.35	1.27	1.33	1.30	1.33	1.21	1.61	1.42	1.58	1.37	1.37	1.37	
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	PT345-LM34	1.59	1.59	ED345	1.55	1.52	1.49	1.53	1.58	1.58	1.42	1.45	1.59	1.59	1.31	1.27	1.38	1.36	1.24	1.23	1.48	1.52	1.42	1.44	1.44	1.44	
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	PT345-LM34	1.50	1.34	PT345	1.50	1.34	1.29	1.31	1.39	1.33	1.25	1.24	1.39	1.34	1.19	1.18	1.23	1.21	1.11	1.13	1.28	1.29	1.20	1.22	1.22	1.22	
Case5_basNo Fault			40	0	500	BK345-ED34	1.06	1.06	BK345	1.06	1.06	1.05	1.05	1.06	1.06	1.05	1.05	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.04	1.04	1.05	1.05	1.04	1.04	1.04	
Case5_F1.3 Phase		Plumtree	40	0	500	BK345-ED34	1.33	1.31	FB115	1.29	1.23	1.19	1.16	1.31	1.28	1.19	1.19	1.32	1.31	1.16	1.09	1.09	1.08	1.33	1.11	1.20	1.15	1.29	1.14	1.14	1.14	
Case5_F4.3 Phase		Norwalk Junction	40	0	500	BK345-ED34	1.72	1.72	NW345	1.37	1.23	1.46	1.26	1.71	1.72	1.42	1.41	1.72	1.72	1.19	1.13	1.30	1.27	1.13	1.09	1.38	1.27	1.29	1.22	1.22	1.22	
Case5_F5.3 Phase		Singer	40	0	500	BK345-ED34	1.72	1.52	ED345	1.50	1.44	1.38	1.38	1.70	1.49	1.35	1.32	1.72	1.52	1.20	1.17	1.26	1.23	1.21	1.18	1.36	1.35	1.40	1.27	1.27		
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	BK345-ED34	1.64	1.58	ED345	1.48	1.43	1.40	1.35	1.64	1.55	1.44	1.41	1.64	1.58	1.17	1.15	1.24	1.23	1.19	1.19	1.40	1.34	1.37	1.33	1.33		
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	BK345-ED34	1.56	1.40	PT345	1.56	1.34	1.41	1.32	1.51	1.39	1.30	1.26	1.53	1.40	1.12	1.12	1.17	1.17	1.15	1.15	1.34	1.28	1.28	1.24	1.24		
Case5_basNo Fault			40	0	500	NE138-NO13	1.07	1.07	ED345	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.07	1.07	1.06	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.05	
Case5_F1.3 Phase		Plumtree	40	0	500	NE138-NO13	1.32	1.24	PT345	1.32	1.21	1.23	1.20	1.24	1.23	1.24	1.22	1.25	1.24	1.17	1.12	1.10	1.09	1.24	1.12	1.19	1.19	1.25	1.23	1.23		
Case5_F2.3 Phase		East Devon	40	0	500	NE138-NO13	1.44	1.43	ED345	1.33	1.30	1.40	1.34	1.42	1.40	1.34	1.37	1.44	1.43	1.25	1.20	1.18	1.21	1.23	1.17	1.40	1.34	1.34	1.34	1.31		
Case5_F3.1 Phase		East Devon	40	0	500	NE138-NO13	1.25	1.08	ED345	1.12	1.06	1.11	1.06	1.23	1.06	1.22	1.06	1.25	1.07	1.15	1.08	1.13	1.06	1.10	1.05	1.12	1.06	1.11	1.07	1.07		
Case5_F4.3 Phase		Norwalk Junction	40	0	500	NE138-NO13	1.48	1.34	PT115	1.44	1.22	1.48	1.19	1.43	1.34	1.38	1.32	1.39	1.34	1.28	1.23	1.19	1.20	1.18	1.17	1.47	1.23	1.43	1.24	1.24		
Case5_F5.3 Phase		Singer	40	0	500	NE138-NO13	1.73	1.37	ED345	1.37	1.34	1.38	1.33	1.60	1.37	1.47	1.34	1.73	1.37	1.30	1.27	1.26	1.23	1.20	1.19	1.41	1.30	1.46	1.26	1.26		
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	NE138-NO13	1.55	1.41	ED345	1.38	1.33	1.40	1.36	1.52	1.38	1.44	1.35	1.55	1.41	1.32	1.28	1.24	1.23	1.23	1.19	1.39	1.35	1.32	1.33	1.33		
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	NE138-NO13	1.42	1.29	PT115	1.38	1.26	1.42	1.27	1.35	1.27	1.27	1.25	1.34	1.29	1.20	1.19	1.19	1.20	1.15	1.16	1.34	1.24	1.38	1.25	1.25		
Case5_basNo Fault			40	0	500	LM345-PLVA	1.07	1.07	ED345	1.07	1.07	1.06	1.06	1.07	1.07	1.05	1.05	1.07	1.07	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	
Case5_F1.3 Phase		Plumtree	40	0	500	LM345-PLVA	1.53	1.39	PT345	1.53	1.38	1.38	1.31	1.37	1.37	1.26	1.27	1.37	1.39	1.23	1.21	1.26	1.25	1.23	1.17	1.39	1.31	1.32	1.26	1.26		
Case5_F2.3 Phase		East Devon	40	0	500	LM345-PLVA	1.61	1.55	ED345	1.50	1.47	1.47	1.46	1.59	1.53	1.40	1.37	1.61	1.55	1.27	1.26	1.31	1.33	1.26	1.24	1.45	1.42	1.38	1.34	1.34		
Case5_F3.1 Phase		East Devon	40	0	500	LM345-PLVA	1.27	1.07	ED345	1.21	1.07	1.13	1.05	1.27	1.07	1.10	1.04	1.27	1.07	1.19	1.07	1.08	1.06	1.12	1.04	1.12	1.05	1.13	1.05	1.05		
Case5_F4.3 Phase		Norwalk Junction	40	0	500	LM345-PLVA	1.58	1.49	NW345	1.43	1.29	1.32	1.29	1.58	1.49	1.35	1.33	1.56	1.49	1.33	1.29	1.34	1.30	1.25	1.21	1.31	1.27	1.26	1.25	1.25		
Case5_F5.3 Phase		Singer	40	0	500	LM345-PLVA	1.56	1.53	ED345	1.48	1.47	1.42	1.43	1.52	1.51	1.42	1.39	1.56	1.53	1.34	1.32	1.33	1.34	1.26	1.27	1.43	1.43	1.44	1.39	1.39		
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	LM345-PLVA	1.60	1.57	NW345	1.52	1.48	1.46	1.42	1.60	1.56	1.44	1.44	1.60	1.57	1.35	1.33	1.37	1.36	1.30	1.26	1.45	1.40	1.36	1.35	1.35		
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	LM345-PLVA	1.46	1.36	PT345	1.46	1.34	1.35	1.29	1.37	1.35	1.26	1.25	1.37	1.36	1.24	1.22	1.26	1.24	1.21	1.18	1.35	1.28	1.35	1.24	1.24		

CASE #: 5 With 40% Load Case

DATE: 12/07/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C
Case5_bas	No Fault		50	302	690				1.06	1.06	ESHOR	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.05	1.05	1.06	1.06	1.06	1.06	1.05	1.05	1.04	1.04	1.04	1.04	
Case5_F1.3	Phase Plumtree		50	302	690				1.40	1.29	PT345	1.40	1.29	1.26	1.27	1.28	1.26	1.17	1.14	1.28	1.27	1.20	1.21	1.14	1.18	1.15	1.10	1.27	1.24	1.22	1.19	
Case5_F2.3	Phase East Devon		50	302	690				1.54	1.49	NW345	1.40	1.39	1.30	1.27	1.54	1.48	1.33	1.31	1.53	1.49	1.29	1.24	1.33	1.27	1.21	1.20	1.28	1.24	1.28	1.22	
Case5_F3.1	Phase East Devon		50	302	690				1.31	1.08	ED345	1.21	1.05	1.10	1.04	1.30	1.04	1.13	1.04	1.31	1.04	1.12	1.08	1.09	1.06	1.08	1.05	1.12	1.04	1.10	1.04	
Case5_F4.3	Phase Norwalk Junction		50	302	690				1.53	1.46	ED345	1.35	1.26	1.30	1.23	1.53	1.44	1.32	1.30	1.53	1.46	1.33	1.33	1.30	1.30	1.26	1.18	1.50	1.26	1.39	1.23	
Case5_F5.3	Phase Singer		50	302	690				1.62	1.41	ED345	1.44	1.38	1.34	1.31	1.56	1.38	1.47	1.28	1.62	1.41	1.42	1.34	1.33	1.31	1.24	1.20	1.43	1.31	1.31	1.28	
Case5_F6.3	Phase Bt Norwalk 345		50	302	690				1.49	1.44	NW345	1.47	1.35	1.35	1.28	1.49	1.41	1.31	1.30	1.49	1.44	1.47	1.38	1.37	1.30	1.22	1.19	1.34	1.28	1.28	1.24	
Case5_F7.3	Phase Bt Plumtree 345		50	302	690				1.42	1.26	PT345	1.42	1.25	1.29	1.26	1.31	1.24	1.22	1.19	1.32	1.26	1.29	1.19	1.20	1.18	1.16	1.13	1.35	1.25	1.30	1.22	
Case5_bas	No Fault		50	302	690	PT345-LM34	1.05	1.05	BK345	1.03	1.03	1.03	1.03	1.04	1.04	1.03	1.03	1.04	1.04	1.05	1.05	1.05	1.05	1.04	1.04	1.03	1.03	1.03	1.03	1.03	1.03	
Case5_F2.3	Phase East Devon		50	302	690	PT345-LM34	1.36	1.26	ED345	1.31	1.25	1.23	1.15	1.34	1.26	1.18	1.10	1.36	1.25	1.21	1.15	1.11	1.07	1.14	1.11	1.22	1.26	1.15	1.14	1.14	1.14	1.14
Case5_F3.1	Phase East Devon		50	302	690	PT345-LM34	1.15	1.09	ED345	1.10	1.02	1.06	1.01	1.14	1.02	1.03	1.01	1.15	1.02	1.13	1.09	1.10	1.05	1.07	1.04	1.09	1.01	1.07	1.02	1.02	1.02	1.02
Case5_F4.3	Phase Norwalk Junction		50	302	690	PT345-LM34	1.50	1.42	ED345	1.34	1.28	1.33	1.28	1.46	1.42	1.29	1.26	1.50	1.41	1.27	1.23	1.25	1.22	1.18	1.13	1.29	1.22	1.21	1.21	1.18	1.18	
Case5_F5.3	Phase Singer		50	302	690	PT345-LM34	1.55	1.50	ED345	1.54	1.48	1.39	1.34	1.49	1.47	1.30	1.29	1.55	1.50	1.30	1.25	1.27	1.26	1.18	1.15	1.38	1.35	1.31	1.24	1.24	1.24	
Case5_F6.3	Phase Bt Norwalk 345		50	302	690	PT345-LM34	1.58	1.51	PT345	1.58	1.48	1.50	1.43	1.54	1.51	1.36	1.34	1.52	1.50	1.27	1.24	1.28	1.28	1.19	1.16	1.41	1.40	1.32	1.29	1.29	1.29	
Case5_F7.3	Phase Bt Plumtree 345		50	302	690	PT345-LM34	1.36	1.31	PT345	1.36	1.25	1.21	1.26	1.24	1.21	1.12	1.13	1.24	1.21	1.13	1.12	1.09	1.11	1.09	1.08	1.22	1.31	1.12	1.12	1.12	1.12	
Case5_bas	No Fault		50	302	690	BK345-ED34	1.06	1.06	BK345	1.04	1.04	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.06	1.06	1.06	1.06	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.03	
Case5_F1.3	Phase Plumtree		50	302	690	BK345-ED34	1.26	1.20	PT345	1.26	1.12	1.16	1.09	1.23	1.14	1.06	1.05	1.24	1.16	1.22	1.19	1.03	1.04	1.26	1.08	1.17	1.20	1.13	1.10	1.10	1.10	1.10
Case5_F4.3	Phase Norwalk Junction		50	302	690	BK345-ED34	1.66	1.57	NW345	1.32	1.16	1.26	1.16	1.66	1.57	1.34	1.32	1.65	1.57	1.16	1.09	1.26	1.14	1.24	1.09	1.44	1.21	1.32	1.16	1.16	1.16	
Case5_F5.3	Phase Singer		50	302	690	BK345-ED34	1.94	1.46	ED345	1.56	1.35	1.32	1.29	1.82	1.42	1.49	1.29	1.94	1.46	1.22	1.20	1.26	1.21	1.19	1.15	1.46	1.29	1.28	1.24	1.24	1.24	
Case5_F6.3	Phase Bt Norwalk 345		50	302	690	BK345-ED34	1.61	1.51	ED345	1.45	1.38	1.34	1.28	1.57	1.49	1.37	1.33	1.61	1.51	1.19	1.15	1.21	1.19	1.15	1.15	1.36	1.30	1.26	1.20	1.20	1.20	
Case5_F7.3	Phase Bt Plumtree 345		50	302	690	BK345-ED34	1.48	1.34	PT345	1.48	1.31	1.33	1.29	1.42	1.32	1.27	1.19	1.41	1.34	1.13	1.12	1.11	1.13	1.13	1.13	1.34	1.28	1.21	1.17	1.17	1.17	
Case5_bas	No Fault		50	302	690	NE138-NO13	1.06	1.06	ESHOR	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.05	1.05	1.06	1.06	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	
Case5_F1.3	Phase Plumtree		50	302	690	NE138-NO13	1.21	1.17	PT345	1.21	1.11	1.16	1.17	1.14	1.11	1.12	1.09	1.14	1.11	1.17	1.17	1.05	1.06	1.15	1.08	1.17	1.17	1.15	1.11	1.11	1.11	
Case5_F2.3	Phase East Devon		50	302	690	NE138-NO13	1.36	1.29	ED345	1.24	1.20	1.17	1.15	1.35	1.28	1.28	1.22	1.36	1.29	1.32	1.20	1.17	1.15	1.14	1.15	1.24	1.18	1.18	1.18	1.18	1.18	
Case5_F3.1	Phase East Devon		50	302	690	NE138-NO13	1.20	1.08	ED345	1.09	1.04	1.05	1.03	1.18	1.03	1.19	1.03	1.20	1.03	1.11	1.08	1.12	1.05	1.06	1.04	1.09	1.03	1.07	1.03	1.03	1.03	
Case5_F4.3	Phase Norwalk Junction		50	302	690	NE138-NO13	1.56	1.31	STONY	1.46	1.21	1.34	1.21	1.36	1.30	1.26	1.25	1.34	1.31	1.27	1.25	1.19	1.19	1.21	1.12	1.56	1.19	1.43	1.19	1.19	1.19	
Case5_F5.3	Phase Singer		50	302	690	NE138-NO13	1.51	1.35	ED345	1.34	1.27	1.27	1.27	1.44	1.32	1.48	1.30	1.51	1.35	1.29	1.24	1.22	1.21	1.19	1.14	1.31	1.29	1.23	1.25	1.25	1.25	
Case5_F6.3	Phase Bt Norwalk 345		50	302	690	NE138-NO13	1.42	1.32	NW345	1.39	1.25	1.21	1.22	1.42	1.32	1.34	1.30	1.42	1.32	1.40	1.25	1.22	1.23	1.18	1.12	1.24	1.27	1.20	1.21	1.21		
Case5_F7.3	Phase Bt Plumtree 345		50	302	690	NE138-NO13	1.35	1.24	PT345	1.35	1.21	1.21	1.24	1.20	1.18	1.23	1.16	1.22	1.17	1.16	1.14	1.12	1.11	1.11	1.11	1.25	1.21	1.20	1.17	1.17		
Case5_bas	No Fault		50	302	690	LM345-PLVA	1.05	1.05	ESHOR	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.04	1.04	1.04	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.03	1.03		
Case5_F1.3	Phase Plumtree		50	302	690	LM345-PLVA	1.39	1.32	PT345	1.39	1.27	1.23	1.29	1.28	1.24	1.14	1.14	1.27	1.24	1.18	1.16	1.18	1.18	1.17	1.17	1.24	1.32	1.18	1.26	1.26	1.26	
Case5_F2.3	Phase East Devon		50	302	690	LM345-PLVA	1.46	1.41	ED345	1.38	1.31	1.25	1.20	1.45	1.40	1.28	1.18	1.46	1.41	1.26	1.19	1.30	1.27	1.25	1.19	1.37	1.30	1.22	1.22	1.22		
Case5_F3.1	Phase East Devon		50	302	690	LM345-PLVA	1.17	1.08	ED345	1.08	1.03	1.07	1.03	1.16	1.03	1.03	1.02	1.17	1.03	1.12	1.08	1.11	1.05	1.07	1.03	1.09	1.03	1.08	1.03	1.03		
Case5_F4.3	Phase Norwalk Junction		50	302	690	LM345-PLVA	1.41	1.40	NW345	1.39	1.27	1.26	1.26	1.41	1.40	1.26	1.26	1.40	1.40	1.32	1.33	1.38	1.40	1.19	1.18	1.28	1.25	1.19	1.21	1.21		
Case5_F5.3	Phase Singer		50	302	690	LM345-PLVA	1.54	1.45	ED345	1.47	1.43	1.32	1.27	1.49	1.41	1.28	1.27	1.54	1.45	1.43	1.33	1.45	1.37	1.29	1.24	1.36	1.27	1.26	1.24	1.24		
Case5_F6.3	Phase Bt Norwalk 345		50	302	690	LM345-PLVA	1.51	1.46	NW345	1.47	1.40	1.40	1.34	1.51	1.46	1.38	1.32	1.50	1.44	1.37	1.31	1.44	1.40	1.25	1.25	1.39	1.26	1.28	1.24	1.24		
Case5_F7.3	Phase Bt Plumtree 345		50	302	690	LM345-PLVA	1.32	1.29	PT345	1.32	1.23	1.23	1.26	1.28	1.23	1.14	1.13	1.28	1.23	1.20	1.15	1.20	1.20	1.16	1.15	1.21						

CASE #: 5 With 40% Load Case

DATE: 12/07/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C
Case5_bas	No Fault		70	1249	900				1.10	1.10	FB115	1.05	1.05	1.06	1.06	1.04	1.04	1.04	1.04	1.05	1.05	1.07	1.07	1.09	1.09	1.10	1.10	1.07	1.07	1.08	1.08	
Case5_F1.3	Phase Plumtree		70	1249	900				1.35	1.48	ROCKY	1.35	1.22	1.23	1.26	1.19	1.17	1.14	1.13	1.21	1.16	1.24	1.16	1.11	1.09	1.15	1.14	1.20	1.24	1.29	1.48	
Case5_F2.3	Phase East Devon		70	1249	900				1.51	1.53	ROCKY	1.39	1.23	1.25	1.21	1.34	1.30	1.25	1.22	1.36	1.33	1.22	1.19	1.26	1.22	1.26	1.24	1.33	1.22	1.51	1.53	
Case5_F3.1	Phase East Devon		70	1249	900				1.18	1.10	STONY	1.13	1.05	1.15	1.05	1.14	1.03	1.09	1.03	1.13	1.03	1.15	1.10	1.13	1.09	1.15	1.10	1.18	1.05	1.14	1.08	
Case5_F4.3	Phase Norwalk Junction		70	1249	900				1.61	1.53	ROCKY	1.36	1.26	1.19	1.16	1.44	1.26	1.30	1.22	1.41	1.27	1.29	1.24	1.26	1.25	1.31	1.26	1.37	1.19	1.61	1.53	
Case5_F5.3	Phase Singer		70	1249	900				1.60	1.64	ROCKY	1.41	1.28	1.33	1.23	1.38	1.28	1.31	1.19	1.48	1.34	1.27	1.23	1.35	1.27	1.33	1.35	1.45	1.27	1.60	1.64	
Case5_F6.3	Phase Bt Norwalk 345		70	1249	900				1.51	1.57	ROCKY	1.46	1.23	1.36	1.25	1.39	1.25	1.28	1.17	1.41	1.25	1.28	1.22	1.29	1.25	1.31	1.30	1.46	1.27	1.51	1.57	
Case5_F7.3	Phase Bt Plumtree 345		70	1249	900				1.39	1.60	ROCKY	1.39	1.19	1.24	1.23	1.37	1.18	1.25	1.16	1.34	1.20	1.26	1.17	1.16	1.12	1.19	1.15	1.32	1.23	1.39	1.60	
Case5_bas	No Fault		70	1249	900	PT345-LM34	1.09	1.09	FB115	1.03	1.03	1.04	1.04	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.06	1.06	1.08	1.08	1.09	1.09	1.10	1.05	1.05	1.07	1.07	
Case5_F2.3	Phase East Devon		70	1249	900	PT345-LM34	1.36	1.27	ROCKY	1.28	1.20	1.17	1.10	1.23	1.13	1.09	1.05	1.30	1.15	1.27	1.17	1.11	1.09	1.12	1.13	1.22	1.09	1.36	1.27			
Case5_F3.1	Phase East Devon		70	1249	900	PT345-LM34	1.16	1.10	BK345	1.06	0.99	1.05	1.01	1.04	0.99	1.01	0.99	1.03	0.99	1.16	1.10	1.15	1.07	1.11	1.08	1.07	1.01	1.11	1.04			
Case5_F4.3	Phase Norwalk Junction		70	1249	900	PT345-LM34	1.96	1.83	ROCKY	1.52	1.37	1.24	1.21	1.41	1.17	1.27	1.13	1.43	1.16	1.32	1.24	1.15	1.15	1.27	1.24	1.29	1.17	1.96	1.83			
Case5_F5.3	Phase Singer		70	1249	900	PT345-LM34	1.49	1.56	ROCKY	1.38	1.21	1.31	1.25	1.27	1.21	1.19	1.18	1.35	1.30	1.24	1.20	1.25	1.16	1.32	1.25	1.34	1.25	1.49	1.56			
Case5_F6.3	Phase Bt Norwalk 345		70	1249	900	PT345-LM34	1.52	1.51	PT345	1.52	1.24	1.35	1.24	1.34	1.16	1.22	1.14	1.36	1.19	1.31	1.20	1.22	1.13	1.30	1.23	1.43	1.24	1.47	1.51			
Case5_F7.3	Phase Bt Plumtree 345		70	1249	900	PT345-LM34	1.37	1.50	ROCKY	1.36	1.14	1.15	1.17	1.25	1.14	1.13	1.08	1.26	1.16	1.12	1.11	1.08	1.08	1.13	1.12	1.17	1.15	1.37	1.50			
Case5_bas	No Fault		70	1249	900	BK345-ED34	1.10	1.10	FB115	1.03	1.03	1.05	1.05	1.02	1.02	1.03	1.03	1.02	1.02	1.08	1.08	1.09	1.09	1.10	1.10	1.05	1.05	1.07	1.07			
Case5_F1.3	Phase Plumtree		70	1249	900	BK345-ED34	1.27	1.41	ROCKY	1.20	1.12	1.18	1.22	1.10	1.06	1.03	1.01	1.13	1.06	1.27	1.21	1.12	1.07	1.15	1.16	1.15	1.17	1.24	1.41			
Case5_F4.3	Phase Norwalk Junction		70	1249	900	BK345-ED34	1.47	1.38	ED345	1.40	1.17	1.35	1.16	1.46	1.32	1.24	1.17	1.47	1.32	1.18	1.14	1.11	1.11	1.21	1.17	1.29	1.21	1.42	1.38			
Case5_F5.3	Phase Singer		70	1249	900	BK345-ED34	1.51	1.41	ED345	1.40	1.22	1.40	1.24	1.40	1.21	1.30	1.21	1.51	1.25	1.15	1.14	1.17	1.17	1.29	1.23	1.48	1.24	1.43	1.41			
Case5_F6.3	Phase Bt Norwalk 345		70	1249	900	BK345-ED34	1.50	1.48	ED345	1.44	1.21	1.29	1.28	1.44	1.20	1.31	1.19	1.50	1.20	1.13	1.12	1.16	1.17	1.26	1.22	1.40	1.29	1.47	1.48			
Case5_F7.3	Phase Bt Plumtree 345		70	1249	900	BK345-ED34	1.53	1.52	ROCKY	1.35	1.21	1.34	1.25	1.29	1.18	1.20	1.13	1.32	1.20	1.18	1.15	1.11	1.12	1.18	1.17	1.34	1.19	1.53	1.52			
Case5_bas	No Fault		70	1249	900	NE138-NO13	1.09	1.09	FB115	1.03	1.03	1.05	1.05	1.03	1.03	1.04	1.04	1.03	1.03	1.06	1.06	1.08	1.08	1.09	1.09	1.09	1.05	1.05	1.07	1.07		
Case5_F1.3	Phase Plumtree		70	1249	900	NE138-NO13	1.26	1.39	ROCKY	1.13	1.10	1.14	1.18	1.06	1.05	1.08	1.05	1.07	1.06	1.22	1.12	1.05	1.06	1.10	1.10	1.13	1.15	1.26	1.39			
Case5_F2.3	Phase East Devon		70	1249	900	NE138-NO13	1.38	1.35	ROCKY	1.21	1.07	1.12	1.08	1.21	1.10	1.20	1.13	1.22	1.10	1.22	1.17	1.11	1.09	1.15	1.13	1.16	1.09	1.38	1.35			
Case5_F3.1	Phase East Devon		70	1249	900	NE138-NO13	1.17	1.11	ED345	1.06	1.02	1.04	1.03	1.16	1.01	1.16	1.02	1.17	1.02	1.14	1.11	1.13	1.07	1.12	1.08	1.04	1.04	1.13	1.06			
Case5_F4.3	Phase Norwalk Junction		70	1249	900	NE138-NO13	1.55	1.57	ROCKY	1.38	1.30	1.22	1.16	1.21	1.13	1.19	1.13	1.19	1.14	1.22	1.17	1.16	1.13	1.18	1.15	1.34	1.17	1.55	1.57			
Case5_F5.3	Phase Singer		70	1249	900	NE138-NO13	1.43	1.42	ROCKY	1.28	1.18	1.23	1.19	1.25	1.15	1.29	1.16	1.33	1.19	1.20	1.15	1.20	1.15	1.26	1.24	1.29	1.23	1.43	1.42			
Case5_F6.3	Phase Bt Norwalk 345		70	1249	900	NE138-NO13	1.35	1.43	ROCKY	1.33	1.13	1.23	1.19	1.22	1.13	1.28	1.13	1.30	1.15	1.22	1.17	1.13	1.12	1.22	1.21	1.31	1.20	1.35	1.43			
Case5_F7.3	Phase Bt Plumtree 345		70	1249	900	NE138-NO13	1.32	1.54	ROCKY	1.26	1.12	1.14	1.18	1.20	1.08	1.19	1.13	1.18	1.10	1.24	1.13	1.09	1.07	1.15	1.10	1.18	1.17	1.32	1.54			
Case5_bas	No Fault		70	1249	900	LM345-PLVA	1.09	1.09	FB115	1.04	1.04	1.05	1.05	1.04	1.04	1.03	1.03	1.04	1.04	1.06	1.06	1.08	1.08	1.09	1.09	1.06	1.06	1.07	1.07			
Case5_F1.3	Phase Plumtree		70	1249	900	LM345-PLVA	1.33	1.45	ROCKY	1.22	1.21	1.22	1.25	1.16	1.11	1.09	1.09	1.16	1.11	1.16	1.12	1.15	1.11	1.20	1.16	1.22	1.26	1.33	1.45			
Case5_F2.3	Phase East Devon		70	1249	900	LM345-PLVA	1.35	1.39	ROCKY	1.22	1.16	1.17	1.15	1.24	1.21	1.13	1.11	1.30	1.22	1.26	1.18	1.14	1.08	1.17	1.12	1.22	1.16	1.35	1.39			
Case5_F3.1	Phase East Devon		70	1249	900	LM345-PLVA	1.15	1.09	FB115	1.06	1.04	1.06	1.04	1.05	1.02	1.02	1.01	1.03	1.03	1.13	1.09	1.11	1.07	1.15	1.08	1.06	1.04	1.12	1.06			
Case5_F4.3	Phase Norwalk Junction		70	1249	900	LM345-PLVA	1.73	1.57	ROCKY	1.37	1.22	1.21	1.22	1.27	1.19	1.16	1.15	1.30	1.20	1.24	1.18	1.27	1.24	1.27	1.24	1.31	1.25	1.73	1.57			
Case5_F5.3	Phase Singer		70	1249	900	LM345-PLVA	1.51	1.56	ROCKY	1.37	1.22	1.30	1.21	1.23	1.17	1.20	1.17	1.32	1.23	1.23	1.18	1.29	1.22	1.27	1.25	1.34	1.22	1.51	1.56			
Case5_F6.3	Phase Bt Norwalk 345		70	1249	900	LM345-PLVA	1.41	1.50	ROCKY	1.30	1.18	1.32	1.22	1.29	1.18	1.19	1.13	1.29	1.20	1.28	1.19	1.21	1.15	1.24	1.19	1.41	1.29	1.38	1.50			
Case5_F7.3	Phase Bt Plumtree 345		70	1249	900	LM345-PLVA	1.28	1.44	ROCKY	1.21	1.18	1.17	1.23	1.21	1.15	1.11	1.10	1.23	1.15	1.17	1.13	1.13	1.10	1.19	1.13	1.21	1.21	1.28	1.44			

CASE #: 5 With 30% Load Case
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

DATE: 12/16/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C
Case5_basNo Fault			30	0	500				1.07	1.07	ED345	1.06	1.06	1.06	1.06	1.07	1.07	1.05	1.05	1.07	1.07	1.07	1.07	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Case5_F1.3 Phase		Plumtree	30	0	500				1.38	1.29	NW345	1.36	1.28	1.34	1.24	1.38	1.29	1.28	1.20	1.38	1.28	1.23	1.15	1.25	1.18	1.20	1.12	1.29	1.23	1.25	1.21	
Case5_F2.3 Phase		East Devon	30	0	500				1.63	1.49	ED345	1.50	1.45	1.51	1.37	1.59	1.47	1.47	1.33	1.63	1.49	1.35	1.26	1.39	1.33	1.32	1.25	1.52	1.38	1.47	1.37	
Case5_F3.1 Phase		East Devon	30	0	500				1.11	1.08	PT115	1.10	1.07	1.11	1.07	1.11	1.08	1.08	1.06	1.10	1.08	1.09	1.08	1.08	1.07	1.07	1.06	1.11	1.06	1.09	1.06	
Case5_F4.3 Phase		Norwalk Junction	30	0	500				1.57	1.53	ED345	1.29	1.33	1.32	1.37	1.57	1.52	1.43	1.37	1.57	1.53	1.39	1.34	1.36	1.33	1.28	1.24	1.31	1.35	1.40	1.32	
Case5_F5.3 Phase		Singer	30	0	500				1.49	1.46	ED345	1.48	1.43	1.45	1.41	1.48	1.46	1.38	1.35	1.49	1.46	1.36	1.28	1.35	1.34	1.26	1.24	1.44	1.42	1.38	1.37	
Case5_F6.3 Phase Bt		Norwalk 345	30	0	500				1.52	1.51	ED345	1.47	1.44	1.39	1.39	1.52	1.50	1.40	1.36	1.52	1.51	1.37	1.29	1.38	1.33	1.27	1.25	1.39	1.36	1.36	1.33	
Case5_F7.3 Phase Bt		Plumtree 345	30	0	500				1.42	1.36	ED345	1.32	1.32	1.34	1.36	1.40	1.32	1.25	1.25	1.42	1.32	1.24	1.21	1.28	1.25	1.20	1.20	1.30	1.32	1.32	1.31	
Case5_basNo Fault			30	0	500	PT345-LM34	1.08	1.08	ED345	1.08	1.08	1.07	1.07	1.08	1.08	1.07	1.07	1.07	1.08	1.08	1.08	1.08	1.08	1.06	1.06	1.07	1.07	1.06	1.06	1.06	1.06	
Case5_F2.3 Phase		East Devon	30	0	500	PT345-LM34	1.47	1.19	ED345	1.45	1.19	1.37	1.17	1.46	1.19	1.27	1.14	1.47	1.19	1.14	1.11	1.24	1.12	1.14	1.09	1.33	1.16	1.25	1.14	1.18	1.14	
Case5_F3.1 Phase		East Devon	30	0	500	PT345-LM34	1.13	1.08	PT115	1.12	1.08	1.13	1.07	1.11	1.08	1.08	1.06	1.12	1.08	1.10	1.08	1.09	1.07	1.11	1.06	1.12	1.07	1.11	1.06	1.11	1.06	
Case5_F4.3 Phase		Norwalk Junction	30	0	500	PT345-LM34	1.54	1.52	ED345	1.43	1.33	1.42	1.33	1.54	1.52	1.39	1.34	1.54	1.52	1.29	1.26	1.34	1.31	1.21	1.21	1.45	1.34	1.33	1.38	1.31	1.31	
Case5_F5.3 Phase		Singer	30	0	500	PT345-LM34	1.58	1.55	ED345	1.57	1.52	1.55	1.42	1.57	1.54	1.45	1.39	1.58	1.55	1.32	1.27	1.38	1.32	1.28	1.22	1.54	1.39	1.47	1.37	1.37		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	500	PT345-LM34	1.68	1.59	NW345	1.63	1.52	1.61	1.45	1.68	1.57	1.53	1.42	1.67	1.59	1.33	1.26	1.43	1.34	1.32	1.19	1.64	1.43	1.58	1.34	1.34		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	500	PT345-LM34	1.43	1.34	PT345	1.43	1.34	1.37	1.31	1.38	1.34	1.30	1.23	1.40	1.34	1.21	1.17	1.28	1.24	1.20	1.17	1.35	1.31	1.27	1.24	1.24		
Case5_basNo Fault			30	0	500	BK345-ED34	1.07	1.07	ED345	1.07	1.07	1.07	1.07	1.07	1.07	1.06	1.06	1.07	1.07	1.07	1.07	1.07	1.07	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	
Case5_F1.3 Phase		Plumtree	30	0	500	BK345-ED34	1.34	1.15	ED345	1.28	1.15	1.20	1.14	1.33	1.15	1.25	1.08	1.34	1.15	1.10	1.08	1.10	1.10	1.11	1.10	1.10	1.10	1.14	1.18	1.14	1.14	
Case5_F4.3 Phase		Norwalk Junction	30	0	500	BK345-ED34	1.79	1.51	ED345	1.23	1.20	1.29	1.24	1.78	1.49	1.48	1.31	1.79	1.51	1.17	1.12	1.34	1.23	1.14	1.09	1.28	1.23	1.29	1.19	1.19		
Case5_F5.3 Phase		Singer	30	0	500	BK345-ED34	1.56	1.49	ED345	1.47	1.46	1.41	1.35	1.53	1.49	1.38	1.34	1.56	1.49	1.20	1.17	1.28	1.25	1.22	1.20	1.38	1.34	1.32	1.33	1.33		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	500	BK345-ED34	1.64	1.52	ED345	1.49	1.44	1.44	1.37	1.60	1.50	1.50	1.36	1.64	1.52	1.20	1.15	1.31	1.25	1.25	1.19	1.41	1.38	1.42	1.41	1.41		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	500	BK345-ED34	1.45	1.38	ED345	1.38	1.31	1.34	1.31	1.44	1.37	1.31	1.24	1.45	1.38	1.17	1.13	1.22	1.18	1.20	1.17	1.30	1.30	1.28	1.24	1.24		
Case5_basNo Fault			30	0	500	NE138-NO13	1.09	1.09	ED345	1.08	1.08	1.08	1.08	1.08	1.08	1.09	1.09	1.09	1.09	1.09	1.08	1.08	1.08	1.08	1.07	1.07	1.07	1.07	1.07	1.07		
Case5_F1.3 Phase		Plumtree	30	0	500	NE138-NO13	1.31	1.22	NW115	1.28	1.18	1.25	1.22	1.30	1.19	1.31	1.20	1.31	1.18	1.17	1.10	1.16	1.11	1.21	1.13	1.24	1.21	1.25	1.21	1.21		
Case5_F2.3 Phase		East Devon	30	0	500	NE138-NO13	1.49	1.31	ED345	1.34	1.27	1.39	1.24	1.48	1.29	1.48	1.31	1.49	1.31	1.29	1.18	1.30	1.22	1.24	1.20	1.39	1.23	1.37	1.25	1.25		
Case5_F3.1 Phase		East Devon	30	0	500	NE138-NO13	1.09	1.08	ED345	1.08	1.07	1.09	1.07	1.09	1.08	1.08	1.08	1.09	1.08	1.09	1.08	1.08	1.08	1.08	1.07	1.06	1.09	1.07	1.08	1.07		
Case5_F4.3 Phase		Norwalk Junction	30	0	500	NE138-NO13	1.40	1.37	ED345	1.22	1.24	1.26	1.23	1.40	1.37	1.39	1.36	1.40	1.37	1.28	1.23	1.28	1.25	1.21	1.19	1.27	1.22	1.33	1.23	1.23		
Case5_F5.3 Phase		Singer	30	0	500	NE138-NO13	1.43	1.41	ED345	1.41	1.38	1.36	1.37	1.42	1.40	1.42	1.41	1.43	1.40	1.32	1.28	1.32	1.30	1.27	1.24	1.35	1.34	1.33	1.29	1.29		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	500	NE138-NO13	1.49	1.44	ED345	1.41	1.36	1.44	1.39	1.45	1.43	1.42	1.39	1.49	1.44	1.34	1.26	1.32	1.28	1.26	1.20	1.45	1.35	1.40	1.31	1.31		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	500	NE138-NO13	1.34	1.28	ED345	1.30	1.27	1.30	1.26	1.33	1.27	1.32	1.28	1.34	1.28	1.24	1.18	1.26	1.21	1.20	1.16	1.28	1.27	1.28	1.26	1.26		
Case5_basNo Fault			30	0	500	LM345-PLVA	1.09	1.09	ED345	1.09	1.09	1.08	1.08	1.09	1.09	1.07	1.07	1.09	1.09	1.08	1.08	1.08	1.08	1.07	1.07	1.08	1.08	1.07	1.07	1.07		
Case5_F1.3 Phase		Plumtree	30	0	500	LM345-PLVA	1.47	1.38	ED345	1.44	1.34	1.37	1.31	1.47	1.38	1.36	1.24	1.47	1.37	1.27	1.21	1.34	1.28	1.25	1.23	1.36	1.29	1.36	1.31	1.31		
Case5_F2.3 Phase		East Devon	30	0	500	LM345-PLVA	1.59	1.34	ED345	1.56	1.31	1.50	1.32	1.59	1.34	1.42	1.28	1.59	1.34	1.34	1.21	1.44	1.25	1.28	1.20	1.52	1.31	1.40	1.29	1.29		
Case5_F3.1 Phase		East Devon	30	0	500	LM345-PLVA	1.11	1.09	STONY	1.09	1.08	1.11	1.08	1.09	1.09	1.07	1.07	1.09	1.09	1.09	1.08	1.08	1.08	1.08	1.06	1.11	1.07	1.10	1.07	1.07		
Case5_F4.3 Phase		Norwalk Junction	30	0	500	LM345-PLVA	1.56	1.54	ED345	1.32	1.33	1.37	1.36	1.55	1.54	1.40	1.38	1.56	1.54	1.33	1.31	1.39	1.37	1.28	1.24	1.36	1.34	1.36	1.31	1.31		
Case5_F5.3 Phase		Singer	30	0	500	LM345-PLVA	1.60	1.52	ED345	1.53	1.50	1.51	1.42	1.59	1.52	1.46	1.38	1.60	1.52	1.37	1.32	1.43	1.36	1.34	1.26	1.53	1.41	1.49	1.40	1.40		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	500	LM345-PLVA	1.68	1.56	ED345	1.58	1.45	1.49	1.42	1.66	1.55	1.51	1.41	1.68	1.56	1.39	1.31	1.48	1.36	1.32	1.26	1.45	1.41	1.43	1.36	1.36		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	500	LM345-PLVA	1.46	1.38	ED345	1.43	1.34	1.34	1.29	1.46	1.38	1.33	1.24	1.46	1.37	1.28	1.25	1.32	1.30	1.27	1.20	1.34	1.30	1.35	1.28	1.28		

CASE #: 5 With 30% Load Case
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

DATE: 12/16/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C
Case5_basNo Fault			40	0	500				1.07	1.07	ED345	1.06	1.06	1.06	1.06	1.07	1.07	1.05	1.05	1.07	1.07	1.07	1.07	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Case5_F1_3 Phase	Plumtree		40	0	500				1.38	1.29	NW345	1.36	1.28	1.34	1.24	1.38	1.29	1.28	1.20	1.38	1.28	1.23	1.15	1.25	1.18	1.20	1.12	1.29	1.23	1.25	1.21	
Case5_F2_3 Phase	East Devon		40	0	500				1.59	1.42	ED345	1.45	1.39	1.40	1.29	1.54	1.42	1.39	1.26	1.59	1.41	1.26	1.19	1.30	1.24	1.24	1.18	1.37	1.30	1.33	1.28	
Case5_F3_1 Phase	East Devon		40	0	500				1.09	1.07	BK345	1.08	1.06	1.08	1.05	1.09	1.06	1.06	1.05	1.09	1.07	1.09	1.07	1.06	1.06	1.05	1.04	1.07	1.05	1.07	1.04	
Case5_F4_3 Phase	Norwalk Junction		40	0	500				1.52	1.47	NW345	1.29	1.32	1.29	1.32	1.52	1.47	1.37	1.33	1.52	1.46	1.32	1.28	1.30	1.28	1.20	1.22	1.31	1.30	1.32	1.25	
Case5_F5_3 Phase	Singer		40	0	500				1.48	1.43	NW345	1.42	1.38	1.43	1.39	1.48	1.42	1.37	1.31	1.48	1.43	1.31	1.25	1.33	1.29	1.24	1.20	1.42	1.36	1.35	1.30	
Case5_F6_3 Phase Bt	Norwalk 345		40	0	500				1.48	1.44	NW345	1.43	1.39	1.36	1.35	1.48	1.44	1.34	1.32	1.47	1.44	1.32	1.25	1.32	1.26	1.23	1.19	1.36	1.32	1.28	1.29	
Case5_F7_3 Phase Bt	Plumtree 345		40	0	500				1.33	1.31	NW345	1.29	1.27	1.32	1.31	1.33	1.27	1.23	1.20	1.33	1.27	1.23	1.19	1.25	1.19	1.18	1.16	1.29	1.27	1.26	1.23	
Case5_basNo Fault			40	0	500	PT345-LM34	1.07	1.07	ED345	1.06	1.06	1.05	1.05	1.07	1.07	1.05	1.05	1.07	1.07	1.06	1.06	1.06	1.06	1.06	1.04	1.04	1.05	1.05	1.04	1.04	1.04	
Case5_F2_3 Phase	East Devon		40	0	500	PT345-LM34	1.45	1.18	NW345	1.42	1.16	1.34	1.12	1.45	1.18	1.25	1.10	1.44	1.18	1.12	1.10	1.18	1.08	1.09	1.06	1.29	1.11	1.20	1.10	1.10	1.10	
Case5_F3_1 Phase	East Devon		40	0	500	PT345-LM34	1.10	1.06	BK345	1.07	1.06	1.05	1.04	1.07	1.06	1.05	1.04	1.08	1.06	1.10	1.06	1.07	1.05	1.07	1.04	1.05	1.04	1.06	1.04	1.06	1.04	
Case5_F4_3 Phase	Norwalk Junction		40	0	500	PT345-LM34	1.48	1.44	NW345	1.33	1.25	1.31	1.25	1.48	1.44	1.33	1.31	1.47	1.44	1.25	1.23	1.26	1.24	1.19	1.15	1.29	1.14	1.24	1.28	1.24		
Case5_F5_3 Phase	Singer		40	0	500	PT345-LM34	1.53	1.45	ED345	1.51	1.45	1.42	1.35	1.50	1.45	1.39	1.29	1.53	1.45	1.27	1.22	1.30	1.23	1.21	1.16	1.42	1.33	1.37	1.28			
Case5_F6_3 Phase Bt	Norwalk 345		40	0	500	PT345-LM34	1.59	1.49	ED345	1.52	1.44	1.53	1.35	1.58	1.48	1.45	1.34	1.59	1.49	1.27	1.22	1.36	1.25	1.23	1.13	1.52	1.35	1.44	1.25			
Case5_F7_3 Phase Bt	Plumtree 345		40	0	500	PT345-LM34	1.34	1.27	PT345	1.34	1.25	1.31	1.22	1.33	1.27	1.24	1.19	1.34	1.27	1.18	1.11	1.21	1.15	1.13	1.10	1.29	1.22	1.22	1.20			
Case5_basNo Fault			40	0	500	BK345-ED34	1.06	1.06	BK345	1.06	1.06	1.05	1.05	1.06	1.06	1.05	1.05	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.04	1.04	1.05	1.05	1.04	1.04	
Case5_F1_3 Phase	Plumtree		40	0	500	BK345-ED34	1.31	1.11	ED345	1.23	1.11	1.16	1.09	1.28	1.11	1.19	1.06	1.31	1.11	1.09	1.07	1.07	1.08	1.11	1.07	1.15	1.09	1.14	1.09			
Case5_F4_3 Phase	Norwalk Junction		40	0	500	BK345-ED34	1.72	1.46	NW345	1.23	1.17	1.26	1.19	1.72	1.45	1.41	1.25	1.72	1.46	1.13	1.11	1.27	1.18	1.09	1.06	1.27	1.17	1.22	1.12			
Case5_F5_3 Phase	Singer		40	0	500	BK345-ED34	1.52	1.41	ED345	1.44	1.40	1.38	1.29	1.49	1.40	1.32	1.28	1.52	1.41	1.17	1.13	1.23	1.20	1.18	1.16	1.35	1.26	1.27	1.27			
Case5_F6_3 Phase Bt	Norwalk 345		40	0	500	BK345-ED34	1.58	1.45	ED345	1.43	1.39	1.35	1.30	1.55	1.44	1.41	1.28	1.58	1.45	1.15	1.11	1.23	1.19	1.19	1.15	1.34	1.31	1.33	1.33			
Case5_F7_3 Phase Bt	Plumtree 345		40	0	500	BK345-ED34	1.40	1.33	ED345	1.34	1.25	1.32	1.28	1.39	1.32	1.26	1.19	1.40	1.33	1.12	1.10	1.17	1.14	1.15	1.13	1.28	1.28	1.24	1.22			
Case5_basNo Fault			40	0	500	NE138-NO13	1.07	1.07	ED345	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.07	1.07	1.06	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05		
Case5_F1_3 Phase	Plumtree		40	0	500	NE138-NO13	1.24	1.23	ED345	1.21	1.14	1.20	1.19	1.23	1.14	1.22	1.14	1.24	1.14	1.12	1.08	1.09	1.07	1.12	1.08	1.19	1.19	1.15	1.23			
Case5_F2_3 Phase	East Devon		40	0	500	NE138-NO13	1.43	1.26	ED345	1.30	1.24	1.34	1.20	1.40	1.24	1.37	1.23	1.43	1.26	1.20	1.11	1.21	1.14	1.17	1.13	1.34	1.20	1.31	1.20			
Case5_F3_1 Phase	East Devon		40	0	500	NE138-NO13	1.08	1.06	BK345	1.06	1.05	1.06	1.05	1.06	1.06	1.06	1.05	1.07	1.06	1.08	1.06	1.06	1.06	1.06	1.05	1.04	1.06	1.04	1.07	1.04		
Case5_F4_3 Phase	Norwalk Junction		40	0	500	NE138-NO13	1.34	1.31	NW345	1.21	1.22	1.19	1.19	1.34	1.31	1.32	1.28	1.34	1.31	1.23	1.18	1.20	1.17	1.16	1.17	1.23	1.17	1.24	1.15			
Case5_F5_3 Phase	Singer		40	0	500	NE138-NO13	1.37	1.33	ED345	1.34	1.32	1.33	1.26	1.37	1.33	1.34	1.33	1.37	1.33	1.27	1.21	1.23	1.20	1.19	1.16	1.30	1.26	1.26	1.23			
Case5_F6_3 Phase Bt	Norwalk 345		40	0	500	NE138-NO13	1.41	1.35	ED345	1.33	1.31	1.36	1.32	1.38	1.34	1.35	1.31	1.41	1.35	1.28	1.20	1.23	1.18	1.19	1.16	1.35	1.29	1.33	1.28			
Case5_F7_3 Phase Bt	Plumtree 345		40	0	500	NE138-NO13	1.29	1.25	ED345	1.26	1.21	1.27	1.25	1.27	1.21	1.25	1.20	1.29	1.23	1.19	1.13	1.20	1.14	1.16	1.12	1.24	1.22	1.25	1.23			
Case5_basNo Fault			40	0	500	LM345-PLVA	1.07	1.07	ED345	1.07	1.07	1.06	1.06	1.07	1.07	1.05	1.05	1.07	1.07	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05			
Case5_F1_3 Phase	Plumtree		40	0	500	LM345-PLVA	1.39	1.29	ED345	1.38	1.27	1.31	1.25	1.37	1.29	1.27	1.18	1.39	1.28	1.21	1.15	1.25	1.19	1.17	1.14	1.31	1.24	1.25	1.26			
Case5_F2_3 Phase	East Devon		40	0	500	LM345-PLVA	1.55	1.31	ED345	1.47	1.29	1.46	1.26	1.53	1.30	1.37	1.23	1.55	1.31	1.26	1.15	1.33	1.16	1.24	1.15	1.42	1.25	1.34	1.22			
Case5_F3_1 Phase	East Devon		40	0	500	LM345-PLVA	1.07	1.07	BK345	1.07	1.06	1.05	1.05	1.07	1.07	1.04	1.04	1.07	1.07	1.07	1.06	1.06	1.06	1.04	1.04	1.05	1.05	1.05	1.04			
Case5_F4_3 Phase	Norwalk Junction		40	0	500	LM345-PLVA	1.49	1.46	ED345	1.29	1.25	1.29	1.25	1.49	1.45	1.33	1.30	1.49	1.46	1.29	1.24	1.30	1.26	1.21	1.20	1.27	1.24	1.25	1.24			
Case5_F5_3 Phase	Singer		40	0	500	LM345-PLVA	1.53	1.43	ED345	1.47	1.41	1.43	1.36	1.51	1.43	1.39	1.27	1.53	1.43	1.32	1.27	1.34	1.27	1.27	1.20	1.43	1.35	1.39	1.29			
Case5_F6_3 Phase Bt	Norwalk 345		40	0	500	LM345-PLVA	1.57	1.46	ED345	1.48	1.40	1.42	1.33	1.56	1.45	1.44	1.31	1.57	1.46	1.33	1.23	1.36	1.25	1.26	1.20	1.40	1.30	1.35	1.30			
Case5_F7_3 Phase Bt	Plumtree 345		40	0	500	LM345-PLVA	1.36	1.28	ED345	1.34	1.24	1.29	1.22	1.35	1.28	1.25	1.19	1.36	1.28	1.22	1.16	1.24	1.20	1.18	1.12	1.28	1.22	1.24	1.22			

CASE #: 5 With 30% Load Case
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

DATE: 12/16/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																										
										LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY	
																	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		50	302	690				1.06	1.06	ESHOR	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.05	1.05	1.06	1.06	1.06	1.06	1.05	1.05	1.04	1.04	1.04	1.04					
Case5_F1.3	Phase Plumtree		50	302	690				1.29	1.22	PT345	1.29	1.16	1.27	1.19	1.26	1.18	1.14	1.11	1.27	1.17	1.21	1.12	1.18	1.11	1.09	1.10	1.24	1.22	1.19	1.17					
Case5_F2.3	Phase East Devon		50	302	690				1.49	1.31	ED345	1.39	1.24	1.27	1.23	1.48	1.30	1.31	1.19	1.49	1.31	1.24	1.11	1.27	1.15	1.20	1.17	1.24	1.19	1.22	1.17					
Case5_F3.1	Phase East Devon		50	302	690				1.08	1.07	BK345	1.05	1.04	1.04	1.03	1.04	1.04	1.04	1.03	1.04	1.04	1.08	1.07	1.06	1.06	1.05	1.04	1.04	1.04	1.04	1.03					
Case5_F4.3	Phase Norwalk Junction		50	302	690				1.46	1.37	ED345	1.26	1.22	1.23	1.22	1.44	1.37	1.30	1.27	1.46	1.37	1.33	1.23	1.30	1.20	1.18	1.13	1.24	1.26	1.20	1.23					
Case5_F5.3	Phase Singer		50	302	690				1.41	1.33	ED345	1.38	1.30	1.31	1.28	1.38	1.33	1.28	1.27	1.41	1.33	1.34	1.22	1.31	1.28	1.20	1.18	1.31	1.29	1.28	1.24					
Case5_F6.3	Phase Bt Norwalk 345		50	302	690				1.44	1.34	ED345	1.35	1.28	1.28	1.27	1.41	1.34	1.30	1.24	1.44	1.33	1.38	1.22	1.30	1.20	1.19	1.15	1.28	1.24	1.24	1.20					
Case5_F7.3	Phase Bt Plumtree 345		50	302	690				1.26	1.26	PT115	1.25	1.22	1.25	1.26	1.24	1.19	1.19	1.17	1.26	1.20	1.19	1.13	1.18	1.16	1.13	1.13	1.25	1.24	1.22	1.16					
Case5_bas	No Fault		50	302	690	PT345-LM34	1.05	1.05	BK345	1.03	1.03	1.03	1.03	1.04	1.04	1.03	1.03	1.04	1.04	1.05	1.05	1.05	1.04	1.04	1.03	1.03	1.03	1.03	1.03	1.03	1.03					
Case5_F2.3	Phase East Devon		50	302	690	PT345-LM34	1.26	1.11	NW345	1.25	1.03	1.15	1.07	1.26	1.05	1.10	1.02	1.25	1.05	1.16	1.10	1.07	1.05	1.11	1.11	1.11	1.26	1.08	1.14	1.07	1.07					
Case5_F3.1	Phase East Devon		50	302	690	PT345-LM34	1.09	1.07	BK345	1.02	1.01	1.01	1.01	1.02	1.01	1.01	1.01	1.01	1.01	1.02	1.01	1.09	1.07	1.05	1.04	1.04	1.04	1.01	1.01	1.02	1.01					
Case5_F4.3	Phase Norwalk Junction		50	302	690	PT345-LM34	1.42	1.33	NW345	1.28	1.23	1.28	1.22	1.42	1.32	1.26	1.25	1.41	1.33	1.23	1.16	1.22	1.17	1.13	1.12	1.22	1.21	1.18	1.17	1.17	1.17					
Case5_F5.3	Phase Singer		50	302	690	PT345-LM34	1.50	1.33	ED345	1.48	1.31	1.34	1.23	1.47	1.32	1.29	1.23	1.50	1.33	1.25	1.18	1.26	1.17	1.15	1.13	1.35	1.20	1.24	1.17	1.17						
Case5_F6.3	Phase Bt Norwalk 345		50	302	690	PT345-LM34	1.51	1.30	NW345	1.48	1.28	1.43	1.20	1.51	1.30	1.34	1.19	1.50	1.30	1.24	1.16	1.28	1.13	1.16	1.09	1.40	1.17	1.29	1.14	1.14						
Case5_F7.3	Phase Bt Plumtree 345		50	302	690	PT345-LM34	1.31	1.21	STONY	1.25	1.15	1.26	1.20	1.21	1.15	1.13	1.10	1.21	1.15	1.12	1.09	1.11	1.08	1.08	1.06	1.31	1.21	1.21	1.14	1.14						
Case5_bas	No Fault		50	302	690	BK345-ED34	1.06	1.06	BK345	1.04	1.04	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.06	1.06	1.06	1.06	1.04	1.04	1.04	1.04	1.04	1.03	1.03						
Case5_F1.3	Phase Plumtree		50	302	690	BK345-ED34	1.20	1.11	STONY	1.12	1.02	1.09	1.07	1.14	1.04	1.05	1.00	1.16	1.04	1.19	1.11	1.03	1.04	1.07	1.08	1.20	1.09	1.10	1.06	1.06						
Case5_F4.3	Phase Norwalk Junction		50	302	690	BK345-ED34	1.57	1.31	ED345	1.16	1.12	1.16	1.13	1.57	1.31	1.32	1.13	1.57	1.31	1.09	1.10	1.14	1.05	1.09	1.08	1.21	1.18	1.16	1.15	1.15						
Case5_F5.3	Phase Singer		50	302	690	BK345-ED34	1.46	1.31	ED345	1.35	1.28	1.29	1.28	1.42	1.31	1.29	1.21	1.46	1.31	1.20	1.12	1.21	1.17	1.15	1.12	1.29	1.25	1.24	1.19	1.19						
Case5_F6.3	Phase Bt Norwalk 345		50	302	690	BK345-ED34	1.51	1.32	ED345	1.38	1.23	1.28	1.25	1.49	1.31	1.33	1.18	1.51	1.32	1.15	1.10	1.19	1.12	1.15	1.10	1.30	1.20	1.20	1.16	1.16						
Case5_F7.3	Phase Bt Plumtree 345		50	302	690	BK345-ED34	1.34	1.26	ED345	1.31	1.22	1.29	1.26	1.32	1.21	1.19	1.14	1.34	1.21	1.12	1.09	1.13	1.11	1.13	1.10	1.28	1.22	1.17	1.15	1.15						
Case5_bas	No Fault		50	302	690	NE138-NO13	1.06	1.06	ESHOR	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.05	1.05	1.06	1.06	1.04	1.04	1.04	1.04	1.04	1.04						
Case5_F1.3	Phase Plumtree		50	302	690	NE138-NO13	1.17	1.10	BK345	1.11	1.03	1.17	1.08	1.11	1.04	1.09	1.03	1.11	1.04	1.17	1.08	1.06	1.05	1.08	1.09	1.17	1.10	1.11	1.06	1.06						
Case5_F2.3	Phase East Devon		50	302	690	NE138-NO13	1.29	1.13	ED345	1.20	1.08	1.15	1.11	1.28	1.13	1.22	1.08	1.29	1.13	1.20	1.10	1.15	1.05	1.15	1.12	1.18	1.10	1.18	1.09	1.09						
Case5_F3.1	Phase East Devon		50	302	690	NE138-NO13	1.08	1.06	BK345	1.04	1.03	1.03	1.02	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.08	1.06	1.05	1.05	1.04	1.04	1.03	1.03	1.03	1.03						
Case5_F4.3	Phase Norwalk Junction		50	302	690	NE138-NO13	1.31	1.22	ED345	1.21	1.17	1.21	1.18	1.30	1.22	1.25	1.17	1.31	1.21	1.25	1.14	1.19	1.08	1.11	1.12	1.19	1.19	1.19	1.18	1.18						
Case5_F5.3	Phase Singer		50	302	690	NE138-NO13	1.35	1.27	ED345	1.27	1.23	1.27	1.24	1.32	1.26	1.30	1.23	1.35	1.27	1.24	1.16	1.21	1.16	1.14	1.11	1.29	1.22	1.25	1.17	1.17						
Case5_F6.3	Phase Bt Norwalk 345		50	302	690	NE138-NO13	1.32	1.24	ED345	1.25	1.18	1.22	1.20	1.32	1.24	1.30	1.23	1.32	1.24	1.25	1.13	1.23	1.11	1.12	1.07	1.27	1.18	1.21	1.16	1.16						
Case5_F7.3	Phase Bt Plumtree 345		50	302	690	NE138-NO13	1.24	1.19	PT115	1.21	1.15	1.24	1.19	1.18	1.12	1.16	1.11	1.17	1.12	1.14	1.08	1.11	1.09	1.11	1.08	1.21	1.17	1.17	1.10	1.10						
Case5_bas	No Fault		50	302	690	LM345-PLVA	1.05	1.05	ESHOR	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.04	1.04	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.03	1.03							
Case5_F1.3	Phase Plumtree		50	302	690	LM345-PLVA	1.32	1.16	STONY	1.27	1.14	1.29	1.14	1.24	1.15	1.14	1.09	1.24	1.15	1.16	1.11	1.18	1.11	1.17	1.14	1.32	1.16	1.26	1.14	1.14						
Case5_F2.3	Phase East Devon		50	302	690	LM345-PLVA	1.41	1.17	ED345	1.31	1.11	1.20	1.14	1.40	1.16	1.18	1.06	1.41	1.17	1.19	1.12	1.27	1.07	1.19	1.09	1.30	1.16	1.22	1.12	1.12						
Case5_F3.1	Phase East Devon		50	302	690	LM345-PLVA	1.08	1.06	BK345	1.03	1.03	1.03	1.02	1.03	1.03	1.02	1.02	1.03	1.03	1.08	1.06	1.05	1.05	1.03	1.03	1.03	1.02	1.03	1.02							
Case5_F4.3	Phase Norwalk Junction		50	302	690	LM345-PLVA	1.40	1.31	ED345	1.27	1.25	1.26	1.24	1.40	1.31	1.26	1.23	1.40	1.31	1.33	1.23	1.40	1.22	1.18	1.18	1.25	1.24	1.21	1.19	1.19						
Case5_F5.3	Phase Singer		50	302	690	LM345-PLVA	1.45	1.33	ED345	1.43	1.31	1.27	1.21	1.41	1.31	1.27	1.22	1.45	1.33	1.33	1.20	1.37	1.19	1.24	1.15	1.27	1.19	1.24	1.16	1.16						
Case5_F6.3	Phase Bt Norwalk 345		50	302	690	LM345-PLVA	1.46	1.28	NW345	1.40	1.22	1.34	1.17	1.46	1.28	1.32	1.16	1.44	1.28	1.31	1.19	1.40	1.14	1.25	1.11	1.26	1.17	1.24	1.12	1.12						
Case5_F7.3	Phase Bt Plumtree 345		50	302	690	LM345-PLVA	1.29	1.18	STONY	1.23	1.15	1.26	1.17	1.23	1.15	1.13	1.08	1.23	1.15	1.15	1.10	1.20	1.09	1.15	1.13	1.29	1.18	1.20	1.14	1.14						

CASE #: 5 With 30% Load Case
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

DATE: 12/16/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		70	1249	900				1.10	1.10	FB115	1.05	1.05	1.06	1.06	1.04	1.04	1.04	1.04	1.05	1.05	1.07	1.07	1.09	1.09	1.10	1.10	1.07	1.07	1.08	1.08
Case5_F1_3	Phase Plumtree		70	1249	900				1.48	1.41	ROCKY	1.22	1.13	1.26	1.24	1.17	1.10	1.13	1.05	1.16	1.11	1.16	1.10	1.09	1.07	1.14	1.14	1.21	1.24	1.48	1.41
Case5_F2_3	Phase East Devon		70	1249	900				1.53	1.31	ROCKY	1.23	1.10	1.21	1.14	1.30	1.14	1.22	1.14	1.33	1.14	1.19	1.13	1.22	1.09	1.24	1.18	1.22	1.11	1.53	1.31
Case5_F3_1	Phase East Devon		70	1249	900				1.10	1.10	BK345	1.05	1.03	1.05	1.05	1.03	1.02	1.03	1.03	1.03	1.03	1.10	1.09	1.09	1.09	1.10	1.10	1.05	1.05	1.08	1.07
Case5_F4_3	Phase Norwalk Junction		70	1249	900				1.53	1.46	ROCKY	1.26	1.17	1.16	1.14	1.26	1.13	1.19	1.22	1.27	1.13	1.24	1.13	1.25	1.16	1.26	1.20	1.18	1.19	1.53	1.46
Case5_F5_3	Phase Singer		70	1249	900				1.64	1.39	ROCKY	1.28	1.12	1.23	1.19	1.28	1.15	1.19	1.15	1.34	1.17	1.23	1.14	1.27	1.14	1.35	1.31	1.27	1.23	1.64	1.39
Case5_F6_3	Phase Bt Norwalk 345		70	1249	900				1.57	1.37	ROCKY	1.23	1.12	1.25	1.22	1.25	1.12	1.17	1.16	1.25	1.13	1.22	1.12	1.25	1.11	1.30	1.26	1.27	1.24	1.57	1.37
Case5_F7_3	Phase Bt Plumtree 345		70	1249	900				1.60	1.55	ROCKY	1.19	1.16	1.23	1.21	1.18	1.15	1.16	1.11	1.20	1.15	1.17	1.12	1.12	1.09	1.15	1.13	1.23	1.15	1.60	1.55
Case5_bas	No Fault		70	1249	900	PT345-LM34	1.09	1.09	FB115	1.03	1.03	1.04	1.04	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.06	1.08	1.08	1.09	1.09	1.05	1.05	1.07	1.07	
Case5_F2_3	Phase East Devon		70	1249	900	PT345-LM34	1.27	1.14	ROCKY	1.20	0.99	1.10	1.01	1.13	0.99	1.05	0.99	1.15	1.00	1.17	1.13	1.08	1.10	1.12	1.14	1.09	1.06	1.27	1.09		
Case5_F3_1	Phase East Devon		70	1249	900	PT345-LM34	1.10	1.08	BK345	0.99	0.99	1.01	1.00	0.99	0.99	0.99	0.99	0.99	0.99	0.99	1.10	1.08	1.07	1.07	1.08	1.08	1.01	1.01	1.04	1.04	
Case5_F4_3	Phase Norwalk Junction		70	1249	900	PT345-LM34	1.83	1.46	ROCKY	1.37	1.19	1.21	1.13	1.17	1.15	1.13	1.13	1.16	1.15	1.24	1.12	1.15	1.07	1.24	1.19	1.17	1.14	1.83	1.46		
Case5_F5_3	Phase Singer		70	1249	900	PT345-LM34	1.56	1.32	ROCKY	1.21	1.12	1.25	1.18	1.21	1.11	1.18	1.12	1.30	1.12	1.20	1.14	1.16	1.08	1.25	1.18	1.25	1.18	1.56	1.32		
Case5_F6_3	Phase Bt Norwalk 345		70	1249	900	PT345-LM34	1.51	1.37	ROCKY	1.24	1.12	1.24	1.21	1.16	1.09	1.14	1.10	1.19	1.10	1.20	1.14	1.13	1.07	1.23	1.13	1.24	1.23	1.51	1.37		
Case5_F7_3	Phase Bt Plumtree 345		70	1249	900	PT345-LM34	1.50	1.42	ROCKY	1.14	1.12	1.17	1.17	1.14	1.08	1.08	1.06	1.16	1.09	1.11	1.09	1.07	1.08	1.12	1.11	1.14	1.16	1.50	1.42		
Case5_bas	No Fault		70	1249	900	BK345-ED34	1.10	1.10	FB115	1.03	1.03	1.05	1.05	1.02	1.02	1.03	1.03	1.02	1.02	1.02	1.08	1.08	1.09	1.10	1.10	1.05	1.05	1.07	1.07		
Case5_F1_3	Phase Plumtree		70	1249	900	BK345-ED34	1.41	1.39	ROCKY	1.12	1.00	1.22	1.12	1.06	1.00	1.01	0.98	1.06	1.01	1.21	1.13	1.07	1.07	1.16	1.15	1.17	1.13	1.41	1.39		
Case5_F4_3	Phase Norwalk Junction		70	1249	900	BK345-ED34	1.38	1.33	ROCKY	1.17	1.12	1.16	1.12	1.32	1.10	1.17	1.10	1.32	1.11	1.14	1.11	1.11	1.07	1.17	1.17	1.19	1.21	1.38	1.33		
Case5_F5_3	Phase Singer		70	1249	900	BK345-ED34	1.41	1.26	ROCKY	1.22	1.13	1.24	1.17	1.21	1.14	1.21	1.14	1.25	1.14	1.14	1.12	1.17	1.09	1.23	1.20	1.24	1.19	1.41	1.26		
Case5_F6_3	Phase Bt Norwalk 345		70	1249	900	BK345-ED34	1.48	1.23	ROCKY	1.21	1.11	1.28	1.18	1.20	1.12	1.19	1.14	1.20	1.12	1.12	1.11	1.17	1.08	1.22	1.17	1.29	1.17	1.48	1.23		
Case5_F7_3	Phase Bt Plumtree 345		70	1249	900	BK345-ED34	1.52	1.50	ROCKY	1.21	1.12	1.25	1.24	1.18	1.11	1.13	1.10	1.20	1.13	1.15	1.11	1.12	1.07	1.17	1.12	1.17	1.21	1.52	1.50		
Case5_bas	No Fault		70	1249	900	NE138-NO13	1.09	1.09	FB115	1.03	1.03	1.05	1.05	1.03	1.03	1.04	1.04	1.03	1.03	1.06	1.06	1.08	1.08	1.09	1.09	1.05	1.05	1.07	1.07		
Case5_F1_3	Phase Plumtree		70	1249	900	NE138-NO13	1.35	1.39	ROCKY	1.10	1.02	1.18	1.12	1.05	1.02	1.05	1.01	1.06	1.03	1.12	1.07	1.06	1.06	1.10	1.09	1.15	1.14	1.35	1.39		
Case5_F2_3	Phase East Devon		70	1249	900	NE138-NO13	1.35	1.11	ROCKY	1.07	1.02	1.08	1.05	1.10	1.01	1.13	1.06	1.10	1.01	1.17	1.11	1.09	1.09	1.13	1.08	1.09	1.07	1.35	1.09		
Case5_F3_1	Phase East Devon		70	1249	900	NE138-NO13	1.11	1.08	BK345	1.02	1.01	1.03	1.03	1.01	1.00	1.02	1.02	1.02	1.01	1.11	1.08	1.07	1.07	1.08	1.08	1.04	1.03	1.06	1.05		
Case5_F4_3	Phase Norwalk Junction		70	1249	900	NE138-NO13	1.57	1.46	ROCKY	1.30	1.15	1.16	1.16	1.13	1.09	1.13	1.10	1.14	1.10	1.17	1.08	1.13	1.06	1.15	1.12	1.17	1.16	1.57	1.46		
Case5_F5_3	Phase Singer		70	1249	900	NE138-NO13	1.42	1.26	ROCKY	1.18	1.08	1.19	1.11	1.15	1.07	1.16	1.11	1.19	1.08	1.15	1.09	1.15	1.07	1.24	1.23	1.23	1.15	1.42	1.26		
Case5_F6_3	Phase Bt Norwalk 345		70	1249	900	NE138-NO13	1.43	1.25	ROCKY	1.13	1.08	1.19	1.13	1.13	1.07	1.13	1.10	1.15	1.07	1.17	1.10	1.12	1.06	1.21	1.18	1.20	1.15	1.43	1.25		
Case5_F7_3	Phase Bt Plumtree 345		70	1249	900	NE138-NO13	1.54	1.46	ROCKY	1.12	1.09	1.18	1.18	1.08	1.06	1.13	1.08	1.10	1.07	1.13	1.08	1.06	1.07	1.10	1.10	1.17	1.15	1.54	1.46		
Case5_bas	No Fault		70	1249	900	LM345-PLVA	1.09	1.09	FB115	1.04	1.04	1.05	1.05	1.04	1.04	1.03	1.03	1.04	1.04	1.06	1.06	1.08	1.08	1.09	1.09	1.06	1.06	1.07	1.07		
Case5_F1_3	Phase Plumtree		70	1249	900	LM345-PLVA	1.37	1.47	ROCKY	1.21	1.11	1.25	1.20	1.11	1.07	1.09	1.03	1.11	1.08	1.12	1.09	1.11	1.08	1.16	1.15	1.26	1.21	1.37	1.47		
Case5_F2_3	Phase East Devon		70	1249	900	LM345-PLVA	1.39	1.19	ROCKY	1.16	1.06	1.15	1.08	1.21	1.07	1.11	1.05	1.22	1.08	1.18	1.11	1.08	1.08	1.11	1.12	1.16	1.10	1.39	1.19		
Case5_F3_1	Phase East Devon		70	1249	900	LM345-PLVA	1.09	1.08	BK345	1.04	1.03	1.04	1.03	1.02	1.02	1.01	1.01	1.03	1.02	1.09	1.07	1.07	1.07	1.08	1.08	1.04	1.04	1.06	1.06		
Case5_F4_3	Phase Norwalk Junction		70	1249	900	LM345-PLVA	1.57	1.54	ROCKY	1.22	1.19	1.22	1.22	1.19	1.11	1.15	1.13	1.20	1.12	1.18	1.11	1.24	1.12	1.24	1.19	1.25	1.19	1.57	1.54		
Case5_F5_3	Phase Singer		70	1249	900	LM345-PLVA	1.56	1.29	ROCKY	1.22	1.10	1.21	1.12	1.17	1.10	1.17	1.10	1.23	1.15	1.18	1.10	1.22	1.07	1.25	1.21	1.22	1.15	1.56	1.29		
Case5_F6_3	Phase Bt Norwalk 345		70	1249	900	LM345-PLVA	1.50	1.29	ROCKY	1.18	1.09	1.22	1.15	1.18	1.08	1.13	1.09	1.20	1.08	1.19	1.09	1.15	1.07	1.19	1.15	1.29	1.17	1.50	1.29		
Case5_F7_3	Phase Bt Plumtree 345		70	1249	900	LM345-PLVA	1.44	1.39	ROCKY	1.18	1.12	1.23	1.21	1.15	1.08	1.10	1.05	1.15	1.09	1.13	1.08	1.10	1.07	1.13	1.12	1.21	1.20	1.44	1.39		

CASE #: 5A - Case 5 (Old) + 20 Miles of Cable

DATE: 12/07/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_basNo Fault			40	0	500				1.13	1.13	ED345	1.09	1.09	1.08	1.08	1.11	1.11	1.08	1.08	1.13	1.13	1.08	1.08	1.07	1.07	1.05	1.05	1.07	1.07	1.06	1.06
Case5_F1.3 Phase		Plumtree	40	0	500				1.72	1.65	ED345	1.67	1.59	1.53	1.48	1.71	1.64	1.47	1.43	1.72	1.65	1.44	1.34	1.39	1.33	1.35	1.26	1.54	1.46	1.42	1.36
Case5_F2.3 Phase		East Devon	40	0	500				1.86	1.67	ED345	1.59	1.46	1.50	1.41	1.82	1.64	1.48	1.38	1.86	1.67	1.28	1.23	1.45	1.35	1.37	1.24	1.58	1.41	1.76	1.35
Case5_F3.1 Phase		East Devon	40	0	500				1.70	1.28	ED345	1.48	1.19	1.43	1.17	1.64	1.26	1.38	1.16	1.70	1.28	1.20	1.08	1.28	1.10	1.25	1.10	1.42	1.16	1.37	1.14
Case5_F4.3 Phase		Norwalk Junction	40	0	500				1.80	1.66	ROCKY	1.49	1.20	1.66	1.23	1.80	1.65	1.49	1.37	1.79	1.66	1.53	1.41	1.43	1.30	1.42	1.26	1.65	1.26	1.80	1.34
Case5_F5.3 Phase		Singer	40	0	500				1.89	1.43	ED345	1.62	1.30	1.53	1.28	1.83	1.37	1.56	1.25	1.89	1.43	1.59	1.31	1.49	1.21	1.40	1.20	1.52	1.27	1.50	1.25
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500				1.93	1.45	ED345	1.65	1.34	1.60	1.37	1.86	1.41	1.58	1.29	1.93	1.45	1.66	1.33	1.50	1.24	1.52	1.23	1.69	1.34	1.79	1.34
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500				1.70	1.40	PT345	1.70	1.39	1.54	1.31	1.68	1.40	1.50	1.24	1.67	1.39	1.40	1.25	1.36	1.21	1.31	1.21	1.53	1.30	1.56	1.27
Case5_basNo Fault			40	0	500	PT345-LM345			1.17	1.17	ED345	1.15	1.15	1.13	1.13	1.16	1.16	1.11	1.11	1.17	1.17	1.09	1.09	1.08	1.08	1.06	1.12	1.12	1.09	1.09	
Case5_F2.3 Phase		East Devon	40	0	500	PT345-LM345			1.95	1.55	PT345	1.95	1.55	1.71	1.37	1.95	1.47	1.56	1.31	1.92	1.45	1.29	1.21	1.46	1.31	1.34	1.21	1.72	1.35	1.68	1.31
Case5_F3.1 Phase		East Devon	40	0	500	PT345-LM345			1.74	1.47	ED345	1.65	1.47	1.65	1.45	1.71	1.43	1.49	1.33	1.74	1.43	1.16	1.08	1.24	1.18	1.22	1.12	1.60	1.42	1.45	1.29
Case5_F4.3 Phase		Norwalk Junction	40	0	500	PT345-LM345			2.03	1.62	NW345	1.44	1.27	1.44	1.27	2.03	1.62	1.64	1.37	2.02	1.62	1.75	1.37	1.48	1.28	1.41	1.24	1.45	1.25	1.46	1.28
Case5_F5.3 Phase		Singer	40	0	500	PT345-LM345			1.87	1.73	ED345	1.83	1.64	1.73	1.62	1.85	1.72	1.60	1.46	1.87	1.73	1.55	1.42	1.50	1.39	1.40	1.32	1.71	1.58	1.64	1.52
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	PT345-LM345			1.89	1.74	ED345	1.82	1.65	1.69	1.55	1.88	1.71	1.56	1.51	1.89	1.74	1.70	1.47	1.46	1.39	1.45	1.31	1.69	1.54	1.64	1.48
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	PT345-LM345			1.69	1.62	ED345	1.65	1.60	1.57	1.48	1.68	1.62	1.48	1.42	1.69	1.62	1.39	1.34	1.36	1.32	1.29	1.24	1.54	1.45	1.46	1.38
Case5_basNo Fault			40	0	500	BK345-ED345			1.20	1.20	ED345	1.13	1.13	1.12	1.12	1.18	1.18	1.12	1.12	1.20	1.20	1.04	1.04	1.07	1.07	1.06	1.11	1.11	1.08	1.08	
Case5_F1.3 Phase		Plumtree	40	0	500	BK345-ED345			1.78	1.54	PT345	1.78	1.54	1.65	1.47	1.70	1.41	1.62	1.27	1.75	1.44	1.23	1.13	1.37	1.19	1.32	1.20	1.69	1.43	1.60	1.37
Case5_F4.3 Phase		Norwalk Junction	40	0	500	BK345-ED345			2.25	1.67	NW345	1.27	1.18	1.37	1.27	2.25	1.67	1.69	1.47	2.25	1.64	1.21	1.16	1.43	1.32	1.26	1.18	1.36	1.26	1.49	1.28
Case5_F5.3 Phase		Singer	40	0	500	BK345-ED345			2.13	1.87	ED345	1.72	1.55	1.66	1.51	2.03	1.76	1.61	1.50	2.13	1.87	1.33	1.18	1.41	1.29	1.43	1.31	1.72	1.50	1.73	1.44
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	BK345-ED345			2.23	1.81	ED345	1.92	1.55	1.79	1.49	2.16	1.76	1.70	1.47	2.23	1.81	1.31	1.18	1.44	1.27	1.46	1.31	1.78	1.47	1.76	1.42
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	BK345-ED345			1.93	1.59	ED345	1.72	1.40	1.60	1.48	1.82	1.55	1.56	1.33	1.93	1.59	1.24	1.16	1.38	1.26	1.32	1.23	1.58	1.45	1.57	1.45
Case5_basNo Fault			40	0	500	NE138-NO138			1.13	1.13	ED345	1.09	1.09	1.09	1.09	1.12	1.12	1.11	1.11	1.13	1.13	1.08	1.08	1.07	1.07	1.06	1.06	1.08	1.08	1.07	1.07
Case5_F1.3 Phase		Plumtree	40	0	500	NE138-NO138			1.63	1.37	PT345	1.63	1.37	1.55	1.37	1.59	1.35	1.49	1.32	1.62	1.36	1.35	1.19	1.31	1.16	1.26	1.16	1.51	1.37	1.40	1.36
Case5_F2.3 Phase		East Devon	40	0	500	NE138-NO138			1.73	1.43	ED345	1.54	1.31	1.49	1.43	1.70	1.37	1.55	1.43	1.73	1.38	1.32	1.24	1.43	1.35	1.35	1.27	1.49	1.43	1.61	1.39
Case5_F3.1 Phase		East Devon	40	0	500	NE138-NO138			1.53	1.27	ED345	1.36	1.19	1.32	1.16	1.48	1.25	1.37	1.21	1.53	1.27	1.16	1.06	1.17	1.09	1.18	1.08	1.31	1.15	1.28	1.13
Case5_F4.3 Phase		Norwalk Junction	40	0	500	NE138-NO138			1.68	1.53	NW345	1.43	1.21	1.53	1.26	1.68	1.53	1.52	1.40	1.65	1.52	1.45	1.33	1.34	1.26	1.31	1.24	1.52	1.25	1.59	1.26
Case5_F5.3 Phase		Singer	40	0	500	NE138-NO138			1.83	1.50	ED345	1.58	1.35	1.52	1.32	1.79	1.48	1.68	1.39	1.83	1.50	1.54	1.32	1.46	1.27	1.41	1.25	1.50	1.31	1.45	1.27
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	NE138-NO138			1.81	1.43	ED345	1.56	1.32	1.54	1.37	1.78	1.41	1.61	1.34	1.81	1.43	1.60	1.30	1.47	1.23	1.47	1.22	1.62	1.37	1.69	1.32
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	NE138-NO138			1.66	1.38	ED345	1.57	1.32	1.52	1.32	1.61	1.36	1.60	1.34	1.66	1.38	1.40	1.24	1.37	1.20	1.31	1.21	1.48	1.32	1.52	1.27
Case5_basNo Fault			40	0	500	LM345-PLVAL			1.18	1.18	ED345	1.16	1.16	1.14	1.14	1.17	1.17	1.12	1.12	1.18	1.18	1.12	1.12	1.10	1.10	1.10	1.13	1.13	1.11	1.11	
Case5_F1.3 Phase		Plumtree	40	0	500	LM345-PLVAL			1.70	1.65	ED345	1.65	1.60	1.54	1.51	1.69	1.63	1.46	1.42	1.70	1.65	1.41	1.37	1.42	1.36	1.38	1.34	1.52	1.49	1.48	1.44
Case5_F2.3 Phase		East Devon	40	0	500	LM345-PLVAL			1.88	1.54	ED345	1.71	1.51	1.63	1.46	1.86	1.42	1.49	1.49	1.88	1.43	1.44	1.39	1.48	1.48	1.47	1.39	1.62	1.53	1.59	1.54
Case5_F3.1 Phase		East Devon	40	0	500	LM345-PLVAL			1.72	1.33	ED345	1.55	1.28	1.49	1.27	1.69	1.32	1.40	1.21	1.72	1.33	1.18	1.09	1.22	1.17	1.26	1.16	1.47	1.25	1.38	1.22
Case5_F4.3 Phase		Norwalk Junction	40	0	500	LM345-PLVAL			1.79	1.70	ROCKY	1.71	1.42	1.74	1.43	1.75	1.69	1.50	1.47	1.75	1.70	1.48	1.47	1.42	1.38	1.40	1.33	1.78	1.42	1.79	1.42
Case5_F5.3 Phase		Singer	40	0	500	LM345-PLVAL			1.81	1.71	ED345	1.71	1																		

CASE #: 5A - Case 5 (Old) + 20 Miles of Cable

DATE: 12/07/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C
Case5_basNo Fault			50	302	690				1.17	1.17	ED345	1.14	1.14	1.13	1.13	1.16	1.16	1.12	1.12	1.17	1.17	1.14	1.14	1.13	1.13	1.12	1.12	1.13	1.13	1.12	1.12	
Case5_F1.3 Phase	Plumtree		50	302	690				1.62	1.45	STONY	1.49	1.42	1.50	1.33	1.50	1.44	1.34	1.31	1.49	1.45	1.39	1.28	1.29	1.27	1.34	1.27	1.62	1.38	1.47	1.32	
Case5_F2.3 Phase	East Devon		50	302	690				1.78	1.55	ED345	1.65	1.36	1.50	1.29	1.76	1.54	1.42	1.35	1.78	1.55	1.37	1.36	1.36	1.32	1.32	1.23	1.51	1.31	1.41	1.29	
Case5_F3.1 Phase	East Devon		50	302	690				1.64	1.23	ED345	1.44	1.15	1.37	1.13	1.59	1.20	1.35	1.13	1.64	1.23	1.19	1.08	1.23	1.09	1.22	1.08	1.34	1.13	1.28	1.10	
Case5_F4.3 Phase	Norwalk Junction		50	302	690				1.71	1.50	NW345	1.44	1.21	1.40	1.19	1.71	1.50	1.43	1.34	1.69	1.50	1.58	1.35	1.33	1.28	1.41	1.20	1.65	1.20	1.53	1.21	
Case5_F5.3 Phase	Singer		50	302	690				1.78	1.38	ED345	1.52	1.30	1.43	1.18	1.73	1.31	1.49	1.21	1.78	1.34	1.52	1.38	1.45	1.19	1.34	1.15	1.51	1.21	1.44	1.20	
Case5_F6.3 Phase Bt	Norwalk 345		50	302	690				1.82	1.37	ED345	1.60	1.26	1.52	1.22	1.79	1.37	1.53	1.26	1.82	1.35	1.59	1.27	1.44	1.21	1.41	1.16	1.62	1.22	1.53	1.23	
Case5_F7.3 Phase Bt	Plumtree 345		50	302	690				1.86	1.30	STONY	1.56	1.27	1.48	1.21	1.55	1.26	1.40	1.21	1.63	1.28	1.44	1.20	1.35	1.17	1.38	1.14	1.86	1.30	1.59	1.25	
Case5_basNo Fault			50	302	690	PT345-LM345			1.22	1.22	ED345	1.20	1.20	1.18	1.18	1.21	1.21	1.15	1.15	1.22	1.22	1.16	1.16	1.15	1.15	1.14	1.13	1.18	1.18	1.16	1.16	
Case5_F2.3 Phase	East Devon		50	302	690	PT345-LM345			1.97	1.47	PT345	1.97	1.47	1.72	1.28	1.85	1.39	1.51	1.23	1.81	1.37	1.44	1.33	1.44	1.33	1.34	1.22	1.83	1.38	1.57	1.31	
Case5_F3.1 Phase	East Devon		50	302	690	PT345-LM345			1.62	1.33	ED345	1.54	1.32	1.49	1.28	1.60	1.32	1.32	1.19	1.62	1.33	1.15	1.08	1.24	1.13	1.14	1.10	1.49	1.30	1.34	1.22	
Case5_F4.3 Phase	Norwalk Junction		50	302	690	PT345-LM345			1.86	1.53	NW345	1.48	1.22	1.48	1.22	1.86	1.53	1.47	1.31	1.81	1.48	1.60	1.32	1.39	1.25	1.24	1.17	1.60	1.26	1.46	1.23	
Case5_F5.3 Phase	Singer		50	302	690	PT345-LM345			1.76	1.60	PT345	1.76	1.50	1.56	1.47	1.75	1.57	1.48	1.39	1.74	1.60	1.50	1.41	1.43	1.33	1.31	1.24	1.63	1.41	1.51	1.33	
Case5_F6.3 Phase Bt	Norwalk 345		50	302	690	PT345-LM345			1.77	1.56	ED345	1.70	1.55	1.60	1.45	1.76	1.54	1.51	1.41	1.77	1.56	1.57	1.37	1.40	1.35	1.38	1.24	1.67	1.46	1.55	1.39	
Case5_F7.3 Phase Bt	Plumtree 345		50	302	690	PT345-LM345			1.69	1.45	STONY	1.57	1.38	1.48	1.36	1.59	1.42	1.37	1.31	1.60	1.45	1.38	1.28	1.29	1.23	1.29	1.23	1.69	1.44	1.43	1.29	
Case5_basNo Fault			50	302	690	BK345-ED345			1.25	1.25	ED345	1.18	1.18	1.17	1.17	1.22	1.22	1.15	1.15	1.25	1.25	1.11	1.11	1.11	1.13	1.13	1.13	1.13	1.16	1.16	1.14	1.14
Case5_F1.3 Phase	Plumtree		50	302	690	BK345-ED345			1.68	1.54	STONY	1.65	1.31	1.59	1.34	1.65	1.30	1.35	1.18	1.67	1.31	1.29	1.16	1.28	1.15	1.25	1.21	1.68	1.54	1.44	1.36	
Case5_F4.3 Phase	Norwalk Junction		50	302	690	BK345-ED345			2.11	1.57	NW345	1.39	1.18	1.56	1.21	2.11	1.57	1.63	1.39	2.10	1.55	1.24	1.20	1.38	1.32	1.32	1.19	1.58	1.38	1.50	1.27	
Case5_F5.3 Phase	Singer		50	302	690	BK345-ED345			2.05	1.72	ED345	1.73	1.45	1.56	1.41	1.97	1.62	1.60	1.37	2.05	1.72	1.34	1.16	1.33	1.22	1.32	1.23	1.63	1.39	1.53	1.29	
Case5_F6.3 Phase Bt	Norwalk 345		50	302	690	BK345-ED345			2.07	1.64	ED345	1.80	1.47	1.62	1.42	1.98	1.61	1.61	1.38	2.07	1.64	1.33	1.12	1.39	1.21	1.33	1.20	1.76	1.46	1.60	1.35	
Case5_F7.3 Phase Bt	Plumtree 345		50	302	690	BK345-ED345			1.80	1.48	ED345	1.57	1.36	1.49	1.34	1.72	1.46	1.50	1.28	1.80	1.48	1.23	1.13	1.32	1.15	1.29	1.13	1.74	1.37	1.52	1.26	
Case5_basNo Fault			50	302	690	NE138-NO138			1.22	1.22	ED345	1.18	1.18	1.18	1.17	1.20	1.20	1.20	1.20	1.22	1.22	1.17	1.17	1.16	1.16	1.16	1.16	1.17	1.17	1.17	1.17	
Case5_F1.3 Phase	Plumtree		50	302	690	NE138-NO138			1.53	1.36	STONY	1.45	1.27	1.39	1.23	1.42	1.28	1.36	1.25	1.42	1.27	1.35	1.17	1.23	1.21	1.21	1.15	1.53	1.36	1.36	1.22	
Case5_F2.3 Phase	East Devon		50	302	690	NE138-NO138			1.66	1.36	ED345	1.51	1.32	1.41	1.27	1.64	1.29	1.48	1.22	1.66	1.32	1.37	1.36	1.31	1.34	1.20	1.19	1.44	1.34	1.35	1.23	
Case5_F3.1 Phase	East Devon		50	302	690	NE138-NO138			1.43	1.21	ED345	1.32	1.14	1.29	1.12	1.39	1.20	1.30	1.16	1.43	1.21	1.16	1.06	1.15	1.08	1.14	1.07	1.27	1.13	1.21	1.10	
Case5_F4.3 Phase	Norwalk Junction		50	302	690	NE138-NO138			1.67	1.41	NW345	1.29	1.20	1.32	1.21	1.67	1.41	1.46	1.33	1.57	1.40	1.40	1.27	1.31	1.25	1.30	1.24	1.43	1.21	1.37	1.20	
Case5_F5.3 Phase	Singer		50	302	690	NE138-NO138			1.73	1.36	ED345	1.49	1.28	1.46	1.26	1.67	1.35	1.57	1.28	1.73	1.36	1.50	1.33	1.42	1.22	1.33	1.22	1.49	1.25	1.39	1.26	
Case5_F6.3 Phase Bt	Norwalk 345		50	302	690	NE138-NO138			1.70	1.35	NW345	1.50	1.26	1.50	1.25	1.70	1.35	1.54	1.31	1.68	1.34	1.60	1.25	1.40	1.20	1.34	1.22	1.57	1.29	1.48	1.27	
Case5_F7.3 Phase Bt	Plumtree 345		50	302	690	NE138-NO138			1.75	1.29	STONY	1.40	1.27	1.43	1.26	1.50	1.29	1.52	1.24	1.54	1.28	1.38	1.20	1.31	1.19	1.28	1.16	1.75	1.29	1.52	1.24	
Case5_basNo Fault			50	302	690	LM345-PLVAL			1.27	1.27	ED345	1.25	1.24	1.24	1.23	1.26	1.26	1.18	1.18	1.27	1.27	1.20	1.20	1.20	1.19	1.18	1.18	1.26	1.25	1.23	1.22	
Case5_F1.3 Phase	Plumtree		50	302	690	LM345-PLVAL			1.56	1.45	STONY	1.51	1.45	1.46	1.36	1.50	1.45	1.33	1.31	1.50	1.45	1.35	1.29	1.33	1.30	1.32	1.35	1.56	1.44	1.40	1.33	
Case5_F2.3 Phase	East Devon		50	302	690	LM345-PLVAL			1.77	1.48	STONY	1.68	1.42	1.57	1.31	1.77	1.34	1.42	1.26	1.73	1.34	1.44	1.44	1.46	1.46	1.35	1.31	1.77	1.48	1.57	1.46	
Case5_F3.1 Phase	East Devon		50	302	690	LM345-PLVAL			1.62	1.26	ED345	1.50	1.21	1.43	1.19	1.58	1.24	1.32	1.16	1.62	1.26	1.15	1.10	1.21	1.11	1.23	1.12	1.40	1.19	1.33	1.16	
Case5_F4.3 Phase	Norwalk Junction		50	302	690	LM345-PLVAL			1.79	1.61	NW345	1.64	1.41	1.46	1.32	1.79	1.61	1.52	1.43	1.78	1.58	1.63	1.38	1.41	1.36	1.42	1.30	1.46	1.32	1.49	1.32	
Case5_F5.3 Phase	Singer		50	302	690	LM345-PLVAL			1.78	1.56	STONY	1.55	1.47	1.51	1.44	1.66	1.55	1.45	1.40	1.65	1.56	1.51	1.38	1.57	1.38	1.41	1.41	1.78	1.45	1.64	1.37	
Case5_F6.3 Phase Bt	Norwalk 345		50	302	690	LM345-PLVAL			1.68	1.59	NW345	1.60	1.47	1.56	1.41	1.68	1.57	1.45	1.41	1.67	1.59	1.65	1.39	1.43	1.38	1.38	1.34	1.64	1.45	1.55	1.43	
Case5_F7.3 Phase Bt	Plumtree 345		50	302	690	LM345-PLVAL			1.60	1.46	STONY	1.54	1.45	1.47	1.37	1.57	1.46	1.35	1.31	1.54	1.45	1.44	1.32	1.34	1.31	1.33	1.30	1.60	1.41	1.45	1.34	

CASE #: 5A - Case 5 (Old) + 20 Miles of Cable

DATE: 12/07/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		70	1249	900				1.31	1.31	FB115	1.17	1.16	1.18	1.18	1.19	1.19	1.14	1.14	1.21	1.21	1.17	1.17	1.20	1.19	1.31	1.31	1.20	1.21	1.29	1.29
Case5_F1.3	Phase Plumtree		70	1249	900				1.56	1.45	ROCKY	1.44	1.36	1.31	1.35	1.43	1.33	1.28	1.24	1.43	1.33	1.38	1.23	1.27	1.24	1.28	1.25	1.42	1.39	1.56	1.45
Case5_F2.3	Phase East Devon		70	1249	900				1.67	1.41	NW345	1.49	1.35	1.37	1.26	1.67	1.40	1.40	1.20	1.64	1.41	1.33	1.26	1.28	1.20	1.31	1.32	1.47	1.24	1.40	1.32
Case5_F3.1	Phase East Devon		70	1249	900				1.52	1.18	ED345	1.37	1.13	1.36	1.12	1.48	1.16	1.31	1.10	1.52	1.18	1.18	1.10	1.23	1.10	1.27	1.12	1.36	1.12	1.33	1.13
Case5_F4.3	Phase Norwalk Junction		70	1249	900				1.63	1.51	ROCKY	1.46	1.28	1.34	1.26	1.60	1.51	1.38	1.30	1.57	1.48	1.47	1.33	1.39	1.28	1.27	1.27	1.50	1.32	1.63	1.48
Case5_F5.3	Phase Singer		70	1249	900				1.68	1.34	NW345	1.57	1.29	1.46	1.28	1.68	1.34	1.41	1.25	1.66	1.33	1.52	1.29	1.50	1.28	1.41	1.26	1.47	1.28	1.50	1.34
Case5_F6.3	Phase Bt Norwalk 345		70	1249	900				1.64	1.37	NW345	1.46	1.32	1.39	1.23	1.64	1.37	1.41	1.24	1.61	1.34	1.45	1.24	1.51	1.28	1.43	1.23	1.61	1.25	1.49	1.33
Case5_F7.3	Phase Bt Plumtree 345		70	1249	900				1.87	1.45	ROCKY	1.49	1.24	1.37	1.23	1.43	1.25	1.30	1.19	1.47	1.29	1.38	1.21	1.41	1.24	1.34	1.26	1.40	1.35	1.87	1.45
Case5_bas	No Fault		70	1249	900	PT345-LM345			1.39	1.38	ROCKY	1.24	1.23	1.23	1.22	1.26	1.26	1.20	1.19	1.29	1.28	1.19	1.19	1.21	1.22	1.32	1.23	1.22	1.39	1.38	
Case5_F2.3	Phase East Devon		70	1249	900	PT345-LM345			1.74	1.44	PT345	1.74	1.34	1.52	1.30	1.68	1.31	1.32	1.23	1.64	1.30	1.25	1.24	1.27	1.20	1.46	1.34	1.49	1.33	1.58	1.44
Case5_F3.1	Phase East Devon		70	1249	900	PT345-LM345			1.48	1.26	ED345	1.41	1.24	1.29	1.22	1.46	1.25	1.24	1.14	1.48	1.26	1.16	1.12	1.17	1.10	1.17	1.12	1.29	1.18	1.26	1.20
Case5_F4.3	Phase Norwalk Junction		70	1249	900	PT345-LM345			1.79	1.75	ROCKY	1.39	1.25	1.39	1.25	1.72	1.46	1.45	1.24	1.72	1.43	1.49	1.25	1.49	1.28	1.34	1.20	1.48	1.31	1.79	1.75
Case5_F5.3	Phase Singer		70	1249	900	PT345-LM345			1.64	1.49	NW345	1.62	1.41	1.50	1.38	1.64	1.41	1.39	1.29	1.64	1.44	1.50	1.29	1.40	1.28	1.37	1.24	1.58	1.36	1.60	1.49
Case5_F6.3	Phase Bt Norwalk 345		70	1249	900	PT345-LM345			1.68	1.47	STONY	1.54	1.43	1.56	1.35	1.59	1.44	1.45	1.29	1.56	1.42	1.40	1.28	1.44	1.27	1.37	1.21	1.68	1.32	1.61	1.47
Case5_F7.3	Phase Bt Plumtree 345		70	1249	900	PT345-LM345			1.68	1.52	ROCKY	1.48	1.31	1.35	1.31	1.43	1.30	1.26	1.21	1.44	1.31	1.33	1.18	1.32	1.21	1.29	1.19	1.46	1.39	1.68	1.52
Case5_bas	No Fault		70	1249	900	BK345-ED345			1.33	1.34	ROCKY	1.19	1.19	1.20	1.20	1.23	1.22	1.16	1.16	1.26	1.26	1.19	1.19	1.20	1.19	1.30	1.29	1.20	1.20	1.33	1.34
Case5_F1.3	Phase Plumtree		70	1249	900	BK345-ED345			1.77	1.77	ROCKY	1.55	1.33	1.54	1.49	1.51	1.23	1.25	1.13	1.54	1.23	1.25	1.11	1.15	1.11	1.35	1.28	1.70	1.56	1.77	1.77
Case5_F4.3	Phase Norwalk Junction		70	1249	900	BK345-ED345			1.97	1.63	NW345	1.49	1.24	1.42	1.30	1.97	1.50	1.50	1.38	1.95	1.44	1.17	1.10	1.25	1.13	1.37	1.28	1.44	1.39	1.84	1.63
Case5_F5.3	Phase Singer		70	1249	900	BK345-ED345			1.85	1.51	ED345	1.57	1.34	1.55	1.30	1.74	1.47	1.53	1.23	1.85	1.51	1.41	1.15	1.35	1.22	1.34	1.19	1.53	1.29	1.72	1.48
Case5_F6.3	Phase Bt Norwalk 345		70	1249	900	BK345-ED345			1.90	1.43	NW345	1.73	1.35	1.52	1.30	1.90	1.41	1.54	1.21	1.88	1.43	1.28	1.15	1.42	1.20	1.41	1.18	1.59	1.35	1.60	1.30
Case5_F7.3	Phase Bt Plumtree 345		70	1249	900	BK345-ED345			1.67	1.60	ED345	1.58	1.31	1.42	1.38	1.64	1.35	1.38	1.23	1.67	1.38	1.27	1.17	1.31	1.16	1.36	1.24	1.64	1.44	1.63	1.60
Case5_bas	No Fault		70	1249	900	NE138-NO138			1.35	1.35	ROCKY	1.18	1.18	1.20	1.20	1.21	1.21	1.21	1.21	1.24	1.24	1.18	1.18	1.22	1.21	1.29	1.29	1.20	1.19	1.35	1.35
Case5_F1.3	Phase Plumtree		70	1249	900	NE138-NO138			1.60	1.47	ROCKY	1.34	1.25	1.27	1.30	1.30	1.19	1.24	1.17	1.32	1.17	1.27	1.13	1.19	1.10	1.23	1.25	1.51	1.42	1.60	1.47
Case5_F2.3	Phase East Devon		70	1249	900	NE138-NO138			1.49	1.32	NW345	1.46	1.29	1.30	1.16	1.49	1.28	1.33	1.13	1.46	1.22	1.28	1.25	1.20	1.19	1.32	1.32	1.28	1.19	1.48	1.32
Case5_F3.1	Phase East Devon		70	1249	900	NE138-NO138			1.33	1.15	ED345	1.23	1.10	1.19	1.10	1.30	1.14	1.23	1.11	1.33	1.15	1.15	1.07	1.16	1.08	1.17	1.09	1.19	1.10	1.19	1.10
Case5_F4.3	Phase Norwalk Junction		70	1249	900	NE138-NO138			1.52	1.52	ROCKY	1.45	1.38	1.30	1.32	1.52	1.35	1.37	1.24	1.47	1.30	1.32	1.21	1.27	1.16	1.23	1.32	1.47	1.35	1.50	1.52
Case5_F5.3	Phase Singer		70	1249	900	NE138-NO138			1.54	1.31	ED345	1.45	1.20	1.38	1.20	1.52	1.24	1.42	1.25	1.54	1.27	1.49	1.24	1.38	1.23	1.35	1.23	1.42	1.27	1.43	1.31
Case5_F6.3	Phase Bt Norwalk 345		70	1249	900	NE138-NO138			1.50	1.30	ED345	1.36	1.24	1.32	1.20	1.47	1.30	1.43	1.25	1.50	1.26	1.42	1.20	1.44	1.21	1.38	1.20	1.39	1.21	1.50	1.27
Case5_F7.3	Phase Bt Plumtree 345		70	1249	900	NE138-NO138			1.75	1.50	ROCKY	1.39	1.22	1.27	1.22	1.37	1.20	1.32	1.20	1.38	1.21	1.31	1.15	1.35	1.19	1.32	1.21	1.46	1.33	1.75	1.50
Case5_bas	No Fault		70	1249	900	LM345-PLVAL			1.43	1.42	ROCKY	1.26	1.25	1.25	1.24	1.26	1.25	1.21	1.21	1.29	1.29	1.20	1.20	1.24	1.24	1.37	1.37	1.25	1.25	1.43	1.42
Case5_F1.3	Phase Plumtree		70	1249	900	LM345-PLVAL			1.72	1.43	ROCKY	1.46	1.35	1.33	1.31	1.41	1.30	1.25	1.20	1.41	1.27	1.34	1.18	1.26	1.21	1.40	1.26	1.49	1.28	1.72	1.43
Case5_F2.3	Phase East Devon		70	1249	900	LM345-PLVAL			1.58	1.40	NW345	1.54	1.30	1.42	1.19	1.58	1.28	1.31	1.19	1.55	1.25	1.41	1.28	1.29	1.24	1.40	1.34	1.35	1.28	1.47	1.40
Case5_F3.1	Phase East Devon		70	1249	900	LM345-PLVAL			1.48	1.28	ED345	1.36	1.19	1.31	1.24	1.43	1.21	1.24	1.13	1.48	1.21	1.19	1.10	1.18	1.11	1.25	1.22	1.29	1.22	1.32	1.28
Case5_F4.3	Phase Norwalk Junction		70	1249	900	LM345-PLVAL			1.73	1.53	ROCKY	1.51	1.33	1.35	1.24	1.67	1.42	1.40	1.25	1.60	1.39	1.48	1.26	1.43	1.28	1.48	1.29	1.39	1.28	1.73	1.53
Case5_F5.3	Phase Singer		70	1249	900	LM345-PLVAL			1.59	1.39	ED345	1.51	1.29	1.39	1.29	1.53	1.31	1.37	1.24	1.59	1.35	1.49	1.29	1.36	1.33	1.41	1.29	1.46	1.25	1.49	1.39
Case5_F6.3	Phase Bt Norwalk 345		70	1249	900	LM345-PLVAL			1.52	1.40	NW345	1.50	1.34	1.45	1.32	1.52	1.40	1.39	1.24	1.52	1.33	1.50	1.26	1.35	1.31	1.34	1.26	1.49	1.33	1.50	1.32
Case5_F7.3	Phase Bt Plumtree 345		70	1249	900	LM345-PLVAL			1.68	1.49	ROCKY	1.47	1.38	1.36	1.31	1.43	1.27	1.26	1.21	1.40	1.27	1.36	1.20	1.30	1.24	1.36	1.26	1.50	1.33	1.68	1.49

CASE #: Case 5A (Old 5 + 20) at 80% Source, Alt Load Model and future capacitors at Ansonia, Bunker Hill, Hawthorne
 DATE: 12/14/2004
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C
Case5_basNo Fault			30	0	920				1.12	1.12	ED345	1.10	1.10	1.10	1.10	1.11	1.11	1.09	1.09	1.12	1.12	1.10	1.10	1.09	1.09	1.09	1.09	1.10	1.10	1.09	1.09	
Case5_F1.3 Phase		Plumtree	30	0	920				1.38	1.37	STONY	1.31	1.29	1.34	1.29	1.31	1.28	1.25	1.22	1.32	1.28	1.25	1.21	1.24	1.18	1.30	1.15	1.38	1.37	1.33	1.37	
Case5_F2.3 Phase		East Devon	30	0	920				1.70	1.47	ESHOR	1.40	1.28	1.40	1.31	1.42	1.32	1.40	1.30	1.40	1.32	1.40	1.37	1.70	1.47	1.44	1.33	1.43	1.36	1.48	1.40	
Case5_F3.1 Phase		East Devon	30	0	920				1.21	1.13	ED345	1.18	1.11	1.17	1.10	1.19	1.12	1.16	1.10	1.21	1.13	1.16	1.10	1.16	1.11	1.14	1.09	1.18	1.10	1.19	1.09	
Case5_F4.3 Phase		Norwalk Junction	30	0	920				1.47	1.39	ED345	1.27	1.17	1.24	1.23	1.46	1.31	1.31	1.21	1.47	1.32	1.29	1.23	1.40	1.31	1.21	1.15	1.34	1.31	1.43	1.39	
Case5_F5.3 Phase		Singer	30	0	920				1.36	1.27	ESHOR	1.27	1.16	1.28	1.19	1.29	1.18	1.22	1.20	1.30	1.17	1.22	1.15	1.36	1.21	1.24	1.19	1.34	1.21	1.31	1.27	
Case5_F6.3 Phase Bt		Norwalk 345	30	0	920				1.44	1.20	ESHOR	1.29	1.17	1.27	1.19	1.34	1.20	1.23	1.18	1.31	1.20	1.23	1.16	1.44	1.19	1.26	1.19	1.32	1.19	1.28	1.20	
Case5_F7.3 Phase Bt		Plumtree 345	30	0	920				1.30	1.28	ROCKY	1.26	1.16	1.23	1.21	1.20	1.15	1.14	1.13	1.21	1.18	1.19	1.15	1.18	1.11	1.17	1.13	1.30	1.27	1.30	1.28	
Case5_basNo Fault			30	0	920	PT345-LM34	1.13	1.13	ED345	1.13	1.13	1.12	1.12	1.13	1.13	1.10	1.10	1.10	1.13	1.13	1.11	1.11	1.10	1.10	1.09	1.09	1.11	1.11	1.10	1.10	1.10	
Case5_F2.3 Phase		East Devon	30	0	920	PT345-LM34	1.81	1.55	ESHOR	1.66	1.31	1.65	1.46	1.72	1.26	1.49	1.27	1.74	1.25	1.40	1.36	1.81	1.55	1.37	1.31	1.69	1.48	1.61	1.54	1.48	1.61	1.54
Case5_F3.1 Phase		East Devon	30	0	920	PT345-LM34	1.27	1.18	ED345	1.27	1.17	1.24	1.15	1.26	1.17	1.18	1.13	1.27	1.18	1.15	1.09	1.13	1.12	1.12	1.09	1.24	1.14	1.21	1.12	1.12	1.12	
Case5_F4.3 Phase		Norwalk Junction	30	0	920	PT345-LM34	1.48	1.52	ROCKY	1.42	1.37	1.42	1.37	1.41	1.27	1.36	1.27	1.40	1.27	1.27	1.23	1.26	1.31	1.31	1.30	1.41	1.40	1.48	1.52	1.41	1.48	1.52
Case5_F5.3 Phase		Singer	30	0	920	PT345-LM34	1.35	1.26	NW345	1.34	1.24	1.32	1.24	1.35	1.26	1.25	1.21	1.34	1.26	1.23	1.19	1.22	1.17	1.18	1.18	1.34	1.24	1.34	1.24	1.34	1.20	
Case5_F6.3 Phase Bt		Norwalk 345	30	0	920	PT345-LM34	1.46	1.34	STONY	1.45	1.32	1.40	1.29	1.42	1.34	1.30	1.26	1.38	1.32	1.33	1.21	1.28	1.20	1.35	1.16	1.46	1.29	1.41	1.27	1.41	1.27	
Case5_F7.3 Phase Bt		Plumtree 345	30	0	920	PT345-LM34	1.38	1.32	STONY	1.30	1.26	1.29	1.30	1.29	1.27	1.24	1.22	1.31	1.28	1.24	1.22	1.22	1.20	1.26	1.18	1.38	1.32	1.35	1.32	1.35	1.32	
Case5_basNo Fault			30	0	920	BK345-ED34	1.13	1.13	ED345	1.11	1.11	1.10	1.10	1.12	1.12	1.10	1.10	1.10	1.13	1.13	1.09	1.09	1.11	1.11	1.08	1.08	1.10	1.10	1.10	1.09	1.09	
Case5_F1.3 Phase		Plumtree	30	0	920	BK345-ED34	1.67	1.37	STONY	1.63	1.32	1.54	1.33	1.58	1.27	1.43	1.23	1.60	1.27	1.33	1.20	1.46	1.23	1.28	1.19	1.67	1.31	1.60	1.37	1.60	1.37	
Case5_F4.3 Phase		Norwalk Junction	30	0	920	BK345-ED34	2.14	1.65	ED345	1.33	1.27	1.43	1.36	2.12	1.52	1.71	1.47	2.14	1.52	1.30	1.27	1.50	1.30	1.44	1.37	1.55	1.53	1.75	1.65	1.55	1.65	
Case5_F5.3 Phase		Singer	30	0	920	BK345-ED34	1.49	1.34	NW345	1.36	1.24	1.28	1.25	1.49	1.33	1.36	1.28	1.45	1.34	1.34	1.24	1.36	1.27	1.32	1.20	1.28	1.22	1.30	1.25	1.30	1.25	
Case5_F6.3 Phase Bt		Norwalk 345	30	0	920	BK345-ED34	1.58	1.38	NW345	1.43	1.30	1.40	1.30	1.58	1.38	1.40	1.37	1.56	1.38	1.35	1.29	1.39	1.29	1.33	1.28	1.41	1.30	1.44	1.32	1.44	1.32	
Case5_F7.3 Phase Bt		Plumtree 345	30	0	920	BK345-ED34	1.49	1.35	ED345	1.41	1.28	1.39	1.30	1.46	1.34	1.40	1.28	1.49	1.35	1.27	1.20	1.30	1.25	1.33	1.22	1.43	1.28	1.46	1.31	1.46	1.31	
Case5_basNo Fault			30	0	920	NE138-NO13	1.13	1.13	ED345	1.11	1.11	1.11	1.11	1.12	1.12	1.11	1.11	1.11	1.13	1.13	1.11	1.11	1.10	1.10	1.10	1.10	1.11	1.11	1.10	1.10	1.10	
Case5_F1.3 Phase		Plumtree	30	0	920	NE138-NO13	1.65	1.44	ESHOR	1.57	1.40	1.49	1.36	1.59	1.43	1.51	1.41	1.61	1.44	1.39	1.29	1.65	1.33	1.32	1.26	1.56	1.42	1.55	1.44	1.55	1.44	
Case5_F2.3 Phase		East Devon	30	0	920	NE138-NO13	1.77	1.49	ESHOR	1.48	1.32	1.53	1.45	1.55	1.38	1.61	1.44	1.57	1.39	1.39	1.32	1.77	1.49	1.46	1.39	1.48	1.43	1.50	1.41	1.41	1.41	
Case5_F3.1 Phase		East Devon	30	0	920	NE138-NO13	1.17	1.15	ED345	1.16	1.12	1.15	1.12	1.16	1.14	1.14	1.13	1.17	1.15	1.13	1.10	1.13	1.12	1.12	1.09	1.14	1.11	1.15	1.11	1.11		
Case5_F4.3 Phase		Norwalk Junction	30	0	920	NE138-NO13	1.59	1.46	NW345	1.42	1.20	1.41	1.26	1.59	1.43	1.54	1.31	1.59	1.42	1.45	1.28	1.39	1.33	1.33	1.23	1.51	1.38	1.59	1.46	1.46	1.46	
Case5_F5.3 Phase		Singer	30	0	920	NE138-NO13	1.37	1.29	ED345	1.30	1.23	1.31	1.26	1.36	1.28	1.33	1.27	1.37	1.29	1.25	1.21	1.29	1.17	1.31	1.25	1.35	1.24	1.37	1.25	1.37	1.25	
Case5_F6.3 Phase Bt		Norwalk 345	30	0	920	NE138-NO13	1.40	1.34	ED345	1.32	1.28	1.32	1.28	1.39	1.33	1.35	1.32	1.40	1.34	1.31	1.25	1.28	1.19	1.31	1.28	1.35	1.30	1.36	1.30	1.36	1.30	
Case5_F7.3 Phase Bt		Plumtree 345	30	0	920	NE138-NO13	1.33	1.28	ROCKY	1.29	1.25	1.31	1.25	1.32	1.28	1.31	1.27	1.32	1.28	1.23	1.22	1.22	1.18	1.24	1.18	1.32	1.28	1.33	1.28	1.33	1.28	
Case5_basNo Fault			30	0	920	LM345-PLVA	1.14	1.14	ED345	1.13	1.13	1.13	1.13	1.14	1.14	1.10	1.10	1.14	1.14	1.12	1.12	1.11	1.11	1.11	1.11	1.11	1.12	1.12	1.12	1.12	1.12	
Case5_F1.3 Phase		Plumtree	30	0	920	LM345-PLVA	1.53	1.44	ED345	1.50	1.39	1.44	1.37	1.51	1.39	1.42	1.30	1.53	1.40	1.40	1.30	1.33	1.25	1.31	1.23	1.46	1.42	1.53	1.44	1.44	1.44	
Case5_F2.3 Phase		East Devon	30	0	920	LM345-PLVA	1.95	1.59	ED345	1.79	1.51	1.75	1.57	1.89	1.57	1.62	1.46	1.95	1.59	1.49	1.33	1.84	1.52	1.57	1.47	1.79	1.57	1.71	1.57	1.57		
Case5_F3.1 Phase		East Devon	30	0	920	LM345-PLVA	1.27	1.17	ED345	1.25	1.15	1.20	1.13	1.26	1.16	1.16	1.12	1.27	1.17	1.16	1.11	1.17	1.13	1.15	1.11	1.21	1.13	1.19	1.12	1.12		
Case5_F4.3 Phase		Norwalk Junction	30	0	920	LM345-PLVA	1.56	1.46	ROCKY	1.39	1.37	1.43	1.39	1.49	1.37	1.37	1.31	1.49	1.38	1.30	1.26	1.50	1.42	1.30	1.26	1.53	1.40	1.56	1.46	1.46		
Case5_F5.3 Phase		Singer	30	0	920	LM345-PLVA	1.45	1.31	ROCKY	1.34	1.28	1.28	1.30	1.38	1.30	1.29	1.25	1.38	1.31	1.27	1.22	1.29	1.18	1.29	1.25	1.40	1.31	1.45	1.30	1.45	1.30	
Case5_F6.3 Phase Bt		Norwalk 345	30	0	920	LM345-PLVA	1.49	1.39	ED345	1.42	1.37	1.36	1.33	1.48	1.39	1.34	1.33	1.49	1.38	1.34	1.27	1.31	1.22	1.29	1.27	1.38	1.32	1.43	1.32	1.43	1.32	
Case5_F7.3 Phase Bt		Plumtree 345	30	0	920	LM345-PLVA	1.51	1.36	ROCKY	1.41	1.34	1.46	1.32	1.44	1.35	1.36	1.28	1.47	1.36	1.36	1.30	1.30	1.24	1.31	1.25	1.50	1.33	1.51	1.33	1.43	1.32	

CASE #: Case 5A (Old 5 + 20) at 80% Source, Alt Load Model DATE: 12/14/2004
and future capacitors at Ansonia, Bunker Hill, Hawthorne GE 2C and 6C Windows
DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																										
										LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY	
																	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		40	0	920				1.10	1.10	ED345	1.08	1.08	1.08	1.08	1.09	1.09	1.07	1.07	1.10	1.10	1.09	1.09	1.09	1.09	1.07	1.07	1.07	1.07	1.06	1.06					
Case5_F1.3	Phase Plumtree		40	0	920				1.30	1.26	STONY	1.27	1.22	1.27	1.21	1.29	1.26	1.22	1.17	1.28	1.25	1.23	1.20	1.27	1.16	1.17	1.17	1.30	1.21	1.29	1.24					
Case5_F2.3	Phase East Devon		40	0	920				1.47	1.37	ESHOR	1.34	1.25	1.26	1.21	1.39	1.28	1.29	1.24	1.39	1.29	1.31	1.19	1.47	1.37	1.25	1.17	1.27	1.21	1.33	1.25					
Case5_F3.1	Phase East Devon		40	0	920				1.15	1.11	PT345	1.15	1.09	1.13	1.09	1.14	1.11	1.10	1.08	1.14	1.11	1.12	1.08	1.11	1.09	1.10	1.07	1.12	1.08	1.09	1.07					
Case5_F4.3	Phase Norwalk Junction		40	0	920				1.50	1.38	ESHOR	1.26	1.15	1.18	1.14	1.28	1.22	1.26	1.19	1.26	1.22	1.24	1.19	1.50	1.38	1.20	1.20	1.19	1.13	1.31	1.25					
Case5_F5.3	Phase Singer		40	0	920				1.32	1.27	ESHOR	1.20	1.13	1.17	1.11	1.26	1.14	1.22	1.13	1.21	1.15	1.23	1.13	1.32	1.27	1.17	1.14	1.21	1.19	1.30	1.24					
Case5_F6.3	Phase Bt Norwalk 345		40	0	920				1.37	1.28	ESHOR	1.21	1.12	1.20	1.17	1.24	1.16	1.18	1.13	1.22	1.14	1.23	1.15	1.37	1.28	1.21	1.13	1.23	1.17	1.28	1.21					
Case5_F7.3	Phase Bt Plumtree 345		40	0	920				1.27	1.21	STONY	1.17	1.14	1.17	1.17	1.18	1.15	1.13	1.11	1.16	1.15	1.17	1.14	1.24	1.12	1.13	1.14	1.27	1.21	1.27	1.19					
Case5_bas	No Fault		40	0	920	PT345-LM34	1.11	1.11	ED345			1.10	1.10	1.09	1.09	1.10	1.10	1.08	1.08	1.11	1.11	1.09	1.09	1.09	1.07	1.07	1.08	1.08	1.07	1.07						
Case5_F2.3	Phase East Devon		40	0	920	PT345-LM34	1.52	1.34	ESHOR			1.46	1.19	1.41	1.14	1.50	1.20	1.41	1.15	1.50	1.21	1.33	1.22	1.52	1.34	1.25	1.15	1.38	1.19	1.42	1.22					
Case5_F3.1	Phase East Devon		40	0	920	PT345-LM34	1.20	1.15	ED345			1.19	1.13	1.16	1.11	1.19	1.14	1.13	1.09	1.20	1.15	1.09	1.08	1.12	1.09	1.08	1.07	1.15	1.10	1.13	1.08					
Case5_F4.3	Phase Norwalk Junction		40	0	920	PT345-LM34	1.41	1.30	ROCKY			1.29	1.24	1.30	1.25	1.31	1.23	1.26	1.22	1.30	1.24	1.23	1.17	1.35	1.30	1.18	1.15	1.36	1.27	1.41	1.30					
Case5_F5.3	Phase Singer		40	0	920	PT345-LM34	1.27	1.22	ESHOR			1.26	1.20	1.20	1.17	1.26	1.20	1.20	1.14	1.26	1.21	1.23	1.17	1.27	1.22	1.18	1.12	1.20	1.16	1.22	1.18					
Case5_F6.3	Phase Bt Norwalk 345		40	0	920	PT345-LM34	1.33	1.28	PT115			1.32	1.23	1.33	1.20	1.33	1.27	1.22	1.17	1.32	1.28	1.28	1.22	1.28	1.22	1.27	1.17	1.30	1.21	1.27	1.23					
Case5_F7.3	Phase Bt Plumtree 345		40	0	920	PT345-LM34	1.33	1.26	ROCKY			1.29	1.22	1.26	1.21	1.28	1.25	1.21	1.17	1.27	1.25	1.18	1.18	1.21	1.14	1.16	1.18	1.31	1.22	1.33	1.26					
Case5_bas	No Fault		40	0	920	BK345-ED34	1.11	1.11	ED345			1.09	1.09	1.08	1.08	1.10	1.10	1.08	1.08	1.11	1.11	1.08	1.08	1.09	1.09	1.06	1.06	1.08	1.08	1.07	1.07					
Case5_F1.3	Phase Plumtree		40	0	920	BK345-ED34	1.50	1.31	ROCKY			1.45	1.26	1.44	1.21	1.41	1.20	1.35	1.14	1.44	1.20	1.24	1.12	1.32	1.16	1.19	1.12	1.46	1.25	1.50	1.31					
Case5_F4.3	Phase Norwalk Junction		40	0	920	BK345-ED34	1.88	1.51	ED345			1.41	1.37	1.47	1.41	1.85	1.41	1.59	1.28	1.88	1.40	1.31	1.29	1.42	1.29	1.35	1.31	1.51	1.49	1.62	1.51					
Case5_F5.3	Phase Singer		40	0	920	BK345-ED34	1.38	1.28	ED345			1.33	1.25	1.26	1.19	1.37	1.28	1.26	1.20	1.38	1.28	1.18	1.16	1.27	1.23	1.19	1.13	1.26	1.19	1.26	1.20					
Case5_F6.3	Phase Bt Norwalk 345		40	0	920	BK345-ED34	1.43	1.34	ED345			1.34	1.27	1.33	1.21	1.42	1.32	1.29	1.24	1.43	1.34	1.22	1.16	1.30	1.26	1.24	1.16	1.33	1.22	1.26	1.23					
Case5_F7.3	Phase Bt Plumtree 345		40	0	920	BK345-ED34	1.42	1.32	ED345			1.34	1.28	1.30	1.24	1.41	1.30	1.30	1.22	1.42	1.32	1.20	1.18	1.25	1.19	1.22	1.17	1.35	1.25	1.34	1.25					
Case5_bas	No Fault		40	0	920	NE138-NO13	1.10	1.10	ED345			1.08	1.08	1.08	1.08	1.09	1.09	1.09	1.09	1.10	1.10	1.09	1.09	1.09	1.09	1.07	1.07	1.07	1.07	1.07	1.07					
Case5_F1.3	Phase Plumtree		40	0	920	NE138-NO13	1.46	1.33	PT115			1.45	1.30	1.46	1.33	1.43	1.29	1.39	1.29	1.41	1.29	1.32	1.24	1.40	1.25	1.25	1.19	1.44	1.28	1.31	1.24					
Case5_F2.3	Phase East Devon		40	0	920	NE138-NO13	1.58	1.38	ESHOR			1.34	1.21	1.37	1.19	1.42	1.25	1.46	1.28	1.40	1.26	1.34	1.21	1.58	1.38	1.26	1.18	1.34	1.18	1.31	1.22					
Case5_F3.1	Phase East Devon		40	0	920	NE138-NO13	1.15	1.11	ROCKY			1.14	1.09	1.11	1.08	1.12	1.11	1.10	1.09	1.12	1.11	1.11	1.08	1.11	1.09	1.08	1.06	1.13	1.08	1.15	1.07					
Case5_F4.3	Phase Norwalk Junction		40	0	920	NE138-NO13	1.60	1.41	ESHOR			1.27	1.18	1.31	1.21	1.44	1.29	1.37	1.26	1.44	1.30	1.37	1.25	1.60	1.41	1.27	1.25	1.28	1.18	1.31	1.27					
Case5_F5.3	Phase Singer		40	0	920	NE138-NO13	1.34	1.30	ESHOR			1.23	1.19	1.22	1.14	1.30	1.21	1.24	1.19	1.33	1.23	1.17	1.34	1.30	1.20	1.12	1.21	1.16	1.27	1.22						
Case5_F6.3	Phase Bt Norwalk 345		40	0	920	NE138-NO13	1.37	1.33	ESHOR			1.27	1.19	1.21	1.16	1.30	1.24	1.27	1.23	1.31	1.25	1.30	1.22	1.37	1.33	1.26	1.14	1.22	1.17	1.21	1.19					
Case5_F7.3	Phase Bt Plumtree 345		40	0	920	NE138-NO13	1.33	1.22	ROCKY			1.22	1.18	1.21	1.21	1.24	1.20	1.24	1.19	1.25	1.21	1.21	1.19	1.30	1.20	1.17	1.18	1.33	1.22	1.33	1.22					
Case5_bas	No Fault		40	0	920	LM345-PLVA	1.11	1.11	ED345			1.10	1.10	1.09	1.09	1.11	1.11	1.08	1.08	1.11	1.11	1.10	1.10	1.09	1.09	1.08	1.08	1.08	1.08	1.08	1.08					
Case5_F1.3	Phase Plumtree		40	0	920	LM345-PLVA	1.39	1.31	PT345			1.39	1.29	1.36	1.30	1.39	1.31	1.31	1.22	1.39	1.31	1.29	1.26	1.39	1.23	1.29	1.26	1.37	1.25	1.39	1.31					
Case5_F2.3	Phase East Devon		40	0	920	LM345-PLVA	1.65	1.43	ESHOR			1.52	1.31	1.46	1.29	1.61	1.36	1.52	1.30	1.64	1.35	1.40	1.25	1.65	1.43	1.38	1.21	1.45	1.30	1.43	1.31					
Case5_F3.1	Phase East Devon		40	0	920	LM345-PLVA	1.19	1.13	ED345			1.18	1.12	1.16	1.10	1.19	1.13	1.11	1.09	1.19	1.13	1.11	1.09	1.13	1.09	1.11	1.08	1.17	1.09	1.16	1.08					
Case5_F4.3	Phase Norwalk Junction		40	0	920	LM345-PLVA	1.47	1.39	ESHOR			1.27	1.20	1.26	1.22	1.32	1.27	1.27	1.23	1.31	1.28	1.33	1.25	1.47	1.39	1.32	1.24	1.28	1.25	1.36	1.28					
Case5_F5.3	Phase Singer		40	0	920	LM345-PLVA	1.37	1.32	ESHOR			1.26	1.23	1.22	1.17	1.27	1.22	1.21	1.17	1.30	1.25	1.26	1.23	1.37	1.32	1.23	1.17	1.25	1.16	1.26	1.20					
Case5_F6.3	Phase Bt Norwalk 345		40	0	920	LM345-PLVA	1.41	1.35	NW345			1.38	1.26	1.41	1.27	1.41	1.29	1.28	1.23	1.40	1.30	1.33	1.27	1.38	1.35	1.29	1.20	1.41	1.24	1.39	1.22					
Case5_F7.3	Phase Bt Plumtree 345		40	0	920	LM345-PLVA	1.42	1.30	STONY			1.33	1.27	1.35	1.30	1.35	1.29	1.29	1.21	1.36	1.29	1.31	1.24	1.34	1.23	1.27	1.25	1.42	1.25	1.42	1.29					

CASE #: Case 5A (Old 5 + 20) at 80% Source, Alt Load Model and future capacitors at Ansonia, Bunker Hill, Hawthorne
 DATE: 12/14/2004
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																							
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY					
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		50	434	1110				1.09	1.09	ESHOR	1.08	1.08	1.08	1.08	1.08	1.08	1.07	1.07	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.08	1.08	1.08	1.08
Case5_F1.3	Phase Plumtree		50	434	1110				1.41	1.34	STONY	1.28	1.23	1.34	1.28	1.31	1.23	1.26	1.21	1.31	1.23	1.26	1.18	1.33	1.22	1.31	1.29	1.41	1.34	1.35	1.32		
Case5_F2.3	Phase East Devon		50	434	1110				1.45	1.37	ESHOR	1.35	1.25	1.31	1.23	1.42	1.29	1.29	1.21	1.43	1.30	1.35	1.20	1.45	1.37	1.27	1.23	1.30	1.26	1.25	1.21		
Case5_F3.1	Phase East Devon		50	434	1110				1.13	1.09	BK345	1.12	1.08	1.12	1.08	1.12	1.09	1.09	1.07	1.12	1.09	1.13	1.09	1.11	1.09	1.11	1.09	1.12	1.08	1.10	1.08		
Case5_F4.3	Phase Norwalk Junction		50	434	1110				1.40	1.30	FB115	1.29	1.22	1.26	1.25	1.35	1.30	1.26	1.25	1.33	1.27	1.27	1.20	1.28	1.22	1.40	1.24	1.33	1.27	1.35	1.30		
Case5_F5.3	Phase Singer		50	434	1110				1.34	1.22	ESHOR	1.19	1.15	1.21	1.18	1.22	1.14	1.20	1.18	1.24	1.15	1.18	1.14	1.34	1.18	1.25	1.22	1.31	1.21	1.28	1.22		
Case5_F6.3	Phase Bt Norwalk 345		50	434	1110				1.36	1.28	STONY	1.23	1.18	1.26	1.23	1.25	1.18	1.21	1.19	1.21	1.17	1.25	1.15	1.29	1.16	1.25	1.22	1.36	1.28	1.29	1.23		
Case5_F7.3	Phase Bt Plumtree 345		50	434	1110				1.34	1.29	STONY	1.19	1.16	1.23	1.23	1.18	1.15	1.19	1.16	1.20	1.16	1.19	1.15	1.18	1.11	1.24	1.25	1.34	1.29	1.27	1.28		
Case5_bas	No Fault		50	434	1110	PT345-LM34	1.09	1.09	ED345	1.08	1.08	1.08	1.08	1.09	1.09	1.07	1.07	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.08	1.08	1.08	1.08		
Case5_F2.3	Phase East Devon		50	434	1110	PT345-LM34	1.47	1.34	ESHOR	1.31	1.14	1.26	1.13	1.36	1.13	1.21	1.10	1.38	1.13	1.37	1.20	1.47	1.34	1.42	1.24	1.42	1.17	1.39	1.14				
Case5_F3.1	Phase East Devon		50	434	1110	PT345-LM34	1.14	1.10	ED345	1.13	1.09	1.10	1.08	1.13	1.10	1.09	1.07	1.14	1.10	1.12	1.08	1.10	1.09	1.10	1.08	1.10	1.08	1.09	1.07				
Case5_F4.3	Phase Norwalk Junction		50	434	1110	PT345-LM34	1.38	1.34	PT115	1.38	1.25	1.38	1.25	1.35	1.31	1.24	1.21	1.34	1.29	1.31	1.20	1.29	1.20	1.25	1.21	1.26	1.32	1.35	1.34				
Case5_F5.3	Phase Singer		50	434	1110	PT345-LM34	1.37	1.27	STONY	1.34	1.25	1.31	1.25	1.31	1.23	1.26	1.22	1.32	1.22	1.23	1.17	1.24	1.19	1.22	1.19	1.37	1.27	1.27					
Case5_F6.3	Phase Bt Norwalk 345		50	434	1110	PT345-LM34	1.37	1.30	NW345	1.34	1.28	1.33	1.30	1.37	1.27	1.33	1.25	1.35	1.25	1.31	1.20	1.29	1.20	1.24	1.19	1.33	1.29	1.35	1.26				
Case5_F7.3	Phase Bt Plumtree 345		50	434	1110	PT345-LM34	1.37	1.35	ROCKY	1.29	1.23	1.34	1.26	1.33	1.23	1.26	1.21	1.33	1.24	1.25	1.19	1.20	1.15	1.22	1.18	1.36	1.33	1.37	1.35				
Case5_bas	No Fault		50	434	1110	BK345-ED34	1.09	1.09	ESHOR	1.08	1.08	1.07	1.07	1.08	1.08	1.07	1.07	1.09	1.09	1.08	1.08	1.09	1.09	1.09	1.09	1.09	1.08	1.08	1.07	1.07			
Case5_F1.3	Phase Plumtree		50	434	1110	BK345-ED34	1.34	1.30	ED345	1.29	1.17	1.25	1.20	1.33	1.13	1.17	1.10	1.34	1.15	1.24	1.15	1.23	1.12	1.32	1.30	1.29	1.22	1.23	1.24				
Case5_F4.3	Phase Norwalk Junction		50	434	1110	BK345-ED34	1.70	1.34	ED345	1.29	1.22	1.27	1.24	1.69	1.26	1.38	1.25	1.70	1.26	1.21	1.17	1.31	1.17	1.32	1.25	1.35	1.28	1.44	1.34				
Case5_F5.3	Phase Singer		50	434	1110	BK345-ED34	1.38	1.27	ED345	1.28	1.23	1.25	1.20	1.37	1.26	1.27	1.23	1.38	1.27	1.19	1.14	1.23	1.17	1.23	1.17	1.28	1.20	1.24	1.19				
Case5_F6.3	Phase Bt Norwalk 345		50	434	1110	BK345-ED34	1.46	1.29	ED345	1.33	1.24	1.33	1.22	1.44	1.28	1.32	1.25	1.46	1.29	1.19	1.14	1.29	1.18	1.24	1.19	1.32	1.24	1.28	1.20				
Case5_F7.3	Phase Bt Plumtree 345		50	434	1110	BK345-ED34	1.43	1.36	ED345	1.32	1.21	1.31	1.26	1.39	1.27	1.30	1.23	1.43	1.28	1.22	1.14	1.28	1.17	1.29	1.22	1.35	1.33	1.40	1.36				
Case5_bas	No Fault		50	434	1110	NE138-NO13	1.09	1.09	ESHOR	1.07	1.07	1.07	1.07	1.08	1.08	1.08	1.08	1.09	1.09	1.08	1.08	1.09	1.09	1.09	1.09	1.09	1.07	1.07	1.07				
Case5_F1.3	Phase Plumtree		50	434	1110	NE138-NO13	1.41	1.29	ESHOR	1.30	1.16	1.27	1.23	1.28	1.18	1.30	1.22	1.29	1.18	1.19	1.16	1.41	1.26	1.25	1.21	1.37	1.29	1.31	1.24				
Case5_F2.3	Phase East Devon		50	434	1110	NE138-NO13	1.48	1.33	ESHOR	1.27	1.16	1.28	1.17	1.37	1.22	1.30	1.20	1.37	1.23	1.28	1.23	1.48	1.33	1.24	1.21	1.30	1.21	1.32	1.15				
Case5_F3.1	Phase East Devon		50	434	1110	NE138-NO13	1.10	1.09	ESHOR	1.09	1.07	1.09	1.07	1.09	1.08	1.09	1.08	1.09	1.09	1.10	1.08	1.10	1.09	1.09	1.08	1.09	1.07	1.08	1.07				
Case5_F4.3	Phase Norwalk Junction		50	434	1110	NE138-NO13	1.50	1.35	ROCKY	1.29	1.24	1.37	1.30	1.38	1.25	1.35	1.30	1.33	1.24	1.28	1.21	1.37	1.29	1.33	1.26	1.42	1.30	1.50	1.35				
Case5_F5.3	Phase Singer		50	434	1110	NE138-NO13	1.36	1.27	ESHOR	1.25	1.21	1.26	1.20	1.27	1.22	1.31	1.27	1.27	1.22	1.26	1.19	1.36	1.23	1.27	1.22	1.33	1.19	1.27	1.23				
Case5_F6.3	Phase Bt Norwalk 345		50	434	1110	NE138-NO13	1.35	1.31	NW115	1.29	1.23	1.31	1.26	1.30	1.23	1.35	1.31	1.30	1.23	1.26	1.18	1.33	1.22	1.29	1.23	1.28	1.23	1.26	1.21				
Case5_F7.3	Phase Bt Plumtree 345		50	434	1110	NE138-NO13	1.36	1.37	STONY	1.23	1.18	1.29	1.25	1.28	1.20	1.31	1.23	1.28	1.21	1.23	1.17	1.32	1.22	1.27	1.26	1.35	1.37	1.36	1.34				
Case5_bas	No Fault		50	434	1110	LM345-PLVA	1.10	1.10	ED345	1.09	1.09	1.09	1.09	1.09	1.09	1.08	1.08	1.10	1.10	1.09	1.09	1.10	1.10	1.09	1.09	1.09	1.09	1.08	1.08				
Case5_F1.3	Phase Plumtree		50	434	1110	LM345-PLVA	1.45	1.38	STONY	1.35	1.26	1.36	1.32	1.35	1.26	1.28	1.22	1.35	1.27	1.34	1.22	1.42	1.32	1.37	1.28	1.45	1.36	1.43	1.38				
Case5_F2.3	Phase East Devon		50	434	1110	LM345-PLVA	1.53	1.40	ESHOR	1.35	1.22	1.30	1.20	1.47	1.27	1.24	1.15	1.50	1.28	1.32	1.26	1.53	1.40	1.34	1.27	1.34	1.23	1.33	1.22				
Case5_F3.1	Phase East Devon		50	434	1110	LM345-PLVA	1.12	1.11	ED345	1.12	1.09	1.11	1.09	1.12	1.10	1.08	1.08	1.12	1.11	1.11	1.09	1.11	1.09	1.10	1.09	1.12	1.09	1.11	1.08				
Case5_F4.3	Phase Norwalk Junction		50	434	1110	LM345-PLVA	1.54	1.44	ROCKY	1.36	1.34	1.37	1.34	1.41	1.33	1.33	1.28	1.39	1.33	1.37	1.26	1.40	1.32	1.41	1.29	1.52	1.37	1.54	1.44				
Case5_F5.3	Phase Singer		50	434	1110	LM345-PLVA	1.42	1.31	ESHOR	1.35	1.25	1.31	1.25	1.36	1.27	1.31	1.25	1.37	1.25	1.33	1.23	1.42	1.28	1.33	1.30	1.38	1.28	1.38	1.31				
Case5_F6.3	Phase Bt Norwalk 345		50	434	1110	LM345-PLVA	1.46	1.33	ESHOR	1.38	1.28	1.42	1.30	1.41	1.28	1.32	1.26	1.43	1.29	1.34	1.24	1.46	1.30	1.33	1.30	1.40	1.28	1.36	1.33				
Case5_F7.3	Phase Bt Plumtree 345		50	434	1110	LM345-PLVA	1.44	1.36	ROCKY	1.35	1.24	1.32	1.28	1.38	1.27	1.29	1.23	1.38	1.28	1.30	1.25	1.40	1.29	1.36	1.34	1.40	1.34	1.44	1.36				

CASE #: Case 5A (Old 5 + 20) at 80% Source, Alt Load Model
 and future capacitors at Ansonia, Bunker Hill, Hawthorne
 DATE: 12/14/2004
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	
Case5_bas	No Fault		70	1382	1320				1.07	1.07	ESHOR	1.04	1.04	1.05	1.05	1.05	1.05	1.04	1.04	1.05	1.05	1.06	1.06	1.07	1.07	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Case5_F1.3	Phase Plumtree		70	1382	1320				1.35	1.23	ROCKY	1.19	1.09	1.19	1.09	1.17	1.11	1.15	1.09	1.16	1.12	1.17	1.12	1.25	1.15	1.27	1.21	1.25	1.18	1.35	1.23	
Case5_F2.3	Phase East Devon		70	1382	1320				1.31	1.24	ESHOR	1.20	1.12	1.22	1.15	1.27	1.14	1.23	1.11	1.26	1.14	1.19	1.12	1.31	1.24	1.25	1.14	1.27	1.20	1.27	1.18	
Case5_F3.1	Phase East Devon		70	1382	1320				1.11	1.06	BK345	1.07	1.04	1.08	1.04	1.07	1.04	1.07	1.03	1.08	1.04	1.11	1.06	1.07	1.06	1.07	1.05	1.07	1.05	1.09	1.05	
Case5_F4.3	Phase Norwalk Junction		70	1382	1320				1.33	1.33	ESHOR	1.29	1.19	1.20	1.17	1.27	1.19	1.20	1.13	1.27	1.19	1.24	1.16	1.33	1.24	1.26	1.22	1.31	1.26	1.31	1.33	
Case5_F5.3	Phase Singer		70	1382	1320				1.28	1.21	ESHOR	1.17	1.10	1.14	1.09	1.18	1.12	1.14	1.12	1.16	1.12	1.17	1.13	1.28	1.21	1.19	1.12	1.18	1.07	1.18	1.09	
Case5_F6.3	Phase Bt Norwalk 345		70	1382	1320				1.28	1.18	ESHOR	1.17	1.10	1.13	1.07	1.16	1.12	1.16	1.13	1.18	1.12	1.21	1.16	1.28	1.18	1.18	1.13	1.17	1.09	1.16	1.14	
Case5_F7.3	Phase Bt Plumtree 345		70	1382	1320				1.32	1.31	ROCKY	1.22	1.09	1.18	1.13	1.14	1.10	1.11	1.09	1.13	1.10	1.14	1.12	1.24	1.18	1.19	1.16	1.25	1.20	1.32	1.31	
Case5_bas	No Fault		70	1382	1320	PT345-LM34	1.06	1.06	ESHOR	1.03	1.03	1.04	1.04	1.04	1.04	1.03	1.03	1.04	1.04	1.05	1.05	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05	
Case5_F2.3	Phase East Devon		70	1382	1320	PT345-LM34	1.27	1.18	ESHOR	1.14	1.03	1.12	1.06	1.12	1.03	1.06	1.01	1.10	1.02	1.17	1.09	1.27	1.18	1.13	1.10	1.13	1.09	1.21	1.12	1.12		
Case5_F3.1	Phase East Devon		70	1382	1320	PT345-LM34	1.09	1.05	BK345	1.02	1.01	1.02	1.02	1.02	1.01	1.01	1.01	1.02	1.02	1.09	1.05	1.06	1.04	1.04	1.03	1.02	1.02	1.03	1.03	1.03		
Case5_F4.3	Phase Norwalk Junction		70	1382	1320	PT345-LM34	1.33	1.29	STONY	1.24	1.24	1.24	1.24	1.21	1.11	1.19	1.11	1.19	1.12	1.22	1.14	1.29	1.18	1.13	1.11	1.33	1.26	1.32	1.29			
Case5_F5.3	Phase Singer		70	1382	1320	PT345-LM34	1.28	1.16	ESHOR	1.19	1.12	1.15	1.07	1.22	1.14	1.18	1.11	1.24	1.14	1.21	1.13	1.28	1.16	1.21	1.13	1.21	1.13	1.21	1.09	1.25	1.11	
Case5_F6.3	Phase Bt Norwalk 345		70	1382	1320	PT345-LM34	1.28	1.15	ESHOR	1.18	1.10	1.18	1.06	1.23	1.14	1.20	1.12	1.23	1.15	1.24	1.14	1.28	1.15	1.20	1.14	1.22	1.09	1.23	1.15			
Case5_F7.3	Phase Bt Plumtree 345		70	1382	1320	PT345-LM34	1.29	1.21	STONY	1.16	1.08	1.17	1.09	1.17	1.11	1.14	1.09	1.16	1.12	1.15	1.12	1.23	1.14	1.17	1.15	1.29	1.15	1.25	1.21			
Case5_bas	No Fault		70	1382	1320	BK345-ED34	1.06	1.06	ESHOR	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.04	1.04	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.05		
Case5_F1.3	Phase Plumtree		70	1382	1320	BK345-ED34	1.30	1.25	ROCKY	1.11	1.03	1.14	1.10	1.08	1.04	1.03	1.01	1.09	1.04	1.15	1.08	1.12	1.04	1.13	1.12	1.15	1.21	1.30	1.25			
Case5_F4.3	Phase Norwalk Junction		70	1382	1320	BK345-ED34	1.49	1.39	ROCKY	1.23	1.20	1.24	1.18	1.32	1.09	1.18	1.07	1.28	1.08	1.15	1.14	1.26	1.14	1.27	1.27	1.30	1.27	1.49	1.39			
Case5_F5.3	Phase Singer		70	1382	1320	BK345-ED34	1.26	1.16	ED345	1.21	1.12	1.14	1.12	1.25	1.16	1.21	1.12	1.26	1.16	1.14	1.10	1.20	1.13	1.16	1.10	1.22	1.10	1.19	1.09			
Case5_F6.3	Phase Bt Norwalk 345		70	1382	1320	BK345-ED34	1.28	1.15	ED345	1.21	1.13	1.17	1.11	1.27	1.15	1.23	1.15	1.28	1.15	1.16	1.10	1.26	1.13	1.19	1.12	1.23	1.11	1.27	1.10			
Case5_F7.3	Phase Bt Plumtree 345		70	1382	1320	BK345-ED34	1.35	1.28	ROCKY	1.21	1.12	1.23	1.14	1.24	1.15	1.21	1.13	1.25	1.15	1.16	1.12	1.20	1.14	1.25	1.18	1.31	1.17	1.35	1.28			
Case5_bas	No Fault		70	1382	1320	NE138-NO13	1.05	1.05	ESHOR	1.02	1.02	1.03	1.03	1.02	1.02	1.03	1.03	1.03	1.03	1.04	1.04	1.05	1.05	1.03	1.03	1.03	1.03	1.04	1.04			
Case5_F1.3	Phase Plumtree		70	1382	1320	NE138-NO13	1.22	1.23	ROCKY	1.08	1.01	1.05	1.03	1.06	1.02	1.08	1.04	1.06	1.03	1.12	1.05	1.11	1.04	1.15	1.11	1.10	1.12	1.22	1.23			
Case5_F2.3	Phase East Devon		70	1382	1320	NE138-NO13	1.22	1.17	BK345	1.09	1.03	1.11	1.05	1.11	1.03	1.11	1.03	1.11	1.02	1.22	1.08	1.21	1.17	1.17	1.07	1.11	1.10	1.15	1.10			
Case5_F3.1	Phase East Devon		70	1382	1320	NE138-NO13	1.08	1.05	BK345	1.03	1.01	1.02	1.02	1.02	1.01	1.02	1.01	1.02	1.01	1.08	1.05	1.05	1.04	1.04	1.02	1.02	1.02	1.05	1.03			
Case5_F4.3	Phase Norwalk Junction		70	1382	1320	NE138-NO13	1.37	1.38	ROCKY	1.33	1.18	1.23	1.17	1.23	1.16	1.20	1.11	1.22	1.16	1.17	1.13	1.31	1.17	1.20	1.16	1.29	1.26	1.37	1.38			
Case5_F5.3	Phase Singer		70	1382	1320	NE138-NO13	1.33	1.17	ESHOR	1.17	1.10	1.11	1.10	1.16	1.10	1.19	1.11	1.15	1.09	1.17	1.11	1.33	1.17	1.21	1.11	1.15	1.07	1.13	1.07			
Case5_F6.3	Phase Bt Norwalk 345		70	1382	1320	NE138-NO13	1.29	1.17	ESHOR	1.12	1.08	1.10	1.08	1.15	1.09	1.20	1.11	1.15	1.09	1.18	1.10	1.29	1.17	1.18	1.12	1.15	1.09	1.16	1.08			
Case5_F7.3	Phase Bt Plumtree 345		70	1382	1320	NE138-NO13	1.24	1.19	ROCKY	1.17	1.06	1.10	1.07	1.10	1.07	1.14	1.09	1.11	1.07	1.12	1.08	1.21	1.14	1.23	1.13	1.17	1.13	1.24	1.19			
Case5_bas	No Fault		70	1382	1320	LM345-PLVA	1.05	1.05	ESHOR	1.03	1.03	1.04	1.04	1.03	1.03	1.03	1.04	1.04	1.04	1.04	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04				
Case5_F1.3	Phase Plumtree		70	1382	1320	LM345-PLVA	1.34	1.23	STONY	1.19	1.06	1.19	1.07	1.15	1.09	1.16	1.08	1.15	1.10	1.18	1.12	1.26	1.14	1.25	1.21	1.34	1.13	1.33	1.23			
Case5_F2.3	Phase East Devon		70	1382	1320	LM345-PLVA	1.23	1.22	ROCKY	1.13	1.04	1.12	1.07	1.15	1.03	1.13	1.03	1.15	1.03	1.19	1.11	1.22	1.22	1.18	1.11	1.20	1.08	1.23	1.11			
Case5_F3.1	Phase East Devon		70	1382	1320	LM345-PLVA	1.07	1.04	BK345	1.04	1.03	1.03	1.03	1.03	1.02	1.02	1.01	1.04	1.03	1.07	1.04	1.05	1.04	1.03	1.02	1.03	1.03	1.04	1.03			
Case5_F4.3	Phase Norwalk Junction		70	1382	1320	LM345-PLVA	1.37	1.27	ESHOR	1.36	1.21	1.24	1.19	1.33	1.15	1.22	1.12	1.28	1.14	1.24	1.13	1.37	1.23	1.19	1.18	1.30	1.20	1.35	1.27			
Case5_F5.3	Phase Singer		70	1382	1320	LM345-PLVA	1.35	1.18	ESHOR	1.15	1.11	1.14	1.11	1.19	1.11	1.19	1.09	1.21	1.10	1.24	1.11	1.35	1.18	1.21	1.14	1.21	1.11	1.22	1.12			
Case5_F6.3	Phase Bt Norwalk 345		70	1382	1320	LM345-PLVA	1.34	1.18	ESHOR	1.16	1.10	1.15	1.11	1.20	1.12	1.18	1.11	1.19	1.10	1.22	1.10	1.34	1.18	1.25	1.17	1.20	1.15	1.29	1.14			
Case5_F7.3	Phase Bt Plumtree 345		70	1382	1320	LM345-PLVA	1.30	1.22	FB115	1.18	1.08	1.18	1.07	1.14	1.08	1.16	1.07	1.14	1.09	1.14	1.09	1.27	1.15	1.30	1.22	1.27	1.11	1.28	1.20			

CASE #: Case 5A (Old 5 + 20) at 80% Source
 and future capacitors at Ansonia, Bunker Hill, Hawthorne
 DONE BY: Jack King/EnerNex

DATE: 12/14/2004
 GE 2C and 6C Windows

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C
Case5_basNo Fault			30	0	920				1.12	1.12	ED345	1.10	1.10	1.10	1.10	1.11	1.11	1.09	1.09	1.12	1.12	1.10	1.10	1.10	1.10	1.08	1.08	1.09	1.09	1.09	1.09	
Case5_F1.3 Phase		Plumtree	30	0	920				1.29	1.21	PT115	1.28	1.19	1.29	1.20	1.23	1.19	1.20	1.19	1.24	1.20	1.19	1.17	1.21	1.18	1.23	1.17	1.28	1.20	1.24	1.21	
Case5_F2.3 Phase		East Devon	30	0	920				1.40	1.30	NW345	1.29	1.23	1.28	1.24	1.40	1.29	1.27	1.20	1.40	1.30	1.23	1.19	1.29	1.27	1.19	1.18	1.28	1.23	1.28	1.21	
Case5_F3.1 Phase		East Devon	30	0	920				1.17	1.13	ED345	1.15	1.11	1.16	1.10	1.16	1.12	1.12	1.10	1.17	1.13	1.12	1.09	1.11	1.10	1.11	1.08	1.14	1.10	1.13	1.09	
Case5_F4.3 Phase		Norwalk Junction	30	0	920				1.37	1.23	ED345	1.21	1.22	1.25	1.21	1.36	1.21	1.20	1.16	1.37	1.21	1.22	1.21	1.22	1.18	1.19	1.16	1.26	1.23	1.24	1.22	
Case5_F5.3 Phase		Singer	30	0	920				1.41	1.21	ED345	1.31	1.16	1.31	1.21	1.41	1.18	1.26	1.17	1.41	1.19	1.21	1.15	1.26	1.19	1.18	1.16	1.29	1.21	1.28	1.20	
Case5_F6.3 Phase Bt		Norwalk 345	30	0	920				1.34	1.21	PT115	1.22	1.16	1.34	1.19	1.33	1.18	1.24	1.17	1.33	1.18	1.22	1.16	1.23	1.15	1.21	1.17	1.33	1.18	1.30	1.21	
Case5_F7.3 Phase Bt		Plumtree 345	30	0	920				1.32	1.25	STONY	1.26	1.22	1.31	1.24	1.19	1.13	1.17	1.13	1.20	1.16	1.21	1.16	1.18	1.15	1.20	1.13	1.32	1.21	1.31	1.25	
Case5_basNo Fault			30	0	920	PT345-LM34	1.13	1.13	ED345	1.12	1.12	1.11	1.11	1.13	1.13	1.10	1.10	1.13	1.13	1.11	1.11	1.11	1.11	1.09	1.09	1.11	1.11	1.11	1.10	1.10	1.10	
Case5_F2.3 Phase		East Devon	30	0	920	PT345-LM34	1.67	1.38	NW345	1.60	1.35	1.58	1.36	1.67	1.34	1.46	1.23	1.65	1.34	1.34	1.25	1.44	1.38	1.31	1.23	1.54	1.32	1.44	1.30			
Case5_F3.1 Phase		East Devon	30	0	920	PT345-LM34	1.22	1.18	ED345	1.22	1.17	1.19	1.15	1.21	1.18	1.14	1.13	1.22	1.18	1.12	1.09	1.12	1.11	1.11	1.09	1.18	1.14	1.15	1.15	1.12		
Case5_F4.3 Phase		Norwalk Junction	30	0	920	PT345-LM34	1.31	1.23	NW345	1.28	1.20	1.28	1.20	1.31	1.23	1.22	1.16	1.31	1.22	1.23	1.16	1.24	1.16	1.17	1.12	1.26	1.20	1.23	1.21			
Case5_F5.3 Phase		Singer	30	0	920	PT345-LM34	1.35	1.20	NW345	1.27	1.15	1.24	1.20	1.35	1.15	1.18	1.13	1.34	1.17	1.19	1.15	1.17	1.13	1.18	1.13	1.25	1.19	1.28	1.20			
Case5_F6.3 Phase Bt		Norwalk 345	30	0	920	PT345-LM34	1.30	1.28	STONY	1.28	1.28	1.29	1.25	1.30	1.23	1.21	1.17	1.30	1.20	1.22	1.18	1.21	1.18	1.20	1.18	1.30	1.25	1.28	1.24			
Case5_F7.3 Phase Bt		Plumtree 345	30	0	920	PT345-LM34	1.31	1.24	PT115	1.27	1.19	1.31	1.21	1.23	1.18	1.20	1.17	1.24	1.21	1.18	1.17	1.19	1.18	1.20	1.18	1.28	1.22	1.26	1.24			
Case5_basNo Fault			30	0	920	BK345-ED34	1.13	1.13	ED345	1.11	1.11	1.10	1.10	1.12	1.12	1.10	1.10	1.13	1.13	1.09	1.09	1.10	1.10	1.08	1.08	1.10	1.10	1.09	1.10	1.09	1.09	
Case5_F1.3 Phase		Plumtree	30	0	920	BK345-ED34	1.61	1.41	PT345	1.61	1.37	1.56	1.41	1.59	1.35	1.41	1.25	1.61	1.37	1.22	1.16	1.33	1.17	1.27	1.17	1.57	1.41	1.52	1.32			
Case5_F4.3 Phase		Norwalk Junction	30	0	920	BK345-ED34	2.07	1.65	ED345	1.34	1.35	1.46	1.42	2.03	1.63	1.66	1.38	2.07	1.65	1.25	1.18	1.44	1.28	1.29	1.25	1.41	1.42	1.44	1.44			
Case5_F5.3 Phase		Singer	30	0	920	BK345-ED34	1.40	1.27	ED345	1.27	1.17	1.22	1.21	1.39	1.25	1.23	1.19	1.40	1.27	1.17	1.12	1.18	1.15	1.19	1.14	1.24	1.21	1.24	1.18			
Case5_F6.3 Phase Bt		Norwalk 345	30	0	920	BK345-ED34	1.42	1.33	ED345	1.29	1.24	1.31	1.23	1.41	1.31	1.27	1.23	1.42	1.33	1.16	1.15	1.23	1.18	1.18	1.16	1.31	1.24	1.25	1.22			
Case5_F7.3 Phase Bt		Plumtree 345	30	0	920	BK345-ED34	1.35	1.29	ED345	1.26	1.22	1.29	1.25	1.32	1.27	1.27	1.21	1.35	1.29	1.23	1.16	1.20	1.17	1.22	1.17	1.27	1.25	1.29	1.21			
Case5_basNo Fault			30	0	920	NE138-NO13	1.13	1.13	ED345	1.11	1.11	1.11	1.11	1.12	1.12	1.12	1.12	1.13	1.13	1.11	1.11	1.11	1.11	1.09	1.09	1.11	1.11	1.10	1.10	1.10	1.10	
Case5_F1.3 Phase		Plumtree	30	0	920	NE138-NO13	1.42	1.32	PT115	1.39	1.31	1.42	1.32	1.38	1.31	1.38	1.28	1.37	1.30	1.27	1.23	1.25	1.21	1.27	1.23	1.40	1.32	1.35	1.29			
Case5_F2.3 Phase		East Devon	30	0	920	NE138-NO13	1.46	1.34	ED345	1.39	1.30	1.36	1.31	1.45	1.32	1.42	1.30	1.46	1.34	1.24	1.22	1.39	1.33	1.28	1.26	1.35	1.31	1.36	1.30			
Case5_F3.1 Phase		East Devon	30	0	920	NE138-NO13	1.16	1.15	ED345	1.13	1.12	1.13	1.12	1.15	1.14	1.14	1.13	1.16	1.15	1.10	1.09	1.11	1.11	1.10	1.09	1.13	1.12	1.11	1.10			
Case5_F4.3 Phase		Norwalk Junction	30	0	920	NE138-NO13	1.46	1.35	NW345	1.25	1.20	1.28	1.22	1.46	1.35	1.39	1.30	1.45	1.34	1.33	1.30	1.26	1.22	1.27	1.19	1.29	1.23	1.32	1.22			
Case5_F5.3 Phase		Singer	30	0	920	NE138-NO13	1.35	1.23	NW345	1.25	1.15	1.26	1.22	1.35	1.18	1.29	1.18	1.31	1.17	1.19	1.16	1.21	1.14	1.21	1.15	1.26	1.23	1.25	1.21			
Case5_F6.3 Phase Bt		Norwalk 345	30	0	920	NE138-NO13	1.29	1.22	PT115	1.22	1.18	1.29	1.20	1.27	1.20	1.27	1.22	1.28	1.22	1.21	1.17	1.21	1.17	1.19	1.15	1.28	1.22	1.28	1.22			
Case5_F7.3 Phase Bt		Plumtree 345	30	0	920	NE138-NO13	1.29	1.29	STONY	1.21	1.18	1.29	1.29	1.21	1.20	1.22	1.19	1.22	1.20	1.19	1.19	1.18	1.17	1.19	1.19	1.29	1.27	1.26	1.26			
Case5_basNo Fault			30	0	920	LM345-PLVA	1.14	1.14	ED345	1.13	1.13	1.12	1.12	1.14	1.14	1.11	1.11	1.14	1.14	1.12	1.12	1.12	1.11	1.11	1.12	1.12	1.11	1.11	1.11	1.11	1.11	
Case5_F1.3 Phase		Plumtree	30	0	920	LM345-PLVA	1.39	1.26	PT115	1.30	1.26	1.39	1.25	1.28	1.24	1.22	1.20	1.29	1.26	1.22	1.21	1.27	1.21	1.25	1.20	1.37	1.24	1.35	1.24			
Case5_F2.3 Phase		East Devon	30	0	920	LM345-PLVA	1.69	1.48	NW345	1.60	1.47	1.57	1.41	1.69	1.47	1.51	1.35	1.69	1.48	1.39	1.29	1.55	1.43	1.40	1.34	1.58	1.40	1.53	1.39			
Case5_F3.1 Phase		East Devon	30	0	920	LM345-PLVA	1.24	1.17	ED345	1.20	1.15	1.19	1.14	1.22	1.16	1.16	1.12	1.24	1.17	1.14	1.10	1.14	1.12	1.16	1.11	1.18	1.13	1.17	1.12			
Case5_F4.3 Phase		Norwalk Junction	30	0	920	LM345-PLVA	1.38	1.26	ED345	1.27	1.23	1.24	1.22	1.36	1.25	1.23	1.21	1.38	1.26	1.24	1.21	1.24	1.21	1.19	1.20	1.27	1.22	1.27	1.22			
Case5_F5.3 Phase		Singer	30	0	920	LM345-PLVA	1.36	1.23	NW345	1.33	1.17	1.30	1.21	1.36	1.19	1.18	1.15	1.32	1.19	1.20	1.16	1.19	1.17	1.25	1.19	1.28	1.23	1.28	1.20			
Case5_F6.3 Phase Bt		Norwalk 345	30	0	920	LM345-PLVA	1.34	1.26	ED345	1.30	1.24	1.30	1.25	1.31	1.24	1.22	1.20	1.34	1.26	1.24	1.21	1.24	1.21	1.21	1.17	1.30	1.24	1.27	1.20			
Case5_F7.3 Phase Bt		Plumtree 345	30	0	920	LM345-PLVA	1.34	1.29	PT115	1.30	1.28	1.34	1.26	1.26	1.24	1.22	1.19	1.26	1.23	1.22	1.19	1.21	1.19	1.25	1.22	1.33	1.29	1.32	1.27			

CASE #: Case 5A (Old 5 + 20) at 80% Source
and future capacitors at Ansonia, Bunker Hill, Hawthorne
DATE: 12/14/2004
GE 2C and 6C Windows
DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C
Case5_bas	No Fault		40	0	920				1.10	1.10	ED345	1.09	1.09	1.08	1.08	1.10	1.10	1.07	1.07	1.10	1.10	1.09	1.09	1.08	1.08	1.07	1.07	1.07	1.07	1.07	1.07	1.07
Case5_F1.3	Phase Plumtree		40	0	920				1.23	1.18	PT115	1.21	1.16	1.23	1.18	1.17	1.15	1.16	1.13	1.19	1.16	1.15	1.15	1.17	1.13	1.18	1.12	1.22	1.18	1.19	1.17	
Case5_F2.3	Phase East Devon		40	0	920				1.34	1.24	ED345	1.24	1.19	1.21	1.17	1.33	1.23	1.23	1.16	1.34	1.24	1.21	1.16	1.24	1.21	1.16	1.15	1.21	1.17	1.22	1.17	
Case5_F3.1	Phase East Devon		40	0	920				1.15	1.11	ED345	1.11	1.09	1.10	1.08	1.14	1.11	1.10	1.08	1.15	1.11	1.09	1.08	1.09	1.08	1.08	1.07	1.10	1.08	1.09	1.07	
Case5_F4.3	Phase Norwalk Junction		40	0	920				1.31	1.21	NW345	1.20	1.19	1.22	1.15	1.31	1.17	1.17	1.12	1.30	1.17	1.21	1.21	1.17	1.14	1.19	1.14	1.22	1.15	1.20	1.16	
Case5_F5.3	Phase Singer		40	0	920				1.35	1.18	NW345	1.24	1.14	1.27	1.17	1.35	1.15	1.22	1.13	1.35	1.16	1.18	1.14	1.19	1.15	1.17	1.14	1.26	1.18	1.25	1.18	
Case5_F6.3	Phase Bt Norwalk 345		40	0	920				1.31	1.19	ED345	1.19	1.14	1.22	1.16	1.30	1.14	1.19	1.14	1.31	1.15	1.17	1.13	1.19	1.12	1.18	1.14	1.26	1.16	1.26	1.19	
Case5_F7.3	Phase Bt Plumtree 345		40	0	920				1.28	1.19	PT115	1.23	1.19	1.28	1.17	1.16	1.12	1.14	1.10	1.17	1.14	1.17	1.15	1.13	1.12	1.15	1.11	1.25	1.16	1.24	1.17	
Case5_bas	No Fault		40	0	920	PT345-LM34	1.11	1.11	ED345	1.10	1.10	1.09	1.09	1.11	1.11	1.08	1.08	1.11	1.11	1.09	1.09	1.09	1.09	1.07	1.07	1.07	1.08	1.08	1.07	1.07	1.07	
Case5_F2.3	Phase East Devon		40	0	920	PT345-LM34	1.52	1.28	NW345	1.50	1.25	1.46	1.24	1.52	1.26	1.35	1.18	1.51	1.27	1.29	1.23	1.32	1.28	1.23	1.16	1.45	1.22	1.38	1.19			
Case5_F3.1	Phase East Devon		40	0	920	PT345-LM34	1.18	1.15	ED345	1.18	1.14	1.15	1.11	1.17	1.14	1.11	1.10	1.18	1.15	1.09	1.08	1.09	1.08	1.08	1.07	1.14	1.11	1.13	1.09			
Case5_F4.3	Phase Norwalk Junction		40	0	920	PT345-LM34	1.24	1.18	NW345	1.20	1.13	1.20	1.13	1.24	1.18	1.15	1.12	1.24	1.17	1.22	1.13	1.15	1.12	1.15	1.10	1.18	1.12	1.15	1.15			
Case5_F5.3	Phase Singer		40	0	920	PT345-LM34	1.30	1.18	NW345	1.24	1.12	1.21	1.15	1.30	1.11	1.13	1.10	1.28	1.12	1.16	1.12	1.11	1.11	1.15	1.10	1.22	1.17	1.23	1.18			
Case5_F6.3	Phase Bt Norwalk 345		40	0	920	PT345-LM34	1.26	1.22	ROCKY	1.21	1.21	1.21	1.22	1.23	1.19	1.16	1.14	1.23	1.15	1.19	1.14	1.16	1.15	1.16	1.13	1.22	1.22	1.26	1.18			
Case5_F7.3	Phase Bt Plumtree 345		40	0	920	PT345-LM34	1.25	1.19	STONY	1.25	1.15	1.25	1.19	1.17	1.15	1.15	1.12	1.19	1.17	1.14	1.14	1.15	1.13	1.15	1.13	1.25	1.19	1.20	1.18			
Case5_bas	No Fault		40	0	920	BK345-ED34	1.11	1.11	ED345	1.09	1.09	1.08	1.08	1.11	1.11	1.08	1.08	1.11	1.11	1.08	1.08	1.08	1.08	1.06	1.06	1.08	1.08	1.07	1.07			
Case5_F1.3	Phase Plumtree		40	0	920	BK345-ED34	1.49	1.28	ED345	1.46	1.25	1.39	1.28	1.47	1.27	1.32	1.17	1.49	1.28	1.17	1.13	1.23	1.13	1.16	1.15	1.39	1.28	1.30	1.22			
Case5_F4.3	Phase Norwalk Junction		40	0	920	BK345-ED34	1.87	1.53	ED345	1.24	1.24	1.31	1.28	1.83	1.50	1.49	1.29	1.87	1.53	1.19	1.15	1.35	1.20	1.22	1.12	1.27	1.30	1.32	1.31			
Case5_F5.3	Phase Singer		40	0	920	BK345-ED34	1.32	1.21	ED345	1.21	1.15	1.18	1.16	1.31	1.19	1.18	1.15	1.32	1.21	1.13	1.10	1.15	1.13	1.15	1.10	1.18	1.16	1.17	1.14			
Case5_F6.3	Phase Bt Norwalk 345		40	0	920	BK345-ED34	1.34	1.26	ED345	1.24	1.19	1.26	1.18	1.33	1.25	1.22	1.19	1.34	1.26	1.13	1.12	1.19	1.14	1.15	1.12	1.27	1.18	1.24	1.18			
Case5_F7.3	Phase Bt Plumtree 345		40	0	920	BK345-ED34	1.29	1.24	ED345	1.21	1.18	1.24	1.17	1.26	1.22	1.21	1.17	1.29	1.24	1.18	1.12	1.16	1.14	1.15	1.12	1.24	1.17	1.23	1.16			
Case5_bas	No Fault		40	0	920	NE138-NO13	1.11	1.11	ED345	1.09	1.09	1.08	1.08	1.10	1.10	1.09	1.09	1.11	1.11	1.09	1.09	1.09	1.09	1.07	1.07	1.08	1.08	1.07	1.07			
Case5_F1.3	Phase Plumtree		40	0	920	NE138-NO13	1.31	1.25	PT115	1.28	1.21	1.31	1.25	1.26	1.21	1.24	1.20	1.25	1.22	1.20	1.17	1.17	1.15	1.18	1.17	1.29	1.24	1.25	1.20			
Case5_F2.3	Phase East Devon		40	0	920	NE138-NO13	1.34	1.24	NW345	1.30	1.21	1.27	1.22	1.34	1.23	1.30	1.21	1.33	1.24	1.20	1.18	1.30	1.22	1.20	1.16	1.27	1.22	1.25	1.20			
Case5_F3.1	Phase East Devon		40	0	920	NE138-NO13	1.13	1.12	ED345	1.10	1.10	1.09	1.09	1.12	1.11	1.11	1.10	1.13	1.12	1.08	1.08	1.09	1.08	1.07	1.07	1.09	1.08	1.08	1.07			
Case5_F4.3	Phase Norwalk Junction		40	0	920	NE138-NO13	1.34	1.25	ED345	1.22	1.14	1.22	1.15	1.33	1.25	1.27	1.20	1.34	1.25	1.28	1.24	1.20	1.16	1.19	1.14	1.22	1.15	1.18	1.14			
Case5_F5.3	Phase Singer		40	0	920	NE138-NO13	1.30	1.17	NW345	1.19	1.13	1.22	1.14	1.30	1.12	1.20	1.12	1.24	1.11	1.17	1.12	1.14	1.10	1.16	1.11	1.22	1.17	1.18	1.17			
Case5_F6.3	Phase Bt Norwalk 345		40	0	920	NE138-NO13	1.26	1.17	PT115	1.16	1.13	1.26	1.15	1.20	1.14	1.18	1.15	1.20	1.16	1.18	1.13	1.14	1.12	1.15	1.11	1.25	1.16	1.26	1.17			
Case5_F7.3	Phase Bt Plumtree 345		40	0	920	NE138-NO13	1.24	1.21	PT115	1.16	1.14	1.24	1.21	1.16	1.15	1.16	1.14	1.17	1.15	1.16	1.15	1.13	1.12	1.15	1.14	1.21	1.20	1.22	1.17			
Case5_bas	No Fault		40	0	920	LM345-PLVA	1.12	1.12	ED345	1.11	1.11	1.10	1.10	1.11	1.11	1.08	1.08	1.12	1.12	1.10	1.10	1.09	1.09	1.08	1.08	1.09	1.09	1.08	1.08			
Case5_F1.3	Phase Plumtree		40	0	920	LM345-PLVA	1.28	1.20	PT115	1.22	1.20	1.28	1.19	1.21	1.19	1.16	1.14	1.22	1.20	1.18	1.17	1.20	1.14	1.18	1.14	1.27	1.20	1.23	1.18			
Case5_F2.3	Phase East Devon		40	0	920	LM345-PLVA	1.51	1.35	ED345	1.45	1.33	1.40	1.31	1.51	1.33	1.36	1.25	1.51	1.35	1.29	1.22	1.39	1.29	1.28	1.25	1.43	1.31	1.37	1.29			
Case5_F3.1	Phase East Devon		40	0	920	LM345-PLVA	1.18	1.14	ED345	1.15	1.12	1.13	1.11	1.16	1.13	1.11	1.09	1.18	1.14	1.11	1.08	1.10	1.09	1.10	1.08	1.12	1.10	1.12	1.09			
Case5_F4.3	Phase Norwalk Junction		40	0	920	LM345-PLVA	1.28	1.20	NW345	1.20	1.17	1.20	1.14	1.28	1.20	1.16	1.15	1.28	1.20	1.21	1.16	1.18	1.16	1.14	1.13	1.19	1.14	1.17	1.14			
Case5_F5.3	Phase Singer		40	0	920	LM345-PLVA	1.28	1.15	NW345	1.28	1.12	1.24	1.14	1.28	1.13	1.13	1.11	1.27	1.13	1.18	1.12	1.12	1.11	1.16	1.13	1.23	1.15	1.25	1.14			
Case5_F6.3	Phase Bt Norwalk 345		40	0	920	LM345-PLVA	1.25	1.19	ED345	1.22	1.16	1.24	1.18	1.23	1.17	1.16	1.14	1.25	1.19	1.20	1.15	1.17	1.15	1.16	1.13	1.23	1.16	1.21	1.16			
Case5_F7.3	Phase Bt Plumtree 345		40	0	920	LM345-PLVA	1.26	1.20	PT115	1.24	1.20	1.26	1.20	1.19	1.18	1.16	1.13	1.19	1.17	1.16	1.15	1.16	1.13	1.18	1.15	1.26	1.20	1.25	1.18			

CASE #: 5A - Case 5 (Old) + 20 Miles of Cable (GE 2C and 6C windows)

DATE: 12/15/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_basNo Fault			30	0	920				1.09	1.09	ED345	1.07	1.07	1.07	1.07	1.08	1.08	1.07	1.07	1.09	1.09	1.07	1.07	1.07	1.07	1.06	1.06	1.07	1.07	1.06	1.06
Case5_F1.3 Phase		Plumtree	30	0	920				1.24	1.21	PT345	1.24	1.15	1.23	1.19	1.16	1.14	1.15	1.14	1.18	1.14	1.15	1.13	1.14	1.11	1.15	1.10	1.23	1.21	1.20	1.15
Case5_F2.3 Phase		East Devon	30	0	920				1.35	1.25	ED345	1.26	1.18	1.24	1.21	1.34	1.22	1.23	1.16	1.35	1.23	1.22	1.18	1.26	1.25	1.16	1.16	1.25	1.21	1.24	1.18
Case5_F3.1 Phase		East Devon	30	0	920				1.16	1.11	ED345	1.13	1.08	1.12	1.08	1.15	1.10	1.11	1.07	1.16	1.11	1.09	1.06	1.09	1.07	1.08	1.05	1.12	1.07	1.10	1.06
Case5_F4.3 Phase		Norwalk Junction	30	0	920				1.31	1.23	ED345	1.24	1.23	1.23	1.22	1.29	1.17	1.17	1.13	1.31	1.17	1.19	1.17	1.17	1.13	1.22	1.13	1.23	1.20	1.22	1.20
Case5_F5.3 Phase		Singer	30	0	920				1.34	1.23	ROCKY	1.22	1.15	1.22	1.22	1.32	1.17	1.20	1.15	1.31	1.15	1.21	1.13	1.26	1.13	1.18	1.14	1.23	1.21	1.34	1.23
Case5_F6.3 Phase Bt		Norwalk 345	30	0	920				1.30	1.19	ED345	1.19	1.14	1.24	1.19	1.29	1.15	1.19	1.16	1.30	1.16	1.18	1.14	1.20	1.12	1.15	1.12	1.28	1.19	1.25	1.18
Case5_F7.3 Phase Bt		Plumtree 345	30	0	920				1.34	1.20	ROCKY	1.25	1.19	1.31	1.20	1.17	1.11	1.16	1.10	1.19	1.13	1.17	1.13	1.12	1.11	1.16	1.11	1.31	1.19	1.34	1.19
Case5_basNo Fault			30	0	920	PT345-LM34	1.10	1.10	ED345	1.10	1.10	1.09	1.09	1.10	1.10	1.08	1.08	1.10	1.10	1.08	1.08	1.08	1.08	1.08	1.08	1.06	1.06	1.08	1.08	1.07	1.07
Case5_F2.3 Phase		East Devon	30	0	920	PT345-LM34	1.66	1.33	NW345	1.62	1.33	1.56	1.30	1.66	1.31	1.45	1.22	1.65	1.32	1.31	1.22	1.40	1.33	1.25	1.16	1.56	1.29	1.45	1.26		
Case5_F3.1 Phase		East Devon	30	0	920	PT345-LM34	1.22	1.16	ED345	1.20	1.14	1.17	1.12	1.21	1.15	1.13	1.10	1.22	1.16	1.10	1.06	1.09	1.08	1.08	1.06	1.16	1.11	1.14	1.09		
Case5_F4.3 Phase		Norwalk Junction	30	0	920	PT345-LM34	1.29	1.19	NW345	1.29	1.18	1.29	1.18	1.29	1.16	1.16	1.13	1.29	1.16	1.17	1.13	1.13	1.11	1.13	1.11	1.27	1.18	1.22	1.19		
Case5_F5.3 Phase		Singer	30	0	920	PT345-LM34	1.31	1.18	ED345	1.26	1.13	1.23	1.18	1.29	1.11	1.15	1.09	1.31	1.13	1.15	1.09	1.12	1.09	1.15	1.11	1.23	1.18	1.26	1.17		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	920	PT345-LM34	1.26	1.21	NW345	1.24	1.21	1.22	1.16	1.26	1.17	1.17	1.13	1.25	1.14	1.18	1.12	1.17	1.13	1.15	1.12	1.22	1.16	1.23	1.18		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	920	PT345-LM34	1.26	1.19	STONY	1.20	1.15	1.25	1.18	1.17	1.14	1.14	1.13	1.18	1.15	1.15	1.12	1.15	1.11	1.13	1.11	1.26	1.19	1.21	1.16		
Case5_basNo Fault			30	0	920	BK345-ED34	1.10	1.10	ED345	1.08	1.08	1.08	1.08	1.10	1.10	1.07	1.07	1.10	1.10	1.06	1.06	1.07	1.05	1.05	1.07	1.07	1.06	1.06	1.06		
Case5_F1.3 Phase		Plumtree	30	0	920	BK345-ED34	1.61	1.39	ED345	1.59	1.35	1.52	1.39	1.58	1.33	1.41	1.22	1.61	1.36	1.19	1.09	1.30	1.15	1.23	1.17	1.50	1.39	1.44	1.34		
Case5_F4.3 Phase		Norwalk Junction	30	0	920	BK345-ED34	2.03	1.66	ED345	1.23	1.24	1.33	1.29	2.01	1.63	1.60	1.37	2.03	1.66	1.20	1.14	1.42	1.26	1.25	1.17	1.35	1.34	1.40	1.37		
Case5_F5.3 Phase		Singer	30	0	920	BK345-ED34	1.36	1.22	NW345	1.20	1.13	1.20	1.15	1.36	1.19	1.19	1.15	1.34	1.22	1.11	1.09	1.15	1.13	1.12	1.10	1.19	1.16	1.20	1.14		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	920	BK345-ED34	1.38	1.27	NW345	1.25	1.19	1.26	1.19	1.38	1.26	1.25	1.20	1.36	1.27	1.13	1.11	1.21	1.15	1.15	1.13	1.26	1.20	1.27	1.19		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	920	BK345-ED34	1.29	1.23	ED345	1.21	1.18	1.27	1.22	1.27	1.21	1.22	1.18	1.29	1.23	1.18	1.13	1.17	1.13	1.16	1.13	1.26	1.21	1.23	1.17		
Case5_basNo Fault			30	0	920	NE138-NO13	1.10	1.10	ED345	1.08	1.08	1.08	1.08	1.09	1.09	1.09	1.09	1.10	1.10	1.08	1.08	1.08	1.08	1.06	1.06	1.07	1.07	1.07			
Case5_F1.3 Phase		Plumtree	30	0	920	NE138-NO13	1.16	1.28	STONY	1.31	1.24	1.36	1.28	1.30	1.24	1.28	1.22	1.29	1.24	1.20	1.18	1.21	1.16	1.20	1.14	1.36	1.28	1.29	1.22		
Case5_F2.3 Phase		East Devon	30	0	920	NE138-NO13	1.39	1.27	ED345	1.32	1.23	1.32	1.25	1.38	1.25	1.35	1.24	1.39	1.25	1.21	1.20	1.34	1.27	1.22	1.19	1.32	1.25	1.31	1.26		
Case5_F3.1 Phase		East Devon	30	0	920	NE138-NO13	1.14	1.12	ED345	1.11	1.09	1.10	1.09	1.13	1.11	1.12	1.10	1.14	1.12	1.08	1.06	1.09	1.08	1.07	1.06	1.10	1.08	1.09	1.07		
Case5_F4.3 Phase		Norwalk Junction	30	0	920	NE138-NO13	1.42	1.29	NW345	1.28	1.19	1.24	1.15	1.42	1.29	1.34	1.25	1.40	1.29	1.29	1.25	1.22	1.18	1.25	1.14	1.25	1.14	1.28	1.16		
Case5_F5.3 Phase		Singer	30	0	920	NE138-NO13	1.30	1.24	NW345	1.24	1.13	1.24	1.24	1.30	1.12	1.23	1.15	1.27	1.12	1.17	1.11	1.16	1.10	1.14	1.13	1.25	1.23	1.25	1.23		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	920	NE138-NO13	1.33	1.19	ROCKY	1.17	1.15	1.25	1.19	1.28	1.16	1.20	1.16	1.28	1.17	1.19	1.13	1.13	1.12	1.14	1.11	1.24	1.19	1.33	1.19		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	920	NE138-NO13	1.25	1.22	PT115	1.19	1.14	1.25	1.22	1.17	1.16	1.17	1.14	1.18	1.16	1.16	1.13	1.13	1.12	1.14	1.11	1.22	1.21	1.21	1.18		
Case5_basNo Fault			30	0	920	LM345-PLVA	1.11	1.11	ED345	1.10	1.10	1.09	1.09	1.11	1.11	1.08	1.08	1.11	1.11	1.09	1.09	1.08	1.08	1.07	1.07	1.09	1.09	1.08	1.08		
Case5_F1.3 Phase		Plumtree	30	0	920	LM345-PLVA	1.31	1.20	STONY	1.26	1.18	1.31	1.20	1.20	1.18	1.17	1.15	1.23	1.19	1.18	1.15	1.17	1.16	1.20	1.18	1.31	1.20	1.26	1.20		
Case5_F2.3 Phase		East Devon	30	0	920	LM345-PLVA	1.61	1.42	ED345	1.54	1.41	1.46	1.40	1.61	1.41	1.45	1.30	1.61	1.42	1.32	1.26	1.44	1.36	1.39	1.34	1.45	1.40	1.42	1.37		
Case5_F3.1 Phase		East Devon	30	0	920	LM345-PLVA	1.23	1.14	ED345	1.20	1.12	1.21	1.11	1.22	1.13	1.16	1.10	1.23	1.14	1.15	1.08	1.15	1.09	1.14	1.08	1.20	1.10	1.17	1.09		
Case5_F4.3 Phase		Norwalk Junction	30	0	920	LM345-PLVA	1.31	1.20	ED345	1.21	1.20	1.18	1.19	1.30	1.19	1.17	1.15	1.31	1.19	1.20	1.17	1.18	1.15	1.18	1.14	1.18	1.19	1.19	1.18		
Case5_F5.3 Phase		Singer	30	0	920	LM345-PLVA	1.29	1.18	NW345	1.26	1.14	1.23	1.18	1.29	1.13	1.13	1.10	1.27	1.13	1.16	1.11	1.15	1.11	1.19	1.12	1.24	1.17	1.25	1.17		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	920	LM345-PLVA	1.27	1.20	PT115	1.23	1.17	1.27	1.20	1.24	1.17	1.16	1.14	1.26	1.18	1.22	1.14	1.19	1.14	1.18	1.13	1.27	1.18	1.24	1.16		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	920	LM345-PLVA	1.26	1.20	PT115	1.22	1.20	1.26	1.19	1.18	1.16	1.16	1.15	1.19	1.16	1.16	1.13	1.15	1.13	1.20	1.17	1.25	1.19	1.25	1.20		

CASE #: 5A - Case 5 (Old) + 20 Miles of Cable (GE 2C and 6C windows)

DATE: 12/15/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C
Case5_basNo Fault			40	0	920				1.07	1.07	ED345	1.06	1.06	1.05	1.05	1.07	1.07	1.05	1.05	1.07	1.07	1.06	1.06	1.06	1.06	1.04	1.04	1.05	1.05	1.04	1.04	
Case5_F1_3 Phase	Plumtree		40	0	920				1.18	1.15	PT345	1.18	1.13	1.18	1.15	1.14	1.10	1.10	1.09	1.14	1.11	1.14	1.10	1.11	1.07	1.12	1.08	1.17	1.14	1.16	1.12	
Case5_F2_3 Phase	East Devon		40	0	920				1.29	1.18	ED345	1.21	1.13	1.17	1.15	1.28	1.17	1.18	1.13	1.29	1.18	1.18	1.14	1.21	1.16	1.12	1.11	1.18	1.15	1.19	1.13	
Case5_F3_1 Phase	East Devon		40	0	920				1.13	1.09	ED345	1.11	1.07	1.09	1.06	1.13	1.08	1.08	1.06	1.13	1.09	1.08	1.05	1.07	1.05	1.06	1.04	1.09	1.05	1.08	1.04	
Case5_F4_3 Phase	Norwalk Junction		40	0	920				1.25	1.20	NW345	1.20	1.20	1.16	1.15	1.25	1.13	1.13	1.10	1.24	1.13	1.17	1.15	1.12	1.09	1.15	1.10	1.15	1.13	1.16	1.13	
Case5_F5_3 Phase	Singer		40	0	920				1.31	1.20	NW345	1.21	1.11	1.19	1.19	1.31	1.14	1.16	1.12	1.29	1.13	1.17	1.11	1.17	1.09	1.15	1.12	1.19	1.19	1.28	1.20	
Case5_F6_3 Phase Bt	Norwalk 345		40	0	920				1.26	1.15	ED345	1.17	1.12	1.22	1.15	1.25	1.12	1.17	1.13	1.26	1.13	1.15	1.12	1.13	1.09	1.13	1.10	1.19	1.15	1.20	1.15	
Case5_F7_3 Phase Bt	Plumtree 345		40	0	920				1.28	1.16	STONY	1.21	1.16	1.28	1.13	1.14	1.10	1.12	1.08	1.15	1.11	1.15	1.12	1.09	1.09	1.10	1.09	1.28	1.14	1.28	1.14	
Case5_basNo Fault			40	0	920	PT345-LM34	1.08	1.08	ED345			1.08	1.08	1.07	1.07	1.08	1.08	1.06	1.06	1.08	1.08	1.06	1.06	1.06	1.04	1.04	1.06	1.06	1.05	1.05		
Case5_F2_3 Phase	East Devon		40	0	920	PT345-LM34	1.52	1.24	NW345			1.50	1.23	1.44	1.21	1.52	1.24	1.32	1.16	1.50	1.24	1.21	1.17	1.29	1.18	1.17	1.12	1.42	1.21	1.31	1.18	
Case5_F3_1 Phase	East Devon		40	0	920	PT345-LM34	1.18	1.13	ED345			1.16	1.12	1.13	1.09	1.17	1.12	1.10	1.08	1.18	1.13	1.07	1.05	1.07	1.06	1.07	1.04	1.12	1.08	1.09	1.06	
Case5_F4_3 Phase	Norwalk Junction		40	0	920	PT345-LM34	1.21	1.16	BK345			1.19	1.12	1.19	1.12	1.19	1.13	1.13	1.11	1.19	1.13	1.21	1.11	1.11	1.08	1.12	1.06	1.17	1.10	1.17	1.16	
Case5_F5_3 Phase	Singer		40	0	920	PT345-LM34	1.26	1.16	ED345			1.21	1.11	1.19	1.16	1.25	1.08	1.12	1.07	1.26	1.09	1.13	1.08	1.09	1.07	1.12	1.07	1.21	1.15	1.21	1.15	
Case5_F6_3 Phase Bt	Norwalk 345		40	0	920	PT345-LM34	1.19	1.16	ED345			1.19	1.15	1.18	1.16	1.18	1.13	1.13	1.09	1.19	1.11	1.15	1.09	1.12	1.11	1.13	1.08	1.18	1.16	1.16	1.12	
Case5_F7_3 Phase Bt	Plumtree 345		40	0	920	PT345-LM34	1.19	1.15	PT115			1.17	1.13	1.19	1.15	1.13	1.11	1.11	1.09	1.14	1.12	1.12	1.10	1.11	1.07	1.10	1.08	1.18	1.15	1.15	1.14	
Case5_basNo Fault			40	0	920	BK345-ED34	1.09	1.09	ED345			1.07	1.07	1.06	1.06	1.08	1.08	1.06	1.06	1.09	1.09	1.05	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.04	
Case5_F1_3 Phase	Plumtree		40	0	920	BK345-ED34	1.48	1.26	ED345			1.43	1.24	1.36	1.26	1.46	1.25	1.31	1.16	1.48	1.26	1.12	1.07	1.21	1.12	1.14	1.11	1.37	1.26	1.32	1.22	
Case5_F4_3 Phase	Norwalk Junction		40	0	920	BK345-ED34	1.84	1.52	ED345			1.18	1.17	1.21	1.19	1.81	1.51	1.48	1.29	1.84	1.52	1.16	1.10	1.32	1.19	1.18	1.12	1.23	1.21	1.27	1.22	
Case5_F5_3 Phase	Singer		40	0	920	BK345-ED34	1.28	1.16	NW345			1.15	1.10	1.14	1.10	1.28	1.15	1.14	1.11	1.26	1.16	1.09	1.08	1.12	1.11	1.09	1.07	1.14	1.11	1.17	1.09	
Case5_F6_3 Phase Bt	Norwalk 345		40	0	920	BK345-ED34	1.31	1.21	NW345			1.21	1.15	1.20	1.14	1.31	1.21	1.19	1.15	1.28	1.21	1.12	1.10	1.16	1.12	1.12	1.10	1.19	1.14	1.20	1.14	
Case5_F7_3 Phase Bt	Plumtree 345		40	0	920	BK345-ED34	1.23	1.18	ED345			1.17	1.15	1.21	1.14	1.21	1.16	1.16	1.14	1.23	1.18	1.15	1.11	1.13	1.10	1.12	1.08	1.21	1.14	1.18	1.13	
Case5_basNo Fault			40	0	920	NE138-NO13	1.08	1.08	ED345			1.06	1.06	1.06	1.06	1.07	1.07	1.06	1.06	1.08	1.08	1.06	1.06	1.06	1.06	1.06	1.04	1.04	1.05	1.05	1.04	1.04
Case5_F1_3 Phase	Plumtree		40	0	920	NE138-NO13	1.26	1.20	PT115			1.22	1.15	1.26	1.20	1.20	1.16	1.19	1.14	1.19	1.16	1.14	1.12	1.14	1.11	1.13	1.10	1.25	1.20	1.20	1.15	
Case5_F2_3 Phase	East Devon		40	0	920	NE138-NO13	1.29	1.18	NW345			1.23	1.16	1.25	1.15	1.29	1.18	1.24	1.17	1.28	1.18	1.17	1.15	1.24	1.16	1.15	1.13	1.25	1.16	1.21	1.14	
Case5_F3_1 Phase	East Devon		40	0	920	NE138-NO13	1.10	1.09	ED345			1.08	1.07	1.07	1.06	1.09	1.09	1.08	1.07	1.10	1.09	1.06	1.05	1.06	1.05	1.04	1.04	1.06	1.06	1.05	1.05	
Case5_F4_3 Phase	Norwalk Junction		40	0	920	NE138-NO13	1.32	1.21	NW345			1.19	1.14	1.16	1.09	1.32	1.21	1.23	1.17	1.29	1.21	1.26	1.19	1.17	1.13	1.15	1.09	1.16	1.11	1.18	1.10	
Case5_F5_3 Phase	Singer		40	0	920	NE138-NO13	1.23	1.18	NW345			1.18	1.09	1.18	1.15	1.23	1.08	1.16	1.10	1.20	1.09	1.12	1.09	1.10	1.06	1.10	1.08	1.19	1.15	1.20	1.18	
Case5_F6_3 Phase Bt	Norwalk 345		40	0	920	NE138-NO13	1.22	1.15	ROCKY			1.14	1.10	1.19	1.14	1.21	1.12	1.14	1.11	1.20	1.12	1.17	1.11	1.09	1.08	1.12	1.09	1.19	1.15	1.22	1.14	
Case5_F7_3 Phase Bt	Plumtree 345		40	0	920	NE138-NO13	1.20	1.16	PT115			1.18	1.12	1.20	1.16	1.13	1.12	1.13	1.10	1.14	1.12	1.14	1.10	1.09	1.08	1.10	1.09	1.19	1.15	1.17	1.12	
Case5_basNo Fault			40	0	920	LM345-PLVA	1.09	1.09	ED345			1.08	1.08	1.07	1.07	1.08	1.08	1.06	1.06	1.09	1.09	1.07	1.07	1.06	1.06	1.05	1.05	1.06	1.06	1.06	1.06	
Case5_F1_3 Phase	Plumtree		40	0	920	LM345-PLVA	1.20	1.18	PT115			1.18	1.14	1.20	1.17	1.15	1.14	1.13	1.11	1.17	1.15	1.13	1.11	1.12	1.10	1.13	1.13	1.19	1.18	1.16	1.15	
Case5_F2_3 Phase	East Devon		40	0	920	LM345-PLVA	1.45	1.30	ED345			1.40	1.27	1.33	1.29	1.45	1.28	1.31	1.20	1.45	1.29	1.24	1.19	1.31	1.23	1.27	1.23	1.33	1.30	1.31	1.28	
Case5_F3_1 Phase	East Devon		40	0	920	LM345-PLVA	1.17	1.11	ED345			1.15	1.09	1.13	1.08	1.16	1.11	1.11	1.07	1.17	1.11	1.11	1.11	1.06	1.09	1.06	1.09	1.05	1.12	1.08	1.11	1.06
Case5_F4_3 Phase	Norwalk Junction		40	0	920	LM345-PLVA	1.24	1.15	NW345			1.18	1.14	1.14	1.10	1.24	1.15	1.12	1.11	1.24	1.14	1.18	1.13	1.13	1.10	1.11	1.08	1.14	1.11	1.14	1.14	
Case5_F5_3 Phase	Singer		40	0	920	LM345-PLVA	1.25	1.15	NW345			1.18	1.10	1.22	1.14	1.25	1.08	1.10	1.08	1.24	1.09	1.14	1.09	1.09	1.06	1.14	1.09	1.20	1.15	1.20	1.14	
Case5_F6_3 Phase Bt	Norwalk 345		40	0	920	LM345-PLVA	1.21	1.13	STONY			1.16	1.13	1.21	1.13	1.18	1.12	1.11	1.10	1.21	1.13	1.16	1.11	1.12	1.10	1.13	1.10	1.21	1.13	1.19	1.12	
Case5_F7_3 Phase Bt	Plumtree 345		40	0	920	LM345-PLVA	1.21	1.16	ROCKY			1.18	1.15	1.18	1.16	1.13	1.13	1.12	1.10	1.14	1.12	1.12	1.10	1.11	1.09	1.14	1.13	1.19	1.16	1.21	1.15	

CASE #: 5A - Case 5 (Old) + 20 Miles of Cable (GE 2C and 6C windows)

DATE: 12/15/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																									
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY							
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C		
Case5_bas	No Fault		50	302	1110				1.06	1.06	ED345	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.06	1.06	1.06	1.06	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04		
Case5_F1_3	Phase Plumtree		50	302	1110				1.24	1.24	STONY	1.13	1.10	1.18	1.09	1.11	1.07	1.08	1.06	1.10	1.08	1.17	1.09	1.10	1.08	1.10	1.09	1.24	1.24	1.16	1.12				
Case5_F2_3	Phase East Devon		50	302	1110				1.25	1.16	BK345	1.16	1.10	1.12	1.10	1.18	1.10	1.13	1.08	1.20	1.12	1.25	1.16	1.20	1.16	1.13	1.13	1.13	1.12	1.12	1.09				
Case5_F3_1	Phase East Devon		50	302	1110				1.09	1.06	ED345	1.07	1.05	1.06	1.04	1.09	1.06	1.06	1.04	1.09	1.06	1.07	1.06	1.06	1.05	1.05	1.04	1.06	1.04	1.05	1.04				
Case5_F4_3	Phase Norwalk Junction		50	302	1110				1.20	1.14	PT345	1.20	1.13	1.15	1.11	1.17	1.10	1.11	1.08	1.16	1.10	1.14	1.09	1.13	1.08	1.13	1.09	1.16	1.14	1.14	1.09				
Case5_F5_3	Phase Singer		50	302	1110				1.25	1.13	NW345	1.17	1.10	1.13	1.10	1.25	1.08	1.17	1.08	1.22	1.09	1.17	1.10	1.19	1.07	1.17	1.09	1.21	1.13	1.12	1.12				
Case5_F6_3	Phase Bt Norwalk 345		50	302	1110				1.20	1.11	BK345	1.14	1.11	1.14	1.11	1.17	1.08	1.12	1.09	1.17	1.08	1.20	1.11	1.13	1.07	1.15	1.09	1.18	1.11	1.12	1.11				
Case5_F7_3	Phase Bt Plumtree 345		50	302	1110				1.29	1.28	STONY	1.14	1.12	1.16	1.10	1.10	1.08	1.08	1.07	1.10	1.08	1.13	1.09	1.10	1.07	1.10	1.10	1.29	1.28	1.20	1.18				
Case5_bas	No Fault		50	302	1110	PT345-LM34	1.06	1.06	ED345	1.05	1.05	1.04	1.04	1.06	1.06	1.04	1.04	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04			
Case5_F2_3	Phase East Devon		50	302	1110	PT345-LM34	1.33	1.16	NW345	1.28	1.13	1.25	1.10	1.33	1.13	1.20	1.07	1.32	1.13	1.30	1.15	1.22	1.15	1.17	1.16	1.21	1.14	1.17	1.17	1.07					
Case5_F3_1	Phase East Devon		50	302	1110	PT345-LM34	1.12	1.07	ED345	1.11	1.06	1.07	1.05	1.11	1.07	1.05	1.04	1.12	1.07	1.06	1.05	1.05	1.05	1.05	1.04	1.04	1.07	1.04	1.06	1.04					
Case5_F4_3	Phase Norwalk Junction		50	302	1110	PT345-LM34	1.21	1.12	BK345	1.17	1.10	1.17	1.09	1.15	1.09	1.10	1.08	1.14	1.09	1.21	1.12	1.09	1.07	1.07	1.04	1.19	1.12	1.12	1.12	1.10					
Case5_F5_3	Phase Singer		50	302	1110	PT345-LM34	1.17	1.13	NW345	1.14	1.08	1.10	1.07	1.17	1.07	1.09	1.07	1.16	1.06	1.13	1.08	1.06	1.06	1.07	1.07	1.16	1.13	1.10	1.07						
Case5_F6_3	Phase Bt Norwalk 345		50	302	1110	PT345-LM34	1.21	1.12	BK345	1.11	1.08	1.11	1.09	1.14	1.08	1.08	1.07	1.11	1.08	1.21	1.10	1.10	1.10	1.10	1.07	1.19	1.12	1.14	1.09						
Case5_F7_3	Phase Bt Plumtree 345		50	302	1110	PT345-LM34	1.22	1.20	STONY	1.12	1.10	1.14	1.09	1.10	1.08	1.08	1.06	1.09	1.08	1.10	1.08	1.09	1.08	1.08	1.07	1.22	1.20	1.14	1.11						
Case5_bas	No Fault		50	302	1110	BK345-ED34	1.06	1.06	ED345	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04			
Case5_F1_3	Phase Plumtree		50	302	1110	BK345-ED34	1.35	1.20	STONY	1.30	1.14	1.27	1.15	1.32	1.15	1.19	1.10	1.30	1.16	1.16	1.10	1.10	1.06	1.10	1.11	1.35	1.20	1.21	1.16						
Case5_F4_3	Phase Norwalk Junction		50	302	1110	BK345-ED34	1.59	1.34	NW345	1.15	1.12	1.16	1.12	1.59	1.32	1.34	1.20	1.58	1.34	1.11	1.11	1.18	1.11	1.11	1.10	1.17	1.15	1.15	1.13						
Case5_F5_3	Phase Singer		50	302	1110	BK345-ED34	1.19	1.11	PT345	1.19	1.08	1.12	1.07	1.18	1.10	1.12	1.08	1.19	1.11	1.14	1.10	1.08	1.06	1.08	1.05	1.11	1.07	1.11	1.08						
Case5_F6_3	Phase Bt Norwalk 345		50	302	1110	BK345-ED34	1.21	1.12	NW345	1.15	1.10	1.12	1.09	1.21	1.12	1.13	1.10	1.17	1.12	1.10	1.07	1.09	1.08	1.07	1.06	1.18	1.11	1.14	1.08						
Case5_F7_3	Phase Bt Plumtree 345		50	302	1110	BK345-ED34	1.26	1.27	STONY	1.13	1.13	1.17	1.12	1.14	1.13	1.10	1.09	1.16	1.14	1.13	1.07	1.10	1.09	1.09	1.08	1.26	1.27	1.17	1.17						
Case5_bas	No Fault		50	302	1110	NE138-NO13	1.05	1.05	ED345	1.04	1.04	1.04	1.04	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.03	1.03			
Case5_F1_3	Phase Plumtree		50	302	1110	NE138-NO13	1.21	1.16	STONY	1.12	1.11	1.11	1.13	1.13	1.10	1.12	1.10	1.13	1.10	1.12	1.08	1.10	1.09	1.09	1.08	1.21	1.16	1.14	1.11						
Case5_F2_3	Phase East Devon		50	302	1110	NE138-NO13	1.20	1.15	STONY	1.17	1.11	1.16	1.08	1.19	1.10	1.15	1.09	1.18	1.10	1.20	1.15	1.18	1.14	1.13	1.12	1.20	1.09	1.16	1.09						
Case5_F3_1	Phase East Devon		50	302	1110	NE138-NO13	1.06	1.05	ED345	1.05	1.04	1.04	1.03	1.05	1.05	1.05	1.04	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.03	1.03	1.04	1.03	1.03	1.03				
Case5_F4_3	Phase Norwalk Junction		50	302	1110	NE138-NO13	1.21	1.13	NW345	1.18	1.09	1.14	1.09	1.21	1.13	1.17	1.11	1.19	1.13	1.17	1.10	1.13	1.10	1.11	1.09	1.13	1.09	1.14	1.08						
Case5_F5_3	Phase Singer		50	302	1110	NE138-NO13	1.16	1.10	BK345	1.11	1.08	1.11	1.10	1.13	1.07	1.11	1.06	1.11	1.06	1.16	1.08	1.09	1.07	1.12	1.06	1.15	1.09	1.11	1.09						
Case5_F6_3	Phase Bt Norwalk 345		50	302	1110	NE138-NO13	1.17	1.12	STONY	1.11	1.07	1.12	1.12	1.10	1.07	1.10	1.09	1.11	1.07	1.15	1.08	1.11	1.10	1.09	1.06	1.17	1.11	1.14	1.09						
Case5_F7_3	Phase Bt Plumtree 345		50	302	1110	NE138-NO13	1.25	1.24	STONY	1.12	1.09	1.13	1.12	1.10	1.08	1.08	1.07	1.09	1.07	1.10	1.09	1.08	1.06	1.08	1.08	1.25	1.24	1.17	1.14						
Case5_bas	No Fault		50	302	1110	LM345-PLVA	1.06	1.06	ED345	1.06	1.06	1.05	1.05	1.06	1.06	1.04	1.04	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.04	1.04					
Case5_F1_3	Phase Plumtree		50	302	1110	LM345-PLVA	1.21	1.19	STONY	1.13	1.11	1.14	1.14	1.11	1.10	1.09	1.07	1.12	1.10	1.11	1.09	1.10	1.09	1.12	1.12	1.21	1.19	1.14	1.10						
Case5_F2_3	Phase East Devon		50	302	1110	LM345-PLVA	1.31	1.17	STONY	1.26	1.16	1.27	1.13	1.28	1.16	1.20	1.10	1.29	1.16	1.20	1.11	1.18	1.14	1.18	1.12	1.31	1.17	1.25	1.15						
Case5_F3_1	Phase East Devon		50	302	1110	LM345-PLVA	1.11	1.07	ED345	1.09	1.06	1.07	1.05	1.10	1.07	1.07	1.04	1.11	1.07	1.08	1.05	1.06	1.05	1.05	1.04	1.08	1.05	1.06	1.04						
Case5_F4_3	Phase Norwalk Junction		50	302	1110	LM345-PLVA	1.19	1.14	PT345	1.19	1.11	1.16	1.11	1.16	1.12	1.12	1.08	1.14	1.11	1.13	1.08	1.13	1.09	1.14	1.10	1.16	1.14	1.16	1.11						
Case5_F5_3	Phase Singer		50	302	1110	LM345-PLVA	1.17	1.11	NW345	1.09	1.07	1.09	1.08	1.17	1.06	1.09	1.07	1.15	1.07	1.17	1.08	1.10	1.09	1.09	1.08	1.12	1.11	1.11	1.09						
Case5_F6_3	Phase Bt Norwalk 345		50	302	1110	LM345-PLVA	1.14	1.11	ROCKY	1.12	1.09	1.10	1.09	1.13	1.09	1.10	1.08	1.12	1.08	1.14	1.08	1.13	1.11	1.13	1.08	1.13	1.11	1.14	1.0						

CASE #: 5A - Case 5 (Old) + 20 Miles of Cable (GE 2C and 6C windows)

DATE: 12/15/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C
Case5_bas	No Fault		70	1249	1320				1.09	1.09	FB115	1.05	1.05	1.06	1.06	1.05	1.05	1.04	1.04	1.06	1.06	1.07	1.07	1.09	1.09	1.09	1.09	1.09	1.06	1.06	1.08	1.08
Case5_F1.3	Phase Plumtree		70	1249	1320				1.51	1.30	ROCKY	1.16	1.14	1.18	1.12	1.11	1.09	1.10	1.06	1.10	1.08	1.18	1.09	1.13	1.11	1.17	1.16	1.22	1.17	1.51	1.30	
Case5_F2.3	Phase East Devon		70	1249	1320				1.25	1.19	ROCKY	1.21	1.09	1.12	1.09	1.17	1.09	1.12	1.08	1.16	1.11	1.22	1.18	1.18	1.15	1.20	1.19	1.13	1.11	1.25	1.15	
Case5_F3.1	Phase East Devon		70	1249	1320				1.09	1.09	FB115	1.05	1.04	1.07	1.06	1.05	1.05	1.04	1.04	1.05	1.05	1.09	1.07	1.08	1.08	1.09	1.09	1.07	1.06	1.08	1.08	
Case5_F4.3	Phase Norwalk Junction		70	1249	1320				1.46	1.38	ROCKY	1.23	1.15	1.21	1.16	1.20	1.11	1.08	1.07	1.17	1.11	1.17	1.11	1.20	1.14	1.22	1.19	1.25	1.23	1.46	1.38	
Case5_F5.3	Phase Singer		70	1249	1320				1.23	1.20	ROCKY	1.16	1.07	1.19	1.09	1.17	1.06	1.12	1.09	1.17	1.05	1.17	1.11	1.15	1.10	1.10	1.10	1.15	1.10	1.23	1.20	
Case5_F6.3	Phase Bt Norwalk 345		70	1249	1320				1.30	1.19	ROCKY	1.10	1.08	1.14	1.12	1.16	1.06	1.11	1.07	1.12	1.05	1.16	1.10	1.16	1.10	1.11	1.10	1.13	1.12	1.30	1.19	
Case5_F7.3	Phase Bt Plumtree 345		70	1249	1320				1.53	1.52	ROCKY	1.17	1.15	1.16	1.16	1.10	1.05	1.06	1.05	1.07	1.06	1.13	1.12	1.13	1.10	1.16	1.16	1.23	1.21	1.53	1.52	
Case5_bas	No Fault		70	1249	1320	PT345-LM34	1.10	1.10	ED345			1.08	1.08	1.08	1.08	1.09	1.09	1.05	1.05	1.10	1.10	1.05	1.05	1.07	1.07	1.07	1.07	1.08	1.08	1.08	1.08	
Case5_F2.3	Phase East Devon		70	1249	1320	PT345-LM34	1.32	1.22	ROCKY			1.24	1.06	1.10	1.04	1.21	1.08	1.11	1.04	1.19	1.07	1.24	1.18	1.14	1.15	1.22	1.22	1.12	1.05	1.32	1.13	
Case5_F3.1	Phase East Devon		70	1249	1320	PT345-LM34	1.10	1.08	BK345			1.04	1.03	1.04	1.04	1.04	1.04	1.02	1.02	1.04	1.04	1.10	1.07	1.07	1.07	1.08	1.08	1.04	1.04	1.06	1.06	
Case5_F4.3	Phase Norwalk Junction		70	1249	1320	PT345-LM34	1.60	1.40	ROCKY			1.21	1.17	1.13	1.16	1.12	1.08	1.09	1.08	1.11	1.08	1.16	1.09	1.14	1.10	1.13	1.13	1.14	1.15	1.60	1.40	
Case5_F5.3	Phase Singer		70	1249	1320	PT345-LM34	1.26	1.20	ROCKY			1.18	1.07	1.17	1.11	1.14	1.07	1.08	1.08	1.07	1.05	1.14	1.08	1.11	1.09	1.11	1.10	1.17	1.10	1.26	1.20	
Case5_F6.3	Phase Bt Norwalk 345		70	1249	1320	PT345-LM34	1.24	1.21	ROCKY			1.17	1.11	1.16	1.13	1.13	1.08	1.11	1.09	1.11	1.07	1.16	1.10	1.13	1.11	1.13	1.12	1.17	1.15	1.24	1.21	
Case5_F7.3	Phase Bt Plumtree 345		70	1249	1320	PT345-LM34	1.42	1.30	ROCKY			1.16	1.14	1.17	1.16	1.08	1.07	1.08	1.06	1.11	1.07	1.11	1.11	1.11	1.13	1.12	1.14	1.14	1.20	1.18	1.42	1.30
Case5_bas	No Fault		70	1249	1320	BK345-ED34	1.11	1.11	ED345			1.06	1.06	1.07	1.07	1.09	1.05	1.05	1.11	1.11	1.02	1.02	1.06	1.06	1.07	1.07	1.07	1.07	1.07	1.08	1.08	
Case5_F1.3	Phase Plumtree		70	1249	1320	BK345-ED34	1.36	1.22	ROCKY			1.20	1.11	1.14	1.11	1.16	1.09	1.11	1.06	1.17	1.09	1.16	1.10	1.10	1.08	1.23	1.22	1.21	1.09	1.36	1.22	
Case5_F4.3	Phase Norwalk Junction		70	1249	1320	BK345-ED34	1.38	1.32	ROCKY			1.17	1.13	1.16	1.16	1.33	1.18	1.20	1.11	1.33	1.18	1.16	1.10	1.21	1.13	1.21	1.21	1.29	1.29	1.38	1.32	
Case5_F5.3	Phase Singer		70	1249	1320	BK345-ED34	1.25	1.15	ROCKY			1.14	1.09	1.12	1.07	1.17	1.09	1.11	1.08	1.15	1.08	1.11	1.09	1.14	1.11	1.12	1.10	1.11	1.09	1.25	1.15	
Case5_F6.3	Phase Bt Norwalk 345		70	1249	1320	BK345-ED34	1.23	1.19	ROCKY			1.19	1.08	1.12	1.08	1.18	1.09	1.14	1.10	1.15	1.10	1.15	1.09	1.14	1.12	1.13	1.12	1.13	1.09	1.23	1.19	
Case5_F7.3	Phase Bt Plumtree 345		70	1249	1320	BK345-ED34	1.50	1.44	ROCKY			1.16	1.10	1.17	1.15	1.11	1.09	1.10	1.08	1.14	1.11	1.16	1.09	1.14	1.12	1.16	1.15	1.20	1.18	1.50	1.44	
Case5_bas	No Fault		70	1249	1320	NE138-NO13	1.07	1.07	ED345			1.04	1.04	1.05	1.05	1.06	1.06	1.06	1.06	1.07	1.07	1.04	1.04	1.06	1.06	1.07	1.07	1.05	1.05	1.06	1.06	
Case5_F1.3	Phase Plumtree		70	1249	1320	NE138-NO13	1.40	1.20	ROCKY			1.15	1.11	1.13	1.11	1.10	1.07	1.09	1.07	1.10	1.06	1.10	1.07	1.09	1.08	1.12	1.12	1.20	1.11	1.40	1.20	
Case5_F2.3	Phase East Devon		70	1249	1320	NE138-NO13	1.20	1.18	ROCKY			1.13	1.05	1.10	1.05	1.14	1.06	1.11	1.06	1.14	1.07	1.17	1.14	1.15	1.13	1.17	1.18	1.09	1.07	1.20	1.12	
Case5_F3.1	Phase East Devon		70	1249	1320	NE138-NO13	1.08	1.07	BK345			1.03	1.02	1.04	1.04	1.03	1.03	1.04	1.03	1.04	1.03	1.08	1.06	1.07	1.07	1.07	1.07	1.04	1.04	1.06	1.06	
Case5_F4.3	Phase Norwalk Junction		70	1249	1320	NE138-NO13	1.35	1.31	ROCKY			1.20	1.13	1.17	1.14	1.20	1.13	1.14	1.10	1.18	1.12	1.14	1.11	1.16	1.11	1.17	1.17	1.18	1.15	1.35	1.31	
Case5_F5.3	Phase Singer		70	1249	1320	NE138-NO13	1.26	1.20	ROCKY			1.09	1.08	1.11	1.10	1.10	1.07	1.09	1.08	1.08	1.06	1.13	1.10	1.13	1.09	1.12	1.12	1.10	1.09	1.20	1.20	
Case5_F6.3	Phase Bt Norwalk 345		70	1249	1320	NE138-NO13	1.18	1.19	ROCKY			1.11	1.07	1.12	1.08	1.09	1.07	1.11	1.09	1.09	1.07	1.13	1.08	1.14	1.09	1.12	1.11	1.11	1.08	1.18	1.19	
Case5_F7.3	Phase Bt Plumtree 345		70	1249	1320	NE138-NO13	1.51	1.44	ROCKY			1.22	1.10	1.14	1.14	1.08	1.06	1.09	1.08	1.09	1.06	1.14	1.10	1.11	1.09	1.15	1.13	1.22	1.20	1.51	1.44	
Case5_bas	No Fault		70	1249	1320	LM345-PLVA	1.11	1.11	ED345			1.10	1.10	1.10	1.10	1.10	1.06	1.06	1.11	1.11	1.11	1.07	1.07	1.09	1.09	1.11	1.11	1.10	1.10	1.11	1.11	
Case5_F1.3	Phase Plumtree		70	1249	1320	LM345-PLVA	1.42	1.25	ROCKY			1.23	1.17	1.18	1.13	1.14	1.11	1.11	1.08	1.14	1.10	1.17	1.11	1.14	1.11	1.21	1.18	1.25	1.19	1.42	1.25	
Case5_F2.3	Phase East Devon		70	1249	1320	LM345-PLVA	1.36	1.23	ROCKY			1.18	1.12	1.14	1.07	1.21	1.12	1.14	1.08	1.21	1.12	1.21	1.16	1.14	1.13	1.19	1.21	1.16	1.11	1.36	1.23	
Case5_F3.1	Phase East Devon		70	1249	1320	LM345-PLVA	1.09	1.09	FB115			1.06	1.05	1.07	1.06	1.06	1.05	1.04	1.03	1.07	1.06	1.09	1.06	1.08	1.07	1.09	1.09	1.07	1.06	1.08	1.08	
Case5_F4.3	Phase Norwalk Junction		70	1249	1320	LM345-PLVA	1.4	1.33	ROCKY			1.21	1.17	1.21	1.22	1.19	1.14	1.10	1.08	1.18	1.14	1.17	1.13	1.19	1.12	1.18	1.20	1.20	1.17	1.40	1.33	
Case5_F5.3	Phase Singer		70	1249	1320	LM345-PLVA	1.23	1.23	ROCKY			1.12	1.09	1.18	1.10	1.14	1.09	1.11	1.09	1.10	1.08	1.12	1.11	1.14	1.11	1.17	1.15	1.19	1.09	1.23	1.23	
Case5_F6.3	Phase Bt Norwalk 345		70	1249	1320	LM345-PLVA	1.21	1.21	ROCKY			1.17	1.11	1.17	1.11	1.13	1.10	1.12	1.10	1.11	1.09	1.18	1.11	1.17	1.12	1.17	1.15	1.17	1.12	1.21	1.21	
Case5_F7.3	Phase Bt Plumtree 345		70	1249	1320	LM345-PLVA	1.44	1.31	ROCKY			1.17	1.13	1.15	1.13	1.11	1.09	1.10	1.08	1.11	1.09	1.17	1.13	1.16	1.11	1.21	1.16	1.26	1.20	1.44	1.31	

CASE #: 5A - Case 5 (Old) + 20 Miles of Cable (GE 2C and 6C windows)
 Fault Closing at 0V on each phase, 3.5 Cycle Clearing
 DONE BY: Jack King/EnerNex

DATE: 12/14/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_basNo Fault			30	0	920				1.09	1.09	ED345	1.07	1.07	1.07	1.07	1.08	1.08	1.07	1.07	1.09	1.09	1.07	1.07	1.07	1.07	1.06	1.06	1.07	1.07	1.06	1.06
Case5_F1.3 Phase		Plumtree	30	0	920				1.20	1.20	PT115	1.20	1.16	1.19	1.20	1.13	1.12	1.12	1.10	1.13	1.12	1.12	1.10	1.12	1.11	1.13	1.12	1.18	1.19	1.16	1.17
Case5_F2.3 Phase		East Devon	30	0	920				1.26	1.11	ED345	1.18	1.09	1.17	1.08	1.25	1.10	1.19	1.08	1.26	1.11	1.19	1.06	1.16	1.07	1.13	1.06	1.18	1.08	1.18	1.07
Case5_F3.1 Phase		East Devon	30	0	920				1.29	1.12	ED345	1.21	1.09	1.22	1.09	1.27	1.11	1.20	1.08	1.29	1.12	1.16	1.06	1.18	1.08	1.16	1.06	1.21	1.08	1.19	1.07
Case5_F4.3 Phase		Norwalk Junction	30	0	920				1.13	1.14	NW115	1.10	1.06	1.07	1.07	1.11	1.10	1.13	1.14	1.09	1.10	1.09	1.08	1.08	1.07	1.07	1.06	1.09	1.07	1.13	1.07
Case5_F5.3 Phase		Singer	30	0	920				1.24	1.09	ED345	1.14	1.06	1.11	1.07	1.22	1.07	1.16	1.08	1.24	1.08	1.11	1.07	1.07	1.09	1.06	1.12	1.08	1.19	1.09	
Case5_F6.3 Phase Bt		Norwalk 345	30	0	920				1.14	1.13	ROCKY	1.10	1.07	1.11	1.11	1.13	1.07	1.11	1.13	1.13	1.08	1.07	1.07	1.06	1.07	1.08	1.08	1.11	1.11	1.14	1.09
Case5_F7.3 Phase Bt		Plumtree 345	30	0	920				1.20	1.16	ROCKY	1.15	1.12	1.17	1.16	1.10	1.10	1.10	1.09	1.10	1.09	1.13	1.10	1.10	1.09	1.11	1.11	1.20	1.15	1.20	1.13
Case5_basNo Fault			30	0	920	PT345-LM34	1.10	1.10	ED345	1.10	1.10	1.09	1.09	1.10	1.10	1.08	1.08	1.10	1.10	1.10	1.08	1.08	1.08	1.08	1.08	1.06	1.06	1.08	1.08	1.07	1.07
Case5_F2.3 Phase		East Devon	30	0	920	PT345-LM34	1.57	1.18	NW345	1.53	1.17	1.45	1.14	1.57	1.18	1.36	1.11	1.54	1.18	1.13	1.07	1.23	1.09	1.19	1.07	1.45	1.14	1.37	1.12		
Case5_F3.1 Phase		East Devon	30	0	920	PT345-LM34	1.38	1.17	ED345	1.36	1.16	1.29	1.15	1.38	1.16	1.25	1.11	1.38	1.17	1.13	1.07	1.20	1.09	1.14	1.07	1.29	1.13	1.23	1.11		
Case5_F4.3 Phase		Norwalk Junction	30	0	920	PT345-LM34	1.12	1.13	NW115	1.12	1.12	1.12	1.12	1.11	1.10	1.12	1.13	1.09	1.09	1.08	1.08	1.07	1.07	1.07	1.05	1.11	1.11	1.11	1.11	1.10	
Case5_F5.3 Phase		Singer	30	0	920	PT345-LM34	1.21	1.10	ROCKY	1.18	1.08	1.15	1.08	1.18	1.08	1.15	1.08	1.19	1.08	1.11	1.07	1.06	1.07	1.10	1.07	1.17	1.09	1.21	1.10		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	920	PT345-LM34	1.20	1.14	STONY	1.18	1.11	1.20	1.14	1.18	1.10	1.13	1.13	1.17	1.11	1.13	1.09	1.12	1.09	1.13	1.08	1.20	1.14	1.19	1.13		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	920	PT345-LM34	1.25	1.21	PT115	1.20	1.18	1.25	1.21	1.14	1.11	1.13	1.11	1.16	1.12	1.13	1.10	1.13	1.11	1.12	1.11	1.12	1.19	1.23	1.18		
Case5_basNo Fault			30	0	920	BK345-ED34	1.10	1.10	ED345	1.08	1.08	1.08	1.08	1.10	1.10	1.07	1.07	1.10	1.10	1.06	1.06	1.07	1.07	1.05	1.05	1.07	1.07	1.06	1.06		
Case5_F1.3 Phase		Plumtree	30	0	920	BK345-ED34	1.51	1.49	PT345	1.51	1.41	1.50	1.49	1.42	1.31	1.27	1.21	1.40	1.30	1.10	1.10	1.17	1.15	1.18	1.16	1.48	1.46	1.40	1.35		
Case5_F4.3 Phase		Norwalk Junction	30	0	920	BK345-ED34	2.00	1.39	ED345	1.22	1.08	1.27	1.09	1.99	1.39	1.56	1.23	2.00	1.39	1.19	1.06	1.33	1.11	1.24	1.09	1.28	1.10	1.32	1.10		
Case5_F5.3 Phase		Singer	30	0	920	BK345-ED34	1.27	1.10	ED345	1.15	1.08	1.14	1.08	1.24	1.09	1.17	1.07	1.27	1.10	1.08	1.06	1.07	1.07	1.08	1.06	1.14	1.08	1.15	1.09		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	920	BK345-ED34	1.26	1.13	ED345	1.17	1.11	1.17	1.13	1.24	1.12	1.15	1.13	1.26	1.13	1.10	1.07	1.13	1.08	1.11	1.08	1.18	1.13	1.17	1.12		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	920	BK345-ED34	1.28	1.18	STONY	1.16	1.14	1.27	1.18	1.22	1.14	1.15	1.12	1.21	1.14	1.13	1.09	1.13	1.11	1.14	1.11	1.28	1.17	1.23	1.15		
Case5_basNo Fault			30	0	920	NE138-NO13	1.10	1.10	ED345	1.08	1.08	1.08	1.08	1.09	1.09	1.09	1.09	1.10	1.10	1.08	1.08	1.08	1.08	1.06	1.06	1.07	1.07	1.07	1.07		
Case5_F1.3 Phase		Plumtree	30	0	920	NE138-NO13	1.30	1.32	PT115	1.21	1.20	1.30	1.32	1.21	1.17	1.18	1.17	1.20	1.18	1.15	1.13	1.15	1.15	1.16	1.16	1.30	1.30	1.27	1.27		
Case5_F2.3 Phase		East Devon	30	0	920	NE138-NO13	1.19	1.12	ED345	1.16	1.10	1.17	1.09	1.18	1.11	1.16	1.10	1.19	1.12	1.11	1.06	1.15	1.08	1.13	1.06	1.15	1.09	1.16	1.08		
Case5_F3.1 Phase		East Devon	30	0	920	NE138-NO13	1.25	1.12	ED345	1.22	1.10	1.21	1.09	1.24	1.11	1.22	1.11	1.25	1.12	1.13	1.06	1.21	1.08	1.14	1.07	1.20	1.09	1.18	1.08		
Case5_F4.3 Phase		Norwalk Junction	30	0	920	NE138-NO13	1.17	1.13	NW115	1.11	1.07	1.12	1.08	1.16	1.12	1.17	1.13	1.16	1.12	1.14	1.09	1.11	1.09	1.12	1.06	1.11	1.07	1.13	1.08		
Case5_F5.3 Phase		Singer	30	0	920	NE138-NO13	1.17	1.10	ROCKY	1.10	1.07	1.13	1.07	1.13	1.08	1.11	1.08	1.15	1.09	1.08	1.07	1.06	1.07	1.10	1.07	1.13	1.07	1.17	1.10		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	920	NE138-NO13	1.16	1.14	NW115	1.10	1.09	1.11	1.09	1.11	1.09	1.16	1.14	1.10	1.10	1.11	1.09	1.09	1.08	1.10	1.07	1.13	1.09	1.14	1.08		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	920	NE138-NO13	1.20	1.17	STONY	1.13	1.11	1.19	1.16	1.12	1.12	1.10	1.09	1.11	1.11	1.11	1.09	1.10	1.09	1.12	1.12	1.20	1.17	1.19	1.15		
Case5_basNo Fault			30	0	920	LM345-PLVA	1.11	1.11	ED345	1.10	1.10	1.09	1.09	1.11	1.11	1.08	1.08	1.11	1.11	1.09	1.09	1.08	1.08	1.07	1.07	1.09	1.09	1.08	1.08		
Case5_F1.3 Phase		Plumtree	30	0	920	LM345-PLVA	1.29	1.25	PT115	1.21	1.20	1.29	1.25	1.16	1.15	1.15	1.12	1.17	1.14	1.17	1.16	1.13	1.11	1.21	1.21	1.27	1.22	1.25	1.21		
Case5_F2.3 Phase		East Devon	30	0	920	LM345-PLVA	1.41	1.17	ED345	1.36	1.15	1.35	1.13	1.39	1.16	1.28	1.11	1.41	1.17	1.18	1.08	1.27	1.10	1.24	1.09	1.35	1.13	1.31	1.11		
Case5_F3.1 Phase		East Devon	30	0	920	LM345-PLVA	1.40	1.21	NW345	1.39	1.18	1.32	1.18	1.40	1.20	1.29	1.14	1.40	1.21	1.19	1.11	1.28	1.14	1.24	1.12	1.31	1.17	1.29	1.15		
Case5_F4.3 Phase		Norwalk Junction	30	0	920	LM345-PLVA	1.19	1.13	ROCKY	1.16	1.09	1.13	1.10	1.16	1.12	1.13	1.13	1.15	1.11	1.13	1.09	1.11	1.08	1.14	1.07	1.14	1.09	1.19	1.08		
Case5_F5.3 Phase		Singer	30	0	920	LM345-PLVA	1.24	1.12	ED345	1.21	1.10	1.20	1.10	1.24	1.09	1.14	1.08	1.24	1.09	1.12	1.09	1.10	1.08	1.12	1.09	1.21	1.12	1.20	1.12		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	920	LM345-PLVA	1.23	1.18	ROCKY	1.21	1.14	1.23	1.18	1.18	1.13	1.15	1.13	1.20	1.13	1.17	1.12	1.14	1.11	1.17	1.11	1.23	1.17	1.23	1.16		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	920	LM345-PLVA	1.27	1.26	STONY	1.19	1.17	1.25	1.25	1.16	1.13	1.15	1.14	1.19	1.16	1.16	1.13	1.14	1.11	1.13	1.11	1.27	1.26	1.21	1.19		

CASE #: 5A - Case 5 (Old) + 20 Miles of Cable (GE 2C and 6C windows)

DATE: 12/14/2004

Fault Closing at 0V on each phase, 3.5 Cycle Clearing

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C
Case5_basNo Fault			40	0	920				1.07	1.07	ED345	1.06	1.06	1.05	1.05	1.07	1.07	1.05	1.05	1.07	1.07	1.06	1.06	1.06	1.06	1.04	1.04	1.05	1.05	1.04	1.04	
Case5_F1_3 Phase	Plumtree		40	0	920				1.17	1.16	PT115	1.16	1.13	1.17	1.16	1.11	1.09	1.10	1.07	1.10	1.10	1.10	1.09	1.09	1.09	1.11	1.09	1.16	1.16	1.16	1.14	
Case5_F2_3 Phase	East Devon		40	0	920				1.18	1.09	NW345	1.12	1.07	1.10	1.06	1.18	1.09	1.12	1.06	1.18	1.09	1.13	1.05	1.11	1.06	1.08	1.04	1.11	1.05	1.14	1.05	
Case5_F3_1 Phase	East Devon		40	0	920				1.24	1.10	ED345	1.17	1.07	1.16	1.06	1.23	1.09	1.16	1.06	1.24	1.10	1.12	1.05	1.15	1.06	1.11	1.04	1.16	1.06	1.15	1.05	
Case5_F4_3 Phase	Norwalk Junction		40	0	920				1.11	1.11	NW115	1.09	1.05	1.06	1.05	1.10	1.09	1.11	1.11	1.07	1.08	1.07	1.06	1.06	1.06	1.06	1.04	1.07	1.05	1.09	1.05	
Case5_F5_3 Phase	Singer		40	0	920				1.21	1.08	ED345	1.12	1.05	1.10	1.05	1.20	1.06	1.14	1.05	1.21	1.07	1.10	1.06	1.05	1.05	1.06	1.04	1.10	1.05	1.15	1.08	
Case5_F6_3 Phase Bt	Norwalk 345		40	0	920				1.11	1.12	NW115	1.05	1.05	1.08	1.09	1.10	1.06	1.10	1.12	1.11	1.06	1.06	1.06	1.05	1.05	1.06	1.06	1.09	1.09	1.10	1.08	
Case5_F7_3 Phase Bt	Plumtree 345		40	0	920				1.16	1.14	ROCKY	1.13	1.10	1.14	1.14	1.09	1.09	1.08	1.08	1.09	1.08	1.11	1.08	1.09	1.07	1.08	1.10	1.15	1.14	1.16	1.14	
Case5_basNo Fault			40	0	920	PT345-LM34	1.08	1.08	ED345	1.08	1.08	1.07	1.07	1.08	1.08	1.06	1.06	1.08	1.08	1.08	1.08	1.08	1.06	1.06	1.06	1.06	1.04	1.04	1.06	1.06	1.05	1.05
Case5_F2_3 Phase	East Devon		40	0	920	PT345-LM34	1.48	1.14	NW345	1.42	1.12	1.32	1.09	1.48	1.14	1.27	1.08	1.44	1.14	1.09	1.06	1.17	1.06	1.12	1.04	1.30	1.09	1.28	1.07			
Case5_F3_1 Phase	East Devon		40	0	920	PT345-LM34	1.29	1.14	ED345	1.27	1.12	1.21	1.10	1.29	1.13	1.18	1.08	1.29	1.14	1.09	1.05	1.12	1.06	1.09	1.04	1.20	1.09	1.17	1.07			
Case5_F4_3 Phase	Norwalk Junction		40	0	920	PT345-LM34	1.11	1.10	NW115	1.05	1.07	1.05	1.07	1.08	1.08	1.11	1.10	1.07	1.08	1.07	1.06	1.06	1.05	1.05	1.03	1.05	1.06	1.08	1.06			
Case5_F5_3 Phase	Singer		40	0	920	PT345-LM34	1.15	1.07	ED345	1.13	1.06	1.10	1.06	1.15	1.06	1.09	1.06	1.15	1.07	1.07	1.06	1.04	1.05	1.06	1.05	1.11	1.06	1.15	1.07			
Case5_F6_3 Phase Bt	Norwalk 345		40	0	920	PT345-LM34	1.14	1.12	STONY	1.13	1.09	1.14	1.12	1.12	1.08	1.10	1.10	1.12	1.08	1.10	1.07	1.08	1.07	1.08	1.07	1.09	1.06	1.14	1.12	1.13	1.11	
Case5_F7_3 Phase Bt	Plumtree 345		40	0	920	PT345-LM34	1.20	1.17	PT115	1.16	1.14	1.20	1.17	1.09	1.08	1.10	1.08	1.11	1.09	1.10	1.09	1.10	1.08	1.10	1.07	1.19	1.17	1.17	1.12			
Case5_basNo Fault			40	0	920	BK345-ED34	1.09	1.09	ED345	1.07	1.07	1.06	1.06	1.08	1.08	1.06	1.06	1.09	1.09	1.05	1.05	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04			
Case5_F1_3 Phase	Plumtree		40	0	920	BK345-ED34	1.40	1.37	PT115	1.40	1.31	1.40	1.37	1.33	1.24	1.21	1.17	1.32	1.25	1.08	1.08	1.12	1.11	1.14	1.12	1.38	1.34	1.32	1.28			
Case5_F4_3 Phase	Norwalk Junction		40	0	920	BK345-ED34	1.83	1.29	ED345	1.17	1.06	1.21	1.06	1.81	1.29	1.47	1.17	1.83	1.29	1.16	1.05	1.25	1.08	1.18	1.06	1.22	1.07	1.23	1.07			
Case5_F5_3 Phase	Singer		40	0	920	BK345-ED34	1.20	1.08	ED345	1.08	1.07	1.09	1.06	1.16	1.07	1.10	1.05	1.20	1.08	1.07	1.05	1.06	1.06	1.06	1.06	1.05	1.09	1.06	1.10	1.06		
Case5_F6_3 Phase Bt	Norwalk 345		40	0	920	BK345-ED34	1.20	1.11	ED345	1.13	1.09	1.15	1.09	1.18	1.10	1.10	1.11	1.20	1.11	1.08	1.06	1.09	1.06	1.09	1.05	1.15	1.10	1.15	1.09			
Case5_F7_3 Phase Bt	Plumtree 345		40	0	920	BK345-ED34	1.22	1.14	PT115	1.15	1.11	1.22	1.14	1.17	1.11	1.12	1.08	1.16	1.12	1.11	1.07	1.09	1.09	1.11	1.07	1.21	1.13	1.18	1.13			
Case5_basNo Fault			40	0	920	NE138-NO13	1.08	1.08	ED345	1.06	1.06	1.06	1.06	1.07	1.07	1.06	1.06	1.08	1.08	1.06	1.06	1.06	1.06	1.06	1.04	1.04	1.05	1.05	1.04	1.04		
Case5_F1_3 Phase	Plumtree		40	0	920	NE138-NO13	1.23	1.23	PT115	1.15	1.13	1.23	1.23	1.15	1.12	1.12	1.12	1.15	1.13	1.11	1.10	1.10	1.10	1.10	1.10	1.11	1.22	1.21	1.20	1.19		
Case5_F2_3 Phase	East Devon		40	0	920	NE138-NO13	1.14	1.10	ED345	1.12	1.07	1.11	1.06	1.13	1.09	1.11	1.07	1.14	1.10	1.09	1.05	1.10	1.05	1.08	1.04	1.11	1.06	1.09	1.05			
Case5_F3_1 Phase	East Devon		40	0	920	NE138-NO13	1.17	1.09	ED345	1.15	1.07	1.14	1.06	1.16	1.09	1.15	1.07	1.17	1.09	1.09	1.05	1.13	1.06	1.08	1.04	1.13	1.06	1.11	1.05			
Case5_F4_3 Phase	Norwalk Junction		40	0	920	NE138-NO13	1.14	1.09	NW115	1.10	1.05	1.09	1.05	1.12	1.09	1.14	1.09	1.13	1.09	1.12	1.08	1.08	1.06	1.09	1.04	1.09	1.05	1.10	1.04			
Case5_F5_3 Phase	Singer		40	0	920	NE138-NO13	1.13	1.07	ROCKY	1.07	1.05	1.08	1.05	1.10	1.06	1.08	1.06	1.13	1.07	1.07	1.06	1.03	1.05	1.08	1.04	1.10	1.05	1.13	1.06			
Case5_F6_3 Phase Bt	Norwalk 345		40	0	920	NE138-NO13	1.13	1.11	NW115	1.09	1.06	1.09	1.06	1.07	1.07	1.13	1.11	1.07	1.08	1.09	1.07	1.06	1.06	1.08	1.05	1.10	1.06	1.11	1.06			
Case5_F7_3 Phase Bt	Plumtree 345		40	0	920	NE138-NO13	1.18	1.16	PT115	1.12	1.09	1.18	1.16	1.10	1.09	1.07	1.06	1.09	1.09	1.10	1.08	1.07	1.06	1.10	1.09	1.18	1.14	1.16	1.13			
Case5_basNo Fault			40	0	920	LM345-PLVA	1.09	1.09	ED345	1.08	1.08	1.07	1.07	1.08	1.08	1.06	1.06	1.09	1.09	1.07	1.07	1.06	1.06	1.05	1.05	1.06	1.06	1.06	1.06			
Case5_F1_3 Phase	Plumtree		40	0	920	LM345-PLVA	1.21	1.15	PT115	1.16	1.15	1.21	1.15	1.11	1.10	1.10	1.08	1.13	1.10	1.13	1.12	1.09	1.07	1.15	1.14	1.21	1.14	1.21	1.15			
Case5_F2_3 Phase	East Devon		40	0	920	LM345-PLVA	1.29	1.13	ED345	1.25	1.11	1.23	1.09	1.28	1.12	1.18	1.08	1.29	1.13	1.12	1.06	1.18	1.07	1.16	1.06	1.23	1.09	1.22	1.07			
Case5_F3_1 Phase	East Devon		40	0	920	LM345-PLVA	1.31	1.13	ED345	1.28	1.11	1.23	1.09	1.30	1.12	1.21	1.07	1.31	1.13	1.14	1.06	1.18	1.07	1.16	1.06	1.22	1.08	1.21	1.07			
Case5_F4_3 Phase	Norwalk Junction		40	0	920	LM345-PLVA	1.12	1.09	ROCKY	1.11	1.06	1.09	1.07	1.11	1.09	1.10	1.09	1.09	1.09	1.10	1.07	1.08	1.06	1.09	1.04	1.10	1.06	1.12	1.05			
Case5_F5_3 Phase	Singer		40	0	920	LM345-PLVA	1.19	1.09	ED345	1.13	1.07	1.10	1.07	1.18	1.07	1.08	1.05	1.19	1.07	1.09	1.07	1.05	1.06	1.10	1.06	1.11	1.08	1.13	1.09			
Case5_F6_3 Phase Bt	Norwalk 345		40	0	920	LM345-PLVA	1.19	1.13	ROCKY	1.15	1.10	1.16	1.13	1.12	1.09	1.11	1.09	1.13	1.10	1.13	1.09	1.09	1.09	1.12	1.08	1.18	1.13	1.19	1.12			
Case5_F7_3 Phase Bt	Plumtree 345		40	0	920	LM345-PLVA	1.20	1.16	STONY	1.14	1.12	1.20	1.16	1.12	1.10	1.12	1.09	1.13	1.12	1.12	1.10	1.10	1.08	1.11	1.08	1.20	1.16	1.16	1.15			

CASE #: 5A - Case 5 (Old) + 20 Miles of Cable (GE 2C and 6C windows)
 Fault Closing at 0V on each phase, 3.5 Cycle Clearing
 DONE BY: Jack King/EnerNex

DATE: 12/14/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																											
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY									
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C				
Case5_bas	No Fault		50	302	1110				1.06	1.06	ED345	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.06	1.06	1.06	1.06	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04		
Case5_F1_3	Phase Plumtree		50	302	1110				1.18	1.18	STONY	1.11	1.11	1.14	1.16	1.08	1.07	1.06	1.05	1.08	1.08	1.12	1.09	1.07	1.08	1.08	1.06	1.18	1.18	1.13	1.13	1.13	1.13	1.13	1.13	1.13	
Case5_F2_3	Phase East Devon		50	302	1110				1.12	1.06	ED345	1.08	1.05	1.06	1.04	1.12	1.06	1.07	1.04	1.12	1.06	1.10	1.06	1.08	1.05	1.06	1.04	1.07	1.04	1.06	1.04	1.06	1.04	1.06	1.04	1.06	
Case5_F3_1	Phase East Devon		50	302	1110				1.16	1.06	ED345	1.11	1.05	1.10	1.04	1.15	1.06	1.11	1.04	1.16	1.06	1.09	1.06	1.09	1.05	1.07	1.04	1.09	1.04	1.09	1.04	1.09	1.04	1.09	1.04	1.09	
Case5_F4_3	Phase Norwalk Junction		50	302	1110				1.11	1.09	NW115	1.08	1.05	1.06	1.04	1.06	1.06	1.11	1.09	1.05	1.07	1.07	1.07	1.05	1.06	1.05	1.05	1.06	1.05	1.06	1.05	1.09	1.06	1.05	1.09	1.06	
Case5_F5_3	Phase Singer		50	302	1110				1.15	1.06	ED345	1.09	1.04	1.07	1.04	1.14	1.05	1.14	1.06	1.15	1.06	1.06	1.06	1.03	1.05	1.05	1.05	1.07	1.04	1.06	1.05	1.07	1.04	1.06	1.05	1.06	
Case5_F6_3	Phase Bt Norwalk 345		50	302	1110				1.11	1.10	NW115	1.04	1.04	1.05	1.05	1.05	1.05	1.11	1.10	1.06	1.05	1.07	1.06	1.04	1.05	1.04	1.04	1.04	1.04	1.05	1.07	1.04	1.06	1.05	1.07		
Case5_F7_3	Phase Bt Plumtree 345		50	302	1110				1.31	1.18	STONY	1.11	1.09	1.15	1.10	1.07	1.05	1.05	1.05	1.07	1.06	1.07	1.08	1.09	1.06	1.09	1.09	1.31	1.18	1.21	1.11	1.11	1.11	1.11	1.11		
Case5_bas	No Fault		50	302	1110	PT345-LM34	1.06	1.06	ED345	1.05	1.05	1.04	1.04	1.06	1.06	1.04	1.04	1.06	1.06	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	
Case5_F2_3	Phase East Devon		50	302	1110	PT345-LM34	1.29	1.08	NW345	1.25	1.06	1.21	1.05	1.29	1.07	1.15	1.04	1.27	1.08	1.15	1.07	1.11	1.05	1.09	1.04	1.21	1.05	1.13	1.05	1.13	1.04	1.04	1.04	1.04	1.04	1.04	
Case5_F3_1	Phase East Devon		50	302	1110	PT345-LM34	1.15	1.07	ED345	1.14	1.06	1.11	1.05	1.15	1.07	1.10	1.04	1.15	1.07	1.13	1.05	1.08	1.05	1.06	1.04	1.09	1.05	1.08	1.04	1.09	1.05	1.08	1.04	1.09	1.05	1.08	
Case5_F4_3	Phase Norwalk Junction		50	302	1110	PT345-LM34	1.10	1.08	NW115	1.04	1.04	1.04	1.04	1.06	1.06	1.10	1.08	1.05	1.06	1.08	1.06	1.06	1.06	1.06	1.06	1.03	1.05	1.04	1.06	1.04	1.06	1.04	1.06	1.04	1.06	1.04	
Case5_F5_3	Phase Singer		50	302	1110	PT345-LM34	1.12	1.06	NW345	1.09	1.05	1.05	1.05	1.12	1.05	1.10	1.05	1.10	1.05	1.10	1.05	1.07	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Case5_F6_3	Phase Bt Norwalk 345		50	302	1110	PT345-LM34	1.13	1.13	NW115	1.08	1.05	1.09	1.05	1.06	1.05	1.13	1.13	1.06	1.06	1.09	1.07	1.07	1.06	1.08	1.05	1.09	1.06	1.10	1.08	1.06	1.10	1.08	1.06	1.10	1.08	1.06	
Case5_F7_3	Phase Bt Plumtree 345		50	302	1110	PT345-LM34	1.22	1.16	STONY	1.12	1.09	1.12	1.11	1.08	1.07	1.06	1.05	1.07	1.07	1.08	1.08	1.08	1.08	1.08	1.07	1.07	1.22	1.16	1.13	1.12	1.12	1.12	1.12	1.12	1.12	1.12	
Case5_bas	No Fault		50	302	1110	BK345-ED34	1.06	1.06	ED345	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	
Case5_F1_3	Phase Plumtree		50	302	1110	BK345-ED34	1.31	1.17	STONY	1.20	1.15	1.22	1.15	1.21	1.15	1.13	1.08	1.22	1.15	1.12	1.07	1.08	1.06	1.10	1.06	1.31	1.17	1.19	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	
Case5_F4_3	Phase Norwalk Junction		50	302	1110	BK345-ED34	1.57	1.17	NW345	1.12	1.05	1.14	1.06	1.57	1.17	1.33	1.12	1.57	1.17	1.11	1.07	1.21	1.08	1.13	1.06	1.17	1.07	1.16	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	
Case5_F5_3	Phase Singer		50	302	1110	BK345-ED34	1.12	1.06	ED345	1.08	1.05	1.07	1.05	1.10	1.05	1.08	1.05	1.12	1.06	1.10	1.05	1.07	1.05	1.07	1.04	1.06	1.04	1.06	1.04	1.07	1.04	1.06	1.04	1.07	1.04	1.06	
Case5_F6_3	Phase Bt Norwalk 345		50	302	1110	BK345-ED34	1.13	1.09	NW115	1.09	1.06	1.08	1.06	1.10	1.07	1.13	1.09	1.11	1.07	1.08	1.06	1.09	1.06	1.07	1.05	1.10	1.06	1.10	1.06	1.10	1.06	1.10	1.06	1.10	1.06	1.10	
Case5_F7_3	Phase Bt Plumtree 345		50	302	1110	BK345-ED34	1.29	1.16	STONY	1.13	1.10	1.16	1.12	1.11	1.08	1.07	1.06	1.11	1.08	1.09	1.07	1.08	1.07	1.08	1.06	1.29	1.16	1.19	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
Case5_bas	No Fault		50	302	1110	NE138-NO13	1.05	1.05	ED345	1.04	1.04	1.04	1.04	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.03	1.03	1.03	1.03		
Case5_F1_3	Phase Plumtree		50	302	1110	NE138-NO13	1.19	1.16	STONY	1.12	1.11	1.15	1.15	1.10	1.08	1.08	1.07	1.09	1.08	1.12	1.08	1.08	1.08	1.07	1.04	1.19	1.16	1.15	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	
Case5_F2_3	Phase East Devon		50	302	1110	NE138-NO13	1.12	1.06	BK345	1.08	1.04	1.07	1.04	1.09	1.06	1.06	1.04	1.09	1.06	1.12	1.06	1.08	1.05	1.07	1.03	1.07	1.03	1.07	1.03	1.07	1.03	1.07	1.03	1.07	1.03	1.07	
Case5_F3_1	Phase East Devon		50	302	1110	NE138-NO13	1.10	1.05	ED345	1.07	1.04	1.06	1.04	1.09	1.05	1.07	1.04	1.10	1.05	1.07	1.05	1.06	1.04	1.05	1.03	1.06	1.03	1.06	1.03	1.06	1.03	1.06	1.03	1.06	1.03	1.06	
Case5_F4_3	Phase Norwalk Junction		50	302	1110	NE138-NO13	1.10	1.07	NW115	1.08	1.04	1.06	1.04	1.08	1.07	1.10	1.07	1.08	1.07	1.10	1.06	1.08	1.06	1.06	1.05	1.08	1.04	1.08	1.04	1.08	1.04	1.08	1.04	1.08	1.04	1.08	
Case5_F5_3	Phase Singer		50	302	1110	NE138-NO13	1.07	1.06	NW115	1.05	1.04	1.05	1.04	1.05	1.05	1.07	1.05	1.06	1.05	1.06	1.05	1.06	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	
Case5_F6_3	Phase Bt Norwalk 345		50	302	1110	NE138-NO13	1.09	1.08	NW115	1.06	1.05	1.07	1.04	1.05	1.05	1.09	1.08	1.05	1.05	1.09	1.07	1.07	1.05	1.06	1.05	1.07	1.04	1.07	1.04	1.07	1.04	1.07	1.04	1.07	1.04	1.07	
Case5_F7_3	Phase Bt Plumtree 345		50	302	1110	NE138-NO13	1.26	1.12	STONY	1.10	1.08	1.14	1.08	1.08	1.05	1.05	1.05	1.07	1.06	1.10	1.07	1.09	1.06	1.08	1.06	1.26	1.12	1.17	1.09	1.09	1.09	1.09	1.09	1.09	1.09		
Case5_bas	No Fault		50	302	1110	LM345-PLVA	1.06	1.06	ED345	1.06	1.06	1.05	1.05	1.06	1.06	1.04	1.04	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	
Case5_F1_3	Phase Plumtree		50	302	1110	LM345-PLVA	1.19	1.16	STONY	1.11	1.09	1.14	1.14	1.08	1.08	1.06	1.05	1.09	1.07	1.09	1.08	1.09	1.08	1.07	1.07	1.19	1.16	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12		
Case5_F2_3	Phase East Devon		50	302	1110	LM345-PLVA	1.18	1.07	NW345	1.15	1.07	1.13	1.05	1.18	1.07	1.11	1.04	1.17	1.07	1.12	1.06	1.10	1.05	1.10	1.04	1.14	1.05	1.13	1.04	1.04</							

CASE #: 5A - Case 5 (Old) + 20 Miles of Cable (GE 2C and 6C windows)
 Fault Closing at 0V on each phase, 4 Cycle Clearing
 DONE BY: Jack King/EnerNex

DATE: 12/14/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_basNo Fault			30	0	920				1.09	1.09	ED345	1.07	1.07	1.07	1.07	1.08	1.08	1.07	1.07	1.09	1.09	1.07	1.07	1.07	1.07	1.06	1.06	1.07	1.07	1.06	1.06
Case5_F1.3 Phase		Plumtree	30	0	920				1.18	1.20	PT115	1.18	1.16	1.18	1.20	1.13	1.12	1.12	1.10	1.13	1.12	1.11	1.10	1.12	1.11	1.13	1.12	1.18	1.19	1.16	1.17
Case5_F2.3 Phase		East Devon	30	0	920				1.20	1.11	ED345	1.16	1.09	1.13	1.08	1.19	1.10	1.13	1.08	1.20	1.11	1.10	1.06	1.14	1.07	1.10	1.06	1.13	1.08	1.14	1.07
Case5_F3.1 Phase		East Devon	30	0	920				1.16	1.11	ED345	1.11	1.09	1.12	1.08	1.15	1.10	1.12	1.08	1.16	1.11	1.08	1.06	1.12	1.07	1.08	1.06	1.12	1.07	1.12	1.07
Case5_F4.3 Phase		Norwalk Junction	30	0	920				1.14	1.12	NW115	1.08	1.06	1.07	1.07	1.11	1.10	1.14	1.12	1.09	1.10	1.08	1.08	1.08	1.07	1.07	1.06	1.09	1.07	1.13	1.07
Case5_F5.3 Phase		Singer	30	0	920				1.24	1.09	ED345	1.14	1.06	1.11	1.07	1.22	1.07	1.16	1.07	1.24	1.08	1.10	1.07	1.07	1.07	1.09	1.06	1.11	1.07	1.18	1.09
Case5_F6.3 Phase Bt		Norwalk 345	30	0	920				1.13	1.13	NW115	1.06	1.07	1.11	1.11	1.09	1.07	1.13	1.13	1.10	1.08	1.07	1.07	1.06	1.07	1.08	1.08	1.11	1.11	1.11	1.09
Case5_F7.3 Phase Bt		Plumtree 345	30	0	920				1.20	1.15	ROCKY	1.15	1.11	1.17	1.15	1.10	1.10	1.10	1.09	1.10	1.09	1.13	1.10	1.10	1.09	1.11	1.11	1.16	1.15	1.20	1.13
Case5_basNo Fault			30	0	920	PT345-LM34	1.10	1.10	ED345	1.10	1.10	1.09	1.09	1.10	1.10	1.08	1.08	1.10	1.10	1.10	1.08	1.08	1.08	1.08	1.06	1.06	1.08	1.08	1.07	1.07	
Case5_F2.3 Phase		East Devon	30	0	920	PT345-LM34	1.53	1.17	ED345	1.53	1.16	1.45	1.13	1.52	1.16	1.32	1.11	1.53	1.17	1.13	1.06	1.23	1.08	1.19	1.06	1.45	1.12	1.37	1.10		
Case5_F3.1 Phase		East Devon	30	0	920	PT345-LM34	1.38	1.16	ED345	1.34	1.15	1.27	1.13	1.36	1.15	1.25	1.11	1.38	1.16	1.12	1.07	1.20	1.08	1.13	1.07	1.26	1.12	1.21	1.10		
Case5_F4.3 Phase		Norwalk Junction	30	0	920	PT345-LM34	1.13	1.12	NW115	1.10	1.12	1.10	1.12	1.11	1.10	1.13	1.12	1.09	1.09	1.08	1.08	1.07	1.07	1.07	1.05	1.10	1.11	1.11	1.11		
Case5_F5.3 Phase		Singer	30	0	920	PT345-LM34	1.21	1.10	ROCKY	1.18	1.08	1.15	1.08	1.18	1.08	1.13	1.07	1.19	1.08	1.11	1.07	1.06	1.07	1.10	1.07	1.17	1.09	1.21	1.10		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	920	PT345-LM34	1.20	1.14	STONY	1.18	1.11	1.20	1.14	1.18	1.10	1.13	1.13	1.17	1.11	1.13	1.09	1.12	1.09	1.13	1.08	1.20	1.14	1.19	1.13		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	920	PT345-LM34	1.25	1.20	PT115	1.20	1.18	1.25	1.20	1.12	1.11	1.12	1.11	1.12	1.12	1.11	1.10	1.12	1.11	1.12	1.11	1.12	1.11	1.23	1.19	1.23	1.17
Case5_basNo Fault			30	0	920	BK345-ED34	1.10	1.10	ED345	1.08	1.08	1.08	1.08	1.10	1.10	1.07	1.07	1.10	1.10	1.06	1.06	1.07	1.07	1.05	1.05	1.07	1.07	1.06	1.06		
Case5_F1.3 Phase		Plumtree	30	0	920	BK345-ED34	1.51	1.49	PT345	1.51	1.37	1.50	1.49	1.42	1.31	1.27	1.21	1.40	1.30	1.10	1.10	1.17	1.15	1.18	1.16	1.48	1.46	1.40	1.35		
Case5_F4.3 Phase		Norwalk Junction	30	0	920	BK345-ED34	2.00	1.39	ED345	1.22	1.07	1.26	1.09	1.99	1.39	1.56	1.22	2.00	1.39	1.19	1.06	1.33	1.11	1.24	1.08	1.28	1.10	1.29	1.09		
Case5_F5.3 Phase		Singer	30	0	920	BK345-ED34	1.27	1.10	ED345	1.15	1.08	1.14	1.08	1.24	1.09	1.16	1.07	1.27	1.10	1.08	1.06	1.07	1.07	1.08	1.06	1.14	1.08	1.15	1.09		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	920	BK345-ED34	1.26	1.13	ED345	1.17	1.11	1.17	1.13	1.24	1.12	1.15	1.13	1.26	1.13	1.10	1.07	1.13	1.08	1.11	1.08	1.18	1.13	1.17	1.12		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	920	BK345-ED34	1.28	1.18	STONY	1.16	1.14	1.27	1.18	1.22	1.14	1.15	1.12	1.21	1.14	1.13	1.09	1.13	1.11	1.14	1.11	1.28	1.17	1.23	1.15		
Case5_basNo Fault			30	0	920	NE138-NO13	1.10	1.10	ED345	1.08	1.08	1.08	1.08	1.09	1.09	1.09	1.09	1.10	1.10	1.08	1.08	1.08	1.08	1.06	1.06	1.07	1.07	1.07	1.07		
Case5_F1.3 Phase		Plumtree	30	0	920	NE138-NO13	1.30	1.32	PT115	1.21	1.20	1.30	1.32	1.21	1.17	1.18	1.17	1.20	1.18	1.15	1.13	1.15	1.15	1.16	1.16	1.30	1.30	1.27	1.27		
Case5_F2.3 Phase		East Devon	30	0	920	NE138-NO13	1.19	1.12	ED345	1.16	1.10	1.17	1.09	1.18	1.11	1.16	1.10	1.19	1.12	1.11	1.06	1.15	1.08	1.13	1.06	1.15	1.09	1.16	1.08		
Case5_F3.1 Phase		East Devon	30	0	920	NE138-NO13	1.20	1.12	ED345	1.15	1.10	1.15	1.09	1.19	1.11	1.18	1.11	1.20	1.12	1.10	1.06	1.14	1.08	1.11	1.07	1.15	1.09	1.13	1.08		
Case5_F4.3 Phase		Norwalk Junction	30	0	920	NE138-NO13	1.17	1.13	NW115	1.11	1.07	1.12	1.08	1.16	1.12	1.17	1.13	1.16	1.12	1.14	1.09	1.11	1.09	1.12	1.06	1.11	1.07	1.13	1.08		
Case5_F5.3 Phase		Singer	30	0	920	NE138-NO13	1.16	1.10	ROCKY	1.07	1.07	1.09	1.07	1.13	1.08	1.11	1.08	1.15	1.09	1.08	1.07	1.06	1.07	1.09	1.07	1.11	1.07	1.16	1.10		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	920	NE138-NO13	1.16	1.14	NW115	1.10	1.09	1.11	1.09	1.11	1.09	1.16	1.14	1.10	1.10	1.11	1.09	1.09	1.08	1.10	1.07	1.13	1.09	1.14	1.08		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	920	NE138-NO13	1.20	1.15	STONY	1.13	1.11	1.19	1.15	1.12	1.12	1.10	1.09	1.11	1.11	1.11	1.09	1.10	1.09	1.12	1.12	1.20	1.15	1.19	1.15		
Case5_basNo Fault			30	0	920	LM345-PLVA	1.11	1.11	ED345	1.10	1.10	1.09	1.09	1.11	1.11	1.08	1.08	1.11	1.11	1.09	1.09	1.08	1.08	1.07	1.07	1.09	1.09	1.08	1.08		
Case5_F1.3 Phase		Plumtree	30	0	920	LM345-PLVA	1.29	1.25	PT115	1.21	1.20	1.29	1.25	1.16	1.15	1.14	1.12	1.16	1.14	1.17	1.16	1.12	1.11	1.21	1.21	1.27	1.22	1.25	1.21		
Case5_F2.3 Phase		East Devon	30	0	920	LM345-PLVA	1.41	1.17	ED345	1.36	1.15	1.35	1.13	1.39	1.16	1.28	1.11	1.41	1.17	1.18	1.08	1.24	1.10	1.24	1.09	1.35	1.13	1.31	1.11		
Case5_F3.1 Phase		East Devon	30	0	920	LM345-PLVA	1.39	1.17	ED345	1.35	1.15	1.30	1.15	1.38	1.16	1.26	1.12	1.39	1.17	1.19	1.09	1.28	1.11	1.21	1.10	1.30	1.14	1.27	1.12		
Case5_F4.3 Phase		Norwalk Junction	30	0	920	LM345-PLVA	1.19	1.13	ROCKY	1.16	1.09	1.13	1.10	1.16	1.12	1.13	1.13	1.15	1.11	1.13	1.09	1.11	1.08	1.14	1.07	1.14	1.09	1.19	1.08		
Case5_F5.3 Phase		Singer	30	0	920	LM345-PLVA	1.24	1.12	ED345	1.21	1.10	1.20	1.10	1.24	1.09	1.14	1.08	1.24	1.09	1.12	1.09	1.10	1.08	1.12	1.09	1.21	1.12	1.20	1.12		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	920	LM345-PLVA	1.23	1.18	ROCKY	1.20	1.14	1.23	1.18	1.18	1.13	1.15	1.13	1.18	1.13	1.17	1.12	1.13	1.11	1.17	1.11	1.23	1.16	1.23	1.16		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	920	LM345-PLVA	1.27	1.24	STONY	1.19	1.17	1.25	1.23	1.15	1.13	1.14	1.14	1.16	1.16	1.15	1.13	1.14	1.11	1.13	1.11	1.27	1.24	1.21	1.19		

CASE #: 5A - Case 5 (Old) + 20 Miles of Cable (GE 2C and 6C windows)

DATE: 12/14/2004

Fault Closing at 0V on each phase, 4 Cycle Clearing

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C
Case5_basNo Fault			40	0	920				1.07	1.07	ED345	1.06	1.06	1.05	1.05	1.07	1.07	1.05	1.05	1.07	1.07	1.06	1.06	1.06	1.06	1.04	1.04	1.05	1.05	1.04	1.04	
Case5_F1.3 Phase	Plumtree		40	0	920				1.17	1.16	PT115	1.15	1.13	1.17	1.16	1.11	1.09	1.10	1.07	1.10	1.10	1.10	1.09	1.08	1.09	1.11	1.09	1.16	1.16	1.16	1.14	
Case5_F2.3 Phase	East Devon		40	0	920				1.14	1.09	ED345	1.12	1.07	1.10	1.06	1.14	1.08	1.09	1.06	1.14	1.09	1.08	1.05	1.10	1.06	1.07	1.04	1.10	1.05	1.10	1.05	
Case5_F3.1 Phase	East Devon		40	0	920				1.12	1.09	ED345	1.09	1.07	1.09	1.06	1.11	1.09	1.09	1.06	1.12	1.09	1.07	1.05	1.08	1.06	1.06	1.04	1.09	1.06	1.09	1.05	
Case5_F4.3 Phase	Norwalk Junction		40	0	920				1.11	1.11	NW115	1.08	1.05	1.06	1.05	1.10	1.09	1.11	1.11	1.07	1.08	1.07	1.06	1.06	1.06	1.04	1.07	1.05	1.09	1.05		
Case5_F5.3 Phase	Singer		40	0	920				1.21	1.08	ED345	1.12	1.05	1.10	1.05	1.20	1.06	1.14	1.05	1.21	1.07	1.09	1.06	1.05	1.05	1.06	1.04	1.10	1.05	1.15	1.08	
Case5_F6.3 Phase Bt	Norwalk 345		40	0	920				1.12	1.12	NW115	1.05	1.05	1.09	1.08	1.10	1.06	1.12	1.12	1.11	1.06	1.06	1.06	1.05	1.05	1.06	1.06	1.09	1.09	1.10	1.07	
Case5_F7.3 Phase Bt	Plumtree 345		40	0	920				1.16	1.14	ROCKY	1.12	1.09	1.14	1.14	1.09	1.09	1.08	1.08	1.09	1.08	1.11	1.08	1.09	1.07	1.08	1.10	1.15	1.14	1.16	1.14	
Case5_basNo Fault			40	0	920	PT345-LM34	1.08	1.08	ED345	1.08	1.08	1.07	1.07	1.08	1.08	1.06	1.06	1.08	1.08	1.08	1.08	1.06	1.06	1.06	1.06	1.04	1.04	1.06	1.06	1.05	1.05	
Case5_F2.3 Phase	East Devon		40	0	920	PT345-LM34	1.42	1.14	PT345	1.42	1.12	1.32	1.09	1.41	1.13	1.25	1.08	1.42	1.14	1.09	1.05	1.17	1.06	1.12	1.04	1.30	1.08	1.28	1.07			
Case5_F3.1 Phase	East Devon		40	0	920	PT345-LM34	1.27	1.13	ED345	1.25	1.12	1.20	1.09	1.27	1.13	1.16	1.08	1.27	1.13	1.09	1.05	1.12	1.06	1.09	1.04	1.18	1.09	1.15	1.07			
Case5_F4.3 Phase	Norwalk Junction		40	0	920	PT345-LM34	1.11	1.09	NW115	1.06	1.07	1.06	1.07	1.08	1.08	1.11	1.09	1.07	1.08	1.07	1.06	1.06	1.06	1.05	1.05	1.03	1.06	1.06	1.08	1.06		
Case5_F5.3 Phase	Singer		40	0	920	PT345-LM34	1.15	1.07	ED345	1.13	1.06	1.09	1.06	1.15	1.06	1.09	1.05	1.15	1.07	1.07	1.06	1.04	1.05	1.06	1.05	1.11	1.06	1.15	1.07			
Case5_F6.3 Phase Bt	Norwalk 345		40	0	920	PT345-LM34	1.14	1.11	STONY	1.13	1.09	1.14	1.11	1.12	1.08	1.10	1.10	1.12	1.08	1.10	1.07	1.08	1.07	1.08	1.07	1.09	1.06	1.14	1.11	1.13	1.10	
Case5_F7.3 Phase Bt	Plumtree 345		40	0	920	PT345-LM34	1.18	1.17	PT115	1.14	1.14	1.18	1.17	1.09	1.08	1.10	1.08	1.10	1.09	1.10	1.09	1.10	1.09	1.08	1.08	1.09	1.07	1.18	1.17	1.14	1.12	
Case5_basNo Fault			40	0	920	BK345-ED34	1.09	1.09	ED345	1.07	1.07	1.06	1.06	1.16	1.07	1.10	1.05	1.20	1.08	1.09	1.05	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.04		
Case5_F1.3 Phase	Plumtree		40	0	920	BK345-ED34	1.40	1.36	PT115	1.40	1.30	1.40	1.36	1.33	1.23	1.21	1.17	1.32	1.25	1.08	1.08	1.12	1.11	1.14	1.12	1.38	1.33	1.32	1.28			
Case5_F4.3 Phase	Norwalk Junction		40	0	920	BK345-ED34	1.83	1.29	ED345	1.17	1.06	1.21	1.06	1.81	1.29	1.47	1.17	1.83	1.29	1.13	1.05	1.25	1.08	1.18	1.06	1.22	1.07	1.21	1.07			
Case5_F5.3 Phase	Singer		40	0	920	BK345-ED34	1.20	1.08	ED345	1.08	1.07	1.09	1.06	1.16	1.07	1.10	1.05	1.20	1.08	1.07	1.05	1.06	1.06	1.06	1.06	1.05	1.09	1.06	1.10	1.06		
Case5_F6.3 Phase Bt	Norwalk 345		40	0	920	BK345-ED34	1.20	1.11	ED345	1.13	1.09	1.15	1.09	1.18	1.10	1.11	1.10	1.20	1.11	1.08	1.06	1.09	1.06	1.09	1.05	1.15	1.10	1.15	1.09			
Case5_F7.3 Phase Bt	Plumtree 345		40	0	920	BK345-ED34	1.22	1.14	PT115	1.15	1.11	1.22	1.14	1.17	1.11	1.12	1.08	1.16	1.12	1.11	1.07	1.08	1.09	1.11	1.07	1.21	1.13	1.18	1.13			
Case5_basNo Fault			40	0	920	NE138-NO13	1.08	1.08	ED345	1.06	1.06	1.06	1.06	1.07	1.07	1.06	1.06	1.08	1.08	1.06	1.06	1.06	1.06	1.06	1.04	1.04	1.05	1.05	1.04	1.04		
Case5_F1.3 Phase	Plumtree		40	0	920	NE138-NO13	1.23	1.23	PT115	1.15	1.13	1.23	1.23	1.15	1.12	1.12	1.12	1.15	1.13	1.11	1.10	1.10	1.10	1.10	1.10	1.11	1.22	1.21	1.20	1.19		
Case5_F2.3 Phase	East Devon		40	0	920	NE138-NO13	1.14	1.09	ED345	1.12	1.07	1.11	1.06	1.13	1.09	1.11	1.07	1.14	1.09	1.09	1.05	1.10	1.05	1.08	1.04	1.11	1.06	1.09	1.05			
Case5_F3.1 Phase	East Devon		40	0	920	NE138-NO13	1.14	1.09	ED345	1.11	1.07	1.10	1.06	1.14	1.09	1.12	1.07	1.14	1.09	1.07	1.05	1.09	1.06	1.07	1.04	1.09	1.06	1.09	1.05			
Case5_F4.3 Phase	Norwalk Junction		40	0	920	NE138-NO13	1.14	1.09	NW115	1.10	1.05	1.09	1.05	1.12	1.09	1.14	1.09	1.13	1.09	1.12	1.08	1.08	1.06	1.09	1.04	1.09	1.05	1.10	1.04			
Case5_F5.3 Phase	Singer		40	0	920	NE138-NO13	1.13	1.07	ED345	1.05	1.05	1.06	1.05	1.10	1.06	1.08	1.05	1.13	1.07	1.07	1.06	1.04	1.05	1.08	1.04	1.08	1.05	1.12	1.06			
Case5_F6.3 Phase Bt	Norwalk 345		40	0	920	NE138-NO13	1.13	1.11	NW115	1.09	1.06	1.09	1.06	1.07	1.07	1.13	1.11	1.07	1.08	1.09	1.07	1.06	1.06	1.08	1.05	1.10	1.06	1.11	1.06			
Case5_F7.3 Phase Bt	Plumtree 345		40	0	920	NE138-NO13	1.18	1.16	STONY	1.11	1.09	1.16	1.16	1.10	1.09	1.07	1.06	1.09	1.09	1.10	1.08	1.07	1.06	1.10	1.09	1.18	1.14	1.16	1.13			
Case5_basNo Fault			40	0	920	LM345-PLVA	1.09	1.09	ED345	1.08	1.08	1.07	1.07	1.08	1.08	1.06	1.06	1.09	1.09	1.07	1.07	1.06	1.06	1.05	1.05	1.06	1.06	1.06	1.06			
Case5_F1.3 Phase	Plumtree		40	0	920	LM345-PLVA	1.20	1.15	PT115	1.16	1.15	1.20	1.15	1.10	1.10	1.10	1.08	1.12	1.10	1.13	1.12	1.09	1.07	1.15	1.14	1.17	1.14	1.16	1.15			
Case5_F2.3 Phase	East Devon		40	0	920	LM345-PLVA	1.29	1.13	ED345	1.25	1.11	1.22	1.09	1.28	1.12	1.18	1.08	1.29	1.13	1.12	1.06	1.17	1.07	1.16	1.06	1.22	1.09	1.22	1.07			
Case5_F3.1 Phase	East Devon		40	0	920	LM345-PLVA	1.27	1.12	ED345	1.23	1.10	1.20	1.08	1.26	1.11	1.17	1.07	1.27	1.12	1.13	1.06	1.17	1.06	1.14	1.06	1.19	1.08	1.16	1.06			
Case5_F4.3 Phase	Norwalk Junction		40	0	920	LM345-PLVA	1.12	1.09	ROCKY	1.11	1.06	1.09	1.07	1.11	1.09	1.10	1.09	1.09	1.09	1.10	1.07	1.08	1.06	1.09	1.04	1.10	1.06	1.12	1.05			
Case5_F5.3 Phase	Singer		40	0	920	LM345-PLVA	1.19	1.09	ED345	1.13	1.07	1.10	1.07	1.18	1.07	1.08	1.05	1.19	1.07	1.09	1.07	1.05	1.06	1.10	1.06	1.11	1.08	1.13	1.09			
Case5_F6.3 Phase Bt	Norwalk 345		40	0	920	LM345-PLVA	1.19	1.12	ROCKY	1.13	1.10	1.16	1.12	1.12	1.09	1.11	1.09	1.13	1.10	1.13	1.09	1.09	1.09	1.12	1.08	1.18	1.12	1.19	1.11			
Case5_F7.3 Phase Bt	Plumtree 345		40	0	920	LM345-PLVA	1.20	1.16	STONY	1.14	1.12	1.20	1.15	1.11	1.10	1.10	1.09	1.13	1.12	1.12	1.10	1.10	1.08	1.10	1.08	1.20	1.16	1.15	1.15			

CASE #: 5A - Case 5 (Old) + 20 Miles of Cable (GE 2C and 6C windows)

DATE: 12/14/2004

Fault Closing at 0V on each phase, 4 Cycle Clearing

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																								
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY						
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	
Case5_bas	No Fault		50	302	1110				1.06	1.06	ED345	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.06	1.06	1.06	1.06	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	
Case5_F1_3	Phase Plumtree		50	302	1110				1.18	1.18	STONY	1.11	1.11	1.14	1.16	1.08	1.07	1.06	1.05	1.08	1.08	1.12	1.09	1.07	1.08	1.08	1.06	1.18	1.18	1.13	1.13			
Case5_F2_3	Phase East Devon		50	302	1110				1.10	1.06	BK345	1.08	1.05	1.06	1.04	1.08	1.06	1.06	1.04	1.09	1.06	1.10	1.06	1.07	1.05	1.06	1.04	1.07	1.04	1.06	1.04			
Case5_F3_1	Phase East Devon		50	302	1110				1.09	1.06	BK345	1.06	1.05	1.06	1.04	1.07	1.06	1.06	1.04	1.08	1.06	1.09	1.06	1.09	1.05	1.06	1.04	1.05	1.04	1.05	1.04			
Case5_F4_3	Phase Norwalk Junction		50	302	1110				1.11	1.09	NW115	1.07	1.04	1.06	1.04	1.06	1.06	1.11	1.09	1.06	1.07	1.07	1.07	1.05	1.06	1.05	1.05	1.06	1.05	1.08	1.05			
Case5_F5_3	Phase Singer		50	302	1110				1.15	1.06	ED345	1.09	1.04	1.07	1.04	1.14	1.05	1.14	1.06	1.15	1.06	1.06	1.06	1.04	1.05	1.05	1.05	1.07	1.04	1.06	1.05			
Case5_F6_3	Phase Bt Norwalk 345		50	302	1110				1.10	1.10	NW115	1.04	1.04	1.05	1.05	1.05	1.05	1.10	1.10	1.06	1.05	1.07	1.06	1.04	1.05	1.04	1.04	1.04	1.05	1.07	1.07			
Case5_F7_3	Phase Bt Plumtree 345		50	302	1110				1.31	1.15	STONY	1.11	1.09	1.15	1.10	1.07	1.05	1.05	1.05	1.07	1.06	1.07	1.08	1.09	1.06	1.09	1.09	1.31	1.15	1.21	1.09			
Case5_bas	No Fault		50	302	1110	PT345-LM34	1.06	1.06	ED345	1.05	1.05	1.04	1.04	1.06	1.06	1.04	1.04	1.06	1.06	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04		
Case5_F2_3	Phase East Devon		50	302	1110	PT345-LM34	1.25	1.08	NW345	1.25	1.06	1.18	1.05	1.25	1.07	1.15	1.04	1.25	1.08	1.15	1.06	1.11	1.05	1.09	1.04	1.16	1.05	1.12	1.04					
Case5_F3_1	Phase East Devon		50	302	1110	PT345-LM34	1.13	1.07	ED345	1.11	1.06	1.09	1.05	1.13	1.07	1.08	1.04	1.13	1.07	1.13	1.05	1.08	1.05	1.05	1.04	1.08	1.05	1.07	1.04					
Case5_F4_3	Phase Norwalk Junction		50	302	1110	PT345-LM34	1.10	1.08	NW115	1.04	1.04	1.04	1.04	1.06	1.06	1.10	1.08	1.06	1.06	1.08	1.06	1.06	1.06	1.06	1.06	1.03	1.05	1.04	1.06	1.04				
Case5_F5_3	Phase Singer		50	302	1110	PT345-LM34	1.12	1.06	NW345	1.09	1.05	1.05	1.05	1.12	1.05	1.10	1.05	1.10	1.05	1.10	1.05	1.07	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.07	1.06		
Case5_F6_3	Phase Bt Norwalk 345		50	302	1110	PT345-LM34	1.13	1.13	NW115	1.08	1.05	1.09	1.05	1.06	1.05	1.13	1.13	1.06	1.06	1.09	1.07	1.07	1.06	1.06	1.08	1.05	1.09	1.06	1.10	1.08				
Case5_F7_3	Phase Bt Plumtree 345		50	302	1110	PT345-LM34	1.20	1.16	STONY	1.12	1.08	1.12	1.11	1.08	1.07	1.06	1.05	1.07	1.07	1.08	1.08	1.08	1.08	1.07	1.06	1.20	1.16	1.13	1.12					
Case5_bas	No Fault		50	302	1110	BK345-ED34	1.06	1.06	ED345	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.06	1.06	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04		
Case5_F1_3	Phase Plumtree		50	302	1110	BK345-ED34	1.25	1.17	STONY	1.20	1.15	1.21	1.15	1.21	1.15	1.13	1.08	1.22	1.15	1.12	1.07	1.08	1.06	1.10	1.06	1.25	1.17	1.16	1.12					
Case5_F4_3	Phase Norwalk Junction		50	302	1110	BK345-ED34	1.57	1.17	NW345	1.12	1.05	1.14	1.06	1.57	1.17	1.33	1.12	1.57	1.17	1.11	1.07	1.21	1.08	1.13	1.06	1.17	1.07	1.16	1.09					
Case5_F5_3	Phase Singer		50	302	1110	BK345-ED34	1.12	1.06	ED345	1.08	1.05	1.07	1.05	1.10	1.05	1.08	1.05	1.12	1.06	1.10	1.05	1.07	1.05	1.07	1.04	1.06	1.04	1.07	1.04					
Case5_F6_3	Phase Bt Norwalk 345		50	302	1110	BK345-ED34	1.13	1.09	NW115	1.09	1.06	1.08	1.06	1.10	1.07	1.13	1.09	1.11	1.07	1.08	1.06	1.09	1.06	1.07	1.05	1.10	1.06	1.10	1.06					
Case5_F7_3	Phase Bt Plumtree 345		50	302	1110	BK345-ED34	1.29	1.16	STONY	1.13	1.10	1.16	1.12	1.11	1.08	1.07	1.06	1.11	1.08	1.08	1.07	1.08	1.07	1.08	1.06	1.29	1.16	1.19	1.10					
Case5_bas	No Fault		50	302	1110	NE138-NO13	1.05	1.05	ED345	1.04	1.04	1.04	1.04	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.03	1.03				
Case5_F1_3	Phase Plumtree		50	302	1110	NE138-NO13	1.19	1.16	STONY	1.12	1.11	1.15	1.15	1.10	1.08	1.08	1.07	1.09	1.08	1.12	1.08	1.08	1.08	1.06	1.04	1.19	1.16	1.15	1.13					
Case5_F2_3	Phase East Devon		50	302	1110	NE138-NO13	1.10	1.06	BK345	1.08	1.04	1.07	1.04	1.09	1.05	1.06	1.04	1.09	1.06	1.10	1.06	1.08	1.05	1.07	1.03	1.07	1.03	1.07	1.03					
Case5_F3_1	Phase East Devon		50	302	1110	NE138-NO13	1.08	1.05	ED345	1.06	1.04	1.05	1.04	1.07	1.05	1.06	1.04	1.08	1.05	1.06	1.05	1.06	1.04	1.05	1.03	1.06	1.03	1.05	1.03					
Case5_F4_3	Phase Norwalk Junction		50	302	1110	NE138-NO13	1.10	1.07	NW115	1.08	1.04	1.06	1.04	1.08	1.07	1.10	1.07	1.08	1.07	1.10	1.06	1.08	1.06	1.06	1.05	1.08	1.04	1.08	1.05					
Case5_F5_3	Phase Singer		50	302	1110	NE138-NO13	1.07	1.06	NW115	1.05	1.04	1.05	1.04	1.05	1.05	1.07	1.05	1.06	1.05	1.06	1.05	1.06	1.05	1.05	1.04	1.04	1.04	1.07	1.04					
Case5_F6_3	Phase Bt Norwalk 345		50	302	1110	NE138-NO13	1.09	1.08	NW115	1.06	1.05	1.07	1.04	1.05	1.05	1.09	1.08	1.05	1.05	1.09	1.07	1.07	1.05	1.06	1.05	1.07	1.04	1.07	1.05					
Case5_F7_3	Phase Bt Plumtree 345		50	302	1110	NE138-NO13	1.26	1.12	STONY	1.10	1.08	1.14	1.08	1.08	1.05	1.05	1.05	1.07	1.06	1.10	1.07	1.09	1.06	1.08	1.06	1.26	1.12	1.17	1.09					
Case5_bas	No Fault		50	302	1110	LM345-PLVA	1.06	1.06	ED345	1.06	1.06	1.05	1.05	1.06	1.06	1.04	1.04	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.04	1.04				
Case5_F1_3	Phase Plumtree		50	302	1110	LM345-PLVA	1.19	1.16	STONY	1.11	1.09	1.14	1.14	1.08	1.08	1.06	1.05	1.09	1.07	1.09	1.08	1.09	1.08	1.09	1.08	1.07	1.19	1.16	1.12	1.12				
Case5_F2_3	Phase East Devon		50	302	1110	LM345-PLVA	1.18	1.07	NW345	1.15	1.07	1.13	1.05	1.18	1.07	1.11	1.04	1.17	1.07	1.12	1.06	1.09	1.05	1.10	1.04	1.14	1.05	1.13	1.04					
Case5_F3_1	Phase East Devon		50	302	1110	LM345-PLVA	1.14	1.07	ED345	1.12	1.06	1.10	1.05	1.13	1.07	1.10	1.04	1.14	1.07	1.07	1.05	1.09	1.05	1.07	1.04	1.11	1.05	1.10	1.04					
Case5_F4_3	Phase Norwalk Junction		50	302	1110	LM345-PLVA	1.14	1.10	PT345	1.14	1.05	1.10	1.05	1.07	1.06	1.12	1.10	1.07	1.10	1.07	1.07	1.07	1.07	1.07	1.04	1.10	1.05	1.10	1.08					
Case5_F5_3	Phase Singer		50	302	1110	LM345-PLVA	1.11	1.07	NW345	1.07	1.06	1.07	1.06	1.11	1.06	1.08	1.05	1.11	1.06	1.09	1.07	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.07	1.07				
Case5_F6_3	Phase Bt Norwalk 345		50	302	1110	LM345-PLVA	1.14	1.14	ROCKY	1.12	1.07	1.10	1.07	1.09	1.06	1.14	1.14	1.09	1.07	1.12	1.08	1.09	1.07											

CASE #: 5A - Case 5 (Old) + 20 Miles of Cable (GE 2C and 6C windows)

DATE: 12/14/2004

Fault Closing at 0V on each phase, 4 Cycle Clearing

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C
Case5_bas	No Fault		70	1249	1320				1.09	1.09	FB115	1.05	1.05	1.06	1.06	1.05	1.05	1.04	1.04	1.06	1.06	1.07	1.07	1.09	1.09	1.09	1.09	1.06	1.06	1.08	1.08	
Case5_F1_3	Phase Plumtree		70	1249	1320				1.34	1.30	ROCKY	1.15	1.13	1.18	1.10	1.08	1.07	1.05	1.05	1.08	1.07	1.12	1.10	1.12	1.12	1.14	1.13	1.18	1.12	1.34	1.30	
Case5_F2_3	Phase East Devon		70	1249	1320				1.12	1.09	BK345	1.10	1.05	1.09	1.06	1.08	1.05	1.05	1.04	1.08	1.05	1.12	1.08	1.11	1.08	1.12	1.09	1.10	1.06	1.10	1.08	
Case5_F3_1	Phase East Devon		70	1249	1320				1.12	1.09	BK345	1.05	1.05	1.07	1.06	1.06	1.05	1.05	1.04	1.07	1.05	1.12	1.08	1.10	1.09	1.10	1.09	1.07	1.06	1.10	1.09	
Case5_F4_3	Phase Norwalk Junction		70	1249	1320				1.15	1.11	FB115	1.13	1.08	1.09	1.09	1.07	1.06	1.09	1.06	1.06	1.07	1.12	1.09	1.13	1.09	1.15	1.11	1.09	1.10	1.14	1.10	
Case5_F5_3	Phase Singer		70	1249	1320				1.11	1.09	FB115	1.05	1.05	1.06	1.06	1.05	1.05	1.04	1.05	1.06	1.06	1.08	1.07	1.09	1.08	1.11	1.09	1.06	1.07	1.10	1.09	
Case5_F6_3	Phase Bt Norwalk 345		70	1249	1320				1.12	1.10	FB115	1.05	1.05	1.06	1.07	1.04	1.05	1.08	1.07	1.05	1.05	1.10	1.08	1.11	1.09	1.12	1.10	1.06	1.07	1.08	1.09	
Case5_F7_3	Phase Bt Plumtree 345		70	1249	1320				1.34	1.30	ROCKY	1.13	1.09	1.18	1.17	1.06	1.05	1.05	1.04	1.06	1.06	1.13	1.11	1.11	1.10	1.14	1.11	1.24	1.19	1.34	1.30	
Case5_bas	No Fault		70	1249	1320	PT345-LM34	1.09	1.09	FB115	1.05	1.05	1.06	1.06	1.05	1.05	1.04	1.04	1.06	1.06	1.06	1.06	1.06	1.08	1.08	1.09	1.09	1.06	1.06	1.08	1.08		
Case5_F2_3	Phase East Devon		70	1249	1320	PT345-LM34	1.14	1.09	NW345	1.12	1.05	1.09	1.04	1.14	1.05	1.07	1.02	1.12	1.05	1.13	1.09	1.10	1.07	1.10	1.08	1.09	1.04	1.11	1.06			
Case5_F3_1	Phase East Devon		70	1249	1320	PT345-LM34	1.09	1.08	ESHOR	1.05	1.03	1.04	1.04	1.05	1.04	1.03	1.02	1.06	1.04	1.09	1.06	1.09	1.07	1.08	1.08	1.05	1.04	1.07	1.06			
Case5_F4_3	Phase Norwalk Junction		70	1249	1320	PT345-LM34	1.13	1.09	BK345	1.12	1.08	1.09	1.08	1.06	1.06	1.08	1.06	1.05	1.06	1.13	1.08	1.12	1.09	1.12	1.09	1.10	1.08	1.12	1.09			
Case5_F5_3	Phase Singer		70	1249	1320	PT345-LM34	1.15	1.10	FB115	1.06	1.06	1.07	1.06	1.05	1.05	1.04	1.05	1.05	1.05	1.10	1.07	1.11	1.09	1.15	1.10	1.08	1.06	1.13	1.08			
Case5_F6_3	Phase Bt Norwalk 345		70	1249	1320	PT345-LM34	1.16	1.11	FB115	1.08	1.06	1.08	1.07	1.06	1.05	1.11	1.07	1.06	1.06	1.13	1.08	1.13	1.10	1.16	1.11	1.09	1.07	1.12	1.09			
Case5_F7_3	Phase Bt Plumtree 345		70	1249	1320	PT345-LM34	1.31	1.24	ROCKY	1.11	1.08	1.13	1.09	1.07	1.06	1.05	1.05	1.08	1.07	1.10	1.11	1.11	1.11	1.14	1.12	1.17	1.13	1.31	1.24			
Case5_bas	No Fault		70	1249	1320	BK345-ED34	1.09	1.09	FB115	1.04	1.04	1.05	1.05	1.04	1.04	1.04	1.04	1.05	1.05	1.07	1.07	1.08	1.08	1.09	1.09	1.06	1.06	1.08	1.08			
Case5_F1_3	Phase Plumtree		70	1249	1320	BK345-ED34	1.38	1.26	ROCKY	1.18	1.15	1.14	1.10	1.13	1.10	1.06	1.04	1.14	1.10	1.11	1.09	1.10	1.08	1.13	1.09	1.25	1.23	1.38	1.26			
Case5_F4_3	Phase Norwalk Junction		70	1249	1320	BK345-ED34	1.29	1.10	ED345	1.15	1.07	1.13	1.08	1.29	1.09	1.22	1.08	1.29	1.09	1.15	1.09	1.16	1.09	1.16	1.10	1.13	1.08	1.14	1.09			
Case5_F5_3	Phase Singer		70	1249	1320	BK345-ED34	1.15	1.10	ROCKY	1.09	1.05	1.10	1.07	1.08	1.05	1.05	1.04	1.08	1.06	1.11	1.08	1.11	1.09	1.13	1.10	1.11	1.07	1.15	1.08			
Case5_F6_3	Phase Bt Norwalk 345		70	1249	1320	BK345-ED34	1.14	1.10	FB115	1.12	1.06	1.11	1.07	1.10	1.06	1.09	1.08	1.11	1.06	1.14	1.08	1.13	1.09	1.14	1.10	1.10	1.08	1.14	1.10			
Case5_F7_3	Phase Bt Plumtree 345		70	1249	1320	BK345-ED34	1.41	1.32	ROCKY	1.14	1.11	1.14	1.11	1.10	1.07	1.06	1.06	1.10	1.08	1.12	1.09	1.12	1.10	1.14	1.11	1.24	1.16	1.41	1.32			
Case5_bas	No Fault		70	1249	1320	NE138-NO13	1.08	1.08	FB115	1.04	1.04	1.05	1.05	1.04	1.04	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.08	1.08	1.08	1.08	1.06	1.06	1.07	1.07		
Case5_F1_3	Phase Plumtree		70	1249	1320	NE138-NO13	1.32	1.23	ROCKY	1.10	1.07	1.09	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.09	1.09	1.09	1.12	1.10	1.11	1.09	1.32	1.23			
Case5_F2_3	Phase East Devon		70	1249	1320	NE138-NO13	1.12	1.08	BK345	1.09	1.03	1.07	1.04	1.07	1.04	1.05	1.03	1.06	1.04	1.12	1.08	1.08	1.07	1.09	1.08	1.07	1.04	1.08	1.06			
Case5_F3_1	Phase East Devon		70	1249	1320	NE138-NO13	1.07	1.07	FB115	1.03	1.02	1.04	1.04	1.03	1.02	1.04	1.03	1.04	1.03	1.07	1.06	1.07	1.07	1.07	1.07	1.05	1.04	1.07	1.06			
Case5_F4_3	Phase Norwalk Junction		70	1249	1320	NE138-NO13	1.14	1.09	FB115	1.11	1.06	1.09	1.06	1.07	1.05	1.08	1.06	1.07	1.06	1.10	1.07	1.12	1.08	1.14	1.09	1.11	1.07	1.13	1.09			
Case5_F5_3	Phase Singer		70	1249	1320	NE138-NO13	1.11	1.08	BK345	1.06	1.04	1.07	1.05	1.05	1.04	1.06	1.05	1.05	1.05	1.11	1.06	1.09	1.08	1.11	1.08	1.08	1.06	1.10	1.08			
Case5_F6_3	Phase Bt Norwalk 345		70	1249	1320	NE138-NO13	1.13	1.10	FB115	1.07	1.05	1.06	1.07	1.04	1.04	1.10	1.07	1.05	1.05	1.10	1.07	1.12	1.08	1.13	1.10	1.07	1.07	1.09	1.10			
Case5_F7_3	Phase Bt Plumtree 345		70	1249	1320	NE138-NO13	1.36	1.30	ROCKY	1.12	1.07	1.15	1.13	1.06	1.05	1.06	1.05	1.06	1.05	1.12	1.09	1.10	1.10	1.13	1.11	1.22	1.16	1.36	1.30			
Case5_bas	No Fault		70	1249	1320	LM345-PLVA	1.10	1.10	FB115	1.06	1.06	1.07	1.07	1.06	1.06	1.04	1.04	1.06	1.06	1.07	1.07	1.08	1.08	1.10	1.10	1.07	1.07	1.09	1.09			
Case5_F1_3	Phase Plumtree		70	1249	1320	LM345-PLVA	1.36	1.28	ROCKY	1.12	1.08	1.13	1.10	1.08	1.06	1.05	1.05	1.08	1.08	1.13	1.12	1.12	1.11	1.16	1.13	1.19	1.12	1.36	1.28			
Case5_F2_3	Phase East Devon		70	1249	1320	LM345-PLVA	1.14	1.09	BK345	1.11	1.06	1.10	1.06	1.12	1.06	1.07	1.04	1.12	1.07	1.14	1.07	1.11	1.08	1.12	1.09	1.10	1.06	1.11	1.08			
Case5_F3_1	Phase East Devon		70	1249	1320	LM345-PLVA	1.10	1.09	ROCKY	1.06	1.05	1.07	1.06	1.07	1.05	1.05	1.04	1.07	1.06	1.09	1.06	1.10	1.08	1.09	1.09	1.08	1.06	1.10	1.08			
Case5_F4_3	Phase Norwalk Junction		70	1249	1320	LM345-PLVA	1.19	1.13	PT345	1.19	1.13	1.15	1.10	1.08	1.07	1.10	1.06	1.07	1.16	1.10	1.13	1.09	1.17	1.11	1.15	1.10	1.16	1.10				
Case5_F5_3	Phase Singer		70	1249	1320	LM345-PLVA	1.13	1.10	ROCKY	1.10	1.08	1.10	1.08	1.09	1.06	1.09	1.04	1.10	1.07	1.13	1.07	1.09	1.09	1.12	1.10	1.09	1.08	1.13	1.09			
Case5_F6_3	Phase Bt Norwalk 345		70	1249	1320	LM345-PLVA	1.14	1.11	FB115	1.13	1.07	1.12	1.08	1.10	1.07	1.12	1.08	1.10	1.07	1.14	1.09	1.12	1.10	1.14	1.11	1.13	1.08	1.12	1.09			
Case5_F7_3	Phase Bt Plumtree 345		70	1249	1320	LM345-PLVA	1.39	1.33	ROCKY	1.16	1.10	1.13	1.13	1.09	1.07	1.06	1.05	1.09	1.08	1.12	1.10	1.12	1.11	1.15	1.12	1.19	1.17	1.39	1.33			

CASE #: Case 5B (Old 5 + 5) at 80% Source, ALT Load
 and future capacitors at Ansonia, Bunker Hill, Hawthorne
 DATE: 12/14/2004
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																											
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY									
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C				
Case5_basNo Fault			30	0	500				1.11	1.11	ED345	1.10	1.10	1.09	1.09	1.10	1.10	1.08	1.08	1.11	1.11	1.10	1.10	1.09	1.09	1.08	1.08	1.09	1.09	1.08	1.08	1.09	1.09	1.08	1.08		
Case5_F1.3 Phase		Plumtree	30	0	500				1.38	1.38	ROCKY	1.26	1.20	1.30	1.29	1.21	1.17	1.21	1.13	1.19	1.15	1.22	1.15	1.27	1.10	1.19	1.15	1.38	1.38	1.36	1.38	1.36	1.38	1.36	1.38		
Case5_F2.3 Phase		East Devon	30	0	500				1.47	1.39	BK345	1.29	1.18	1.31	1.23	1.42	1.27	1.32	1.24	1.41	1.29	1.47	1.32	1.46	1.33	1.32	1.28	1.41	1.33	1.46	1.39	1.46	1.39	1.46	1.39		
Case5_F3.1 Phase		East Devon	30	0	500				1.24	1.11	ESHOR	1.16	1.09	1.21	1.10	1.17	1.11	1.13	1.08	1.18	1.11	1.17	1.10	1.24	1.10	1.16	1.08	1.22	1.09	1.24	1.09	1.24	1.09	1.24	1.09		
Case5_F4.3 Phase		Norwalk Junction	30	0	500				1.53	1.43	ROCKY	1.34	1.23	1.30	1.29	1.51	1.29	1.33	1.31	1.50	1.30	1.26	1.20	1.49	1.30	1.28	1.23	1.43	1.33	1.53	1.43	1.53	1.43	1.53	1.43		
Case5_F5.3 Phase		Singer	30	0	500				1.66	1.46	ESHOR	1.57	1.30	1.46	1.27	1.65	1.41	1.55	1.44	1.64	1.41	1.37	1.20	1.66	1.46	1.44	1.28	1.46	1.29	1.49	1.36	1.49	1.36	1.49	1.36		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	500				1.56	1.35	ESHOR	1.38	1.19	1.33	1.25	1.49	1.29	1.41	1.33	1.48	1.29	1.25	1.19	1.56	1.33	1.37	1.26	1.44	1.28	1.46	1.35	1.46	1.35	1.46	1.35		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	500				1.41	1.29	ESHOR	1.28	1.20	1.29	1.21	1.30	1.18	1.31	1.20	1.29	1.17	1.26	1.20	1.41	1.16	1.29	1.16	1.38	1.27	1.35	1.29	1.35	1.29	1.35	1.29		
Case5_basNo Fault			30	0	500	PT345-LM34	1.12	1.12	ED345	1.12	1.12	1.11	1.11	1.12	1.12	1.09	1.09	1.12	1.12	1.10	1.10	1.09	1.09	1.08	1.08	1.11	1.11	1.11	1.09	1.09	1.09	1.09	1.09	1.09			
Case5_F2.3 Phase		East Devon	30	0	500	PT345-LM34	1.54	1.36	NW345	1.47	1.32	1.33	1.32	1.54	1.33	1.36	1.31	1.53	1.34	1.23	1.23	1.44	1.36	1.26	1.26	1.34	1.31	1.33	1.33	1.36	1.33	1.36	1.33	1.36	1.33		
Case5_F3.1 Phase		East Devon	30	0	500	PT345-LM34	1.21	1.14	ED345	1.18	1.14	1.18	1.12	1.20	1.14	1.17	1.11	1.21	1.14	1.14	1.10	1.14	1.10	1.11	1.08	1.19	1.12	1.17	1.17	1.10	1.17	1.10	1.17	1.10	1.17	1.10	
Case5_F4.3 Phase		Norwalk Junction	30	0	500	PT345-LM34	1.48	1.45	ED345	1.34	1.37	1.34	1.37	1.47	1.26	1.34	1.22	1.48	1.26	1.22	1.17	1.41	1.19	1.28	1.18	1.46	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45		
Case5_F5.3 Phase		Singer	30	0	500	PT345-LM34	1.47	1.31	NW345	1.40	1.25	1.35	1.23	1.47	1.29	1.40	1.31	1.45	1.29	1.31	1.22	1.46	1.19	1.21	1.18	1.38	1.26	1.36	1.26	1.36	1.26	1.36	1.26	1.36	1.26		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	500	PT345-LM34	1.45	1.27	ED345	1.41	1.21	1.33	1.18	1.44	1.26	1.30	1.27	1.45	1.26	1.23	1.16	1.36	1.12	1.23	1.17	1.40	1.23	1.40	1.23	1.40	1.23	1.40	1.23	1.40	1.23		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	500	PT345-LM34	1.42	1.30	STONY	1.25	1.18	1.32	1.24	1.20	1.16	1.20	1.14	1.18	1.15	1.17	1.13	1.16	1.15	1.17	1.11	1.42	1.29	1.36	1.30	1.30	1.30	1.30	1.30	1.30	1.30		
Case5_basNo Fault			30	0	500	BK345-ED34	1.11	1.11	ED345	1.09	1.09	1.09	1.09	1.10	1.10	1.10	1.08	1.08	1.11	1.11	1.09	1.09	1.10	1.10	1.08	1.08	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09		
Case5_F1.3 Phase		Plumtree	30	0	500	BK345-ED34	1.44	1.37	PT345	1.44	1.34	1.39	1.29	1.43	1.36	1.35	1.08	1.43	1.37	1.23	1.17	1.24	1.22	1.22	1.18	1.44	1.31	1.37	1.33	1.33	1.33	1.33	1.33	1.33	1.33		
Case5_F4.3 Phase		Norwalk Junction	30	0	500	BK345-ED34	1.54	1.37	NW345	1.23	1.19	1.27	1.27	1.54	1.36	1.36	1.28	1.53	1.37	1.25	1.22	1.25	1.21	1.18	1.16	1.31	1.31	1.41	1.37	1.37	1.37	1.37	1.37	1.37	1.37		
Case5_F5.3 Phase		Singer	30	0	500	BK345-ED34	1.49	1.30	ED345	1.34	1.18	1.23	1.18	1.47	1.26	1.37	1.30	1.49	1.30	1.21	1.18	1.30	1.17	1.22	1.18	1.28	1.24	1.35	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	
Case5_F6.3 Phase Bt		Norwalk 345	30	0	500	BK345-ED34	1.44	1.31	ED345	1.28	1.15	1.21	1.18	1.44	1.25	1.29	1.25	1.44	1.26	1.20	1.18	1.24	1.14	1.21	1.18	1.25	1.24	1.29	1.31	1.31	1.31	1.31	1.31	1.31	1.31	1.31	
Case5_F7.3 Phase Bt		Plumtree 345	30	0	500	BK345-ED34	1.41	1.30	STONY	1.26	1.18	1.32	1.22	1.29	1.17	1.26	1.18	1.33	1.16	1.20	1.13	1.15	1.12	1.27	1.13	1.41	1.24	1.35	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	
Case5_basNo Fault			30	0	500	NE138-NO13	1.12	1.12	ED345	1.10	1.10	1.10	1.10	1.11	1.11	1.11	1.11	1.12	1.12	1.10	1.10	1.10	1.10	1.09	1.09	1.10	1.10	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	
Case5_F1.3 Phase		Plumtree	30	0	500	NE138-NO13	1.42	1.42	ROCKY	1.34	1.29	1.37	1.25	1.34	1.29	1.35	1.30	1.34	1.29	1.25	1.20	1.24	1.20	1.23	1.18	1.41	1.37	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	
Case5_F2.3 Phase		East Devon	30	0	500	NE138-NO13	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Case5_F3.1 Phase		East Devon	30	0	500	NE138-NO13	1.16	1.12	ED345	1.13	1.11	1.14	1.11	1.15	1.12	1.14	1.11	1.16	1.12	1.13	1.10	1.14	1.10	1.10	1.09	1.14	1.10	1.13	1.10	1.13	1.10	1.13	1.10	1.13	1.10	1.13	1.10
Case5_F4.3 Phase		Norwalk Junction	30	0	500	NE138-NO13	1.53	1.44	ROCKY	1.27	1.17	1.31	1.25	1.45	1.28	1.30	1.29	1.46	1.27	1.28	1.23	1.39	1.22	1.25	1.21	1.44	1.35	1.53	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	
Case5_F5.3 Phase		Singer	30	0	500	NE138-NO13	1.45	1.37	ESHOR	1.39	1.17	1.31	1.18	1.42	1.25	1.41	1.37	1.40	1.27	1.29	1.18	1.45	1.27	1.36	1.23	1.29	1.18	1.35	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	
Case5_F6.3 Phase Bt		Norwalk 345	30	0	500	NE138-NO13	1.45	1.29	ESHOR	1.32	1.17	1.29	1.20	1.42	1.24	1.36	1.29	1.41	1.24	1.24	1.20	1.45	1.23	1.30	1.23	1.38	1.21	1.39	1.22	1.39	1.22	1.39	1.22	1.39	1.22	1.39	1.22
Case5_F7.3 Phase Bt		Plumtree 345	30	0	500	NE138-NO13	1.39	1.29	STONY	1.21	1.15	1.28	1.22	1.21	1.17	1.29	1.25	1.21	1.18	1.23	1.17	1.25	1.15	1.26	1.17	1.39	1.26	1.34	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	
Case5_basNo Fault			30	0	500	LM345-PLVA	1.13	1.13	ED345	1.12	1.12	1.12	1.12	1.13	1.13	1.10	1.10	1.13	1.13	1.11	1.11	1.10	1.10	1.10	1.10	1.11	1.11	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
Case5_F1.3 Phase		Plumtree	30	0	500	LM345-PLVA	1.48	1.46	STONY	1.28	1.23	1.36	1.30	1.22	1.19	1.20	1.15	1.20	1.19	1.22	1.17	1.31	1.16	1.25	1.22	1.48	1.41	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44	
Case5_F2.3 Phase		East Devon	30	0	500	LM345-PLVA	1.59	1.42	ESHOR	1.34	1.20	1.28	1.24	1.42	1.27	1.27	1.22	1.43	1.27	1.37	1.29	1.59	1.42	1.30	1.29	1.40	1.31	1.47	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	
Case5_F3.1 Phase		East Devon	30	0	500	LM345-PLVA	1.23	1.14	BK345	1.23	1.13	1.20	1.12	1.21	1.14	1.18	1.10	1.22																			

CASE #: Case 5B (Old 5 + 5) at 80% Source, ALT Load
and future capacitors at Ansonia, Bunker Hill, Hawthorne
DATE: 12/14/2004
GE 2C and 6C Windows
DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																										
										LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY	
																	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		40	0	500				1.09	1.09	ED345	1.08	1.08	1.07	1.07	1.09	1.09	1.07	1.07	1.09	1.09	1.08	1.08	1.08	1.08	1.06	1.06	1.07	1.07	1.06	1.06					
Case5_F1_3	Phase Plumtree		40	0	500				1.27	1.24	STONY	1.20	1.15	1.22	1.21	1.17	1.14	1.14	1.11	1.21	1.15	1.22	1.12	1.12	1.06	1.13	1.10	1.27	1.23	1.25	1.24					
Case5_F2_3	Phase East Devon		40	0	500				0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Case5_F3_1	Phase East Devon		40	0	500				1.16	1.09	PT345	1.16	1.08	1.11	1.07	1.15	1.09	1.12	1.07	1.16	1.09	1.11	1.08	1.12	1.08	1.08	1.06	1.11	1.07	1.10	1.06					
Case5_F4_3	Phase Norwalk Junction		40	0	500				1.41	1.32	ESHOR	1.25	1.17	1.27	1.18	1.35	1.22	1.33	1.25	1.36	1.21	1.22	1.15	1.41	1.22	1.21	1.15	1.24	1.22	1.39	1.32					
Case5_F5_3	Phase Singer		40	0	500				1.61	1.44	ESHOR	1.38	1.26	1.28	1.20	1.46	1.29	1.44	1.33	1.46	1.29	1.27	1.19	1.61	1.29	1.43	1.29	1.43	1.28	1.56	1.44					
Case5_F6_3	Phase Bt Norwalk 345		40	0	500				1.52	1.35	ESHOR	1.32	1.16	1.30	1.20	1.39	1.21	1.37	1.26	1.39	1.21	1.21	1.17	1.52	1.20	1.29	1.23	1.34	1.24	1.43	1.35					
Case5_F7_3	Phase Bt Plumtree 345		40	0	500				1.32	1.28	ESHOR	1.23	1.19	1.25	1.17	1.25	1.14	1.24	1.16	1.27	1.14	1.22	1.16	1.32	1.10	1.18	1.13	1.26	1.21	1.28	1.28					
Case5_bas	No Fault		40	0	500	PT345-LM34	1.10	1.10	ED345	1.09	1.09	1.08	1.08	1.10	1.10	1.07	1.07	1.10	1.10	1.08	1.08	1.08	1.08	1.06	1.06	1.07	1.07	1.06	1.06	1.06	1.06					
Case5_F2_3	Phase East Devon		40	0	500	PT345-LM34	1.37	1.30	NW345	1.32	1.28	1.25	1.25	1.37	1.29	1.28	1.23	1.37	1.30	1.19	1.16	1.31	1.27	1.18	1.14	1.25	1.22	1.24	1.25	1.25	1.25					
Case5_F3_1	Phase East Devon		40	0	500	PT345-LM34	1.14	1.11	ED345	1.12	1.10	1.10	1.09	1.14	1.11	1.08	1.07	1.14	1.11	1.11	1.08	1.09	1.08	1.07	1.06	1.10	1.08	1.09	1.09	1.07	1.07					
Case5_F4_3	Phase Norwalk Junction		40	0	500	PT345-LM34	1.37	1.35	ROCKY	1.35	1.30	1.35	1.30	1.37	1.20	1.30	1.25	1.35	1.19	1.15	1.11	1.33	1.12	1.21	1.12	1.32	1.35	1.37	1.35	1.35	1.35					
Case5_F5_3	Phase Singer		40	0	500	PT345-LM34	1.42	1.25	ED345	1.37	1.19	1.35	1.18	1.40	1.19	1.37	1.21	1.42	1.19	1.28	1.15	1.30	1.12	1.20	1.11	1.28	1.20	1.24	1.25	1.25	1.25					
Case5_F6_3	Phase Bt Norwalk 345		40	0	500	PT345-LM34	1.38	1.24	ED345	1.33	1.16	1.28	1.19	1.36	1.16	1.28	1.20	1.38	1.16	1.20	1.10	1.20	1.08	1.17	1.11	1.23	1.20	1.25	1.24	1.24	1.24					
Case5_F7_3	Phase Bt Plumtree 345		40	0	500	PT345-LM34	1.27	1.21	STONY	1.20	1.14	1.23	1.17	1.17	1.14	1.12	1.11	1.18	1.15	1.16	1.13	1.08	1.06	1.14	1.11	1.27	1.20	1.25	1.21	1.21	1.21					
Case5_bas	No Fault		40	0	500	BK345-ED34	1.09	1.09	ED345	1.08	1.08	1.07	1.07	1.09	1.09	1.08	1.08	1.09	1.09	1.07	1.07	1.08	1.08	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06				
Case5_F1_3	Phase Plumtree		40	0	500	BK345-ED34	1.37	1.34	PT345	1.37	1.34	1.34	1.30	1.34	1.29	1.29	1.21	1.37	1.30	1.15	1.13	1.22	1.17	1.16	1.16	1.34	1.25	1.29	1.30	1.30	1.30					
Case5_F4_3	Phase Norwalk Junction		40	0	500	BK345-ED34	1.49	1.34	NW345	1.21	1.17	1.22	1.20	1.49	1.32	1.29	1.21	1.48	1.34	1.18	1.14	1.21	1.18	1.18	1.14	1.22	1.18	1.22	1.22	1.22	1.22					
Case5_F5_3	Phase Singer		40	0	500	BK345-ED34	1.40	1.25	ED345	1.26	1.14	1.22	1.13	1.36	1.18	1.33	1.21	1.40	1.18	1.24	1.14	1.28	1.09	1.17	1.10	1.25	1.17	1.31	1.25	1.25	1.25					
Case5_F6_3	Phase Bt Norwalk 345		40	0	500	BK345-ED34	1.40	1.25	ED345	1.29	1.12	1.22	1.14	1.38	1.18	1.28	1.19	1.40	1.17	1.15	1.12	1.12	1.08	1.14	1.10	1.20	1.17	1.24	1.25	1.25	1.25					
Case5_F7_3	Phase Bt Plumtree 345		40	0	500	BK345-ED34	1.29	1.25	STONY	1.24	1.16	1.22	1.18	1.20	1.12	1.19	1.14	1.23	1.13	1.18	1.12	1.12	1.08	1.14	1.11	1.29	1.20	1.27	1.25	1.25	1.25					
Case5_bas	No Fault		40	0	500	NE138-NO13	1.09	1.09	ED345	1.08	1.08	1.07	1.07	1.09	1.09	1.08	1.08	1.09	1.09	1.08	1.08	1.08	1.08	1.06	1.06	1.06	1.07	1.07	1.06	1.06	1.06					
Case5_F1_3	Phase Plumtree		40	0	500	NE138-NO13	1.28	1.26	PT115	1.28	1.24	1.28	1.26	1.26	1.23	1.26	1.21	1.27	1.23	1.20	1.15	1.20	1.15	1.15	1.14	1.28	1.21	1.28	1.25	1.25	1.25					
Case5_F2_3	Phase East Devon		40	0	500	NE138-NO13	1.33	1.28	ESHOR	1.22	1.16	1.22	1.16	1.25	1.19	1.23	1.19	1.26	1.20	1.26	1.14	1.33	1.28	1.17	1.10	1.19	1.14	1.25	1.22	1.22	1.22					
Case5_F3_1	Phase East Devon		40	0	500	NE138-NO13	1.12	1.09	ED345	1.10	1.08	1.09	1.07	1.11	1.09	1.10	1.08	1.12	1.09	1.10	1.08	1.09	1.08	1.07	1.06	1.10	1.06	1.09	1.06	1.06	1.06					
Case5_F4_3	Phase Norwalk Junction		40	0	500	NE138-NO13	1.30	1.24	ESHOR	1.19	1.16	1.20	1.17	1.29	1.24	1.24	1.18	1.30	1.24	1.24	1.17	1.30	1.12	1.14	1.13	1.20	1.16	1.24	1.22	1.22	1.22					
Case5_F5_3	Phase Singer		40	0	500	NE138-NO13	1.42	1.32	ROCKY	1.29	1.15	1.25	1.14	1.33	1.17	1.40	1.27	1.30	1.16	1.23	1.13	1.40	1.12	1.22	1.16	1.20	1.18	1.42	1.32	1.32	1.32					
Case5_F6_3	Phase Bt Norwalk 345		40	0	500	NE138-NO13	1.32	1.29	ROCKY	1.19	1.16	1.24	1.15	1.24	1.17	1.31	1.23	1.26	1.16	1.20	1.15	1.28	1.12	1.20	1.13	1.28	1.17	1.32	1.29	1.29	1.29					
Case5_F7_3	Phase Bt Plumtree 345		40	0	500	NE138-NO13	1.28	1.22	ROCKY	1.23	1.15	1.21	1.14	1.17	1.15	1.24	1.16	1.18	1.15	1.18	1.12	1.13	1.14	1.12	1.12	1.26	1.20	1.28	1.22	1.22	1.22					
Case5_bas	No Fault		40	0	500	LM345-PLVA	1.10	1.10	ED345	1.09	1.09	1.08	1.08	1.10	1.10	1.07	1.07	1.10	1.10	1.09	1.09	1.08	1.08	1.07	1.07	1.08	1.08	1.07	1.07	1.07	1.07					
Case5_F1_3	Phase Plumtree		40	0	500	LM345-PLVA	1.30	1.27	ROCKY	1.20	1.17	1.25	1.20	1.19	1.17	1.14	1.11	1.21	1.18	1.21	1.13	1.17	1.07	1.19	1.16	1.30	1.24	1.30	1.27	1.27	1.27					
Case5_F2_3	Phase East Devon		40	0	500	LM345-PLVA	1.37	1.29	ED345	1.27	1.22	1.22	1.21	1.36	1.21	1.21	1.16	1.37	1.21	1.24	1.17	1.34	1.29	1.22	1.16	1.24	1.19	1.25	1.21	1.21	1.21					
Case5_F3_1	Phase East Devon		40	0	500	LM345-PLVA	1.14	1.11	ED345	1.13	1.10	1.12	1.08	1.14	1.10	1.09	1.07	1.14	1.11	1.12	1.08	1.11	1.08	1.09	1.07	1.10	1.08	1.10	1.07	1.07	1.07					
Case5_F4_3	Phase Norwalk Junction		40	0	500	LM345-PLVA	1.49	1.28	ESHOR	1.31	1.19	1.30	1.22	1.30	1.19	1.30	1.22	1.30	1.18	1.19	1.14	1.49	1.21	1.22	1.14	1.23	1.15	1.21	1.17	1.17	1.17					
Case5_F5_3	Phase Singer		40	0	500	LM345-PLVA	1.44	1.35	ESHOR	1.35	1.18	1.26	1.16	1.41	1.21	1.32	1.20	1.39	1.20	1.27	1.14	1.44	1.13	1.28	1.19	1.32	1.21	1.43	1.35	1.35	1.35					
Case5_F6_3	Phase Bt Norwalk 345		40	0	500	LM345-PLVA	1.38	1.27	ESHOR	1.25	1.16	1.26	1.17	1.32	1.17	1.25	1.17	1.33	1.17	1.25	1.14	1.38	1.09	1.23	1.16	1.29	1.18	1.33	1.27	1.27	1.27					
Case5_F7_3	Phase Bt Plumtree 345		40	0	500	LM345-PLVA	1.34	1.26	STONY	1.21	1.16	1.29	1.19	1.18	1.16	1.14	1.11	1.17	1.17	1.22	1.14	1.17	1.12	1.16	1.16	1.34	1.24	1.33	1.26	1.26	1.26					

CASE #: Case 5B (Old 5 + 5) at 80% Source, ALT Load
 and future capacitors at Ansonia, Bunker Hill, Hawthorne
 DATE: 12/14/2004
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																										
										LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY	
																	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		50	434	690				1.09	1.09	ESHOR	1.07	1.07	1.07	1.07	1.08	1.08	1.06	1.06	1.08	1.08	1.08	1.08	1.08	1.08	1.09	1.09	1.08	1.08	1.07	1.07	1.07	1.07			
Case5_F1.3	Phase Plumtree		50	434	690				0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Case5_F2.3	Phase East Devon		50	434	690				1.25	1.19	NW345	1.19	1.13	1.17	1.13	1.25	1.13	1.23	1.12	1.22	1.13	1.21	1.15	1.24	1.19	1.20	1.13	1.22	1.16	1.19	1.13	1.13				
Case5_F3.1	Phase East Devon		50	434	690				1.13	1.09	FB115	1.08	1.07	1.09	1.06	1.09	1.07	1.08	1.06	1.10	1.07	1.11	1.09	1.11	1.09	1.13	1.08	1.09	1.07	1.09	1.07	1.09	1.07			
Case5_F4.3	Phase Norwalk Junction		50	434	690				1.34	1.25	ROCKY	1.24	1.16	1.17	1.19	1.27	1.16	1.28	1.19	1.26	1.15	1.23	1.15	1.29	1.14	1.25	1.17	1.29	1.21	1.34	1.25	1.25	1.25			
Case5_F5.3	Phase Singer		50	434	690				1.36	1.23	ESHOR	1.25	1.15	1.24	1.18	1.24	1.12	1.28	1.14	1.27	1.12	1.18	1.12	1.36	1.21	1.26	1.20	1.28	1.20	1.27	1.23	1.23	1.23			
Case5_F6.3	Phase Bt Norwalk 345		50	434	690				1.28	1.23	ESHOR	1.26	1.12	1.20	1.19	1.19	1.13	1.27	1.12	1.21	1.13	1.20	1.17	1.28	1.13	1.20	1.17	1.25	1.23	1.25	1.25	1.25				
Case5_F7.3	Phase Bt Plumtree 345		50	434	690				0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Case5_bas	No Fault		50	434	690	PT345-LM34	1.08	1.08	ESHOR	1.07	1.07	1.07	1.07	1.08	1.08	1.06	1.06	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.07	1.07	1.07	1.07	1.07			
Case5_F2.3	Phase East Devon		50	434	690	PT345-LM34	1.37	1.26	NW345	1.35	1.22	1.29	1.19	1.37	1.24	1.21	1.14	1.37	1.26	1.23	1.18	1.26	1.18	1.16	1.15	1.25	1.18	1.20	1.17	1.20	1.17	1.17	1.17			
Case5_F3.1	Phase East Devon		50	434	690	PT345-LM34	1.11	1.08	BK345	1.08	1.07	1.07	1.06	1.08	1.07	1.07	1.05	1.09	1.07	1.11	1.08	1.08	1.07	1.08	1.07	1.08	1.07	1.09	1.06	1.08	1.08	1.06	1.06			
Case5_F4.3	Phase Norwalk Junction		50	434	690	PT345-LM34	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Case5_F5.3	Phase Singer		50	434	690	PT345-LM34	1.28	1.23	STONY	1.23	1.17	1.23	1.20	1.23	1.15	1.24	1.10	1.20	1.15	1.20	1.15	1.20	1.13	1.19	1.14	1.22	1.12	1.28	1.23	1.25	1.21	1.21	1.21			
Case5_F6.3	Phase Bt Norwalk 345		50	434	690	PT345-LM34	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Case5_F7.3	Phase Bt Plumtree 345		50	434	690	PT345-LM34	1.25	1.26	ROCKY	1.23	1.14	1.23	1.15	1.18	1.14	1.15	1.12	1.22	1.16	1.14	1.12	1.12	1.09	1.16	1.12	1.23	1.22	1.25	1.22	1.25	1.26	1.26	1.26			
Case5_bas	No Fault		50	434	690	BK345-ED34	1.08	1.08	ESHOR	1.06	1.06	1.06	1.06	1.07	1.07	1.06	1.06	1.07	1.07	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.06	1.06	1.06	1.06	1.06	1.06			
Case5_F1.3	Phase Plumtree		50	434	690	BK345-ED34	1.35	1.23	STONY	1.33	1.21	1.29	1.20	1.32	1.22	1.22	1.15	1.34	1.23	1.18	1.14	1.24	1.16	1.24	1.22	1.35	1.21	1.32	1.19	1.19	1.19	1.19	1.19			
Case5_F4.3	Phase Norwalk Junction		50	434	690	BK345-ED34	1.40	1.28	NW345	1.23	1.19	1.22	1.23	1.40	1.27	1.24	1.18	1.36	1.28	1.16	1.12	1.23	1.13	1.24	1.19	1.25	1.23	1.30	1.22	1.22	1.22	1.22	1.22			
Case5_F5.3	Phase Singer		50	434	690	BK345-ED34	1.25	1.18	PT345	1.25	1.16	1.20	1.12	1.20	1.13	1.17	1.08	1.18	1.14	1.18	1.12	1.22	1.18	1.24	1.13	1.23	1.17	1.21	1.21	1.14	1.14	1.14	1.14			
Case5_F6.3	Phase Bt Norwalk 345		50	434	690	BK345-ED34	1.25	1.20	STONY	1.17	1.12	1.21	1.15	1.19	1.13	1.21	1.11	1.19	1.14	1.13	1.11	1.23	1.20	1.12	1.08	1.25	1.15	1.21	1.15	1.21	1.15	1.15	1.15			
Case5_F7.3	Phase Bt Plumtree 345		50	434	690	BK345-ED34	1.23	1.23	ROCKY	1.18	1.12	1.21	1.18	1.14	1.12	1.13	1.10	1.18	1.12	1.19	1.14	1.16	1.13	1.15	1.15	1.23	1.19	1.23	1.23	1.23	1.23	1.23	1.23			
Case5_bas	No Fault		50	434	690	NE138-NO13	1.08	1.08	ESHOR	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.07	1.07	1.06	1.06	1.06				
Case5_F1.3	Phase Plumtree		50	434	690	NE138-NO13	1.31	1.23	STONY	1.30	1.20	1.25	1.17	1.29	1.21	1.24	1.17	1.27	1.21	1.16	1.12	1.24	1.20	1.21	1.22	1.31	1.23	1.28	1.20	1.20	1.20	1.20	1.20			
Case5_F2.3	Phase East Devon		50	434	690	NE138-NO13	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Case5_F3.1	Phase East Devon		50	434	690	NE138-NO13	1.11	1.08	FB115	1.07	1.06	1.07	1.06	1.07	1.06	1.07	1.06	1.07	1.06	1.07	1.07	1.09	1.08	1.08	1.08	1.11	1.07	1.08	1.06	1.08	1.08	1.08	1.08			
Case5_F4.3	Phase Norwalk Junction		50	434	690	NE138-NO13	1.32	1.28	NW345	1.28	1.23	1.24	1.25	1.32	1.28	1.23	1.22	1.31	1.27	1.22	1.19	1.21	1.14	1.22	1.18	1.27	1.19	1.26	1.24	1.24	1.24	1.24	1.24			
Case5_F5.3	Phase Singer		50	434	690	NE138-NO13	1.28	1.20	NW115	1.27	1.16	1.18	1.15	1.21	1.16	1.28	1.20	1.22	1.18	1.21	1.15	1.28	1.15	1.26	1.16	1.18	1.15	1.21	1.14	1.14	1.14	1.14	1.14			
Case5_F6.3	Phase Bt Norwalk 345		50	434	690	NE138-NO13	1.25	1.23	NW345	1.25	1.19	1.20	1.18	1.25	1.19	1.25	1.23	1.23	1.20	1.24	1.16	1.18	1.17	1.20	1.15	1.18	1.19	1.17	1.15	1.15	1.15	1.15	1.15			
Case5_F7.3	Phase Bt Plumtree 345		50	434	690	NE138-NO13	1.26	1.26	ROCKY	1.24	1.16	1.24	1.21	1.24	1.20	1.19	1.17	1.24	1.20	1.18	1.15	1.17	1.13	1.13	1.14	1.25	1.24	1.26	1.26	1.26	1.26	1.26	1.26			
Case5_bas	No Fault		50	434	690	LM345-PLVA	1.09	1.09	ED345	1.08	1.08	1.08	1.08	1.09	1.09	1.07	1.07	1.09	1.09	1.08	1.08	1.09	1.08	1.08	1.08	1.08	1.08	1.07	1.07	1.07	1.07	1.07	1.07			
Case5_F1.3	Phase Plumtree		50	434	690	LM345-PLVA	1.32	1.28	ROCKY	1.26	1.19	1.24	1.21	1.25	1.20	1.17	1.12	1.27	1.20	1.23	1.16	1.21	1.16	1.26	1.25	1.28	1.23	1.32	1.28	1.28	1.28	1.28	1.28			
Case5_F2.3	Phase East Devon		50	434	690	LM345-PLVA	1.34	1.27	ESHOR	1.28	1.23	1.26	1.18	1.31	1.24	1.18	1.15	1.31	1.25	1.21	1.15	1.34	1.27	1.21	1.15	1.25	1.20	1.22	1.21	1.21	1.21	1.21				
Case5_F3.1	Phase East Devon		50	434	690	LM345-PLVA	1.12	1.09	ESHOR	1.08	1.08	1.07	1.07	1.08	1.08	1.06	1.06	1.09	1.08	1.10	1.08	1.12	1.09	1.09	1.08	1.09	1.07	1.08	1.07	1.08	1.07	1.07				
Case5_F4.3	Phase Norwalk Junction		50	434	690	LM345-PLVA	1.31	1.32	PT345	1.31	1.32	1.23	1.30	1.24	1.21	1.25	1.15	1.22	1.22	1.20	1.19	1.26	1.16	1.22	1.17	1.20	1.24	1.25	1.23	1.23	1.23	1.23	1.23			
Case5_F5.3	Phase Singer		50	434	690	LM345-PLVA	1.31	1.22	PT345	1.31	1.22	1.21	1.17	1.21	1.19	1.20	1.14	1.23	1.19	1.25	1.16	1.31	1.14	1.25	1.16	1.30	1.19	1.26								

CASE #: Case 5B (Old 5 + 5) at 80% Source, ALT Load
and future capacitors at Ansonia, Bunker Hill, Hawthorne
DATE: 12/14/2004
GE 2C and 6C Windows
DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																										
										LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY	
																	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		70	1382	900				1.06	1.06	ESHOR	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.05	1.05	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05				
Case5_F1.3	Phase Plumtree		70	1382	900				1.22	1.20	ROCKY	1.12	1.07	1.09	1.07	1.10	1.08	1.08	1.06	1.09	1.09	1.14	1.11	1.20	1.13	1.21	1.14	1.15	1.13	1.22	1.20					
Case5_F2.3	Phase East Devon		70	1382	900				1.25	1.12	ESHOR	1.11	1.06	1.12	1.09	1.10	1.06	1.12	1.09	1.10	1.07	1.17	1.12	1.25	1.12	1.13	1.09	1.11	1.09	1.12	1.12					
Case5_F3.1	Phase East Devon		70	1382	900				1.09	1.06	BK345	1.04	1.03	1.05	1.04	1.04	1.02	1.03	1.03	1.04	1.03	1.09	1.06	1.08	1.06	1.05	1.04	1.05	1.04	1.07	1.04					
Case5_F4.3	Phase Norwalk Junction		70	1382	900				1.33	1.29	ESHOR	1.27	1.16	1.18	1.16	1.17	1.09	1.10	1.08	1.17	1.11	1.18	1.13	1.33	1.23	1.19	1.16	1.22	1.16	1.29	1.29					
Case5_F5.3	Phase Singer		70	1382	900				1.25	1.17	ROCKY	1.13	1.06	1.11	1.07	1.13	1.05	1.12	1.07	1.11	1.06	1.14	1.08	1.22	1.17	1.14	1.10	1.16	1.10	1.25	1.15					
Case5_F6.3	Phase Bt Norwalk 345		70	1382	900				1.38	1.18	ROCKY	1.13	1.06	1.15	1.09	1.10	1.08	1.09	1.09	1.12	1.08	1.19	1.10	1.23	1.16	1.14	1.09	1.26	1.09	1.38	1.18					
Case5_F7.3	Phase Bt Plumtree 345		70	1382	900				1.37	1.34	ROCKY	1.12	1.08	1.11	1.08	1.07	1.06	1.05	1.07	1.08	1.12	1.10	1.19	1.15	1.16	1.11	1.24	1.21	1.37	1.34						
Case5_bas	No Fault		70	1382	900	PT345-LM34	1.05	1.05	ESHOR	1.02	1.02	1.03	1.03	1.03	1.03	1.02	1.02	1.03	1.03	1.04	1.04	1.04	1.05	1.05	1.04	1.04	1.03	1.03	1.04	1.04	1.04					
Case5_F2.3	Phase East Devon		70	1382	900	PT345-LM34	1.21	1.09	ESHOR	1.15	1.04	1.13	1.04	1.14	1.03	1.12	1.03	1.15	1.05	1.19	1.08	1.21	1.09	1.09	1.06	1.19	1.05	1.17	1.04							
Case5_F3.1	Phase East Devon		70	1382	900	PT345-LM34	1.10	1.06	BK345	1.00	0.99	1.00	1.00	1.00	0.99	0.99	0.99	1.00	1.00	1.10	1.06	1.04	1.03	1.03	1.02	1.00	1.00	1.01	1.01	1.01						
Case5_F4.3	Phase Norwalk Junction		70	1382	900	PT345-LM34	1.36	1.24	ROCKY	1.20	1.20	1.21	1.20	1.10	1.05	1.09	1.05	1.09	1.05	1.13	1.09	1.22	1.14	1.11	1.07	1.25	1.21	1.36	1.24							
Case5_F5.3	Phase Singer		70	1382	900	PT345-LM34	1.26	1.13	ROCKY	1.13	1.08	1.11	1.06	1.12	1.08	1.08	1.07	1.12	1.08	1.13	1.11	1.21	1.13	1.12	1.09	1.15	1.08	1.26	1.13							
Case5_F6.3	Phase Bt Norwalk 345		70	1382	900	PT345-LM34	1.30	1.14	ROCKY	1.12	1.08	1.11	1.06	1.15	1.10	1.11	1.09	1.14	1.11	1.15	1.11	1.23	1.14	1.09	1.08	1.21	1.11	1.30	1.11							
Case5_F7.3	Phase Bt Plumtree 345		70	1382	900	PT345-LM34	1.20	1.15	ROCKY	1.12	1.07	1.09	1.08	1.10	1.09	1.07	1.05	1.11	1.10	1.11	1.10	1.18	1.12	1.11	1.09	1.18	1.10	1.20	1.15							
Case5_bas	No Fault		70	1382	900	BK345-ED34	1.05	1.05	ESHOR	1.02	1.02	1.03	1.03	1.02	1.02	1.02	1.03	1.03	1.03	1.05	1.05	1.05	1.05	1.04	1.04	1.03	1.03	1.04	1.04	1.04						
Case5_F1.3	Phase Plumtree		70	1382	900	BK345-ED34	1.20	1.16	ROCKY	1.13	1.04	1.12	1.06	1.13	1.05	1.07	1.02	1.12	1.06	1.14	1.08	1.11	1.05	1.19	1.12	1.19	1.09	1.20	1.16							
Case5_F4.3	Phase Norwalk Junction		70	1382	900	BK345-ED34	1.28	1.29	ROCKY	1.22	1.17	1.17	1.12	1.18	1.10	1.14	1.08	1.16	1.10	1.15	1.14	1.22	1.16	1.19	1.20	1.25	1.24	1.28	1.29							
Case5_F5.3	Phase Singer		70	1382	900	BK345-ED34	1.19	1.12	ESHOR	1.14	1.06	1.10	1.06	1.09	1.06	1.08	1.07	1.12	1.06	1.14	1.09	1.19	1.12	1.11	1.07	1.10	1.06	1.13	1.05							
Case5_F6.3	Phase Bt Norwalk 345		70	1382	900	BK345-ED34	1.20	1.13	ROCKY	1.11	1.07	1.07	1.06	1.13	1.07	1.11	1.09	1.12	1.08	1.11	1.08	1.18	1.18	1.13	1.10	1.08	1.16	1.06	1.20	1.06						
Case5_F7.3	Phase Bt Plumtree 345		70	1382	900	BK345-ED34	1.26	1.25	ROCKY	1.15	1.07	1.10	1.06	1.09	1.07	1.08	1.06	1.10	1.08	1.14	1.12	1.18	1.12	1.12	1.11	1.18	1.12	1.26	1.25							
Case5_bas	No Fault		70	1382	900	NE138-NO13	1.04	1.04	ESHOR	1.01	1.01	1.02	1.02	1.01	1.01	1.02	1.02	1.02	1.02	1.03	1.03	1.04	1.04	1.03	1.03	1.03	1.02	1.03	1.02	1.03	1.03					
Case5_F1.3	Phase Plumtree		70	1382	900	NE138-NO13	1.15	1.13	ROCKY	1.05	1.00	1.07	1.05	1.04	1.02	1.05	1.02	1.06	1.03	1.10	1.04	1.12	1.05	1.14	1.05	1.09	1.08	1.15	1.13							
Case5_F2.3	Phase East Devon		70	1382	900	NE138-NO13	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Case5_F3.1	Phase East Devon		70	1382	900	NE138-NO13	1.06	1.04	BK345	1.01	1.00	1.01	1.00	1.00	0.99	1.01	1.00	1.00	1.00	1.06	1.04	1.04	1.03	1.03	1.02	1.02	1.01	1.02	1.01	1.02	1.01					
Case5_F4.3	Phase Norwalk Junction		70	1382	900	NE138-NO13	1.30	1.27	ESHOR	1.19	1.12	1.16	1.12	1.11	1.04	1.11	1.08	1.10	1.04	1.13	1.10	1.30	1.17	1.16	1.15	1.16	1.13	1.26	1.27							
Case5_F5.3	Phase Singer		70	1382	900	NE138-NO13	1.25	1.16	ESHOR	1.10	1.07	1.11	1.08	1.10	1.06	1.12	1.09	1.09	1.06	1.14	1.07	1.25	1.16	1.15	1.07	1.13	1.08	1.14	1.05							
Case5_F6.3	Phase Bt Norwalk 345		70	1382	900	NE138-NO13	1.29	1.15	ESHOR	1.11	1.06	1.08	1.07	1.12	1.08	1.13	1.09	1.11	1.09	1.14	1.10	1.29	1.15	1.11	1.07	1.15	1.07	1.19	1.08							
Case5_F7.3	Phase Bt Plumtree 345		70	1382	900	NE138-NO13	1.30	1.20	ROCKY	1.12	1.06	1.10	1.08	1.08	1.07	1.09	1.07	1.10	1.09	1.11	1.11	1.19	1.15	1.18	1.11	1.19	1.13	1.30	1.20							
Case5_bas	No Fault		70	1382	900	LM345-PLVA	1.04	1.04	ESHOR	1.02	1.02	1.03	1.03	1.02	1.02	1.02	1.02	1.03	1.03	1.04	1.03	1.04	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03						
Case5_F1.3	Phase Plumtree		70	1382	900	LM345-PLVA	1.23	1.18	FB115	1.14	1.07	1.10	1.08	1.12	1.09	1.09	1.06	1.11	1.09	1.14	1.10	1.21	1.13	1.23	1.18	1.20	1.13	1.19	1.16							
Case5_F2.3	Phase East Devon		70	1382	900	LM345-PLVA	1.22	1.1	ESHOR	1.13	1.06	1.13	1.08	1.15	1.06	1.14	1.06	1.14	1.06	1.15	1.07	1.22	1.10	1.16	1.08	1.18	1.06	1.19	1.06							
Case5_F3.1	Phase East Devon		70	1382	900	LM345-PLVA	1.07	1.04	BK345	1.01	1.01	1.02	1.01	1.01	1.00	1.00	1.01	1.01	1.01	1.07	1.04	1.06	1.03	1.03	1.02	1.02	1.01	1.02	1.01							
Case5_F4.3	Phase Norwalk Junction		70	1382	900	LM345-PLVA	1.31	1.24	ESHOR	1.22	1.15	1.18	1.15	1.13	1.04	1.09	1.08	1.12	1.04	1.16	1.10	1.31	1.18	1.15	1.16	1.27	1.17	1.29	1.24							
Case5_F5.3	Phase Singer		70	1382	900	LM345-PLVA	1.29	1.16	ESHOR	1.12	1.08	1.09	1.07	1.13	1.08	1.11	1.08	1.13	1.08	1.17	1.10	1.29	1.16	1.16	1.13	1.20	1.11	1.17	1.11							
Case5_F6.3	Phase Bt Norwalk 345		70	1382	900	LM345-PLVA	1.29	1.16	ROCKY	1.14	1.09	1.14	1.08	1.13	1.09	1.12	1.09	1.13	1.09	1.18	1.12	1.24	1.16	1.18	1.12	1.19	1.12	1.29	1.11							
Case5_F7.3	Phase Bt Plumtree 345		70	1382	900																															

CASE #: 5B - Case 5 (old) + 5 Miles of Cable

DATE: 12/07/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_basNo Fault			40	0	500				1.09	1.09	ED345	1.07	1.07	1.07	1.07	1.09	1.09	1.06	1.06	1.09	1.09	1.07	1.07	1.07	1.07	1.05	1.05	1.06	1.06	1.05	1.05
Case5_F1.3 Phase		Plumtree	40	0	500				1.37	1.26	ROCKY	1.31	1.18	1.25	1.25	1.29	1.22	1.16	1.15	1.27	1.19	1.19	1.16	1.18	1.11	1.33	1.14	1.29	1.26	1.37	1.20
Case5_F2.3 Phase		East Devon	40	0	500				1.48	1.34	ED345	1.28	1.22	1.25	1.21	1.45	1.33	1.24	1.18	1.48	1.34	1.26	1.17	1.30	1.16	1.16	1.14	1.25	1.20	1.26	1.18
Case5_F3.1 Phase		East Devon	40	0	500				1.32	1.13	ED345	1.20	1.13	1.19	1.13	1.30	1.12	1.18	1.09	1.32	1.13	1.18	1.09	1.14	1.07	1.14	1.09	1.18	1.12	1.19	1.10
Case5_F4.3 Phase		Norwalk Junction	40	0	500				1.72	1.48	NW345	1.23	1.17	1.27	1.17	1.72	1.48	1.35	1.27	1.71	1.47	1.26	1.21	1.24	1.18	1.15	1.11	1.28	1.17	1.38	1.16
Case5_F5.3 Phase		Singer	40	0	500				1.61	1.57	NW345	1.49	1.47	1.34	1.41	1.61	1.56	1.36	1.40	1.55	1.57	1.29	1.30	1.23	1.25	1.27	1.25	1.35	1.39	1.33	1.35
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500				1.73	1.48	NW345	1.44	1.31	1.28	1.28	1.73	1.45	1.41	1.34	1.72	1.48	1.25	1.20	1.32	1.20	1.13	1.18	1.27	1.27	1.23	1.24
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500				1.60	1.32	PT345	1.60	1.22	1.41	1.21	1.44	1.29	1.21	1.23	1.43	1.32	1.14	1.17	1.14	1.14	1.15	1.12	1.42	1.22	1.41	1.18
Case5_basNo Fault			40	0	500	PT345-LM34	1.11	1.11	ED345	1.10	1.10	1.09	1.09	1.11	1.11	1.07	1.07	1.11	1.11	1.07	1.07	1.07	1.05	1.05	1.08	1.08	1.07	1.07	1.07	1.07	1.07
Case5_F2.3 Phase		East Devon	40	0	500	PT345-LM34	1.60	1.43	ED345	1.52	1.41	1.43	1.35	1.57	1.43	1.34	1.27	1.60	1.43	1.22	1.17	1.29	1.23	1.20	1.16	1.40	1.33	1.35	1.26	1.26	1.26
Case5_F3.1 Phase		East Devon	40	0	500	PT345-LM34	1.38	1.18	PT345	1.38	1.18	1.35	1.15	1.36	1.18	1.32	1.10	1.36	1.18	1.19	1.07	1.25	1.08	1.18	1.07	1.38	1.15	1.33	1.15	1.33	1.11
Case5_F4.3 Phase		Norwalk Junction	40	0	500	PT345-LM34	1.67	1.41	NW345	1.26	1.27	1.26	1.27	1.67	1.40	1.30	1.22	1.65	1.41	1.26	1.14	1.22	1.11	1.13	1.13	1.23	1.27	1.21	1.21	1.23	
Case5_F5.3 Phase		Singer	40	0	500	PT345-LM34	1.51	1.54	ED345	1.49	1.44	1.36	1.34	1.49	1.50	1.28	1.27	1.51	1.54	1.22	1.15	1.20	1.20	1.22	1.18	1.37	1.36	1.33	1.27		
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	PT345-LM34	1.57	1.39	NW345	1.42	1.32	1.31	1.23	1.57	1.39	1.27	1.19	1.55	1.39	1.24	1.17	1.21	1.12	1.20	1.16	1.29	1.21	1.32	1.22		
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	PT345-LM34	1.43	1.24	PT345	1.43	1.20	1.28	1.24	1.28	1.20	1.17	1.14	1.28	1.21	1.19	1.14	1.17	1.11	1.15	1.15	1.26	1.23	1.20	1.18		
Case5_basNo Fault			40	0	500	BK345-ED34	1.11	1.11	ED345	1.08	1.08	1.07	1.07	1.10	1.10	1.07	1.07	1.11	1.11	1.05	1.05	1.06	1.06	1.05	1.05	1.07	1.07	1.05	1.05	1.05	
Case5_F1.3 Phase		Plumtree	40	0	500	BK345-ED34	1.53	1.42	PT345	1.53	1.41	1.43	1.33	1.50	1.40	1.32	1.29	1.49	1.42	1.18	1.11	1.23	1.21	1.37	1.18	1.40	1.32	1.46	1.29		
Case5_F4.3 Phase		Norwalk Junction	40	0	500	BK345-ED34	1.71	1.51	NW345	1.33	1.14	1.52	1.17	1.71	1.51	1.40	1.31	1.69	1.50	1.19	1.13	1.34	1.20	1.24	1.13	1.51	1.16	1.45	1.15		
Case5_F5.3 Phase		Singer	40	0	500	BK345-ED34	1.57	1.49	NW345	1.37	1.34	1.31	1.27	1.57	1.45	1.32	1.25	1.52	1.49	1.22	1.14	1.19	1.13	1.22	1.13	1.30	1.24	1.31	1.22		
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	BK345-ED34	1.71	1.41	ED345	1.37	1.25	1.28	1.21	1.70	1.41	1.35	1.20	1.71	1.41	1.16	1.15	1.24	1.09	1.21	1.14	1.32	1.19	1.40	1.19		
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	BK345-ED34	1.50	1.27	ED345	1.46	1.22	1.35	1.25	1.44	1.27	1.26	1.17	1.50	1.27	1.20	1.18	1.21	1.12	1.20	1.13	1.35	1.25	1.46	1.22		
Case5_basNo Fault			40	0	500	NE138-NO13	1.10	1.10	ED345	1.08	1.08	1.07	1.07	1.09	1.09	1.08	1.08	1.10	1.10	1.07	1.07	1.07	1.07	1.05	1.05	1.07	1.07	1.06	1.06		
Case5_F1.3 Phase		Plumtree	40	0	500	NE138-NO13	1.40	1.21	PT345	1.40	1.18	1.29	1.21	1.32	1.20	1.28	1.18	1.33	1.18	1.34	1.15	1.22	1.14	1.33	1.15	1.29	1.20	1.31	1.20		
Case5_F2.3 Phase		East Devon	40	0	500	NE138-NO13	1.40	1.27	NW345	1.30	1.23	1.27	1.25	1.40	1.27	1.32	1.19	1.38	1.27	1.23	1.18	1.22	1.19	1.19	1.13	1.26	1.24	1.27	1.20		
Case5_F3.1 Phase		East Devon	40	0	500	NE138-NO13	1.25	1.13	ED345	1.17	1.10	1.17	1.09	1.22	1.12	1.23	1.10	1.25	1.13	1.16	1.07	1.14	1.08	1.12	1.05	1.18	1.09	1.16	1.07		
Case5_F4.3 Phase		Norwalk Junction	40	0	500	NE138-NO13	1.59	1.31	NW345	1.25	1.18	1.21	1.17	1.59	1.31	1.47	1.23	1.56	1.29	1.39	1.22	1.30	1.14	1.17	1.14	1.24	1.17	1.28	1.17		
Case5_F5.3 Phase		Singer	40	0	500	NE138-NO13	1.51	1.42	NW345	1.35	1.34	1.31	1.37	1.51	1.40	1.38	1.35	1.47	1.42	1.22	1.19	1.15	1.14	1.20	1.17	1.29	1.36	1.30	1.34		
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	NE138-NO13	1.61	1.35	NW345	1.33	1.25	1.21	1.33	1.61	1.35	1.51	1.27	1.58	1.33	1.27	1.12	1.22	1.11	1.20	1.14	1.23	1.30	1.29	1.22		
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	NE138-NO13	1.46	1.23	PT345	1.46	1.17	1.33	1.23	1.37	1.22	1.31	1.20	1.39	1.22	1.20	1.13	1.20	1.10	1.22	1.12	1.34	1.23	1.33	1.20		
Case5_basNo Fault			40	0	500	LM345-PLVA	1.12	1.12	ED345	1.10	1.10	1.09	1.09	1.11	1.11	1.08	1.08	1.12	1.12	1.08	1.08	1.08	1.08	1.07	1.07	1.08	1.08	1.07	1.07		
Case5_F1.3 Phase		Plumtree	40	0	500	LM345-PLVA	1.34	1.24	PT345	1.34	1.19	1.30	1.20	1.28	1.24	1.20	1.17	1.29	1.24	1.24	1.14	1.19	1.12	1.20	1.17	1.32	1.19	1.23	1.18		
Case5_F2.3 Phase		East Devon	40	0	500	LM345-PLVA	1.56	1.37	ED345	1.40	1.24	1.36	1.24	1.55	1.37	1.29	1.18	1.56	1.37	1.21	1.22	1.24	1.22	1.22	1.16	1.31	1.23	1.26	1.20		
Case5_F3.1 Phase		East Devon	40	0	500	LM345-PLVA	1.28	1.16	STONY	1.23	1.12	1.25	1.11	1.23	1.14	1.26	1.09	1.26	1.16	1.17	1.08	1.22	1.08	1.17	1.07	1.28	1.11	1.27	1.09		
Case5_F4.3 Phase		Norwalk Junction	40	0	500	LM345-PLVA	1.64	1.47	NW345	1.25	1.21	1.33	1.24	1.64	1.47	1.26	1.24	1.58	1.46	1.21	1.20	1.20	1.12	1.16	1.16	1.32	1.23	1.24	1.20		
Case5_F5.3 Phase		Singer	40	0	500	LM345-PLVA	1.54	1.54	ED345	1.40	1.43	1.39	1.43	1.52	1.53	1.28	1.28	1.54	1.54	1.30	1.23	1.19	1.18	1.22	1.22	1.37	1.45	1.32	1.42		
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	LM345-PLVA	1.50	1.42	NW345	1.39	1.34	1.39	1.28	1.50	1.41	1.24	1.21	1.50	1.42	1.21	1.13	1.20	1.11	1.20	1.12	1.36	1.24	1.32	1.25		
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	LM345-PLVA	1.37	1.25	PT345	1.37	1.20	1.31	1.22	1.26	1.24	1.16	1.17	1.28	1.25	1.20	1.14	1.18	1.09	1.22	1.13	1.28	1.19	1.28	1.17		

CASE #: 5B - Case 5 (old) + 5 Miles of Cable

DATE: 12/07/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																							
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY					
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_basNo Fault			50	302	690				1.07	1.07	ED345	1.06	1.06	1.05	1.05	1.07	1.07	1.05	1.05	1.07	1.07	1.07	1.07	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Case5_F1.3 Phase	Plumtree		50	302	690				1.26	1.27	STONY	1.25	1.14	1.19	1.19	1.19	1.12	1.12	1.09	1.17	1.14	1.19	1.15	1.14	1.09	1.22	1.12	1.26	1.27	1.18	1.18	1.18	1.18
Case5_F2.3 Phase	East Devon		50	302	690				1.51	1.26	NW345	1.30	1.23	1.19	1.15	1.51	1.25	1.20	1.12	1.47	1.26	1.27	1.20	1.17	1.15	1.17	1.16	1.24	1.20	1.19	1.13	1.13	1.05
Case5_F3.1 Phase	East Devon		50	302	690				1.27	1.09	ED345	1.15	1.09	1.11	1.07	1.25	1.09	1.16	1.06	1.27	1.09	1.15	1.09	1.12	1.06	1.11	1.06	1.15	1.06	1.13	1.05	1.05	1.05
Case5_F4.3 Phase	Norwalk Junction		50	302	690				1.56	1.41	STONY	1.39	1.22	1.29	1.21	1.48	1.41	1.28	1.25	1.46	1.37	1.23	1.17	1.18	1.22	1.17	1.17	1.56	1.19	1.40	1.18	1.18	1.18
Case5_F5.3 Phase	Singer		50	302	690				1.53	1.47	NW345	1.42	1.34	1.26	1.27	1.53	1.47	1.30	1.35	1.48	1.45	1.27	1.30	1.30	1.38	1.19	1.23	1.34	1.38	1.27	1.30	1.30	1.30
Case5_F6.3 Phase Bt	Norwalk 345		50	302	690				1.55	1.39	NW345	1.38	1.26	1.24	1.26	1.55	1.36	1.26	1.29	1.50	1.39	1.30	1.25	1.26	1.33	1.19	1.18	1.28	1.20	1.22	1.21	1.21	1.21
Case5_F7.3 Phase Bt	Plumtree 345		50	302	690				1.45	1.28	PT345	1.45	1.19	1.34	1.21	1.35	1.22	1.17	1.09	1.33	1.22	1.14	1.13	1.17	1.12	1.09	1.10	1.43	1.28	1.28	1.19	1.19	1.19
Case5_basNo Fault			50	302	690	PT345-LM34	1.08	1.08	ED345			1.07	1.07	1.06	1.06	1.08	1.08	1.05	1.05	1.08	1.08	1.06	1.06	1.06	1.06	1.05	1.05	1.06	1.06	1.05	1.05	1.05	1.05
Case5_F2.3 Phase	East Devon		50	302	690	PT345-LM34	1.46	1.27	NW345			1.35	1.24	1.27	1.20	1.46	1.27	1.26	1.18	1.41	1.27	1.23	1.13	1.20	1.12	1.22	1.14	1.27	1.19	1.30	1.16	1.16	1.16
Case5_F3.1 Phase	East Devon		50	302	690	PT345-LM34	1.30	1.12	ED345			1.26	1.09	1.20	1.07	1.28	1.10	1.27	1.06	1.30	1.11	1.18	1.12	1.19	1.07	1.13	1.05	1.18	1.07	1.15	1.06	1.06	1.06
Case5_F4.3 Phase	Norwalk Junction		50	302	690	PT345-LM34	1.56	1.31	NW345			1.15	1.21	1.15	1.21	1.56	1.31	1.26	1.17	1.54	1.30	1.20	1.15	1.19	1.10	1.09	1.09	1.14	1.21	1.08	1.14	1.14	1.14
Case5_F5.3 Phase	Singer		50	302	690	PT345-LM34	1.44	1.41	NW345			1.41	1.40	1.34	1.27	1.44	1.41	1.27	1.27	1.40	1.39	1.25	1.17	1.21	1.22	1.14	1.09	1.32	1.31	1.22	1.23	1.23	1.23
Case5_F6.3 Phase Bt	Norwalk 345		50	302	690	PT345-LM34	1.47	1.28	NW345			1.36	1.24	1.20	1.19	1.47	1.28	1.23	1.15	1.46	1.27	1.19	1.16	1.17	1.07	1.15	1.10	1.21	1.25	1.15	1.14	1.14	1.14
Case5_F7.3 Phase Bt	Plumtree 345		50	302	690	PT345-LM34	1.41	1.29	STONY			1.35	1.14	1.20	1.16	1.20	1.12	1.12	1.08	1.20	1.13	1.15	1.11	1.17	1.09	1.15	1.10	1.41	1.29	1.26	1.18	1.18	1.18
Case5_basNo Fault			50	302	690	BK345-ED34	1.08	1.08	ED345			1.06	1.06	1.05	1.05	1.07	1.07	1.05	1.05	1.08	1.08	1.05	1.05	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Case5_F1.3 Phase	Plumtree		50	302	690	BK345-ED34	1.41	1.25	PT345			1.41	1.25	1.25	1.20	1.33	1.23	1.22	1.17	1.34	1.24	1.22	1.18	1.18	1.12	1.27	1.12	1.41	1.24	1.35	1.20	1.20	1.20
Case5_F4.3 Phase	Norwalk Junction		50	302	690	BK345-ED34	1.69	1.34	NW345			1.37	1.13	1.41	1.12	1.69	1.34	1.33	1.23	1.68	1.33	1.18	1.13	1.23	1.17	1.35	1.09	1.54	1.15	1.44	1.12	1.12	1.12
Case5_F5.3 Phase	Singer		50	302	690	BK345-ED34	1.50	1.38	NW345			1.38	1.25	1.25	1.20	1.50	1.37	1.24	1.24	1.49	1.38	1.29	1.15	1.24	1.08	1.15	1.09	1.32	1.31	1.27	1.20	1.20	1.20
Case5_F6.3 Phase Bt	Norwalk 345		50	302	690	BK345-ED34	1.61	1.29	ED345			1.29	1.18	1.20	1.22	1.60	1.29	1.28	1.15	1.61	1.28	1.23	1.13	1.24	1.08	1.15	1.09	1.29	1.20	1.23	1.13	1.13	1.13
Case5_F7.3 Phase Bt	Plumtree 345		50	302	690	BK345-ED34	1.41	1.26	ED345			1.39	1.16	1.26	1.17	1.38	1.18	1.21	1.11	1.41	1.21	1.20	1.13	1.21	1.09	1.15	1.11	1.37	1.26	1.26	1.17	1.17	1.17
Case5_basNo Fault			50	302	690	NE138-NO13	1.07	1.07	ED345			1.05	1.06	1.05	1.05	1.07	1.07	1.06	1.06	1.07	1.07	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Case5_F1.3 Phase	Plumtree		50	302	690	NE138-NO13	1.27	1.24	PT345			1.27	1.12	1.21	1.13	1.20	1.11	1.18	1.11	1.19	1.12	1.19	1.14	1.18	1.11	1.19	1.11	1.27	1.14	1.22	1.15	1.15	1.15
Case5_F2.3 Phase	East Devon		50	302	690	NE138-NO13	1.33	1.17	NW345			1.24	1.17	1.18	1.14	1.33	1.16	1.21	1.12	1.29	1.13	1.24	1.16	1.17	1.11	1.13	1.13	1.18	1.15	1.17	1.12	1.12	1.12
Case5_F3.1 Phase	East Devon		50	302	690	NE138-NO13	1.23	1.08	ED345			1.14	1.07	1.12	1.06	1.21	1.07	1.21	1.07	1.23	1.08	1.14	1.07	1.13	1.06	1.12	1.05	1.14	1.05	1.13	1.06	1.06	1.06
Case5_F4.3 Phase	Norwalk Junction		50	302	690	NE138-NO13	1.47	1.24	STONY			1.33	1.24	1.23	1.15	1.33	1.21	1.23	1.19	1.29	1.20	1.21	1.19	1.13	1.13	1.16	1.16	1.47	1.17	1.32	1.16	1.16	1.16
Case5_F5.3 Phase	Singer		50	302	690	NE138-NO13	1.41	1.33	NW345			1.30	1.19	1.23	1.17	1.41	1.32	1.30	1.25	1.39	1.31	1.24	1.15	1.20	1.24	1.19	1.15	1.25	1.33	1.19	1.19	1.19	1.19
Case5_F6.3 Phase Bt	Norwalk 345		50	302	690	NE138-NO13	1.48	1.22	NW345			1.25	1.15	1.16	1.19	1.48	1.22	1.42	1.19	1.46	1.21	1.22	1.15	1.18	1.14	1.12	1.11	1.18	1.21	1.14	1.16	1.16	1.16
Case5_F7.3 Phase Bt	Plumtree 345		50	302	690	NE138-NO13	1.40	1.23	STONY			1.32	1.11	1.24	1.17	1.27	1.12	1.23	1.11	1.26	1.14	1.19	1.13	1.17	1.10	1.12	1.10	1.40	1.23	1.23	1.16	1.16	1.16
Case5_basNo Fault			50	302	690	LM345-PLVA	1.09	1.09	ED345			1.08	1.08	1.07	1.07	1.08	1.08	1.06	1.06	1.09	1.09	1.07	1.07	1.07	1.07	1.06	1.06	1.07	1.07	1.06	1.06	1.06	1.06
Case5_F1.3 Phase	Plumtree		50	302	690	LM345-PLVA	1.29	1.26	PT345			1.29	1.18	1.24	1.14	1.18	1.13	1.12	1.08	1.18	1.14	1.20	1.14	1.15	1.11	1.26	1.15	1.20	1.26	1.16	1.20	1.20	1.20
Case5_F2.3 Phase	East Devon		50	302	690	LM345-PLVA	1.51	1.24	NW345			1.39	1.18	1.22	1.16	1.51	1.24	1.19	1.13	1.49	1.21	1.39	1.17	1.18	1.13	1.19	1.13	1.34	1.17	1.21	1.17	1.17	1.17
Case5_F3.1 Phase	East Devon		50	302	690	LM345-PLVA	1.25	1.10	NW115			1.15	1.09	1.12	1.07	1.16	1.09	1.25	1.06	1.16	1.10	1.13	1.08	1.17	1.06	1.12	1.06	1.11	1.07	1.11	1.06	1.06	1.06
Case5_F4.3 Phase	Norwalk Junction		50	302	690	LM345-PLVA	1.42	1.35	NW345			1.39	1.23	1.31	1.22	1.42	1.35	1.25	1.23	1.39	1.33	1.21	1.20	1.22	1.18	1.23	1.16	1.39	1.32	1.27	1.26	1.26	1.26
Case5_F5.3 Phase	Singer		50	302	690	LM345-PLVA	1.43	1.40	ED345			1.38	1.33	1.31	1.22	1.42	1.38	1.27	1.27	1.43	1.40	1.27	1.20	1.30	1.28	1.18	1.14	1.28	1.34	1.23	1.23	1.23	1.23
Case5_F6.3 Phase Bt	Norwalk 345		50	302	690	LM345-PLVA	1.39	1.31	NW345																								

CASE #: 5B - Case 5 (old) + 5 Miles of Cable

DATE: 12/07/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C
Case5_bas	No Fault		70	1249	900				1.10	1.10	FB115	1.06	1.06	1.07	1.07	1.06	1.06	1.05	1.05	1.07	1.07	1.08	1.08	1.10	1.10	1.10	1.10	1.08	1.08	1.09	1.09	
Case5_F1.3	Phase Plumtree		70	1249	900				1.34	1.48	ROCKY	1.24	1.23	1.17	1.24	1.17	1.11	1.09	1.06	1.17	1.11	1.26	1.15	1.22	1.13	1.19	1.19	1.25	1.21	1.34	1.48	
Case5_F2.3	Phase East Devon		70	1249	900				1.39	1.37	NW345	1.23	1.15	1.19	1.12	1.39	1.26	1.13	1.10	1.36	1.24	1.24	1.23	1.28	1.15	1.21	1.18	1.21	1.12	1.36	1.37	
Case5_F3.1	Phase East Devon		70	1249	900				1.21	1.11	ED345	1.12	1.07	1.10	1.07	1.18	1.07	1.16	1.05	1.21	1.07	1.17	1.11	1.19	1.10	1.18	1.10	1.11	1.07	1.17	1.09	
Case5_F4.3	Phase Norwalk Junction		70	1249	900				1.54	1.44	ROCKY	1.32	1.20	1.22	1.15	1.40	1.34	1.16	1.14	1.39	1.33	1.37	1.20	1.30	1.17	1.24	1.22	1.36	1.21	1.54	1.44	
Case5_F5.3	Phase Singer		70	1249	900				1.47	1.48	ROCKY	1.33	1.21	1.32	1.25	1.44	1.34	1.26	1.19	1.39	1.29	1.34	1.18	1.28	1.20	1.20	1.16	1.30	1.23	1.47	1.48	
Case5_F6.3	Phase Bt Norwalk 345		70	1249	900				1.57	1.45	ROCKY	1.26	1.19	1.27	1.22	1.43	1.26	1.28	1.19	1.43	1.25	1.18	1.19	1.24	1.12	1.21	1.11	1.22	1.24	1.57	1.45	
Case5_F7.3	Phase Bt Plumtree 345		70	1249	900				1.56	1.56	ROCKY	1.30	1.20	1.19	1.20	1.23	1.16	1.11	1.11	1.24	1.15	1.17	1.15	1.25	1.13	1.19	1.15	1.26	1.24	1.56	1.56	
Case5_bas	No Fault		70	1249	900	PT345-LM34	1.10	1.10	FB115			1.06	1.06	1.07	1.07	1.07	1.05	1.05	1.07	1.07	1.07	1.07	1.07	1.09	1.09	1.10	1.10	1.08	1.08	1.09	1.09	
Case5_F2.3	Phase East Devon		70	1249	900	PT345-LM34	1.40	1.25	NW345			1.29	1.19	1.15	1.13	1.40	1.20	1.18	1.12	1.32	1.18	1.22	1.16	1.19	1.18	1.18	1.14	1.16	1.16	1.25	1.25	
Case5_F3.1	Phase East Devon		70	1249	900	PT345-LM34	1.16	1.11	PT345			1.16	1.06	1.13	1.07	1.14	1.06	1.09	1.04	1.15	1.07	1.15	1.11	1.13	1.08	1.12	1.09	1.14	1.07	1.13	1.08	
Case5_F4.3	Phase Norwalk Junction		70	1249	900	PT345-LM34	1.75	1.65	ROCKY			1.29	1.15	1.29	1.15	1.50	1.21	1.22	1.08	1.38	1.22	1.26	1.17	1.22	1.11	1.14	1.14	1.34	1.14	1.75	1.65	
Case5_F5.3	Phase Singer		70	1249	900	PT345-LM34	1.46	1.39	ROCKY			1.32	1.27	1.34	1.23	1.33	1.22	1.18	1.12	1.37	1.20	1.22	1.20	1.18	1.08	1.19	1.11	1.30	1.24	1.46	1.39	
Case5_F6.3	Phase Bt Norwalk 345		70	1249	900	PT345-LM34	1.35	1.38	ROCKY			1.35	1.24	1.27	1.28	1.34	1.18	1.16	1.08	1.33	1.16	1.24	1.18	1.22	1.12	1.21	1.11	1.24	1.27	1.33	1.38	
Case5_F7.3	Phase Bt Plumtree 345		70	1249	900	PT345-LM34	1.60	1.48	ROCKY			1.30	1.16	1.20	1.19	1.14	1.06	1.09	1.06	1.15	1.09	1.20	1.11	1.24	1.12	1.20	1.14	1.20	1.17	1.60	1.48	
Case5_bas	No Fault		70	1249	900	BK345-ED34	1.10	1.10	FB115			1.05	1.05	1.07	1.07	1.06	1.06	1.05	1.05	1.06	1.06	1.06	1.07	1.07	1.09	1.09	1.10	1.10	1.07	1.07	1.09	1.09
Case5_F1.3	Phase Plumtree		70	1249	900	BK345-ED34	1.39	1.46	ROCKY			1.33	1.18	1.19	1.17	1.24	1.14	1.14	1.11	1.24	1.15	1.27	1.20	1.18	1.13	1.18	1.21	1.33	1.17	1.39	1.46	
Case5_F4.3	Phase Norwalk Junction		70	1249	900	BK345-ED34	1.61	1.41	ROCKY			1.44	1.21	1.28	1.17	1.34	1.21	1.22	1.13	1.32	1.20	1.27	1.15	1.25	1.18	1.17	1.20	1.37	1.24	1.61	1.41	
Case5_F5.3	Phase Singer		70	1249	900	BK345-ED34	1.41	1.33	NW345			1.33	1.16	1.22	1.18	1.41	1.23	1.18	1.14	1.37	1.22	1.23	1.17	1.27	1.10	1.19	1.10	1.29	1.17	1.33	1.33	
Case5_F6.3	Phase Bt Norwalk 345		70	1249	900	BK345-ED34	1.49	1.34	ED345			1.26	1.12	1.16	1.18	1.47	1.15	1.23	1.09	1.49	1.16	1.19	1.15	1.27	1.12	1.20	1.13	1.26	1.16	1.47	1.34	
Case5_F7.3	Phase Bt Plumtree 345		70	1249	900	BK345-ED34	1.33	1.50	ROCKY			1.23	1.14	1.15	1.18	1.20	1.08	1.12	1.05	1.20	1.11	1.19	1.14	1.23	1.12	1.20	1.18	1.32	1.21	1.33	1.50	
Case5_bas	No Fault		70	1249	900	NE138-NO13	1.09	1.09	FB115			1.05	1.05	1.06	1.06	1.05	1.05	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.09	1.09	1.09	1.07	1.07	1.08	1.08
Case5_F1.3	Phase Plumtree		70	1249	900	NE138-NO13	1.39	1.47	ROCKY			1.25	1.13	1.19	1.20	1.13	1.09	1.10	1.10	1.15	1.09	1.17	1.10	1.16	1.10	1.16	1.13	1.36	1.21	1.39	1.47	
Case5_F2.3	Phase East Devon		70	1249	900	NE138-NO13	1.25	1.23	BK345			1.16	1.13	1.13	1.10	1.17	1.11	1.14	1.11	1.19	1.11	1.25	1.23	1.18	1.13	1.16	1.12	1.15	1.09	1.21	1.20	
Case5_F3.1	Phase East Devon		70	1249	900	NE138-NO13	1.22	1.09	ED345			1.09	1.05	1.09	1.06	1.19	1.05	1.20	1.05	1.22	1.05	1.13	1.09	1.15	1.08	1.13	1.09	1.10	1.06	1.14	1.07	
Case5_F4.3	Phase Norwalk Junction		70	1249	900	NE138-NO13	1.50	1.37	ROCKY			1.42	1.17	1.25	1.14	1.26	1.12	1.16	1.13	1.21	1.13	1.22	1.19	1.16	1.16	1.18	1.16	1.41	1.19	1.50	1.37	
Case5_F5.3	Phase Singer		70	1249	900	NE138-NO13	1.40	1.35	ROCKY			1.16	1.10	1.18	1.19	1.31	1.14	1.33	1.16	1.30	1.12	1.20	1.13	1.22	1.09	1.22	1.10	1.15	1.18	1.40	1.35	
Case5_F6.3	Phase Bt Norwalk 345		70	1249	900	NE138-NO13	1.47	1.34	ROCKY			1.19	1.08	1.17	1.16	1.28	1.10	1.30	1.12	1.27	1.09	1.21	1.14	1.26	1.11	1.24	1.10	1.17	1.16	1.47	1.34	
Case5_F7.3	Phase Bt Plumtree 345		70	1249	900	NE138-NO13	1.58	1.55	ROCKY			1.21	1.18	1.18	1.18	1.14	1.07	1.12	1.08	1.14	1.07	1.18	1.13	1.26	1.10	1.21	1.13	1.20	1.20	1.58	1.55	
Case5_bas	No Fault		70	1249	900	LM345-PLVA	1.11	1.11	FB115			1.08	1.08	1.09	1.09	1.08	1.08	1.06	1.06	1.08	1.08	1.08	1.08	1.10	1.10	1.11	1.11	1.09	1.09	1.10	1.10	
Case5_F1.3	Phase Plumtree		70	1249	900	LM345-PLVA	1.58	1.41	ROCKY			1.32	1.23	1.20	1.29	1.21	1.09	1.10	1.08	1.22	1.12	1.20	1.13	1.19	1.13	1.25	1.22	1.32	1.26	1.58	1.41	
Case5_F2.3	Phase East Devon		70	1249	900	LM345-PLVA	1.26	1.30	ROCKY			1.21	1.16	1.13	1.14	1.25	1.17	1.16	1.13	1.22	1.16	1.26	1.19	1.19	1.14	1.25	1.18	1.18	1.13	1.23	1.30	
Case5_F3.1	Phase East Devon		70	1249	900	LM345-PLVA	1.15	1.10	BK345			1.11	1.08	1.11	1.08	1.11	1.08	1.07	1.05	1.12	1.08	1.15	1.09	1.12	1.09	1.13	1.10	1.10	1.08	1.12	1.10	
Case5_F4.3	Phase Norwalk Junction		70	1249	900	LM345-PLVA	1.47	1.39	ROCKY			1.35	1.21	1.26	1.21	1.34	1.29	1.13	1.10	1.33	1.31	1.27	1.18	1.16	1.14	1.21	1.20	1.34	1.24	1.47	1.39	
Case5_F5.3	Phase Singer		70	1249	900	LM345-PLVA	1.35	1.41	ROCKY			1.32	1.19	1.26	1.20	1.30	1.20	1.13	1.11	1.28	1.20	1.22	1.16	1.18	1.13	1.20	1.13	1.27	1.24	1.35	1.41	
Case5_F6.3	Phase Bt Norwalk 345		70	1249	900	LM345-PLVA	1.32	1.34	ROCKY			1.26	1.18	1.27	1.19	1.28	1.17	1.15	1.11	1.32	1.16	1.22	1.18	1.19	1.12	1.20	1.15	1.30	1.21	1.29	1.34	
Case5_F7.3	Phase Bt Plumtree 345		70	1249	900	LM345-PLVA	1.52	1.47	ROCKY			1.28	1.19	1.18	1.24	1.18	1.09	1.11	1.08	1.22	1.11	1.26	1.13	1.21	1.13	1.22	1.18	1.26	1.23	1.52	1.47	

CASE #: 5B - Case 5 (Old) + 5 Miles of Cable (GE 2C and 6C windows)

DATE: 12/15/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_basNo Fault			30	0	500				1.08	1.08	ED345	1.07	1.07	1.07	1.07	1.08	1.08	1.06	1.06	1.08	1.08	1.07	1.07	1.07	1.07	1.05	1.05	1.06	1.06	1.05	1.05
Case5_F1.3 Phase		Plumtree	30	0	500				1.32	1.21	NW345	1.26	1.20	1.24	1.19	1.32	1.19	1.25	1.12	1.31	1.18	1.15	1.14	1.15	1.13	1.16	1.14	1.25	1.21	1.25	1.17
Case5_F2.3 Phase		East Devon	30	0	500				1.56	1.32	NW345	1.40	1.26	1.31	1.24	1.56	1.30	1.35	1.26	1.55	1.32	1.31	1.18	1.29	1.24	1.22	1.17	1.30	1.23	1.27	1.21
Case5_F3.1 Phase		East Devon	30	0	500				1.10	1.09	ED345	1.09	1.07	1.10	1.07	1.10	1.08	1.07	1.06	1.10	1.09	1.07	1.06	1.07	1.06	1.06	1.05	1.09	1.06	1.08	1.06
Case5_F4.3 Phase		Norwalk Junction	30	0	500				1.67	1.51	NW345	1.28	1.25	1.30	1.29	1.67	1.51	1.45	1.34	1.65	1.51	1.40	1.33	1.35	1.31	1.26	1.18	1.29	1.28	1.33	1.27
Case5_F5.3 Phase		Singer	30	0	500				1.55	1.49	ED345	1.48	1.45	1.49	1.41	1.54	1.49	1.41	1.36	1.55	1.49	1.36	1.29	1.38	1.33	1.32	1.25	1.47	1.39	1.44	1.34
Case5_F6.3 Phase Bt		Norwalk 345	30	0	500				1.60	1.50	ED345	1.47	1.40	1.38	1.32	1.59	1.47	1.49	1.36	1.60	1.50	1.36	1.27	1.37	1.27	1.27	1.22	1.38	1.32	1.35	1.31
Case5_F7.3 Phase Bt		Plumtree 345	30	0	500				1.40	1.31	ROCKY	1.34	1.26	1.40	1.28	1.35	1.31	1.31	1.25	1.36	1.31	1.22	1.18	1.25	1.20	1.25	1.18	1.39	1.29	1.40	1.30
Case5_basNo Fault			30	0	500	PT345-LM34	1.09	1.09	ED345	1.09	1.09	1.08	1.08	1.09	1.09	1.07	1.07	1.07	1.07	1.09	1.09	1.07	1.07	1.07	1.05	1.05	1.08	1.08	1.06	1.06	
Case5_F2.3 Phase		East Devon	30	0	500	PT345-LM34	1.37	1.20	NW345	1.36	1.19	1.21	1.18	1.37	1.20	1.17	1.14	1.14	1.33	1.20	1.17	1.11	1.15	1.16	1.13	1.12	1.20	1.18	1.19	1.16	
Case5_F3.1 Phase		East Devon	30	0	500	PT345-LM34	1.14	1.12	PT115	1.14	1.12	1.14	1.10	1.13	1.12	1.09	1.08	1.13	1.12	1.08	1.06	1.08	1.07	1.08	1.05	1.14	1.09	1.13	1.08		
Case5_F4.3 Phase		Norwalk Junction	30	0	500	PT345-LM34	1.62	1.47	ED345	1.37	1.31	1.37	1.31	1.62	1.47	1.41	1.33	1.62	1.46	1.32	1.23	1.31	1.26	1.21	1.18	1.37	1.34	1.36	1.33		
Case5_F5.3 Phase		Singer	30	0	500	PT345-LM34	1.73	1.55	ED345	1.65	1.45	1.50	1.40	1.70	1.50	1.49	1.37	1.73	1.55	1.32	1.21	1.40	1.25	1.25	1.19	1.51	1.41	1.44	1.41		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	500	PT345-LM34	1.58	1.37	ED345	1.51	1.31	1.40	1.26	1.57	1.33	1.33	1.19	1.58	1.37	1.23	1.11	1.28	1.13	1.20	1.14	1.43	1.25	1.31	1.27		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	500	PT345-LM34	1.32	1.20	ED345	1.26	1.18	1.27	1.16	1.30	1.20	1.25	1.13	1.32	1.18	1.15	1.15	1.14	1.13	1.17	1.14	1.26	1.19	1.26	1.18		
Case5_basNo Fault			30	0	500	BK345-ED34	1.09	1.09	ED345	1.07	1.07	1.07	1.07	1.08	1.08	1.06	1.06	1.09	1.09	1.05	1.05	1.06	1.06	1.05	1.05	1.06	1.06	1.05	1.05		
Case5_F1.3 Phase		Plumtree	30	0	500	BK345-ED34	1.27	1.20	PT115	1.23	1.20	1.27	1.18	1.22	1.19	1.15	1.14	1.23	1.20	1.10	1.08	1.14	1.11	1.13	1.11	1.26	1.17	1.21	1.16		
Case5_F4.3 Phase		Norwalk Junction	30	0	500	BK345-ED34	1.50	1.26	NW345	1.17	1.14	1.17	1.17	1.50	1.26	1.21	1.12	1.50	1.25	1.11	1.11	1.14	1.09	1.10	1.07	1.17	1.16	1.15	1.13		
Case5_F5.3 Phase		Singer	30	0	500	BK345-ED34	1.66	1.49	ED345	1.51	1.40	1.41	1.35	1.64	1.46	1.47	1.34	1.66	1.49	1.19	1.11	1.30	1.26	1.24	1.17	1.41	1.34	1.37	1.29		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	500	BK345-ED34	1.53	1.35	ED345	1.37	1.24	1.26	1.17	1.52	1.34	1.38	1.22	1.53	1.35	1.14	1.11	1.20	1.14	1.15	1.13	1.27	1.17	1.23	1.17		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	500	BK345-ED34	1.43	1.28	ED345	1.28	1.21	1.27	1.24	1.41	1.28	1.31	1.20	1.43	1.26	1.15	1.10	1.16	1.14	1.14	1.10	1.25	1.26	1.25	1.21		
Case5_basNo Fault			30	0	500	NE138-NO13	1.09	1.09	ED345	1.07	1.07	1.07	1.07	1.08	1.08	1.08	1.08	1.09	1.09	1.07	1.07	1.07	1.07	1.06	1.06	1.07	1.07	1.06	1.06		
Case5_F1.3 Phase		Plumtree	30	0	500	NE138-NO13	1.29	1.18	PT115	1.18	1.17	1.29	1.18	1.20	1.12	1.22	1.12	1.21	1.13	1.14	1.13	1.11	1.12	1.17	1.13	1.28	1.18	1.25	1.18		
Case5_F2.3 Phase		East Devon	30	0	500	NE138-NO13	1.40	1.19	NW345	1.24	1.17	1.26	1.17	1.40	1.17	1.31	1.19	1.37	1.19	1.22	1.13	1.18	1.17	1.15	1.11	1.27	1.16	1.23	1.18		
Case5_F3.1 Phase		East Devon	30	0	500	NE138-NO13	1.10	1.10	ED345	1.08	1.08	1.08	1.08	1.10	1.09	1.09	1.09	1.10	1.10	1.08	1.06	1.07	1.07	1.07	1.05	1.08	1.07	1.07			
Case5_F4.3 Phase		Norwalk Junction	30	0	500	NE138-NO13	1.46	1.32	NW345	1.16	1.15	1.17	1.14	1.46	1.32	1.40	1.27	1.45	1.31	1.20	1.17	1.21	1.14	1.13	1.11	1.17	1.15	1.20	1.16		
Case5_F5.3 Phase		Singer	30	0	500	NE138-NO13	1.49	1.40	ED345	1.37	1.34	1.44	1.34	1.45	1.38	1.44	1.38	1.49	1.40	1.33	1.25	1.28	1.21	1.30	1.22	1.45	1.35	1.39	1.35		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	500	NE138-NO13	1.46	1.34	NW345	1.38	1.27	1.38	1.25	1.46	1.33	1.39	1.29	1.45	1.34	1.22	1.19	1.27	1.18	1.22	1.17	1.40	1.25	1.33	1.26		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	500	NE138-NO13	1.33	1.24	ED345	1.22	1.19	1.24	1.21	1.27	1.22	1.32	1.24	1.33	1.20	1.16	1.12	1.15	1.10	1.17	1.13	1.24	1.22	1.26	1.19		
Case5_basNo Fault			30	0	500	LM345-PLVA	1.10	1.10	ED345	1.09	1.09	1.09	1.09	1.10	1.10	1.08	1.08	1.10	1.10	1.08	1.08	1.08	1.08	1.07	1.07	1.08	1.08	1.07	1.07		
Case5_F1.3 Phase		Plumtree	30	0	500	LM345-PLVA	1.36	1.21	ED345	1.31	1.17	1.24	1.14	1.35	1.21	1.27	1.12	1.36	1.20	1.16	1.15	1.18	1.14	1.21	1.17	1.24	1.16	1.25	1.16		
Case5_F2.3 Phase		East Devon	30	0	500	LM345-PLVA	1.44	1.19	NW345	1.34	1.18	1.28	1.17	1.44	1.19	1.21	1.16	1.41	1.19	1.21	1.17	1.24	1.17	1.18	1.13	1.26	1.18	1.25	1.16		
Case5_F3.1 Phase		East Devon	30	0	500	LM345-PLVA	1.13	1.11	ED345	1.12	1.10	1.12	1.09	1.13	1.11	1.09	1.08	1.13	1.11	1.09	1.07	1.09	1.07	1.07	1.12	1.09	1.11	1.08			
Case5_F4.3 Phase		Norwalk Junction	30	0	500	LM345-PLVA	1.70	1.49	NW345	1.38	1.25	1.32	1.26	1.70	1.49	1.43	1.32	1.67	1.49	1.42	1.30	1.32	1.23	1.32	1.24	1.35	1.26	1.35	1.32		
Case5_F5.3 Phase		Singer	30	0	500	LM345-PLVA	1.73	1.53	ED345	1.57	1.45	1.54	1.39	1.69	1.48	1.49	1.38	1.73	1.53	1.36	1.25	1.40	1.29	1.32	1.21	1.51	1.36	1.47	1.33		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	500	LM345-PLVA	1.62	1.37	NW345	1.52	1.29	1.41	1.24	1.62	1.34	1.39	1.23	1.59	1.37	1.31	1.15	1.33	1.14	1.25	1.15	1.41	1.26	1.35	1.27		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	500	LM345-PLVA	1.38	1.24	ED345	1.30	1.19	1.31	1.17	1.37	1.24	1.30	1.18	1.38	1.22	1.18	1.12	1.18	1.14	1.20	1.15	1.31	1.17	1.31	1.19		

CASE #: 5B - Case 5 (Old) + 5 Miles of Cable (GE 2C and 6C windows)

DATE: 12/15/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_basNo Fault			40	0	500				1.07	1.07	ED345	1.06	1.06	1.05	1.05	1.06	1.06	1.05	1.05	1.07	1.07	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04
Case5_F1.3 Phase	Plumtree		40	0	500				1.28	1.18	NW345	1.23	1.16	1.20	1.17	1.28	1.17	1.24	1.09	1.27	1.16	1.12	1.12	1.11	1.10	1.12	1.10	1.20	1.18	1.18	1.15
Case5_F2.3 Phase	East Devon		40	0	500				1.51	1.29	ED345	1.34	1.25	1.33	1.22	1.50	1.27	1.32	1.21	1.51	1.29	1.25	1.12	1.23	1.17	1.20	1.15	1.30	1.21	1.27	1.18
Case5_F3.1 Phase	East Devon		40	0	500				1.09	1.07	NW345	1.07	1.06	1.07	1.05	1.09	1.07	1.06	1.05	1.09	1.07	1.06	1.05	1.05	1.05	1.04	1.03	1.07	1.04	1.07	1.04
Case5_F4.3 Phase	Norwalk Junction		40	0	500				1.56	1.43	ED345	1.22	1.23	1.24	1.23	1.56	1.43	1.37	1.29	1.56	1.43	1.32	1.26	1.26	1.23	1.19	1.13	1.25	1.21	1.25	1.21
Case5_F5.3 Phase	Singer		40	0	500				1.47	1.42	ED345	1.41	1.38	1.40	1.33	1.47	1.41	1.34	1.31	1.47	1.42	1.30	1.23	1.31	1.26	1.25	1.20	1.40	1.32	1.34	1.27
Case5_F6.3 Phase Bt	Norwalk 345		40	0	500				1.53	1.42	ED345	1.41	1.34	1.32	1.27	1.52	1.40	1.43	1.29	1.53	1.42	1.30	1.22	1.30	1.21	1.23	1.17	1.31	1.26	1.27	1.24
Case5_F7.3 Phase Bt	Plumtree 345		40	0	500				1.31	1.26	ED345	1.28	1.21	1.28	1.23	1.30	1.25	1.24	1.17	1.31	1.26	1.17	1.14	1.19	1.15	1.16	1.13	1.29	1.22	1.26	1.22
Case5_basNo Fault			40	0	500	PT345-LM34	1.08	1.08	ED345	1.07	1.07	1.06	1.06	1.07	1.07	1.05	1.05	1.08	1.08	1.06	1.06	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.05	1.04	1.04
Case5_F2.3 Phase	East Devon		40	0	500	PT345-LM34	1.32	1.14	NW345	1.28	1.14	1.13	1.12	1.32	1.13	1.11	1.09	1.28	1.13	1.12	1.08	1.12	1.11	1.09	1.09	1.13	1.12	1.13	1.12	1.13	1.11
Case5_F3.1 Phase	East Devon		40	0	500	PT345-LM34	1.10	1.10	ED345	1.09	1.09	1.08	1.07	1.10	1.09	1.06	1.06	1.10	1.10	1.06	1.04	1.05	1.05	1.04	1.03	1.08	1.06	1.07	1.05	1.05	1.05
Case5_F4.3 Phase	Norwalk Junction		40	0	500	PT345-LM34	1.53	1.38	ED345	1.29	1.21	1.29	1.21	1.53	1.38	1.33	1.24	1.53	1.38	1.27	1.16	1.22	1.20	1.14	1.13	1.26	1.25	1.27	1.29	1.29	1.29
Case5_F5.3 Phase	Singer		40	0	500	PT345-LM34	1.65	1.48	ED345	1.54	1.40	1.41	1.32	1.62	1.45	1.44	1.30	1.65	1.48	1.30	1.19	1.33	1.18	1.21	1.12	1.42	1.32	1.32	1.30	1.30	
Case5_F6.3 Phase Bt	Norwalk 345		40	0	500	PT345-LM34	1.54	1.36	ED345	1.45	1.28	1.33	1.22	1.53	1.31	1.32	1.17	1.54	1.36	1.20	1.09	1.25	1.11	1.16	1.10	1.32	1.23	1.29	1.20	1.20	
Case5_F7.3 Phase Bt	Plumtree 345		40	0	500	PT345-LM34	1.27	1.18	ED345	1.21	1.17	1.21	1.13	1.26	1.18	1.22	1.10	1.27	1.17	1.12	1.13	1.09	1.09	1.12	1.11	1.21	1.13	1.18	1.18	1.14	
Case5_basNo Fault			40	0	500	BK345-ED34	1.07	1.07	ED345	1.06	1.06	1.05	1.05	1.07	1.07	1.05	1.05	1.07	1.07	1.04	1.04	1.05	1.05	1.03	1.03	1.04	1.04	1.04	1.04	1.04	1.04
Case5_F1.3 Phase	Plumtree		40	0	500	BK345-ED34	1.20	1.14	PT115	1.17	1.14	1.20	1.14	1.16	1.13	1.10	1.10	1.18	1.14	1.08	1.06	1.10	1.08	1.09	1.08	1.17	1.13	1.16	1.12	1.12	
Case5_F4.3 Phase	Norwalk Junction		40	0	500	BK345-ED34	1.43	1.21	ED345	1.12	1.12	1.14	1.14	1.43	1.21	1.14	1.10	1.43	1.20	1.10	1.10	1.08	1.07	1.07	1.06	1.13	1.13	1.12	1.10	1.10	
Case5_F5.3 Phase	Singer		40	0	500	BK345-ED34	1.56	1.40	ED345	1.45	1.35	1.37	1.29	1.54	1.39	1.38	1.26	1.56	1.40	1.14	1.08	1.22	1.20	1.19	1.12	1.37	1.27	1.29	1.22	1.22	
Case5_F6.3 Phase Bt	Norwalk 345		40	0	500	BK345-ED34	1.47	1.32	ED345	1.31	1.23	1.24	1.18	1.45	1.30	1.32	1.20	1.47	1.32	1.11	1.09	1.16	1.11	1.12	1.09	1.22	1.15	1.18	1.15	1.15	
Case5_F7.3 Phase Bt	Plumtree 345		40	0	500	BK345-ED34	1.37	1.25	ED345	1.26	1.20	1.23	1.21	1.34	1.25	1.26	1.17	1.37	1.23	1.13	1.07	1.13	1.10	1.10	1.07	1.21	1.22	1.16	1.16	1.16	
Case5_basNo Fault			40	0	500	NE138-NO13	1.07	1.07	ED345	1.05	1.05	1.05	1.05	1.06	1.06	1.06	1.06	1.07	1.07	1.05	1.05	1.05	1.05	1.05	1.03	1.03	1.05	1.05	1.04	1.04	1.04
Case5_F1.3 Phase	Plumtree		40	0	500	NE138-NO13	1.19	1.15	PT115	1.14	1.13	1.19	1.15	1.15	1.08	1.14	1.06	1.16	1.08	1.11	1.10	1.07	1.08	1.08	1.09	1.19	1.14	1.18	1.14	1.14	
Case5_F2.3 Phase	East Devon		40	0	500	NE138-NO13	1.28	1.14	NW345	1.17	1.14	1.24	1.13	1.28	1.10	1.24	1.12	1.27	1.13	1.12	1.10	1.11	1.11	1.11	1.06	1.23	1.13	1.17	1.13	1.13	
Case5_F3.1 Phase	East Devon		40	0	500	NE138-NO13	1.07	1.07	ED345	1.06	1.05	1.05	1.05	1.07	1.07	1.06	1.06	1.07	1.07	1.05	1.04	1.05	1.05	1.03	1.03	1.05	1.04	1.04	1.04	1.04	1.04
Case5_F4.3 Phase	Norwalk Junction		40	0	500	NE138-NO13	1.37	1.25	ED345	1.13	1.12	1.10	1.10	1.37	1.24	1.27	1.19	1.37	1.25	1.16	1.13	1.14	1.09	1.07	1.06	1.11	1.08	1.12	1.11	1.11	
Case5_F5.3 Phase	Singer		40	0	500	NE138-NO13	1.41	1.31	ED345	1.31	1.28	1.36	1.25	1.38	1.31	1.34	1.28	1.41	1.29	1.23	1.18	1.20	1.14	1.20	1.14	1.36	1.25	1.33	1.24	1.24	
Case5_F6.3 Phase Bt	Norwalk 345		40	0	500	NE138-NO13	1.37	1.27	ED345	1.31	1.22	1.31	1.21	1.36	1.26	1.32	1.23	1.37	1.27	1.19	1.14	1.20	1.12	1.18	1.10	1.28	1.18	1.24	1.19	1.19	
Case5_F7.3 Phase Bt	Plumtree 345		40	0	500	NE138-NO13	1.26	1.17	ED345	1.19	1.15	1.20	1.15	1.22	1.17	1.22	1.16	1.26	1.17	1.13	1.08	1.10	1.07	1.12	1.10	1.18	1.17	1.17	1.16	1.16	
Case5_basNo Fault			40	0	500	LM345-PLVA	1.08	1.08	ED345	1.07	1.07	1.06	1.06	1.08	1.08	1.05	1.05	1.08	1.08	1.06	1.06	1.06	1.06	1.04	1.04	1.06	1.06	1.05	1.05	1.05	
Case5_F1.3 Phase	Plumtree		40	0	500	LM345-PLVA	1.29	1.16	NW345	1.22	1.13	1.19	1.12	1.29	1.16	1.19	1.07	1.28	1.15	1.13	1.11	1.13	1.10	1.13	1.13	1.19	1.11	1.17	1.12	1.12	
Case5_F2.3 Phase	East Devon		40	0	500	LM345-PLVA	1.39	1.16	NW345	1.28	1.14	1.24	1.13	1.39	1.16	1.16	1.11	1.36	1.15	1.14	1.12	1.15	1.12	1.12	1.08	1.22	1.10	1.16	1.13	1.13	
Case5_F3.1 Phase	East Devon		40	0	500	LM345-PLVA	1.10	1.09	ED345	1.08	1.08	1.07	1.06	1.09	1.08	1.06	1.10	1.09	1.06	1.05	1.05	1.05	1.05	1.04	1.07	1.06	1.06	1.05	1.05	1.05	
Case5_F4.3 Phase	Norwalk Junction		40	0	500	LM345-PLVA	1.58	1.41	NW345	1.31	1.19	1.25	1.20	1.58	1.40	1.34	1.26	1.58	1.41	1.35	1.25	1.27	1.19	1.26	1.19	1.25	1.21	1.25	1.25	1.26	
Case5_F5.3 Phase	Singer		40	0	500	LM345-PLVA	1.63	1.44	ED345	1.50	1.39	1.47	1.34	1.59	1.42	1.42	1.29	1.63	1.44	1.30	1.21	1.31	1.22	1.26	1.17	1.47	1.29	1.41	1.29	1.29	
Case5_F6.3 Phase Bt	Norwalk 345		40	0	500	LM345-PLVA	1.55	1.33	NW345	1.45	1.24	1.32	1.23	1.55	1.30	1.36	1.19	1.54	1.33	1.26	1.12	1.26	1.10	1.18	1.10	1.32	1.22	1.26	1.23	1.23	
Case5_F7.3 Phase Bt	Plumtree 345		40	0	500	LM345-PLVA	1.32	1.21	NW345	1.26	1.16	1.21	1.13	1.32	1.21	1.25	1.13	1.31	1.20	1.15	1.09	1.14	1.11	1.16	1.12	1.19	1.13	1.18	1.15	1.15	

CASE #: 5B - Case 5 (Old) + 5 Miles of Cable (GE 2C and 6C windows)

DATE: 12/15/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		50	302	690				1.05	1.05	ED345	1.04	1.04	1.04	1.04	1.05	1.05	1.04	1.04	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.03	1.03
Case5_F1_3	Phase Plumtree		50	302	690				1.25	1.20	STONY	1.15	1.07	1.18	1.12	1.18	1.08	1.08	1.06	1.18	1.08	1.16	1.10	1.06	1.06	1.11	1.07	1.25	1.20	1.18	1.11
Case5_F2_3	Phase East Devon		50	302	690				1.38	1.21	ED345	1.25	1.12	1.16	1.13	1.38	1.18	1.22	1.10	1.38	1.21	1.16	1.10	1.20	1.08	1.19	1.13	1.26	1.15	1.19	1.11
Case5_F3_1	Phase East Devon		50	302	690				1.09	1.05	BK345	1.05	1.04	1.04	1.03	1.05	1.04	1.04	1.03	1.05	1.05	1.09	1.05	1.04	1.04	1.04	1.03	1.04	1.03	1.04	1.03
Case5_F4_3	Phase Norwalk Junction		50	302	690				1.46	1.32	NW345	1.16	1.16	1.25	1.19	1.46	1.32	1.36	1.22	1.46	1.32	1.28	1.20	1.32	1.19	1.17	1.11	1.19	1.16	1.16	1.13
Case5_F5_3	Phase Singer		50	302	690				1.44	1.35	ED345	1.36	1.26	1.28	1.27	1.44	1.34	1.31	1.22	1.44	1.35	1.34	1.20	1.35	1.19	1.16	1.12	1.32	1.25	1.26	1.20
Case5_F6_3	Phase Bt Norwalk 345		50	302	690				1.44	1.31	ED345	1.33	1.21	1.32	1.20	1.43	1.29	1.34	1.20	1.44	1.31	1.32	1.17	1.38	1.16	1.18	1.09	1.23	1.20	1.18	1.16
Case5_F7_3	Phase Bt Plumtree 345		50	302	690				1.25	1.24	ED345	1.23	1.17	1.25	1.24	1.24	1.18	1.15	1.11	1.25	1.17	1.14	1.08	1.13	1.12	1.10	1.08	1.24	1.22	1.16	1.15
Case5_bas	No Fault		50	302	690	PT345-LM34	1.05	1.05	ED345	1.04	1.04	1.04	1.04	1.05	1.05	1.03	1.03	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.03	1.03
Case5_F2_3	Phase East Devon		50	302	690	PT345-LM34	1.18	1.09	NW345	1.17	1.06	1.08	1.06	1.18	1.06	1.06	1.05	1.17	1.06	1.14	1.08	1.07	1.05	1.09	1.08	1.14	1.09	1.09	1.09	1.07	
Case5_F3_1	Phase East Devon		50	302	690	PT345-LM34	1.10	1.06	BK345	1.04	1.03	1.03	1.03	1.04	1.04	1.02	1.02	1.04	1.04	1.10	1.06	1.04	1.04	1.03	1.03	1.03	1.03	1.02	1.02	1.02	
Case5_F4_3	Phase Norwalk Junction		50	302	690	PT345-LM34	1.42	1.29	NW345	1.24	1.18	1.23	1.17	1.42	1.28	1.28	1.18	1.40	1.29	1.21	1.10	1.19	1.09	1.15	1.11	1.17	1.19	1.17	1.17	1.16	
Case5_F5_3	Phase Singer		50	302	690	PT345-LM34	1.48	1.30	NW345	1.44	1.26	1.40	1.23	1.48	1.30	1.30	1.15	1.45	1.30	1.28	1.15	1.25	1.14	1.15	1.06	1.43	1.23	1.27	1.15		
Case5_F6_3	Phase Bt Norwalk 345		50	302	690	PT345-LM34	1.41	1.20	NW345	1.35	1.17	1.37	1.14	1.41	1.20	1.28	1.09	1.36	1.20	1.17	1.07	1.17	1.06	1.08	1.07	1.29	1.13	1.20	1.10		
Case5_F7_3	Phase Bt Plumtree 345		50	302	690	PT345-LM34	1.30	1.20	STONY	1.19	1.08	1.20	1.14	1.17	1.07	1.07	1.05	1.15	1.06	1.11	1.08	1.05	1.05	1.08	1.06	1.30	1.20	1.18	1.13		
Case5_bas	No Fault		50	302	690	BK345-ED34	1.04	1.04	BK345	1.03	1.03	1.03	1.03	1.04	1.04	1.03	1.03	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.03	1.03	1.03	
Case5_F1_3	Phase Plumtree		50	302	690	BK345-ED34	1.16	1.12	BK345	1.06	1.06	1.10	1.12	1.06	1.05	1.06	1.05	1.07	1.06	1.16	1.08	1.06	1.04	1.05	1.05	1.16	1.10	1.09	1.07		
Case5_F4_3	Phase Norwalk Junction		50	302	690	BK345-ED34	1.31	1.15	NW345	1.12	1.10	1.10	1.10	1.31	1.11	1.11	1.05	1.29	1.11	1.11	1.10	1.07	1.07	1.09	1.07	1.16	1.15	1.11	1.13		
Case5_F5_3	Phase Singer		50	302	690	BK345-ED34	1.49	1.31	ED345	1.34	1.20	1.27	1.21	1.46	1.28	1.34	1.15	1.49	1.31	1.10	1.05	1.16	1.09	1.13	1.06	1.35	1.22	1.23	1.15		
Case5_F6_3	Phase Bt Norwalk 345		50	302	690	BK345-ED34	1.34	1.21	ED345	1.24	1.11	1.27	1.14	1.33	1.19	1.22	1.08	1.34	1.21	1.08	1.07	1.12	1.03	1.05	1.04	1.28	1.10	1.20	1.08		
Case5_F7_3	Phase Bt Plumtree 345		50	302	690	BK345-ED34	1.29	1.21	ED345	1.22	1.10	1.22	1.21	1.24	1.14	1.11	1.06	1.29	1.14	1.10	1.08	1.05	1.04	1.08	1.07	1.26	1.21	1.14	1.13		
Case5_bas	No Fault		50	302	690	NE138-NO13	1.04	1.04	ESHOR	1.03	1.03	1.03	1.03	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.03	1.03	1.03	
Case5_F1_3	Phase Plumtree		50	302	690	NE138-NO13	1.17	1.12	STONY	1.08	1.03	1.12	1.11	1.04	1.03	1.03	1.04	1.04	1.03	1.17	1.08	1.06	1.05	1.07	1.05	1.17	1.12	1.08	1.05		
Case5_F2_3	Phase East Devon		50	302	690	NE138-NO13	1.15	1.09	ED345	1.07	1.04	1.09	1.09	1.15	1.04	1.11	1.03	1.15	1.03	1.13	1.08	1.07	1.03	1.13	1.09	1.15	1.09	1.13	1.08		
Case5_F3_1	Phase East Devon		50	302	690	NE138-NO13	1.08	1.04	BK345	1.03	1.03	1.03	1.02	1.03	1.03	1.03	1.03	1.04	1.04	1.08	1.04	1.04	1.04	1.04	1.03	1.02	1.03	1.02	1.03	1.02	
Case5_F4_3	Phase Norwalk Junction		50	302	690	NE138-NO13	1.26	1.14	ED345	1.15	1.11	1.18	1.09	1.26	1.14	1.21	1.10	1.26	1.13	1.14	1.07	1.15	1.05	1.12	1.07	1.13	1.09	1.11	1.09		
Case5_F5_3	Phase Singer		50	302	690	NE138-NO13	1.35	1.23	ED345	1.26	1.14	1.23	1.17	1.31	1.20	1.28	1.18	1.35	1.23	1.21	1.10	1.26	1.07	1.13	1.05	1.30	1.17	1.20	1.11		
Case5_F6_3	Phase Bt Norwalk 345		50	302	690	NE138-NO13	1.25	1.17	NW345	1.18	1.10	1.22	1.11	1.25	1.15	1.23	1.14	1.25	1.17	1.21	1.08	1.18	1.06	1.11	1.04	1.20	1.10	1.16	1.09		
Case5_F7_3	Phase Bt Plumtree 345		50	302	690	NE138-NO13	1.22	1.20	STONY	1.15	1.08	1.20	1.20	1.16	1.08	1.13	1.08	1.15	1.09	1.09	1.07	1.06	1.05	1.06	1.05	1.22	1.18	1.13	1.13		
Case5_bas	No Fault		50	302	690	LM345-PLVA	1.05	1.05	ED345	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04		
Case5_F1_3	Phase Plumtree		50	302	690	LM345-PLVA	1.27	1.14	STONY	1.15	1.06	1.21	1.14	1.18	1.07	1.07	1.04	1.17	1.06	1.15	1.10	1.08	1.05	1.12	1.11	1.27	1.12	1.21	1.08		
Case5_F2_3	Phase East Devon		50	302	690	LM345-PLVA	1.22	1.14	ED345	1.14	1.05	1.09	1.10	1.21	1.05	1.06	1.04	1.22	1.07	1.15	1.09	1.12	1.05	1.10	1.06	1.19	1.14	1.09	1.09		
Case5_F3_1	Phase East Devon		50	302	690	LM345-PLVA	1.06	1.05	BK345	1.05	1.04	1.04	1.03	1.05	1.04	1.03	1.03	1.05	1.05	1.06	1.04	1.04	1.04	1.03	1.03	1.03	1.03	1.03	1.03		
Case5_F4_3	Phase Norwalk Junction		50	302	690	LM345-PLVA	1.43	1.27	NW345	1.27	1.15	1.26	1.15	1.43	1.27	1.33	1.13	1.42	1.26	1.16	1.34	1.19	1.20	1.17	1.25	1.12	1.21	1.13			
Case5_F5_3	Phase Singer		50	302	690	LM345-PLVA	1.50	1.29	NW345	1.39	1.21	1.32	1.22	1.50	1.28	1.33	1.14	1.46	1.29	1.35	1.17	1.38	1.15	1.25	1.13	1.39	1.22	1.26	1.16		
Case5_F6_3	Phase Bt Norwalk 345		50	302	690	LM345-PLVA	1.36	1.19	NW345	1.33	1.12	1.28	1.15	1.36	1.18	1.27	1.08	1.36	1.19	1.22	1.12	1.28	1.08	1.15	1.08	1.21	1.15	1.14	1.10		
Case5_F7_3	Phase Bt Plumtree 345		50	302	690	LM345-PLVA	1.25	1.17	STONY	1.17	1.11	1.20	1.15	1.17	1.07	1.06	1.05	1.19	1.07	1.11	1.08	1.08	1.05	1.12	1.08	1.25	1.17	1.16	1.11		

CASE #: 5B - Case 5 (Old) + 5 Miles of Cable (GE 2C and 6C windows)

DATE: 12/15/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		70	1249	900				1.09	1.09	FB115	1.04	1.04	1.06	1.06	1.04	1.04	1.04	1.04	1.05	1.05	1.06	1.06	1.08	1.08	1.09	1.09	1.06	1.06	1.07	1.07
Case5_F1_3	Phase Plumtree		70	1249	900				1.46	1.33	ROCKY	1.17	1.09	1.22	1.19	1.13	1.04	1.07	1.02	1.11	1.06	1.13	1.08	1.08	1.08	1.14	1.13	1.15	1.16	1.46	1.33
Case5_F2_3	Phase East Devon		70	1249	900				1.41	1.20	ROCKY	1.18	1.05	1.12	1.07	1.26	1.09	1.16	1.07	1.27	1.09	1.21	1.14	1.11	1.11	1.12	1.10	1.15	1.08	1.41	1.20
Case5_F3_1	Phase East Devon		70	1249	900				1.10	1.08	BK345	1.04	1.03	1.05	1.05	1.03	1.03	1.03	1.03	1.04	1.03	1.10	1.07	1.08	1.08	1.09	1.08	1.05	1.05	1.07	1.07
Case5_F4_3	Phase Norwalk Junction		70	1249	900				1.46	1.40	ROCKY	1.23	1.13	1.18	1.15	1.33	1.18	1.21	1.14	1.32	1.17	1.18	1.09	1.20	1.10	1.14	1.12	1.16	1.17	1.46	1.40
Case5_F5_3	Phase Singer		70	1249	900				1.59	1.32	ROCKY	1.24	1.11	1.30	1.17	1.30	1.14	1.25	1.16	1.28	1.15	1.20	1.08	1.22	1.10	1.28	1.21	1.28	1.19	1.59	1.32
Case5_F6_3	Phase Bt Norwalk 345		70	1249	900				1.48	1.31	ROCKY	1.22	1.08	1.22	1.20	1.27	1.10	1.17	1.14	1.27	1.11	1.18	1.10	1.17	1.05	1.18	1.15	1.24	1.22	1.48	1.31
Case5_F7_3	Phase Bt Plumtree 345		70	1249	900				1.56	1.48	ROCKY	1.19	1.11	1.19	1.17	1.15	1.08	1.11	1.07	1.15	1.10	1.12	1.08	1.08	1.07	1.12	1.12	1.20	1.16	1.56	1.48
Case5_bas	No Fault		70	1249	900	PT345-LM34	1.08	1.08	FB115	1.04	1.04	1.05	1.05	1.04	1.04	1.03	1.03	1.04	1.04	1.04	1.05	1.05	1.07	1.07	1.08	1.08	1.05	1.05	1.07	1.07	
Case5_F2_3	Phase East Devon		70	1249	900	PT345-LM34	1.24	1.13	ROCKY	1.12	1.03	1.10	1.02	1.08	1.03	1.03	1.02	1.02	1.07	1.03	1.14	1.10	1.11	1.10	1.09	1.13	1.13	1.05	1.24	1.10	
Case5_F3_1	Phase East Devon		70	1249	900	PT345-LM34	1.09	1.07	BK345	1.02	1.01	1.02	1.02	1.01	1.01	1.01	1.01	1.01	1.02	1.02	1.09	1.06	1.06	1.06	1.06	1.07	1.07	1.03	1.02	1.05	1.04
Case5_F4_3	Phase Norwalk Junction		70	1249	900	PT345-LM34	1.71	1.40	ROCKY	1.30	1.14	1.15	1.13	1.18	1.09	1.12	1.07	1.19	1.08	1.12	1.07	1.08	1.06	1.17	1.14	1.14	1.14	1.71	1.40		
Case5_F5_3	Phase Singer		70	1249	900	PT345-LM34	1.46	1.29	ROCKY	1.26	1.12	1.22	1.19	1.21	1.08	1.13	1.09	1.18	1.09	1.20	1.11	1.12	1.06	1.19	1.12	1.21	1.19	1.46	1.29		
Case5_F6_3	Phase Bt Norwalk 345		70	1249	900	PT345-LM34	1.41	1.34	ROCKY	1.17	1.09	1.21	1.21	1.15	1.06	1.11	1.08	1.16	1.08	1.10	1.08	1.07	1.06	1.14	1.10	1.22	1.21	1.41	1.34		
Case5_F7_3	Phase Bt Plumtree 345		70	1249	900	PT345-LM34	1.43	1.34	ROCKY	1.12	1.09	1.14	1.15	1.09	1.06	1.03	1.03	1.12	1.12	1.06	1.11	1.08	1.08	1.08	1.10	1.11	1.12	1.13	1.43	1.34	
Case5_bas	No Fault		70	1249	900	BK345-ED34	1.08	1.08	FB115	1.03	1.03	1.04	1.04	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.06	1.06	1.08	1.08	1.08	1.08	1.05	1.05	1.07	1.07	
Case5_F1_3	Phase Plumtree		70	1249	900	BK345-ED34	1.33	1.28	ROCKY	1.12	1.04	1.14	1.12	1.03	1.02	1.02	1.02	1.05	1.04	1.16	1.10	1.08	1.07	1.16	1.15	1.13	1.10	1.33	1.28		
Case5_F4_3	Phase Norwalk Junction		70	1249	900	BK345-ED34	1.35	1.32	ROCKY	1.14	1.11	1.12	1.11	1.19	1.03	1.05	1.02	1.19	1.03	1.12	1.09	1.08	1.08	1.15	1.16	1.22	1.22	1.35	1.32		
Case5_F5_3	Phase Singer		70	1249	900	BK345-ED34	1.39	1.20	ROCKY	1.19	1.08	1.24	1.15	1.21	1.09	1.17	1.12	1.21	1.09	1.14	1.08	1.13	1.07	1.18	1.13	1.25	1.14	1.39	1.20		
Case5_F6_3	Phase Bt Norwalk 345		70	1249	900	BK345-ED34	1.44	1.19	ROCKY	1.13	1.05	1.21	1.14	1.18	1.06	1.15	1.11	1.19	1.06	1.13	1.09	1.07	1.08	1.12	1.08	1.22	1.14	1.44	1.19		
Case5_F7_3	Phase Bt Plumtree 345		70	1249	900	BK345-ED34	1.49	1.44	ROCKY	1.15	1.10	1.21	1.20	1.12	1.04	1.12	1.05	1.16	1.06	1.15	1.10	1.09	1.08	1.13	1.13	1.18	1.20	1.49	1.44		
Case5_bas	No Fault		70	1249	900	NE138-NO13	1.08	1.08	FB115	1.03	1.03	1.04	1.04	1.03	1.03	1.04	1.04	1.04	1.04	1.04	1.05	1.05	1.07	1.07	1.08	1.08	1.05	1.05	1.06	1.06	
Case5_F1_3	Phase Plumtree		70	1249	900	NE138-NO13	1.36	1.29	ROCKY	1.11	1.03	1.14	1.11	1.03	1.02	1.04	1.02	1.05	1.03	1.11	1.05	1.07	1.06	1.10	1.09	1.12	1.08	1.36	1.29		
Case5_F2_3	Phase East Devon		70	1249	900	NE138-NO13	1.24	1.10	ROCKY	1.10	1.03	1.06	1.03	1.10	1.04	1.07	1.03	1.08	1.04	1.16	1.10	1.10	1.08	1.07	1.07	1.06	1.05	1.24	1.09		
Case5_F3_1	Phase East Devon		70	1249	900	NE138-NO13	1.07	1.07	BK345	1.02	1.01	1.03	1.03	1.01	1.01	1.02	1.02	1.02	1.01	1.07	1.06	1.06	1.06	1.07	1.07	1.03	1.03	1.05	1.05		
Case5_F4_3	Phase Norwalk Junction		70	1249	900	NE138-NO13	1.44	1.35	ROCKY	1.17	1.12	1.15	1.14	1.11	1.05	1.12	1.08	1.11	1.05	1.13	1.07	1.07	1.05	1.10	1.09	1.16	1.15	1.44	1.35		
Case5_F5_3	Phase Singer		70	1249	900	NE138-NO13	1.36	1.19	ROCKY	1.10	1.06	1.18	1.10	1.12	1.05	1.17	1.11	1.15	1.06	1.15	1.07	1.08	1.05	1.17	1.14	1.16	1.13	1.36	1.19		
Case5_F6_3	Phase Bt Norwalk 345		70	1249	900	NE138-NO13	1.38	1.17	ROCKY	1.12	1.05	1.16	1.09	1.09	1.04	1.16	1.10	1.10	1.06	1.12	1.07	1.06	1.05	1.10	1.08	1.17	1.11	1.38	1.17		
Case5_F7_3	Phase Bt Plumtree 345		70	1249	900	NE138-NO13	1.49	1.46	ROCKY	1.12	1.08	1.17	1.16	1.06	1.03	1.11	1.05	1.07	1.04	1.08	1.07	1.07	1.07	1.09	1.08	1.14	1.16	1.49	1.46		
Case5_bas	No Fault		70	1249	900	LM345-PLVA	1.09	1.09	FB115	1.05	1.05	1.06	1.06	1.05	1.05	1.04	1.04	1.05	1.05	1.06	1.06	1.08	1.08	1.09	1.09	1.06	1.06	1.08	1.08		
Case5_F1_3	Phase Plumtree		70	1249	900	LM345-PLVA	1.32	1.34	ROCKY	1.16	1.09	1.25	1.18	1.11	1.04	1.05	1.04	1.09	1.05	1.11	1.08	1.08	1.08	1.15	1.14	1.23	1.19	1.32	1.34		
Case5_F2_3	Phase East Devon		70	1249	900	LM345-PLVA	1.26	1.21	ROCKY	1.18	1.08	1.14	1.06	1.20	1.06	1.06	1.04	1.16	1.06	1.20	1.11	1.09	1.07	1.11	1.12	1.14	1.08	1.26	1.21		
Case5_F3_1	Phase East Devon		70	1249	900	LM345-PLVA	1.08	1.08	BK345	1.05	1.04	1.05	1.04	1.04	1.03	1.02	1.02	1.04	1.04	1.08	1.06	1.07	1.07	1.08	1.08	1.05	1.05	1.06	1.06		
Case5_F4_3	Phase Norwalk Junction		70	1249	900	LM345-PLVA	1.43	1.43	ROCKY	1.21	1.17	1.18	1.19	1.27	1.12	1.15	1.08	1.25	1.11	1.15	1.09	1.17	1.06	1.20	1.14	1.23	1.16	1.43	1.43		
Case5_F5_3	Phase Singer		70	1249	900	LM345-PLVA	1.53	1.21	ROCKY	1.21	1.12	1.22	1.13	1.21	1.07	1.18	1.09	1.20	1.10	1.17	1.10	1.16	1.06	1.20	1.11	1.27	1.17	1.53	1.21		
Case5_F6_3	Phase Bt Norwalk 345		70	1249	900	LM345-PLVA	1.39	1.24	ROCKY	1.15	1.08	1.19	1.17	1.16	1.06	1.12	1.07	1.14	1.06	1.17	1.08	1.10	1.06	1.10	1.09	1.25	1.19	1.39	1.24		
Case5_F7_3	Phase Bt Plumtree 345		70	1249	900	LM345-PLVA	1.38	1.33	ROCKY	1.18	1.12	1.21	1.18	1.09	1.06	1.06	1.04	1.10	1.07	1.10	1.09	1.07	1.07	1.13	1.12	1.21	1.19	1.38	1.33		

CASE #: 5B - Case 5 (Old) + 5 Miles of Cable (GE 2C and 6C windows)
 Fault Closing at 0V on each phase, 3.5 Cycle Clearing
 DONE BY: Jack King/EnerNex

DATE: 12/14/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_basNo Fault			30	0	500				1.11	1.11	ED345	1.09	1.09	1.08	1.08	1.10	1.10	1.08	1.08	1.11	1.11	1.08	1.08	1.08	1.08	1.07	1.07	1.08	1.08	1.07	1.07
Case5_F1.3 Phase		Plumtree	30	0	500				1.21	1.18	PT115	1.19	1.15	1.21	1.18	1.13	1.13	1.13	1.10	1.15	1.14	1.13	1.12	1.12	1.11	1.14	1.10	1.19	1.18	1.19	1.17
Case5_F2.3 Phase		East Devon	30	0	500				1.25	1.11	ED345	1.15	1.08	1.17	1.09	1.24	1.10	1.10	1.08	1.25	1.11	1.10	1.06	1.11	1.08	1.09	1.08	1.16	1.09	1.19	1.10
Case5_F3.1 Phase		East Devon	30	0	500				1.29	1.17	ED345	1.18	1.13	1.19	1.12	1.28	1.16	1.16	1.12	1.29	1.17	1.09	1.09	1.14	1.11	1.10	1.09	1.18	1.12	1.16	1.12
Case5_F4.3 Phase		Norwalk Junction	30	0	500				1.31	1.14	NW345	1.08	1.07	1.08	1.09	1.31	1.13	1.19	1.14	1.30	1.13	1.13	1.09	1.09	1.08	1.09	1.07	1.10	1.09	1.15	1.08
Case5_F5.3 Phase		Singer	30	0	500				1.57	1.23	ED345	1.40	1.16	1.33	1.15	1.54	1.20	1.35	1.10	1.57	1.23	1.25	1.13	1.31	1.10	1.19	1.11	1.33	1.15	1.34	1.18
Case5_F6.3 Phase Bt		Norwalk 345	30	0	500				1.32	1.16	ED345	1.26	1.10	1.24	1.11	1.32	1.12	1.21	1.16	1.32	1.12	1.14	1.08	1.12	1.08	1.11	1.09	1.22	1.12	1.21	1.13
Case5_F7.3 Phase Bt		Plumtree 345	30	0	500				1.28	1.17	STONY	1.20	1.11	1.26	1.16	1.14	1.11	1.12	1.10	1.17	1.12	1.12	1.11	1.10	1.09	1.14	1.09	1.28	1.17	1.24	1.16
Case5_basNo Fault			30	0	500	PT345-LM34	1.13	1.13	ED345	1.12	1.12	1.11	1.11	1.12	1.12	1.09	1.09	1.13	1.13	1.09	1.09	1.09	1.07	1.07	1.10	1.10	1.10	1.10	1.08	1.08	
Case5_F2.3 Phase		East Devon	30	0	500	PT345-LM34	1.74	1.40	PT345	1.74	1.40	1.72	1.36	1.64	1.38	1.46	1.25	1.68	1.37	1.25	1.11	1.40	1.18	1.27	1.15	1.70	1.33	1.55	1.30		
Case5_F3.1 Phase		East Devon	30	0	500	PT345-LM34	1.63	1.39	ED345	1.60	1.36	1.49	1.31	1.63	1.38	1.43	1.26	1.63	1.39	1.17	1.11	1.29	1.19	1.27	1.15	1.47	1.30	1.38	1.26		
Case5_F4.3 Phase		Norwalk Junction	30	0	500	PT345-LM34	1.30	1.14	ED345	1.17	1.14	1.17	1.14	1.29	1.12	1.21	1.14	1.30	1.13	1.09	1.09	1.09	1.08	1.07	1.07	1.16	1.13	1.22	1.11		
Case5_F5.3 Phase		Singer	30	0	500	PT345-LM34	1.47	1.14	NW345	1.46	1.11	1.39	1.10	1.47	1.13	1.26	1.07	1.44	1.14	1.15	1.07	1.17	1.07	1.09	1.08	1.36	1.12	1.26	1.14		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	500	PT345-LM34	1.34	1.14	NW345	1.32	1.10	1.26	1.12	1.34	1.10	1.21	1.12	1.33	1.11	1.11	1.09	1.15	1.09	1.12	1.09	1.27	1.13	1.25	1.14		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	500	PT345-LM34	1.24	1.24	PT115	1.17	1.15	1.24	1.23	1.12	1.11	1.12	1.11	1.15	1.13	1.14	1.14	1.13	1.12	1.16	1.16	1.24	1.24	1.24	1.22		
Case5_basNo Fault			30	0	500	BK345-ED34	1.12	1.12	ED345	1.09	1.09	1.09	1.09	1.11	1.11	1.08	1.08	1.12	1.12	1.06	1.06	1.08	1.08	1.06	1.06	1.08	1.08	1.07	1.07		
Case5_F1.3 Phase		Plumtree	30	0	500	BK345-ED34	1.45	1.42	PT345	1.45	1.38	1.43	1.42	1.38	1.35	1.30	1.25	1.42	1.36	1.11	1.12	1.18	1.18	1.21	1.21	1.40	1.40	1.36	1.33		
Case5_F4.3 Phase		Norwalk Junction	30	0	500	BK345-ED34	1.53	1.26	NW345	1.14	1.08	1.12	1.08	1.53	1.25	1.25	1.18	1.53	1.26	1.11	1.07	1.16	1.10	1.13	1.08	1.13	1.08	1.15	1.08		
Case5_F5.3 Phase		Singer	30	0	500	BK345-ED34	1.39	1.12	ED345	1.24	1.08	1.22	1.08	1.37	1.10	1.23	1.08	1.39	1.12	1.07	1.06	1.09	1.07	1.10	1.07	1.22	1.10	1.23	1.10		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	500	BK345-ED34	1.24	1.14	NW345	1.16	1.09	1.15	1.10	1.24	1.11	1.14	1.14	1.24	1.11	1.08	1.06	1.08	1.08	1.08	1.06	1.15	1.10	1.15	1.09		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	500	BK345-ED34	1.26	1.15	PT115	1.17	1.11	1.26	1.15	1.11	1.11	1.13	1.09	1.16	1.14	1.12	1.08	1.11	1.09	1.10	1.08	1.25	1.15	1.21	1.15		
Case5_basNo Fault			30	0	500	NE138-NO13	1.12	1.12	ED345	1.10	1.10	1.09	1.09	1.11	1.11	1.10	1.10	1.12	1.12	1.09	1.09	1.09	1.09	1.07	1.07	1.09	1.09	1.08	1.08		
Case5_F1.3 Phase		Plumtree	30	0	500	NE138-NO13	1.32	1.33	PT115	1.22	1.20	1.32	1.33	1.20	1.20	1.17	1.17	1.19	1.19	1.15	1.16	1.16	1.16	1.19	1.21	1.31	1.33	1.30	1.31		
Case5_F2.3 Phase		East Devon	30	0	500	NE138-NO13	1.23	1.15	ED345	1.15	1.12	1.18	1.12	1.20	1.15	1.17	1.13	1.23	1.15	1.12	1.08	1.15	1.11	1.12	1.10	1.19	1.12	1.18	1.13		
Case5_F3.1 Phase		East Devon	30	0	500	NE138-NO13	1.21	1.19	NW115	1.15	1.15	1.16	1.14	1.20	1.18	1.21	1.17	1.21	1.19	1.12	1.09	1.14	1.12	1.11	1.10	1.16	1.13	1.17	1.13		
Case5_F4.3 Phase		Norwalk Junction	30	0	500	NE138-NO13	1.23	1.14	NW345	1.13	1.08	1.13	1.09	1.23	1.14	1.16	1.14	1.21	1.14	1.13	1.10	1.10	1.09	1.13	1.08	1.13	1.09	1.20	1.09		
Case5_F5.3 Phase		Singer	30	0	500	NE138-NO13	1.33	1.12	NW345	1.26	1.08	1.22	1.08	1.33	1.10	1.31	1.09	1.31	1.11	1.16	1.08	1.16	1.08	1.13	1.08	1.20	1.09	1.22	1.12		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	500	NE138-NO13	1.25	1.13	NW345	1.17	1.09	1.15	1.11	1.25	1.10	1.24	1.13	1.25	1.11	1.11	1.10	1.09	1.08	1.11	1.09	1.15	1.11	1.17	1.11		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	500	NE138-NO13	1.32	1.20	ROCKY	1.16	1.11	1.30	1.18	1.11	1.11	1.10	1.09	1.13	1.12	1.12	1.12	1.09	1.09	1.15	1.12	1.31	1.20	1.32	1.19		
Case5_basNo Fault			30	0	500	LM345-PLVA	1.13	1.13	ED345	1.12	1.12	1.11	1.11	1.13	1.13	1.10	1.10	1.13	1.13	1.10	1.10	1.10	1.10	1.09	1.09	1.11	1.11	1.10	1.10		
Case5_F1.3 Phase		Plumtree	30	0	500	LM345-PLVA	1.26	1.26	PT115	1.23	1.23	1.26	1.26	1.14	1.14	1.12	1.12	1.16	1.15	1.16	1.15	1.14	1.14	1.21	1.21	1.25	1.25	1.22	1.23		
Case5_F2.3 Phase		East Devon	30	0	500	LM345-PLVA	1.33	1.23	ED345	1.30	1.20	1.32	1.19	1.33	1.21	1.21	1.16	1.33	1.23	1.20	1.12	1.21	1.15	1.21	1.14	1.31	1.19	1.30	1.17		
Case5_F3.1 Phase		East Devon	30	0	500	LM345-PLVA	1.36	1.24	ED345	1.32	1.19	1.31	1.18	1.34	1.22	1.24	1.16	1.36	1.24	1.15	1.11	1.26	1.15	1.19	1.12	1.31	1.17	1.29	1.16		
Case5_F4.3 Phase		Norwalk Junction	30	0	500	LM345-PLVA	1.33	1.14	NW345	1.15	1.13	1.15	1.13	1.33	1.13	1.17	1.14	1.31	1.13	1.10	1.10	1.09	1.09	1.12	1.08	1.16	1.12	1.18	1.11		
Case5_F5.3 Phase		Singer	30	0	500	LM345-PLVA	1.51	1.16	ED345	1.46	1.12	1.37	1.10	1.50	1.15	1.29	1.07	1.51	1.16	1.20	1.08	1.21	1.07	1.19	1.09	1.37	1.12	1.36	1.16		
Case5_F6.3 Phase Bt		Norwalk 345	30	0	500	LM345-PLVA	1.37	1.19	NW345	1.35	1.11	1.29	1.13	1.37	1.11	1.23	1.13	1.36	1.12	1.14	1.11	1.13	1.10	1.16	1.11	1.32	1.16	1.30	1.19		
Case5_F7.3 Phase Bt		Plumtree 345	30	0	500	LM345-PLVA	1.26	1.28	PT115	1.18	1.20	1.26	1.28	1.13	1.13	1.13	1.14	1.14	1.14	1.14	1.11	1.11	1.12	1.15	1.14	1.26	1.26	1.24	1.23		

CASE #: 5B - Case 5 (Old) + 5 Miles of Cable (GE 2C and 6C windows)
 Fault Closing at 0V on each phase, 3.5 Cycle Clearing
 DONE BY: Jack King/EnerNex

DATE: 12/14/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_basNo Fault			40	0	500				1.09	1.09	ED345	1.07	1.07	1.06	1.06	1.09	1.09	1.06	1.06	1.09	1.09	1.07	1.07	1.06	1.06	1.05	1.05	1.06	1.06	1.05	1.05
Case5_F1_3 Phase	Plumtree		40	0	500				1.17	1.17	PT115	1.14	1.13	1.17	1.17	1.11	1.11	1.10	1.08	1.13	1.11	1.11	1.09	1.09	1.09	1.11	1.08	1.15	1.16	1.15	1.14
Case5_F2_3 Phase	East Devon		40	0	500				1.24	1.09	ED345	1.13	1.07	1.12	1.07	1.23	1.08	1.08	1.06	1.24	1.09	1.07	1.06	1.08	1.06	1.07	1.06	1.12	1.07	1.14	1.08
Case5_F3_1 Phase	East Devon		40	0	500				1.25	1.14	ED345	1.14	1.11	1.15	1.10	1.23	1.14	1.12	1.10	1.25	1.14	1.08	1.07	1.10	1.08	1.07	1.07	1.14	1.09	1.14	1.09
Case5_F4_3 Phase	Norwalk Junction		40	0	500				1.31	1.11	NW345	1.09	1.06	1.06	1.07	1.31	1.11	1.15	1.11	1.29	1.11	1.12	1.08	1.07	1.07	1.08	1.05	1.08	1.07	1.11	1.06
Case5_F5_3 Phase	Singer		40	0	500				1.54	1.21	ED345	1.36	1.14	1.31	1.14	1.50	1.19	1.33	1.09	1.54	1.21	1.22	1.11	1.26	1.09	1.16	1.08	1.29	1.12	1.29	1.14
Case5_F6_3 Phase Bt	Norwalk 345		40	0	500				1.31	1.15	ED345	1.23	1.09	1.20	1.09	1.30	1.11	1.20	1.15	1.31	1.12	1.11	1.07	1.10	1.06	1.09	1.06	1.19	1.10	1.14	1.09
Case5_F7_3 Phase Bt	Plumtree 345		40	0	500				1.21	1.15	PT115	1.18	1.09	1.21	1.15	1.12	1.10	1.10	1.09	1.16	1.11	1.08	1.08	1.09	1.07	1.10	1.07	1.21	1.14	1.20	1.12
Case5_basNo Fault			40	0	500	PT345-LM34	1.11	1.11	ED345			1.10	1.10	1.08	1.08	1.10	1.10	1.07	1.07	1.11	1.11	1.07	1.07	1.07	1.05	1.05	1.08	1.08	1.06	1.06	
Case5_F2_3 Phase	East Devon		40	0	500	PT345-LM34	1.51	1.28	ED345			1.47	1.27	1.49	1.22	1.50	1.27	1.32	1.17	1.51	1.28	1.18	1.07	1.26	1.11	1.21	1.10	1.48	1.21	1.38	1.20
Case5_F3_1 Phase	East Devon		40	0	500	PT345-LM34	1.47	1.28	ED345			1.44	1.25	1.36	1.21	1.46	1.27	1.31	1.17	1.47	1.28	1.13	1.08	1.19	1.13	1.18	1.10	1.34	1.20	1.27	1.16
Case5_F4_3 Phase	Norwalk Junction		40	0	500	PT345-LM34	1.27	1.12	ED345			1.10	1.09	1.10	1.09	1.26	1.10	1.17	1.12	1.27	1.11	1.08	1.07	1.06	1.07	1.05	1.05	1.11	1.09	1.14	1.08
Case5_F5_3 Phase	Singer		40	0	500	PT345-LM34	1.44	1.12	NW345			1.41	1.09	1.28	1.06	1.44	1.12	1.22	1.05	1.42	1.12	1.13	1.06	1.12	1.05	1.06	1.06	1.26	1.08	1.21	1.10
Case5_F6_3 Phase Bt	Norwalk 345		40	0	500	PT345-LM34	1.29	1.12	NW345			1.28	1.08	1.20	1.10	1.29	1.08	1.15	1.10	1.28	1.09	1.07	1.07	1.07	1.07	1.08	1.08	1.19	1.11	1.14	1.12
Case5_F7_3 Phase Bt	Plumtree 345		40	0	500	PT345-LM34	1.18	1.16	STONY			1.14	1.14	1.18	1.16	1.11	1.10	1.09	1.08	1.13	1.10	1.12	1.11	1.10	1.09	1.12	1.11	1.18	1.15	1.16	1.14
Case5_basNo Fault			40	0	500	BK345-ED34	1.11	1.11	ED345			1.08	1.08	1.07	1.07	1.10	1.10	1.07	1.07	1.11	1.11	1.05	1.05	1.06	1.04	1.04	1.06	1.06	1.05	1.05	
Case5_F1_3 Phase	Plumtree		40	0	500	BK345-ED34	1.34	1.33	PT345			1.34	1.33	1.31	1.33	1.30	1.27	1.22	1.19	1.34	1.27	1.09	1.08	1.14	1.13	1.15	1.15	1.30	1.32	1.24	1.25
Case5_F4_3 Phase	Norwalk Junction		40	0	500	BK345-ED34	1.44	1.22	ED345			1.10	1.06	1.11	1.06	1.42	1.21	1.20	1.15	1.44	1.22	1.10	1.06	1.12	1.08	1.09	1.05	1.11	1.06	1.10	1.05
Case5_F5_3 Phase	Singer		40	0	500	BK345-ED34	1.36	1.11	ED345			1.21	1.06	1.19	1.06	1.34	1.08	1.19	1.06	1.36	1.11	1.05	1.05	1.04	1.05	1.07	1.05	1.21	1.07	1.20	1.07
Case5_F6_3 Phase Bt	Norwalk 345		40	0	500	BK345-ED34	1.24	1.12	ED345			1.14	1.08	1.12	1.08	1.23	1.09	1.11	1.12	1.24	1.10	1.07	1.05	1.06	1.06	1.06	1.05	1.10	1.09	1.12	1.07
Case5_F7_3 Phase Bt	Plumtree 345		40	0	500	BK345-ED34	1.19	1.15	PT115			1.15	1.09	1.19	1.14	1.10	1.10	1.10	1.09	1.15	1.12	1.09	1.07	1.08	1.08	1.09	1.07	1.18	1.15	1.18	1.13
Case5_basNo Fault			40	0	500	NE138-NO13	1.10	1.10	ED345			1.08	1.08	1.07	1.07	1.09	1.09	1.08	1.08	1.10	1.10	1.07	1.07	1.07	1.07	1.05	1.05	1.06	1.06	1.06	
Case5_F1_3 Phase	Plumtree		40	0	500	NE138-NO13	1.24	1.24	STONY			1.16	1.14	1.24	1.24	1.14	1.14	1.12	1.12	1.14	1.14	1.12	1.12	1.12	1.12	1.14	1.15	1.23	1.24	1.20	1.20
Case5_F2_3 Phase	East Devon		40	0	500	NE138-NO13	1.15	1.11	ED345			1.11	1.09	1.13	1.08	1.14	1.11	1.09	1.09	1.15	1.11	1.09	1.06	1.09	1.07	1.09	1.07	1.13	1.09	1.13	1.10
Case5_F3_1 Phase	East Devon		40	0	500	NE138-NO13	1.16	1.15	ED345			1.12	1.11	1.13	1.10	1.16	1.14	1.16	1.12	1.16	1.15	1.09	1.07	1.10	1.09	1.08	1.07	1.13	1.10	1.13	1.09
Case5_F4_3 Phase	Norwalk Junction		40	0	500	NE138-NO13	1.19	1.11	NW345			1.12	1.05	1.09	1.06	1.19	1.11	1.12	1.10	1.18	1.11	1.10	1.08	1.08	1.07	1.10	1.05	1.09	1.05	1.13	1.05
Case5_F5_3 Phase	Singer		40	0	500	NE138-NO13	1.30	1.10	NW345			1.22	1.06	1.18	1.06	1.30	1.09	1.27	1.08	1.28	1.10	1.14	1.06	1.11	1.06	1.10	1.05	1.14	1.07	1.16	1.10
Case5_F6_3 Phase Bt	Norwalk 345		40	0	500	NE138-NO13	1.22	1.10	ED345			1.13	1.07	1.12	1.07	1.21	1.08	1.20	1.10	1.22	1.09	1.08	1.09	1.05	1.06	1.07	1.07	1.11	1.08	1.15	1.08
Case5_F7_3 Phase Bt	Plumtree 345		40	0	500	NE138-NO13	1.22	1.19	PT115			1.11	1.10	1.22	1.16	1.09	1.09	1.07	1.07	1.11	1.10	1.09	1.09	1.07	1.07	1.10	1.09	1.21	1.19	1.19	1.17
Case5_basNo Fault			40	0	500	LM345-PLVA	1.11	1.11	ED345			1.10	1.10	1.09	1.09	1.11	1.11	1.08	1.08	1.11	1.11	1.08	1.08	1.07	1.07	1.06	1.06	1.08	1.08	1.07	1.07
Case5_F1_3 Phase	Plumtree		40	0	500	LM345-PLVA	1.20	1.19	PT115			1.18	1.18	1.20	1.19	1.11	1.11	1.09	1.09	1.13	1.11	1.14	1.12	1.11	1.10	1.16	1.15	1.19	1.18	1.18	1.15
Case5_F2_3 Phase	East Devon		40	0	500	LM345-PLVA	1.30	1.17	STONY			1.23	1.15	1.29	1.14	1.26	1.16	1.17	1.11	1.27	1.17	1.14	1.09	1.15	1.11	1.17	1.10	1.30	1.13	1.27	1.13
Case5_F3_1 Phase	East Devon		40	0	500	LM345-PLVA	1.22	1.16	ED345			1.21	1.13	1.17	1.13	1.21	1.15	1.14	1.11	1.22	1.16	1.11	1.08	1.15	1.11	1.11	1.09	1.19	1.12	1.17	1.12
Case5_F4_3 Phase	Norwalk Junction		40	0	500	LM345-PLVA	1.30	1.11	NW345			1.11	1.09	1.10	1.09	1.30	1.11	1.15	1.11	1.27	1.11	1.09	1.08	1.06	1.07	1.09	1.06	1.10	1.09	1.13	1.08
Case5_F5_3 Phase	Singer		40	0	500	LM345-PLVA	1.47	1.14	ED345			1.39	1.10	1.27	1.08	1.47	1.13	1.24	1.04	1.47	1.14	1.17	1.06	1.18	1.05	1.14	1.06	1.29	1.08	1.26	1.10
Case5_F6_3 Phase Bt	Norwalk 345		40	0	500	LM345-PLVA	1.32	1.14	NW345			1.27	1.09	1.20	1.10	1.32	1.09	1.17	1.10	1.32	1.09	1.10	1.08	1.08	1.07	1.10	1.08	1.22	1.11	1.20	1.14
Case5_F7_3 Phase Bt	Plumtree 345		40	0	500	LM345-PLVA	1.22	1.22	STONY			1.17	1.18	1.22	1.22	1.11	1.11	1.10	1.10	1.12	1.11	1.11	1.10	1.09	1.09	1.12	1.12	1.22	1.20	1.19	1.18

CASE #: 5B - Case 5 (Old) + 5 Miles of Cable (GE 2C and 6C windows)
 Fault Closing at 0V on each phase, 3.5 Cycle Clearing
 DONE BY: Jack King/EnerNex

DATE: 12/14/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																								
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY						
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	
Case5_bas	No Fault		50	302	690				1.07	1.07	ED345	1.06	1.06	1.05	1.05	1.07	1.07	1.05	1.05	1.07	1.07	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	
Case5_F1_3	Phase Plumtree		50	302	690				1.27	1.15	STONY	1.12	1.09	1.13	1.12	1.08	1.07	1.06	1.05	1.09	1.09	1.13	1.08	1.08	1.06	1.08	1.07	1.27	1.15	1.20	1.10	1.10		
Case5_F2_3	Phase East Devon		50	302	690				1.17	1.07	ED345	1.06	1.05	1.05	1.05	1.17	1.05	1.06	1.04	1.17	1.06	1.09	1.07	1.08	1.06	1.05	1.05	1.05	1.04	1.07	1.04	1.07	1.04	
Case5_F3_1	Phase East Devon		50	302	690				1.16	1.10	ED345	1.07	1.07	1.07	1.06	1.14	1.09	1.11	1.06	1.16	1.10	1.08	1.07	1.09	1.08	1.07	1.06	1.07	1.06	1.07	1.06	1.07	1.05	1.05
Case5_F4_3	Phase Norwalk Junction		50	302	690				1.24	1.12	ED345	1.09	1.05	1.06	1.05	1.23	1.09	1.19	1.12	1.24	1.09	1.07	1.07	1.05	1.06	1.06	1.05	1.06	1.06	1.08	1.08	1.08	1.08	
Case5_F5_3	Phase Singer		50	302	690				1.42	1.14	ED345	1.29	1.09	1.22	1.09	1.41	1.13	1.32	1.12	1.42	1.14	1.21	1.07	1.25	1.06	1.15	1.06	1.22	1.08	1.20	1.10	1.10	1.10	
Case5_F6_3	Phase Bt Norwalk 345		50	302	690				1.26	1.10	ED345	1.16	1.05	1.14	1.06	1.25	1.06	1.20	1.10	1.26	1.06	1.11	1.07	1.08	1.05	1.09	1.05	1.12	1.06	1.10	1.06	1.10	1.06	
Case5_F7_3	Phase Bt Plumtree 345		50	302	690				1.23	1.19	STONY	1.15	1.09	1.16	1.11	1.07	1.06	1.05	1.05	1.09	1.08	1.11	1.08	1.07	1.06	1.10	1.09	1.23	1.19	1.17	1.12	1.12		
Case5_bas	No Fault		50	302	690	PT345-LM34	1.08	1.08	ED345	1.07	1.07	1.06	1.06	1.07	1.07	1.05	1.05	1.08	1.08	1.08	1.06	1.06	1.06	1.06	1.05	1.05	1.06	1.05	1.06	1.05	1.05	1.05	1.05	
Case5_F2_3	Phase East Devon		50	302	690	PT345-LM34	1.33	1.15	PT345	1.33	1.15	1.28	1.12	1.32	1.14	1.20	1.09	1.30	1.15	1.12	1.08	1.17	1.08	1.13	1.07	1.28	1.11	1.24	1.09	1.19	1.08	1.08	1.08	
Case5_F3_1	Phase East Devon		50	302	690	PT345-LM34	1.27	1.13	ED345	1.24	1.12	1.21	1.09	1.25	1.12	1.19	1.09	1.27	1.13	1.10	1.07	1.13	1.06	1.11	1.06	1.22	1.09	1.19	1.08	1.08	1.08	1.08	1.08	
Case5_F4_3	Phase Norwalk Junction		50	302	690	PT345-LM34	1.20	1.08	NW345	1.05	1.06	1.05	1.05	1.20	1.08	1.13	1.08	1.18	1.08	1.08	1.07	1.05	1.06	1.07	1.04	1.05	1.06	1.07	1.05	1.05	1.05	1.05	1.05	
Case5_F5_3	Phase Singer		50	302	690	PT345-LM34	1.36	1.07	NW345	1.30	1.06	1.19	1.05	1.36	1.06	1.25	1.07	1.34	1.07	1.11	1.06	1.14	1.05	1.05	1.05	1.16	1.05	1.13	1.05	1.05	1.05	1.05	1.05	
Case5_F6_3	Phase Bt Norwalk 345		50	302	690	PT345-LM34	1.21	1.13	NW345	1.17	1.06	1.13	1.06	1.21	1.06	1.15	1.13	1.20	1.07	1.07	1.07	1.05	1.06	1.06	1.05	1.11	1.06	1.07	1.05	1.05	1.05	1.05	1.05	
Case5_F7_3	Phase Bt Plumtree 345		50	302	690	PT345-LM34	1.15	1.13	STONY	1.10	1.09	1.14	1.13	1.08	1.07	1.06	1.05	1.08	1.08	1.08	1.08	1.08	1.08	1.07	1.07	1.07	1.15	1.12	1.11	1.09	1.09	1.09	1.09	
Case5_bas	No Fault		50	302	690	BK345-ED34	1.08	1.08	ED345	1.06	1.06	1.05	1.05	1.07	1.07	1.05	1.05	1.08	1.08	1.05	1.05	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.04	
Case5_F1_3	Phase Plumtree		50	302	690	BK345-ED34	1.23	1.20	STONY	1.20	1.18	1.20	1.20	1.18	1.15	1.12	1.11	1.20	1.16	1.13	1.09	1.09	1.08	1.10	1.08	1.23	1.20	1.16	1.15	1.15	1.15	1.15	1.15	
Case5_F4_3	Phase Norwalk Junction		50	302	690	BK345-ED34	1.27	1.14	NW345	1.09	1.05	1.09	1.05	1.27	1.13	1.17	1.10	1.26	1.14	1.09	1.07	1.14	1.08	1.09	1.06	1.10	1.07	1.10	1.07	1.07	1.07	1.07	1.07	
Case5_F5_3	Phase Singer		50	302	690	BK345-ED34	1.30	1.07	ED345	1.17	1.06	1.13	1.05	1.28	1.07	1.21	1.06	1.30	1.07	1.08	1.06	1.04	1.05	1.04	1.05	1.13	1.04	1.10	1.04	1.04	1.04	1.04	1.04	
Case5_F6_3	Phase Bt Norwalk 345		50	302	690	BK345-ED34	1.17	1.10	ED345	1.09	1.05	1.07	1.05	1.16	1.07	1.15	1.10	1.17	1.07	1.10	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.06	1.07	1.06	1.06	1.06	1.06	
Case5_F7_3	Phase Bt Plumtree 345		50	302	690	BK345-ED34	1.20	1.17	STONY	1.13	1.08	1.18	1.10	1.07	1.07	1.06	1.06	1.08	1.08	1.10	1.07	1.07	1.06	1.08	1.07	1.20	1.17	1.13	1.10	1.10	1.10	1.10	1.10	
Case5_bas	No Fault		50	302	690	NE138-NO13	1.07	1.07	ED345	1.05	1.05	1.05	1.05	1.06	1.06	1.06	1.06	1.07	1.07	1.06	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	
Case5_F1_3	Phase Plumtree		50	302	690	NE138-NO13	1.18	1.16	STONY	1.13	1.12	1.16	1.15	1.09	1.08	1.08	1.08	1.10	1.08	1.11	1.08	1.08	1.09	1.08	1.06	1.18	1.16	1.12	1.12	1.12	1.12	1.12	1.12	
Case5_F2_3	Phase East Devon		50	302	690	NE138-NO13	1.11	1.08	BK345	1.08	1.06	1.08	1.05	1.08	1.07	1.06	1.06	1.07	1.07	1.11	1.08	1.09	1.06	1.07	1.04	1.08	1.05	1.08	1.05	1.08	1.05	1.08	1.05	
Case5_F3_1	Phase East Devon		50	302	690	NE138-NO13	1.10	1.08	ED345	1.07	1.06	1.07	1.06	1.09	1.07	1.10	1.06	1.10	1.08	1.07	1.06	1.08	1.07	1.07	1.05	1.07	1.05	1.07	1.05	1.07	1.05	1.07	1.05	
Case5_F4_3	Phase Norwalk Junction		50	302	690	NE138-NO13	1.11	1.09	PT345	1.11	1.04	1.07	1.04	1.09	1.08	1.10	1.09	1.09	1.09	1.10	1.07	1.07	1.06	1.06	1.05	1.08	1.05	1.09	1.06	1.06	1.06	1.06	1.06	
Case5_F5_3	Phase Singer		50	302	690	NE138-NO13	1.22	1.07	ED345	1.12	1.05	1.11	1.05	1.21	1.06	1.22	1.07	1.22	1.07	1.12	1.06	1.09	1.06	1.08	1.05	1.11	1.05	1.10	1.06	1.06	1.06	1.06	1.06	
Case5_F6_3	Phase Bt Norwalk 345		50	302	690	NE138-NO13	1.16	1.10	NW115	1.05	1.05	1.06	1.06	1.12	1.06	1.16	1.10	1.13	1.07	1.07	1.07	1.05	1.05	1.05	1.05	1.05	1.07	1.05	1.09	1.05	1.09	1.05		
Case5_F7_3	Phase Bt Plumtree 345		50	302	690	NE138-NO13	1.22	1.16	STONY	1.14	1.08	1.15	1.10	1.07	1.06	1.05	1.05	1.07	1.07	1.09	1.07	1.07	1.07	1.07	1.08	1.07	1.22	1.16	1.14	1.10	1.10	1.10		
Case5_bas	No Fault		50	302	690	LM345-PLVA	1.08	1.08	ED345	1.07	1.07	1.07	1.07	1.08	1.08	1.06	1.06	1.08	1.08	1.07	1.07	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	
Case5_F1_3	Phase Plumtree		50	302	690	LM345-PLVA	1.15	1.13	STONY	1.12	1.11	1.13	1.12	1.08	1.08	1.06	1.06	1.08	1.08	1.11	1.10	1.07	1.07	1.08	1.08	1.15	1.13	1.11	1.10	1.10	1.10	1.10	1.10	
Case5_F2_3	Phase East Devon		50	302	690	LM345-PLVA	1.16	1.11	ROCKY	1.14	1.10	1.14	1.08	1.13	1.10	1.10	1.07	1.13	1.11	1.12	1.08	1.10	1.07	1.11	1.07	1.13	1.08	1.16	1.07	1.07	1.07	1.07		
Case5_F3_1	Phase East Devon		50	302	690	LM345-PLVA	1.12	1.09	ED345	1.11	1.08	1.10	1.08	1.11	1.08	1.09	1.06	1.12	1.09	1.08	1.06	1.09	1.07	1.09	1.06	1.10	1.07	1.09	1.07	1.07	1.07	1.07		
Case5_F4_3	Phase Norwalk Junction		50	302	690	LM345-PLVA	1.20	1.09	NW345	1.14	1.06	1.09	1.06	1.20	1.08	1.14	1.09	1.19	1.09	1.07	1.07	1.06	1.07	1.06	1.05	1.09	1.07	1.10	1.07	1.07	1.07	1.07		
Case5_F5_3	Phase Singer		50	302	690	LM345-PLVA	1.37	1.07	NW345	1.27	1.06	1.19	1.06	1.37	1.06	1.24	1.06	1.35	1.07	1.11	1.07	1.17	1.06	1.10	1.0									

CASE #: 5B - Case 5 (Old) + 5 Miles of Cable (GE 2C and 6C windows)
 Fault Closing at 0V on each phase, 3.5 Cycle Clearing
 DONE BY: Jack King/EnerNex

DATE: 12/14/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		70	1249	900				1.10	1.10	FB115	1.06	1.06	1.07	1.07	1.06	1.06	1.05	1.05	1.07	1.07	1.07	1.07	1.09	1.09	1.10	1.10	1.07	1.07	1.09	1.09
Case5_F1_3	Phase Plumtree		70	1249	900				1.35	1.33	ROCKY	1.20	1.11	1.21	1.15	1.06	1.06	1.05	1.05	1.08	1.07	1.14	1.10	1.12	1.12	1.15	1.13	1.22	1.21	1.35	1.33
Case5_F2_3	Phase East Devon		70	1249	900				1.12	1.10	BK345	1.06	1.06	1.07	1.06	1.07	1.05	1.04	1.04	1.07	1.06	1.12	1.09	1.11	1.09	1.12	1.10	1.07	1.07	1.11	1.08
Case5_F3_1	Phase East Devon		70	1249	900				1.12	1.11	ESHOR	1.05	1.05	1.07	1.07	1.06	1.06	1.05	1.05	1.07	1.07	1.11	1.08	1.12	1.11	1.11	1.10	1.08	1.08	1.09	1.09
Case5_F4_3	Phase Norwalk Junction		70	1249	900				1.19	1.12	FB115	1.17	1.08	1.11	1.10	1.15	1.09	1.13	1.08	1.14	1.10	1.10	1.09	1.11	1.10	1.19	1.12	1.12	1.11	1.15	1.12
Case5_F5_3	Phase Singer		70	1249	900				1.25	1.10	FB115	1.11	1.05	1.09	1.07	1.16	1.06	1.15	1.05	1.18	1.07	1.10	1.07	1.13	1.08	1.25	1.10	1.09	1.07	1.18	1.08
Case5_F6_3	Phase Bt Norwalk 345		70	1249	900				1.15	1.10	FB115	1.09	1.06	1.06	1.07	1.13	1.07	1.11	1.08	1.13	1.08	1.07	1.08	1.08	1.09	1.15	1.10	1.07	1.07	1.09	1.09
Case5_F7_3	Phase Bt Plumtree 345		70	1249	900				1.40	1.29	ROCKY	1.16	1.10	1.20	1.19	1.07	1.06	1.04	1.04	1.08	1.06	1.09	1.08	1.10	1.09	1.13	1.11	1.25	1.25	1.40	1.29
Case5_bas	No Fault		70	1249	900	PT345-LM34	1.10	1.10	FB115	1.06	1.06	1.07	1.07	1.07	1.07	1.05	1.05	1.07	1.07	1.07	1.07	1.07	1.09	1.10	1.10	1.10	1.07	1.07	1.09	1.09	
Case5_F2_3	Phase East Devon		70	1249	900	PT345-LM34	1.18	1.10	PT345	1.18	1.09	1.14	1.09	1.16	1.09	1.11	1.05	1.15	1.09	1.14	1.08	1.18	1.08	1.14	1.10	1.14	1.09	1.15	1.09	1.15	1.09
Case5_F3_1	Phase East Devon		70	1249	900	PT345-LM34	1.14	1.09	BK345	1.11	1.06	1.10	1.06	1.11	1.06	1.07	1.04	1.12	1.07	1.14	1.07	1.14	1.08	1.12	1.09	1.11	1.06	1.11	1.07	1.11	1.07
Case5_F4_3	Phase Norwalk Junction		70	1249	900	PT345-LM34	1.18	1.10	PT345	1.18	1.10	1.15	1.09	1.13	1.08	1.10	1.07	1.11	1.08	1.09	1.08	1.11	1.09	1.15	1.10	1.14	1.09	1.14	1.09	1.14	1.09
Case5_F5_3	Phase Singer		70	1249	900	PT345-LM34	1.16	1.11	ED345	1.12	1.06	1.08	1.07	1.15	1.06	1.14	1.05	1.16	1.07	1.11	1.08	1.09	1.09	1.14	1.11	1.08	1.07	1.11	1.10	1.10	1.10
Case5_F6_3	Phase Bt Norwalk 345		70	1249	900	PT345-LM34	1.16	1.12	FB115	1.11	1.06	1.06	1.07	1.11	1.07	1.09	1.08	1.10	1.07	1.12	1.09	1.11	1.10	1.16	1.12	1.06	1.08	1.10	1.10	1.10	
Case5_F7_3	Phase Bt Plumtree 345		70	1249	900	PT345-LM34	1.38	1.29	ROCKY	1.15	1.09	1.15	1.14	1.06	1.06	1.05	1.05	1.07	1.07	1.10	1.11	1.12	1.11	1.15	1.12	1.21	1.20	1.38	1.29		
Case5_bas	No Fault		70	1249	900	BK345-ED34	1.10	1.10	FB115	1.05	1.05	1.06	1.06	1.06	1.06	1.05	1.05	1.06	1.06	1.06	1.06	1.06	1.06	1.08	1.08	1.09	1.10	1.07	1.07	1.08	1.08
Case5_F1_3	Phase Plumtree		70	1249	900	BK345-ED34	1.45	1.36	ROCKY	1.16	1.12	1.17	1.14	1.13	1.11	1.07	1.06	1.14	1.12	1.13	1.10	1.11	1.10	1.15	1.11	1.24	1.23	1.45	1.36		
Case5_F4_3	Phase Norwalk Junction		70	1249	900	BK345-ED34	1.15	1.10	BK345	1.15	1.07	1.09	1.08	1.13	1.09	1.13	1.06	1.13	1.09	1.15	1.09	1.14	1.09	1.15	1.10	1.10	1.08	1.12	1.10	1.10	1.10
Case5_F5_3	Phase Singer		70	1249	900	BK345-ED34	1.17	1.10	ED345	1.11	1.05	1.10	1.06	1.15	1.05	1.16	1.05	1.17	1.06	1.14	1.08	1.09	1.09	1.13	1.10	1.08	1.07	1.14	1.08	1.10	1.10
Case5_F6_3	Phase Bt Norwalk 345		70	1249	900	BK345-ED34	1.13	1.10	FB115	1.05	1.06	1.06	1.07	1.11	1.05	1.10	1.06	1.11	1.06	1.12	1.08	1.11	1.09	1.13	1.10	1.07	1.07	1.09	1.09	1.10	1.10
Case5_F7_3	Phase Bt Plumtree 345		70	1249	900	BK345-ED34	1.40	1.30	ROCKY	1.11	1.09	1.16	1.14	1.06	1.06	1.04	1.04	1.07	1.06	1.12	1.10	1.10	1.09	1.13	1.10	1.25	1.22	1.40	1.30		
Case5_bas	No Fault		70	1249	900	NE138-NO13	1.09	1.09	FB115	1.05	1.05	1.06	1.06	1.05	1.05	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.08	1.08	1.09	1.09	1.07	1.07	1.08	1.08
Case5_F1_3	Phase Plumtree		70	1249	900	NE138-NO13	1.29	1.28	ROCKY	1.10	1.08	1.12	1.11	1.06	1.06	1.06	1.05	1.06	1.05	1.06	1.05	1.10	1.08	1.10	1.10	1.12	1.11	1.15	1.12	1.29	1.28
Case5_F2_3	Phase East Devon		70	1249	900	NE138-NO13	1.13	1.09	BK345	1.08	1.05	1.08	1.05	1.07	1.05	1.06	1.05	1.07	1.05	1.13	1.08	1.11	1.07	1.10	1.09	1.09	1.06	1.11	1.07	1.11	1.07
Case5_F3_1	Phase East Devon		70	1249	900	NE138-NO13	1.10	1.08	ESHOR	1.05	1.04	1.06	1.05	1.05	1.04	1.05	1.05	1.06	1.05	1.08	1.06	1.10	1.07	1.09	1.08	1.06	1.06	1.08	1.07	1.10	1.07
Case5_F4_3	Phase Norwalk Junction		70	1249	900	NE138-NO13	1.18	1.10	FB115	1.17	1.07	1.11	1.07	1.09	1.07	1.07	1.07	1.08	1.08	1.12	1.08	1.12	1.09	1.18	1.10	1.13	1.07	1.17	1.10	1.10	1.10
Case5_F5_3	Phase Singer		70	1249	900	NE138-NO13	1.15	1.09	FB115	1.07	1.05	1.07	1.06	1.05	1.05	1.15	1.06	1.06	1.06	1.11	1.07	1.07	1.08	1.15	1.09	1.07	1.07	1.12	1.08	1.10	1.10
Case5_F6_3	Phase Bt Norwalk 345		70	1249	900	NE138-NO13	1.11	1.10	ESHOR	1.06	1.06	1.06	1.07	1.05	1.05	1.09	1.08	1.06	1.06	1.11	1.07	1.11	1.08	1.11	1.10	1.07	1.07	1.09	1.09	1.10	1.10
Case5_F7_3	Phase Bt Plumtree 345		70	1249	900	NE138-NO13	1.38	1.30	ROCKY	1.13	1.09	1.17	1.15	1.07	1.06	1.06	1.06	1.08	1.07	1.08	1.08	1.10	1.10	1.13	1.10	1.22	1.22	1.38	1.30		
Case5_bas	No Fault		70	1249	900	LM345-PLVA	1.11	1.11	FB115	1.08	1.08	1.08	1.08	1.07	1.07	1.05	1.05	1.08	1.08	1.08	1.08	1.09	1.09	1.11	1.11	1.09	1.09	1.10	1.10	1.10	1.10
Case5_F1_3	Phase Plumtree		70	1249	900	LM345-PLVA	1.46	1.34	ROCKY	1.16	1.10	1.16	1.16	1.07	1.07	1.05	1.05	1.08	1.08	1.15	1.12	1.12	1.11	1.17	1.14	1.20	1.18	1.46	1.34		
Case5_F2_3	Phase East Devon		70	1249	900	LM345-PLVA	1.18	1.11	ESHOR	1.14	1.09	1.12	1.09	1.12	1.09	1.09	1.05	1.12	1.10	1.17	1.08	1.18	1.09	1.14	1.11	1.12	1.10	1.14	1.10	1.10	
Case5_F3_1	Phase East Devon		70	1249	900	LM345-PLVA	1.13	1.10	ESHOR	1.09	1.07	1.09	1.08	1.09	1.07	1.06	1.05	1.10	1.08	1.11	1.07	1.13	1.09	1.12	1.10	1.09	1.08	1.11	1.09	1.10	1.10
Case5_F4_3	Phase Norwalk Junction		70	1249	900	LM345-PLVA	1.23	1.13	FB115	1.22	1.13	1.17	1.12	1.13	1.10	1.12	1.07	1.12	1.10	1.11	1.10	1.11	1.10	1.10	1.23	1.13	1.18	1.12	1.20	1.12	
Case5_F5_3	Phase Singer		70	1249	900	LM345-PLVA	1.15	1.10	FB115	1.14	1.09	1.13	1.09	1.11	1.08	1.11	1.06	1.12	1.09	1.11	1.08	1.08	1.09	1.15	1.10	1.12	1.09	1.10	1.10	1.10	
Case5_F6_3	Phase Bt Norwalk 345		70	1249	900	LM345-PLVA	1.14	1.11	PT115	1.14	1.09	1.14	1.09	1.11	1.08	1.12	1.09	1.10	1.08	1.14	1.09	1.11	1.10	1.11	1.11	1.13	1.09	1.09	1.10	1.10	
Case5_F7_3	Phase Bt Plumtree 345		70	1249	900	LM345-PLVA	1.53	1.35	ROCKY	1.15	1.12	1.15	1.16	1.09	1.09	1.06	1.06	1.12	1.09	1.13	1.10	1.12	1.11	1.15	1.12	1.23	1.20	1.53	1.35		

CASE #: 5B - Case 5 (Old) + 5 Miles of Cable (GE 2C and 6C windows)
 Fault Closing at 0V on each phase, 4 cycle clearing
 DONE BY: Jack King/EnerNex

DATE: 12/14/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_basNo Fault			30	0	500				1.11	1.11	ED345	1.09	1.09	1.08	1.08	1.10	1.10	1.08	1.08	1.11	1.11	1.08	1.08	1.08	1.08	1.07	1.07	1.08	1.08	1.07	1.07
Case5_F1.3 Phase	Plumtree		30	0	500				1.27	1.23	STONY	1.23	1.16	1.27	1.22	1.16	1.14	1.14	1.13	1.18	1.14	1.15	1.12	1.14	1.12	1.16	1.15	1.27	1.22	1.25	1.23
Case5_F2.3 Phase	East Devon		30	0	500				1.31	1.12	ED345	1.19	1.09	1.15	1.10	1.30	1.11	1.17	1.09	1.31	1.12	1.09	1.07	1.11	1.08	1.12	1.08	1.18	1.11	1.16	1.12
Case5_F3.1 Phase	East Devon		30	0	500				1.24	1.16	ED345	1.16	1.12	1.18	1.11	1.22	1.15	1.15	1.11	1.24	1.16	1.09	1.08	1.12	1.10	1.09	1.08	1.15	1.11	1.14	1.11
Case5_F4.3 Phase	Norwalk Junction		30	0	500				1.35	1.17	NW345	1.10	1.09	1.12	1.10	1.35	1.15	1.21	1.17	1.32	1.15	1.13	1.12	1.11	1.11	1.09	1.12	1.10	1.14	1.09	
Case5_F5.3 Phase	Singer		30	0	500				1.52	1.31	ED345	1.38	1.24	1.38	1.20	1.49	1.30	1.34	1.17	1.52	1.31	1.27	1.16	1.28	1.18	1.22	1.14	1.39	1.20	1.34	1.20
Case5_F6.3 Phase Bt	Norwalk 345		30	0	500				1.35	1.22	NW345	1.28	1.13	1.28	1.13	1.35	1.19	1.23	1.22	1.35	1.20	1.15	1.10	1.15	1.09	1.13	1.12	1.25	1.14	1.27	1.15
Case5_F7.3 Phase Bt	Plumtree 345		30	0	500				1.27	1.28	ROCKY	1.18	1.14	1.25	1.24	1.13	1.13	1.13	1.12	1.15	1.15	1.12	1.12	1.11	1.11	1.15	1.16	1.25	1.24	1.27	1.28
Case5_basNo Fault			30	0	500	PT345-LM34	1.13	1.13	ED345	1.12	1.12	1.11	1.11	1.12	1.12	1.09	1.09	1.13	1.13	1.09	1.09	1.09	1.09	1.07	1.07	1.10	1.10	1.10	1.08	1.08	
Case5_F2.3 Phase	East Devon		30	0	500	PT345-LM34	1.71	1.41	PT345	1.71	1.40	1.70	1.37	1.70	1.40	1.45	1.26	1.69	1.41	1.24	1.11	1.32	1.20	1.32	1.17	1.66	1.35	1.59	1.30		
Case5_F3.1 Phase	East Devon		30	0	500	PT345-LM34	1.49	1.35	ED345	1.46	1.32	1.39	1.27	1.48	1.34	1.33	1.23	1.49	1.35	1.13	1.10	1.23	1.17	1.19	1.13	1.39	1.26	1.32	1.21		
Case5_F4.3 Phase	Norwalk Junction		30	0	500	PT345-LM34	1.35	1.17	NW345	1.20	1.17	1.20	1.17	1.35	1.13	1.21	1.14	1.34	1.13	1.10	1.09	1.10	1.10	1.09	1.08	1.19	1.15	1.23	1.13		
Case5_F5.3 Phase	Singer		30	0	500	PT345-LM34	1.49	1.20	PT345	1.49	1.19	1.40	1.12	1.49	1.20	1.28	1.10	1.44	1.19	1.17	1.07	1.17	1.07	1.16	1.09	1.40	1.14	1.34	1.16		
Case5_F6.3 Phase Bt	Norwalk 345		30	0	500	PT345-LM34	1.38	1.14	PT345	1.38	1.10	1.31	1.13	1.36	1.12	1.21	1.13	1.35	1.12	1.11	1.08	1.10	1.09	1.15	1.10	1.29	1.14	1.22	1.14		
Case5_F7.3 Phase Bt	Plumtree 345		30	0	500	PT345-LM34	1.22	1.21	ROCKY	1.19	1.15	1.21	1.19	1.15	1.12	1.14	1.13	1.16	1.13	1.12	1.13	1.12	1.12	1.14	1.14	1.20	1.21	1.22	1.17		
Case5_basNo Fault			30	0	500	BK345-ED34	1.12	1.12	ED345	1.09	1.09	1.09	1.09	1.11	1.11	1.08	1.08	1.12	1.12	1.06	1.06	1.08	1.08	1.06	1.06	1.08	1.08	1.07	1.07		
Case5_F1.3 Phase	Plumtree		30	0	500	BK345-ED34	1.52	1.48	PT345	1.52	1.46	1.47	1.47	1.49	1.42	1.35	1.29	1.51	1.46	1.14	1.13	1.22	1.21	1.26	1.27	1.47	1.48	1.39	1.40		
Case5_F4.3 Phase	Norwalk Junction		30	0	500	BK345-ED34	1.71	1.27	ED345	1.16	1.08	1.19	1.11	1.68	1.26	1.31	1.18	1.71	1.27	1.15	1.08	1.17	1.10	1.14	1.09	1.17	1.11	1.17	1.11		
Case5_F5.3 Phase	Singer		30	0	500	BK345-ED34	1.37	1.16	ED345	1.26	1.10	1.24	1.09	1.34	1.15	1.22	1.09	1.37	1.16	1.09	1.07	1.10	1.08	1.10	1.07	1.23	1.10	1.22	1.11		
Case5_F6.3 Phase Bt	Norwalk 345		30	0	500	BK345-ED34	1.33	1.14	ED345	1.24	1.10	1.21	1.12	1.33	1.12	1.17	1.14	1.33	1.12	1.09	1.07	1.07	1.08	1.09	1.08	1.20	1.13	1.18	1.11		
Case5_F7.3 Phase Bt	Plumtree 345		30	0	500	BK345-ED34	1.25	1.22	PT115	1.19	1.13	1.25	1.19	1.16	1.13	1.16	1.14	1.18	1.15	1.11	1.09	1.10	1.12	1.12	1.11	1.24	1.19	1.21	1.22		
Case5_basNo Fault			30	0	500	NE138-NO13	1.12	1.12	ED345	1.10	1.10	1.09	1.09	1.11	1.11	1.10	1.10	1.12	1.12	1.09	1.09	1.09	1.09	1.07	1.07	1.09	1.09	1.08	1.08		
Case5_F1.3 Phase	Plumtree		30	0	500	NE138-NO13	1.35	1.32	ROCKY	1.25	1.20	1.34	1.32	1.21	1.20	1.20	1.18	1.23	1.21	1.17	1.17	1.15	1.20	1.22	1.33	1.31	1.35	1.30			
Case5_F2.3 Phase	East Devon		30	0	500	NE138-NO13	1.29	1.17	ED345	1.21	1.13	1.25	1.13	1.28	1.16	1.21	1.13	1.29	1.17	1.14	1.09	1.14	1.12	1.14	1.10	1.26	1.12	1.25	1.13		
Case5_F3.1 Phase	East Devon		30	0	500	NE138-NO13	1.20	1.18	ED345	1.15	1.13	1.16	1.13	1.19	1.17	1.18	1.15	1.20	1.18	1.12	1.08	1.13	1.11	1.11	1.09	1.16	1.12	1.15	1.12		
Case5_F4.3 Phase	Norwalk Junction		30	0	500	NE138-NO13	1.31	1.18	NW345	1.12	1.07	1.13	1.10	1.31	1.18	1.26	1.15	1.28	1.18	1.15	1.11	1.12	1.12	1.13	1.08	1.13	1.11	1.20	1.09		
Case5_F5.3 Phase	Singer		30	0	500	NE138-NO13	1.32	1.17	NW345	1.27	1.10	1.26	1.10	1.32	1.15	1.31	1.14	1.32	1.17	1.17	1.09	1.15	1.08	1.14	1.09	1.25	1.10	1.23	1.14		
Case5_F6.3 Phase Bt	Norwalk 345		30	0	500	NE138-NO13	1.26	1.15	NW115	1.17	1.10	1.19	1.11	1.24	1.12	1.26	1.15	1.25	1.12	1.13	1.10	1.10	1.10	1.11	1.08	1.23	1.12	1.21	1.11		
Case5_F7.3 Phase Bt	Plumtree 345		30	0	500	NE138-NO13	1.28	1.26	STONY	1.18	1.14	1.27	1.25	1.13	1.12	1.11	1.12	1.14	1.14	1.11	1.11	1.10	1.10	1.12	1.14	1.28	1.26	1.21	1.26		
Case5_basNo Fault			30	0	500	LM345-PLVA	1.13	1.13	ED345	1.12	1.12	1.11	1.11	1.13	1.13	1.10	1.10	1.13	1.13	1.10	1.10	1.10	1.10	1.09	1.09	1.11	1.11	1.10	1.10		
Case5_F1.3 Phase	Plumtree		30	0	500	LM345-PLVA	1.24	1.24	PT115	1.19	1.18	1.24	1.24	1.15	1.14	1.13	1.12	1.17	1.16	1.14	1.14	1.14	1.14	1.18	1.16	1.24	1.23	1.22	1.21		
Case5_F2.3 Phase	East Devon		30	0	500	LM345-PLVA	1.60	1.24	ED345	1.52	1.21	1.45	1.21	1.57	1.23	1.34	1.17	1.60	1.24	1.18	1.14	1.23	1.17	1.20	1.16	1.40	1.21	1.33	1.19		
Case5_F3.1 Phase	East Devon		30	0	500	LM345-PLVA	1.26	1.22	ED345	1.24	1.18	1.22	1.18	1.25	1.20	1.18	1.15	1.26	1.22	1.14	1.10	1.17	1.14	1.16	1.12	1.23	1.17	1.22	1.16		
Case5_F4.3 Phase	Norwalk Junction		30	0	500	LM345-PLVA	1.40	1.15	NW345	1.16	1.12	1.16	1.13	1.40	1.12	1.23	1.15	1.39	1.13	1.15	1.10	1.12	1.09	1.13	1.11	1.16	1.13	1.19	1.13		
Case5_F5.3 Phase	Singer		30	0	500	LM345-PLVA	1.53	1.22	NW345	1.48	1.19	1.36	1.16	1.53	1.21	1.31	1.11	1.52	1.22	1.23	1.10	1.23	1.09	1.23	1.09	1.36	1.15	1.32	1.19		
Case5_F6.3 Phase Bt	Norwalk 345		30	0	500	LM345-PLVA	1.40	1.15	ED345	1.34	1.11	1.27	1.14	1.39	1.13	1.24	1.14	1.40	1.13	1.17	1.10	1.16	1.10	1.15	1.12	1.27	1.15	1.26	1.15		
Case5_F7.3 Phase Bt	Plumtree 345		30	0	500	LM345-PLVA	1.31	1.27	ROCKY	1.19	1.18	1.28	1.26	1.17	1.13	1.14	1.14	1.16	1.15	1.13	1.13	1.12	1.13	1.19	1.16	1.29	1.27	1.31	1.25		

CASE #: 5B - Case 5 (Old) + 5 Miles of Cable (GE 2C and 6C windows)
 Fault Closing at 0V on each phase, 4 cycle clearing
 DONE BY: Jack King/EnerNex

DATE: 12/14/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_basNo Fault			40	0	500				1.09	1.09	ED345	1.07	1.07	1.06	1.06	1.09	1.09	1.06	1.06	1.09	1.09	1.07	1.07	1.06	1.06	1.05	1.05	1.06	1.06	1.05	1.05
Case5_F1.3 Phase	Plumtree		40	0	500				1.21	1.17	PT115	1.19	1.14	1.21	1.17	1.14	1.12	1.09	1.09	1.15	1.12	1.12	1.11	1.10	1.09	1.11	1.11	1.20	1.16	1.19	1.14
Case5_F2.3 Phase	East Devon		40	0	500				1.29	1.10	ED345	1.17	1.07	1.13	1.07	1.27	1.09	1.13	1.07	1.29	1.10	1.08	1.06	1.08	1.07	1.07	1.06	1.14	1.08	1.12	1.09
Case5_F3.1 Phase	East Devon		40	0	500				1.20	1.13	ED345	1.12	1.10	1.12	1.09	1.18	1.12	1.12	1.09	1.20	1.13	1.08	1.07	1.09	1.07	1.06	1.11	1.09	1.10	1.08	
Case5_F4.3 Phase	Norwalk Junction		40	0	500				1.34	1.15	NW345	1.09	1.08	1.09	1.07	1.34	1.15	1.19	1.12	1.30	1.14	1.11	1.10	1.08	1.09	1.09	1.06	1.10	1.08	1.10	1.07
Case5_F5.3 Phase	Singer		40	0	500				1.50	1.29	ED345	1.36	1.21	1.33	1.17	1.47	1.28	1.31	1.15	1.50	1.29	1.24	1.14	1.23	1.15	1.17	1.11	1.33	1.17	1.31	1.16
Case5_F6.3 Phase Bt	Norwalk 345		40	0	500				1.33	1.20	NW345	1.25	1.12	1.23	1.12	1.33	1.18	1.20	1.20	1.32	1.18	1.14	1.07	1.11	1.06	1.11	1.08	1.20	1.13	1.19	1.11
Case5_F7.3 Phase Bt	Plumtree 345		40	0	500				1.21	1.20	PT115	1.14	1.12	1.21	1.19	1.11	1.11	1.09	1.11	1.14	1.14	1.09	1.09	1.08	1.08	1.11	1.11	1.20	1.19	1.20	1.20
Case5_basNo Fault			40	0	500	PT345-LM34	1.11	1.11	ED345	1.10	1.10	1.08	1.08	1.10	1.10	1.07	1.07	1.11	1.11	1.07	1.07	1.07	1.07	1.05	1.05	1.08	1.08	1.06	1.06	1.06	
Case5_F2.3 Phase	East Devon		40	0	500	PT345-LM34	1.57	1.31	PT345	1.57	1.30	1.47	1.27	1.54	1.30	1.36	1.19	1.54	1.31	1.19	1.09	1.22	1.13	1.22	1.12	1.46	1.24	1.42	1.42	1.21	
Case5_F3.1 Phase	East Devon		40	0	500	PT345-LM34	1.35	1.25	ED345	1.34	1.22	1.28	1.18	1.34	1.24	1.22	1.15	1.35	1.25	1.10	1.07	1.15	1.11	1.13	1.08	1.27	1.17	1.23	1.14		
Case5_F4.3 Phase	Norwalk Junction		40	0	500	PT345-LM34	1.32	1.12	ED345	1.13	1.10	1.13	1.10	1.32	1.11	1.18	1.12	1.32	1.11	1.09	1.08	1.06	1.07	1.07	1.05	1.14	1.10	1.16	1.07		
Case5_F5.3 Phase	Singer		40	0	500	PT345-LM34	1.44	1.18	NW345	1.42	1.16	1.29	1.11	1.44	1.18	1.24	1.09	1.42	1.18	1.13	1.06	1.13	1.04	1.10	1.06	1.26	1.12	1.26	1.11		
Case5_F6.3 Phase Bt	Norwalk 345		40	0	500	PT345-LM34	1.32	1.12	ED345	1.30	1.08	1.22	1.11	1.32	1.10	1.16	1.10	1.32	1.09	1.08	1.07	1.07	1.06	1.11	1.08	1.19	1.12	1.16	1.12		
Case5_F7.3 Phase Bt	Plumtree 345		40	0	500	PT345-LM34	1.17	1.14	PT115	1.16	1.14	1.17	1.13	1.12	1.10	1.10	1.10	1.13	1.11	1.11	1.12	1.09	1.09	1.10	1.11	1.16	1.12	1.15	1.10		
Case5_basNo Fault			40	0	500	BK345-ED34	1.11	1.11	ED345	1.08	1.08	1.07	1.07	1.10	1.10	1.07	1.07	1.11	1.11	1.05	1.05	1.06	1.06	1.04	1.04	1.06	1.06	1.05	1.05		
Case5_F1.3 Phase	Plumtree		40	0	500	BK345-ED34	1.40	1.35	ED345	1.39	1.32	1.34	1.35	1.39	1.32	1.27	1.21	1.40	1.35	1.11	1.10	1.16	1.15	1.17	1.18	1.34	1.33	1.29	1.29		
Case5_F4.3 Phase	Norwalk Junction		40	0	500	BK345-ED34	1.59	1.22	ED345	1.14	1.08	1.12	1.08	1.58	1.22	1.25	1.15	1.59	1.22	1.09	1.07	1.14	1.09	1.11	1.07	1.12	1.08	1.13	1.09		
Case5_F5.3 Phase	Singer		40	0	500	BK345-ED34	1.35	1.16	ED345	1.24	1.09	1.20	1.08	1.33	1.14	1.19	1.06	1.35	1.16	1.07	1.06	1.07	1.06	1.08	1.06	1.21	1.07	1.23	1.09		
Case5_F6.3 Phase Bt	Norwalk 345		40	0	500	BK345-ED34	1.29	1.12	NW345	1.19	1.08	1.16	1.10	1.29	1.10	1.14	1.12	1.29	1.11	1.08	1.06	1.05	1.07	1.07	1.06	1.14	1.10	1.15	1.09		
Case5_F7.3 Phase Bt	Plumtree 345		40	0	500	BK345-ED34	1.22	1.15	STONY	1.17	1.12	1.22	1.15	1.13	1.12	1.16	1.10	1.14	1.14	1.11	1.08	1.09	1.09	1.09	1.08	1.22	1.14	1.18	1.15		
Case5_basNo Fault			40	0	500	NE138-NO13	1.10	1.10	ED345	1.08	1.08	1.07	1.07	1.09	1.09	1.08	1.08	1.10	1.10	1.07	1.07	1.07	1.07	1.05	1.05	1.06	1.06	1.06	1.06		
Case5_F1.3 Phase	Plumtree		40	0	500	NE138-NO13	1.21	1.20	PT115	1.18	1.15	1.21	1.20	1.16	1.14	1.13	1.12	1.16	1.15	1.13	1.12	1.11	1.10	1.16	1.15	1.20	1.20	1.20	1.20		
Case5_F2.3 Phase	East Devon		40	0	500	NE138-NO13	1.23	1.13	ED345	1.13	1.10	1.14	1.09	1.20	1.12	1.16	1.09	1.23	1.13	1.11	1.06	1.09	1.08	1.10	1.07	1.14	1.09	1.14	1.10		
Case5_F3.1 Phase	East Devon		40	0	500	NE138-NO13	1.16	1.13	ED345	1.11	1.10	1.11	1.09	1.15	1.12	1.14	1.10	1.16	1.13	1.08	1.06	1.10	1.07	1.08	1.06	1.11	1.09	1.11	1.08		
Case5_F4.3 Phase	Norwalk Junction		40	0	500	NE138-NO13	1.27	1.14	NW345	1.10	1.07	1.09	1.07	1.27	1.14	1.19	1.11	1.25	1.14	1.11	1.08	1.09	1.08	1.08	1.06	1.09	1.07	1.13	1.07		
Case5_F5.3 Phase	Singer		40	0	500	NE138-NO13	1.30	1.15	NW345	1.24	1.09	1.18	1.08	1.30	1.13	1.28	1.12	1.29	1.15	1.15	1.07	1.11	1.06	1.13	1.05	1.17	1.07	1.19	1.10		
Case5_F6.3 Phase Bt	Norwalk 345		40	0	500	NE138-NO13	1.22	1.10	ED345	1.14	1.08	1.12	1.07	1.21	1.09	1.20	1.10	1.22	1.10	1.09	1.08	1.05	1.07	1.07	1.06	1.13	1.08	1.14	1.08		
Case5_F7.3 Phase Bt	Plumtree 345		40	0	500	NE138-NO13	1.23	1.20	PT115	1.13	1.11	1.23	1.20	1.11	1.10	1.08	1.09	1.11	1.11	1.09	1.09	1.08	1.08	1.11	1.11	1.22	1.18	1.18	1.18		
Case5_basNo Fault			40	0	500	LM345-PLVA	1.11	1.11	ED345	1.10	1.10	1.09	1.09	1.11	1.11	1.08	1.08	1.11	1.11	1.08	1.08	1.07	1.07	1.06	1.06	1.08	1.08	1.07	1.07		
Case5_F1.3 Phase	Plumtree		40	0	500	LM345-PLVA	1.17	1.18	PT115	1.17	1.15	1.17	1.18	1.11	1.10	1.08	1.08	1.12	1.12	1.11	1.12	1.10	1.10	1.11	1.10	1.16	1.18	1.15	1.14		
Case5_F2.3 Phase	East Devon		40	0	500	LM345-PLVA	1.49	1.18	ED345	1.39	1.16	1.35	1.15	1.47	1.17	1.23	1.12	1.49	1.18	1.14	1.09	1.16	1.12	1.15	1.12	1.31	1.15	1.28	1.14		
Case5_F3.1 Phase	East Devon		40	0	500	LM345-PLVA	1.19	1.15	ED345	1.16	1.13	1.15	1.13	1.18	1.14	1.12	1.10	1.19	1.15	1.10	1.07	1.12	1.09	1.11	1.08	1.15	1.12	1.14	1.10		
Case5_F4.3 Phase	Norwalk Junction		40	0	500	LM345-PLVA	1.36	1.12	NW345	1.13	1.09	1.12	1.10	1.36	1.10	1.20	1.12	1.36	1.11	1.12	1.08	1.07	1.07	1.09	1.08	1.12	1.10	1.14	1.08		
Case5_F5.3 Phase	Singer		40	0	500	LM345-PLVA	1.47	1.19	ED345	1.41	1.16	1.29	1.12	1.47	1.19	1.26	1.09	1.47	1.19	1.18	1.07	1.19	1.06	1.17	1.07	1.28	1.10	1.26	1.12		
Case5_F6.3 Phase Bt	Norwalk 345		40	0	500	LM345-PLVA	1.35	1.11	ED345	1.28	1.08	1.21	1.10	1.35	1.10	1.18	1.10	1.35	1.10	1.13	1.08	1.12	1.07	1.11	1.08	1.20	1.11	1.19	1.11		
Case5_F7.3 Phase Bt	Plumtree 345		40	0	500	LM345-PLVA	1.21	1.20	PT115	1.15	1.15	1.21	1.20	1.12	1.11	1.12	1.12	1.12	1.11	1.11	1.11	1.10	1.10	1.14	1.12	1.19	1.20	1.21	1.14		

CASE #: 5B - Case 5 (Old) + 5 Miles of Cable (GE 2C and 6C windows)
 Fault Closing at 0V on each phase, 4 cycle clearing
 DONE BY: Jack King/EnerNex

DATE: 12/14/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																							
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY					
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		50	302	690				1.07	1.07	ED345	1.06	1.06	1.05	1.05	1.07	1.07	1.05	1.05	1.07	1.07	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Case5_F1.3	Phase Plumtree		50	302	690				1.25	1.19	STONY	1.14	1.09	1.15	1.14	1.09	1.07	1.05	1.05	1.09	1.09	1.15	1.11	1.08	1.07	1.07	1.08	1.25	1.19	1.16	1.13		
Case5_F2.3	Phase East Devon		50	302	690				1.25	1.08	ED345	1.14	1.05	1.12	1.05	1.22	1.06	1.14	1.04	1.25	1.07	1.09	1.08	1.09	1.08	1.05	1.05	1.12	1.04	1.11	1.05		
Case5_F3.1	Phase East Devon		50	302	690				1.12	1.09	ED345	1.08	1.06	1.07	1.06	1.10	1.08	1.08	1.06	1.12	1.09	1.07	1.06	1.09	1.07	1.07	1.06	1.07	1.06	1.07	1.05		
Case5_F4.3	Phase Norwalk Junction		50	302	690				1.30	1.13	NW345	1.09	1.07	1.08	1.09	1.30	1.09	1.20	1.12	1.29	1.09	1.09	1.08	1.07	1.07	1.05	1.06	1.12	1.13	1.11	1.11		
Case5_F5.3	Phase Singer		50	302	690				1.42	1.22	ED345	1.28	1.14	1.23	1.12	1.40	1.19	1.31	1.11	1.42	1.22	1.20	1.09	1.25	1.11	1.19	1.08	1.21	1.11	1.19	1.11		
Case5_F6.3	Phase Bt Norwalk 345		50	302	690				1.26	1.13	ED345	1.17	1.07	1.16	1.07	1.25	1.09	1.22	1.13	1.26	1.10	1.11	1.06	1.10	1.05	1.10	1.06	1.15	1.09	1.14	1.09		
Case5_F7.3	Phase Bt Plumtree 345		50	302	690				1.24	1.17	STONY	1.11	1.09	1.15	1.15	1.10	1.07	1.06	1.05	1.08	1.08	1.11	1.11	1.08	1.07	1.09	1.09	1.24	1.17	1.14	1.11		
Case5_bas	No Fault		50	302	690	PT345-LM34	1.08	1.08	ED345	1.07	1.07	1.06	1.06	1.07	1.07	1.05	1.05	1.08	1.08	1.06	1.06	1.06	1.06	1.06	1.05	1.05	1.06	1.06	1.06	1.05	1.05		
Case5_F2.3	Phase East Devon		50	302	690	PT345-LM34	1.34	1.17	NW345	1.32	1.16	1.27	1.14	1.34	1.17	1.23	1.11	1.33	1.17	1.12	1.09	1.18	1.09	1.14	1.09	1.14	1.09	1.27	1.14	1.24	1.11		
Case5_F3.1	Phase East Devon		50	302	690	PT345-LM34	1.18	1.11	ED345	1.17	1.09	1.14	1.07	1.17	1.10	1.12	1.06	1.18	1.11	1.08	1.06	1.08	1.06	1.08	1.05	1.14	1.07	1.11	1.06				
Case5_F4.3	Phase Norwalk Junction		50	302	690	PT345-LM34	1.30	1.11	NW345	1.06	1.05	1.06	1.05	1.30	1.07	1.17	1.11	1.28	1.08	1.11	1.07	1.07	1.06	1.06	1.04	1.07	1.10	1.05	1.07				
Case5_F5.3	Phase Singer		50	302	690	PT345-LM34	1.36	1.12	NW345	1.32	1.09	1.21	1.06	1.36	1.11	1.26	1.06	1.36	1.12	1.10	1.06	1.14	1.05	1.08	1.05	1.21	1.05	1.15	1.05				
Case5_F6.3	Phase Bt Norwalk 345		50	302	690	PT345-LM34	1.31	1.11	NW345	1.28	1.06	1.19	1.06	1.31	1.06	1.14	1.11	1.30	1.06	1.10	1.07	1.05	1.06	1.06	1.05	1.16	1.05	1.08	1.08				
Case5_F7.3	Phase Bt Plumtree 345		50	302	690	PT345-LM34	1.16	1.16	PT115	1.10	1.11	1.16	1.16	1.07	1.07	1.06	1.06	1.09	1.08	1.09	1.08	1.07	1.07	1.08	1.07	1.16	1.15	1.12	1.09				
Case5_bas	No Fault		50	302	690	BK345-ED34	1.08	1.08	ED345	1.06	1.06	1.05	1.05	1.07	1.07	1.05	1.05	1.08	1.08	1.05	1.05	1.06	1.06	1.05	1.05	1.05	1.05	1.04	1.04				
Case5_F1.3	Phase Plumtree		50	302	690	BK345-ED34	1.27	1.25	STONY	1.25	1.23	1.23	1.25	1.25	1.19	1.16	1.14	1.25	1.21	1.11	1.08	1.12	1.10	1.13	1.09	1.27	1.21	1.19	1.15				
Case5_F4.3	Phase Norwalk Junction		50	302	690	BK345-ED34	1.41	1.14	ED345	1.11	1.06	1.10	1.06	1.41	1.14	1.17	1.11	1.41	1.14	1.10	1.08	1.15	1.08	1.09	1.07	1.09	1.10	1.10	1.09				
Case5_F5.3	Phase Singer		50	302	690	BK345-ED34	1.30	1.11	ED345	1.17	1.05	1.15	1.05	1.28	1.09	1.22	1.05	1.30	1.11	1.08	1.06	1.04	1.05	1.05	1.04	1.15	1.05	1.13	1.06				
Case5_F6.3	Phase Bt Norwalk 345		50	302	690	BK345-ED34	1.27	1.11	ED345	1.17	1.06	1.11	1.06	1.27	1.07	1.16	1.11	1.27	1.07	1.09	1.07	1.06	1.05	1.05	1.11	1.06	1.07	1.07					
Case5_F7.3	Phase Bt Plumtree 345		50	302	690	BK345-ED34	1.23	1.16	STONY	1.12	1.09	1.17	1.16	1.09	1.09	1.07	1.06	1.11	1.10	1.09	1.08	1.07	1.07	1.08	1.08	1.23	1.15	1.15	1.09				
Case5_bas	No Fault		50	302	690	NE138-NO13	1.07	1.07	ED345	1.05	1.05	1.05	1.05	1.06	1.06	1.06	1.06	1.07	1.07	1.06	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.04	1.04			
Case5_F1.3	Phase Plumtree		50	302	690	NE138-NO13	1.20	1.18	STONY	1.13	1.14	1.17	1.18	1.10	1.09	1.09	1.08	1.10	1.09	1.14	1.09	1.10	1.09	1.09	1.07	1.20	1.16	1.15	1.11				
Case5_F2.3	Phase East Devon		50	302	690	NE138-NO13	1.14	1.09	ED345	1.11	1.06	1.11	1.06	1.12	1.07	1.08	1.06	1.14	1.07	1.13	1.07	1.11	1.09	1.08	1.05	1.11	1.05	1.12	1.06				
Case5_F3.1	Phase East Devon		50	302	690	NE138-NO13	1.11	1.07	ED345	1.07	1.06	1.07	1.05	1.09	1.07	1.10	1.06	1.11	1.07	1.07	1.05	1.08	1.06	1.07	1.05	1.07	1.05	1.08	1.05				
Case5_F4.3	Phase Norwalk Junction		50	302	690	NE138-NO13	1.18	1.10	NW345	1.08	1.06	1.09	1.07	1.18	1.09	1.17	1.09	1.17	1.09	1.10	1.08	1.08	1.06	1.06	1.06	1.12	1.10	1.11	1.09				
Case5_F5.3	Phase Singer		50	302	690	NE138-NO13	1.23	1.08	ED345	1.13	1.05	1.13	1.05	1.23	1.07	1.21	1.06	1.23	1.08	1.11	1.07	1.12	1.06	1.10	1.04	1.11	1.06	1.11	1.06				
Case5_F6.3	Phase Bt Norwalk 345		50	302	690	NE138-NO13	1.18	1.09	ED345	1.11	1.05	1.11	1.06	1.18	1.06	1.17	1.09	1.18	1.07	1.07	1.07	1.05	1.06	1.05	1.05	1.10	1.06	1.09	1.07				
Case5_F7.3	Phase Bt Plumtree 345		50	302	690	NE138-NO13	1.20	1.15	STONY	1.10	1.08	1.15	1.14	1.07	1.06	1.06	1.05	1.07	1.07	1.10	1.10	1.06	1.06	1.08	1.08	1.20	1.15	1.13	1.09				
Case5_bas	No Fault		50	302	690	LM345-PLVA	1.08	1.08	ED345	1.07	1.07	1.07	1.07	1.08	1.08	1.06	1.06	1.08	1.08	1.07	1.07	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06				
Case5_F1.3	Phase Plumtree		50	302	690	LM345-PLVA	1.18	1.17	PT115	1.13	1.13	1.18	1.17	1.08	1.08	1.06	1.06	1.09	1.08	1.10	1.08	1.09	1.09	1.10	1.08	1.17	1.13	1.14	1.10				
Case5_F2.3	Phase East Devon		50	302	690	LM345-PLVA	1.32	1.11	ED345	1.26	1.10	1.19	1.09	1.30	1.11	1.12	1.08	1.32	1.11	1.15	1.09	1.12	1.08	1.10	1.07	1.17	1.09	1.14	1.08				
Case5_F3.1	Phase East Devon		50	302	690	LM345-PLVA	1.10	1.09	ED345	1.09	1.08	1.09	1.07	1.10	1.08	1.08	1.06	1.10	1.09	1.08	1.06	1.07	1.07	1.08	1.06	1.09	1.07	1.09	1.07				
Case5_F4.3	Phase Norwalk Junction		50	302	690	LM345-PLVA	1.33	1.10	NW345	1.12	1.06	1.10	1.06	1.33	1.08	1.18	1.10	1.30	1.08	1.11	1.07	1.07	1.07	1.08	1.05	1.09	1.07	1.09	1.07				
Case5_F5.3	Phase Singer		50	302	690	LM345-PLVA	1.36	1.12	NW345	1.29	1.09	1.23	1.05	1.36	1.11	1.25	1.06	1.36	1.12	1.13	1.06	1.17	1.05	1.12	1.05	1.23	1.05	1.18	1.07				
Case5_F6.3	Phase Bt Norwalk 345		50	302	690	LM345-PLVA	1.32	1.12	NW345	1.29	1.06	1.17	1.07	1.32	1.06	1.15	1.12	1.32	1.07	1.10	1.07	1.09	1.06	1.06	1.16	1.06	1.14	1.09					
Case5_F7.3	Phase Bt Plumtree 345		50	302	690	LM345-PLVA	1.23	1.15	STONY	1.14	1.12	1.15	1.15	1.07	1.07	1.06	1.06	1.09	1.08	1.12	1.10	1.07	1.07	1.10	1.09	1.23	1.15	1.17	1.11				

CASE #: 5B - Case 5 (Old) + 5 Miles of Cable (GE 2C and 6C windows)
 Fault Closing at 0V on each phase, 4 cycle clearing
 DONE BY: Jack King/EnerNex

DATE: 12/14/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		70	1249	900				1.10	1.10	FB115	1.06	1.06	1.07	1.07	1.06	1.06	1.05	1.05	1.07	1.07	1.07	1.07	1.09	1.09	1.10	1.10	1.07	1.07	1.09	1.09
Case5_F1_3	Phase Plumtree		70	1249	900				1.38	1.38	ROCKY	1.12	1.12	1.15	1.15	1.09	1.06	1.05	1.05	1.09	1.07	1.13	1.10	1.13	1.13	1.17	1.16	1.16	1.19	1.38	1.38
Case5_F2_3	Phase East Devon		70	1249	900				1.16	1.10	ED345	1.10	1.06	1.10	1.06	1.15	1.05	1.07	1.04	1.16	1.06	1.14	1.09	1.10	1.09	1.13	1.10	1.08	1.07	1.15	1.09
Case5_F3_1	Phase East Devon		70	1249	900				1.11	1.10	ESHOR	1.06	1.05	1.07	1.07	1.06	1.06	1.05	1.05	1.07	1.06	1.10	1.08	1.11	1.10	1.11	1.10	1.08	1.07	1.09	1.08
Case5_F4_3	Phase Norwalk Junction		70	1249	900				1.22	1.24	ROCKY	1.17	1.10	1.13	1.11	1.19	1.09	1.13	1.09	1.19	1.09	1.11	1.09	1.11	1.09	1.22	1.14	1.17	1.12	1.22	1.24
Case5_F5_3	Phase Singer		70	1249	900				1.26	1.12	ED345	1.17	1.06	1.14	1.07	1.25	1.05	1.21	1.08	1.26	1.07	1.07	1.12	1.08	1.25	1.12	1.14	1.07	1.22	1.11	
Case5_F6_3	Phase Bt Norwalk 345		70	1249	900				1.21	1.09	NW345	1.13	1.05	1.10	1.07	1.21	1.06	1.12	1.09	1.19	1.07	1.08	1.08	1.08	1.09	1.16	1.09	1.08	1.07	1.14	1.09
Case5_F7_3	Phase Bt Plumtree 345		70	1249	900				1.39	1.39	ROCKY	1.14	1.12	1.15	1.14	1.06	1.05	1.05	1.06	1.08	1.07	1.09	1.09	1.11	1.10	1.13	1.13	1.21	1.18	1.39	1.39
Case5_bas	No Fault		70	1249	900	PT345-LM34	1.10	1.10	FB115	1.06	1.06	1.07	1.07	1.07	1.07	1.05	1.05	1.05	1.07	1.07	1.07	1.07	1.09	1.10	1.10	1.10	1.07	1.07	1.09	1.09	
Case5_F2_3	Phase East Devon		70	1249	900	PT345-LM34	1.22	1.11	ESHOR	1.20	1.11	1.17	1.09	1.17	1.10	1.13	1.05	1.18	1.10	1.15	1.08	1.22	1.09	1.16	1.11	1.17	1.09	1.18	1.10	1.10	
Case5_F3_1	Phase East Devon		70	1249	900	PT345-LM34	1.11	1.09	FB115	1.08	1.06	1.07	1.06	1.08	1.06	1.05	1.04	1.08	1.07	1.08	1.07	1.11	1.08	1.11	1.09	1.08	1.06	1.09	1.07	1.07	
Case5_F4_3	Phase Norwalk Junction		70	1249	900	PT345-LM34	1.18	1.23	ROCKY	1.15	1.13	1.14	1.13	1.18	1.06	1.10	1.07	1.17	1.07	1.09	1.08	1.11	1.10	1.15	1.10	1.14	1.13	1.17	1.23		
Case5_F5_3	Phase Singer		70	1249	900	PT345-LM34	1.23	1.11	ED345	1.21	1.06	1.17	1.06	1.22	1.05	1.13	1.06	1.23	1.06	1.08	1.09	1.08	1.09	1.16	1.11	1.15	1.07	1.16	1.10		
Case5_F6_3	Phase Bt Norwalk 345		70	1249	900	PT345-LM34	1.20	1.13	NW345	1.19	1.06	1.14	1.07	1.20	1.06	1.09	1.09	1.20	1.07	1.11	1.09	1.12	1.11	1.16	1.13	1.12	1.08	1.16	1.10		
Case5_F7_3	Phase Bt Plumtree 345		70	1249	900	PT345-LM34	1.41	1.35	ROCKY	1.13	1.11	1.15	1.14	1.07	1.06	1.05	1.05	1.07	1.07	1.12	1.09	1.13	1.13	1.17	1.14	1.19	1.14	1.41	1.35		
Case5_bas	No Fault		70	1249	900	BK345-ED34	1.10	1.10	FB115	1.05	1.05	1.06	1.06	1.06	1.06	1.05	1.05	1.06	1.06	1.06	1.07	1.09	1.09	1.10	1.10	1.10	1.07	1.07	1.08	1.08	
Case5_F1_3	Phase Plumtree		70	1249	900	BK345-ED34	1.40	1.38	ROCKY	1.20	1.16	1.19	1.17	1.17	1.12	1.10	1.08	1.18	1.14	1.12	1.09	1.13	1.11	1.15	1.14	1.24	1.16	1.40	1.38		
Case5_F4_3	Phase Norwalk Junction		70	1249	900	BK345-ED34	1.25	1.19	ED345	1.18	1.09	1.10	1.10	1.24	1.09	1.12	1.09	1.25	1.09	1.18	1.10	1.17	1.10	1.17	1.11	1.13	1.11	1.18	1.19		
Case5_F5_3	Phase Singer		70	1249	900	BK345-ED34	1.25	1.10	ED345	1.18	1.05	1.14	1.06	1.25	1.05	1.18	1.04	1.25	1.06	1.13	1.09	1.09	1.09	1.14	1.10	1.11	1.06	1.18	1.09		
Case5_F6_3	Phase Bt Norwalk 345		70	1249	900	BK345-ED34	1.19	1.10	ED345	1.11	1.06	1.11	1.07	1.19	1.05	1.10	1.07	1.19	1.06	1.13	1.08	1.11	1.09	1.14	1.10	1.07	1.08	1.13	1.09		
Case5_F7_3	Phase Bt Plumtree 345		70	1249	900	BK345-ED34	1.34	1.34	ROCKY	1.13	1.10	1.15	1.13	1.07	1.06	1.05	1.05	1.09	1.07	1.10	1.10	1.11	1.09	1.14	1.13	1.20	1.17	1.34	1.34		
Case5_bas	No Fault		70	1249	900	NE138-NO13	1.09	1.09	FB115	1.05	1.05	1.06	1.06	1.05	1.05	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.08	1.08	1.09	1.09	1.07	1.07	1.08	1.08	
Case5_F1_3	Phase Plumtree		70	1249	900	NE138-NO13	1.36	1.36	ROCKY	1.11	1.11	1.14	1.13	1.07	1.06	1.07	1.06	1.08	1.07	1.15	1.08	1.12	1.11	1.15	1.14	1.15	1.10	1.36	1.36		
Case5_F2_3	Phase East Devon		70	1249	900	NE138-NO13	1.15	1.09	BK345	1.12	1.05	1.09	1.06	1.08	1.05	1.06	1.05	1.07	1.06	1.15	1.08	1.13	1.08	1.10	1.09	1.09	1.06	1.10	1.08		
Case5_F3_1	Phase East Devon		70	1249	900	NE138-NO13	1.09	1.08	ESHOR	1.05	1.04	1.06	1.05	1.04	1.04	1.05	1.05	1.05	1.05	1.08	1.06	1.09	1.07	1.09	1.08	1.06	1.05	1.07	1.07		
Case5_F4_3	Phase Norwalk Junction		70	1249	900	NE138-NO13	1.21	1.21	ROCKY	1.16	1.07	1.12	1.10	1.08	1.07	1.08	1.08	1.08	1.08	1.13	1.08	1.13	1.09	1.19	1.12	1.12	1.09	1.21	1.21		
Case5_F5_3	Phase Singer		70	1249	900	NE138-NO13	1.17	1.09	FB115	1.07	1.06	1.08	1.06	1.09	1.05	1.14	1.06	1.10	1.06	1.09	1.07	1.07	1.08	1.17	1.09	1.07	1.07	1.14	1.09		
Case5_F6_3	Phase Bt Norwalk 345		70	1249	900	NE138-NO13	1.11	1.10	FB115	1.07	1.05	1.09	1.07	1.05	1.05	1.09	1.07	1.06	1.06	1.11	1.07	1.11	1.09	1.11	1.10	1.09	1.08	1.11	1.10		
Case5_F7_3	Phase Bt Plumtree 345		70	1249	900	NE138-NO13	1.43	1.38	ROCKY	1.13	1.09	1.13	1.12	1.07	1.05	1.06	1.06	1.09	1.07	1.11	1.08	1.11	1.11	1.13	1.13	1.19	1.16	1.43	1.38		
Case5_bas	No Fault		70	1249	900	LM345-PLVA	1.11	1.11	FB115	1.08	1.08	1.08	1.08	1.07	1.07	1.05	1.05	1.08	1.08	1.08	1.08	1.09	1.11	1.11	1.11	1.09	1.09	1.10	1.10		
Case5_F1_3	Phase Plumtree		70	1249	900	LM345-PLVA	1.42	1.39	ROCKY	1.14	1.12	1.16	1.15	1.09	1.08	1.06	1.06	1.10	1.08	1.15	1.11	1.14	1.14	1.18	1.16	1.17	1.16	1.42	1.39		
Case5_F2_3	Phase East Devon		70	1249	900	LM345-PLVA	1.20	1.12	ESHOR	1.14	1.10	1.15	1.10	1.11	1.09	1.10	1.06	1.12	1.10	1.17	1.09	1.20	1.10	1.16	1.12	1.15	1.11	1.17	1.11		
Case5_F3_1	Phase East Devon		70	1249	900	LM345-PLVA	1.12	1.10	FB115	1.07	1.07	1.08	1.08	1.08	1.07	1.05	1.05	1.08	1.08	1.09	1.07	1.12	1.08	1.12	1.10	1.08	1.08	1.09	1.09		
Case5_F4_3	Phase Norwalk Junction		70	1249	900	LM345-PLVA	1.23	1.17	FB115	1.21	1.15	1.18	1.13	1.15	1.08	1.12	1.09	1.15	1.09	1.11	1.10	1.12	1.10	1.23	1.14	1.19	1.17	1.22	1.16		
Case5_F5_3	Phase Singer		70	1249	900	LM345-PLVA	1.21	1.11	PT345	1.21	1.10	1.13	1.09	1.21	1.08	1.12	1.07	1.20	1.09	1.13	1.09	1.08	1.09	1.17	1.11	1.12	1.09	1.12	1.10		
Case5_F6_3	Phase Bt Norwalk 345		70	1249	900	LM345-PLVA	1.16	1.11	ED345	1.13	1.09	1.15	1.09	1.15	1.08	1.11	1.09	1.16	1.08	1.13	1.11	1.11	1.10	1.12	1.11	1.12	1.09	1.09	1.10		
Case5_F7_3	Phase Bt Plumtree 345		70	1249	900	LM345-PLVA	1.47	1.41	ROCKY	1.16	1.13	1.20	1.17	1.10	1.09	1.07	1.06	1.12	1.10	1.13	1.10	1.14	1.13	1.17	1.14	1.18	1.20	1.47	1.41		

CASE #: 5B1 - Case 5 (old) + 5 Miles of Cable with 3 55 MVAR Reactors DATE: 12/07/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_basNo Fault			40	0	500				1.07	1.07	ED345	1.06	1.06	1.05	1.05	1.07	1.07	1.05	1.05	1.07	1.07	1.06	1.06	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04
Case5_F1.3 Phase		Plumtree	40	0	500				1.34	1.21	ROCKY	1.29	1.15	1.21	1.21	1.23	1.16	1.11	1.12	1.22	1.14	1.17	1.13	1.15	1.09	1.30	1.11	1.25	1.21	1.34	1.17
Case5_F2.3 Phase		East Devon	40	0	500				1.46	1.25	ED345	1.26	1.17	1.23	1.19	1.44	1.25	1.22	1.12	1.46	1.25	1.25	1.15	1.26	1.14	1.16	1.14	1.20	1.19	1.25	1.16
Case5_F3.1 Phase		East Devon	40	0	500				1.29	1.11	ED345	1.16	1.10	1.15	1.10	1.27	1.10	1.16	1.07	1.29	1.11	1.16	1.09	1.12	1.06	1.12	1.07	1.14	1.10	1.15	1.08
Case5_F4.3 Phase		Norwalk Junction	40	0	500				1.68	1.41	NW345	1.25	1.14	1.25	1.16	1.68	1.41	1.33	1.24	1.67	1.41	1.21	1.19	1.19	1.18	1.11	1.11	1.27	1.15	1.36	1.16
Case5_F5.3 Phase		Singer	40	0	500				1.58	1.51	NW345	1.46	1.42	1.33	1.37	1.58	1.50	1.34	1.37	1.52	1.51	1.30	1.29	1.22	1.25	1.26	1.25	1.30	1.39	1.29	1.37
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500				1.70	1.41	NW345	1.42	1.28	1.28	1.26	1.70	1.39	1.40	1.29	1.69	1.41	1.24	1.20	1.31	1.19	1.13	1.16	1.26	1.25	1.24	1.23
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500				1.59	1.26	PT345	1.59	1.18	1.40	1.18	1.42	1.25	1.19	1.20	1.40	1.26	1.11	1.15	1.13	1.13	1.10	1.41	1.17	1.37	1.18	
Case5_basNo Fault			40	0	500	PT345-LM34	1.08	1.08	ED345	1.07	1.07	1.06	1.06	1.08	1.08	1.06	1.06	1.08	1.08	1.08	1.06	1.06	1.06	1.06	1.04	1.04	1.06	1.06	1.05	1.05	
Case5_F2.3 Phase		East Devon	40	0	500	PT345-LM34	1.49	1.29	ED345	1.45	1.28	1.32	1.26	1.47	1.29	1.28	1.21	1.49	1.28	1.22	1.16	1.26	1.17	1.17	1.13	1.33	1.25	1.28	1.19		
Case5_F3.1 Phase		East Devon	40	0	500	PT345-LM34	1.36	1.11	ED345	1.36	1.10	1.28	1.08	1.36	1.11	1.25	1.07	1.36	1.11	1.19	1.06	1.23	1.06	1.15	1.05	1.27	1.07	1.26	1.09		
Case5_F4.3 Phase		Norwalk Junction	40	0	500	PT345-LM34	1.64	1.35	NW345	1.22	1.19	1.22	1.19	1.64	1.35	1.29	1.18	1.61	1.34	1.21	1.13	1.20	1.09	1.11	1.10	1.21	1.19	1.16	1.21		
Case5_F5.3 Phase		Singer	40	0	500	PT345-LM34	1.47	1.47	ED345	1.45	1.42	1.31	1.35	1.44	1.43	1.26	1.26	1.47	1.47	1.21	1.12	1.20	1.20	1.14	1.30	1.36	1.23	1.21			
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	PT345-LM34	1.54	1.32	NW345	1.40	1.26	1.27	1.18	1.54	1.32	1.26	1.15	1.53	1.32	1.21	1.15	1.17	1.11	1.18	1.14	1.24	1.20	1.25	1.21		
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	PT345-LM34	1.41	1.20	PT345	1.41	1.20	1.20	1.19	1.24	1.16	1.15	1.13	1.24	1.16	1.16	1.13	1.14	1.09	1.14	1.13	1.19	1.18	1.15	1.16		
Case5_basNo Fault			40	0	500	PT345-ED34	1.07	1.07	ED345	1.06	1.06	1.05	1.05	1.07	1.07	1.05	1.05	1.07	1.07	1.05	1.05	1.05	1.05	1.03	1.03	1.05	1.05	1.04	1.04		
Case5_F1.3 Phase		Plumtree	40	0	500	BK345-ED34	1.46	1.30	PT345	1.46	1.30	1.37	1.24	1.41	1.27	1.26	1.20	1.41	1.30	1.17	1.09	1.19	1.15	1.37	1.15	1.35	1.24	1.43	1.20		
Case5_F4.3 Phase		Norwalk Junction	40	0	500	BK345-ED34	1.76	1.37	NW345	1.36	1.12	1.58	1.15	1.76	1.37	1.38	1.22	1.73	1.35	1.15	1.11	1.27	1.15	1.26	1.09	1.54	1.14	1.46	1.12		
Case5_F5.3 Phase		Singer	40	0	500	BK345-ED34	1.55	1.41	NW345	1.35	1.30	1.28	1.23	1.55	1.41	1.26	1.21	1.48	1.40	1.20	1.13	1.16	1.13	1.19	1.13	1.26	1.23	1.26	1.23		
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	BK345-ED34	1.65	1.34	ED345	1.31	1.20	1.22	1.16	1.65	1.33	1.30	1.18	1.65	1.34	1.14	1.14	1.21	1.08	1.18	1.10	1.25	1.15	1.27	1.16		
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	BK345-ED34	1.47	1.21	ED345	1.45	1.19	1.34	1.21	1.42	1.20	1.23	1.14	1.47	1.21	1.17	1.15	1.17	1.10	1.19	1.12	1.31	1.20	1.41	1.18		
Case5_basNo Fault			40	0	500	NE138-NO13	1.07	1.07	ED345	1.06	1.06	1.05	1.05	1.07	1.07	1.06	1.06	1.07	1.07	1.06	1.06	1.06	1.06	1.06	1.04	1.04	1.05	1.05	1.04	1.04	
Case5_F1.3 Phase		Plumtree	40	0	500	NE138-NO13	1.34	1.16	PT345	1.34	1.13	1.24	1.16	1.26	1.13	1.23	1.12	1.26	1.12	1.31	1.12	1.20	1.10	1.31	1.11	1.24	1.16	1.29	1.15		
Case5_F2.3 Phase		East Devon	40	0	500	NE138-NO13	1.45	1.23	NW345	1.25	1.20	1.26	1.21	1.45	1.23	1.26	1.13	1.38	1.20	1.29	1.13	1.21	1.16	1.16	1.10	1.28	1.22	1.23	1.15		
Case5_F3.1 Phase		East Devon	40	0	500	NE138-NO13	1.23	1.08	ED345	1.14	1.07	1.14	1.06	1.20	1.08	1.21	1.06	1.23	1.08	1.16	1.07	1.12	1.06	1.12	1.04	1.14	1.06	1.15	1.06		
Case5_F4.3 Phase		Norwalk Junction	40	0	500	NE138-NO13	1.55	1.25	NW345	1.25	1.14	1.16	1.15	1.55	1.25	1.45	1.17	1.53	1.22	1.34	1.19	1.24	1.12	1.14	1.12	1.22	1.15	1.28	1.16		
Case5_F5.3 Phase		Singer	40	0	500	NE138-NO13	1.48	1.36	NW345	1.33	1.30	1.28	1.31	1.48	1.36	1.36	1.31	1.44	1.36	1.21	1.18	1.13	1.13	1.19	1.15	1.28	1.29	1.28	1.31		
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	NE138-NO13	1.59	1.29	NW345	1.32	1.20	1.21	1.29	1.59	1.28	1.49	1.23	1.56	1.27	1.23	1.11	1.22	1.10	1.18	1.12	1.23	1.28	1.21	1.23		
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	NE138-NO13	1.45	1.19	PT345	1.45	1.14	1.30	1.19	1.35	1.17	1.29	1.16	1.36	1.17	1.18	1.11	1.17	1.08	1.19	1.09	1.30	1.18	1.30	1.17		
Case5_basNo Fault			40	0	500	LM345-PLVA	1.08	1.08	ED345	1.07	1.07	1.06	1.06	1.08	1.08	1.06	1.06	1.08	1.08	1.07	1.07	1.06	1.06	1.05	1.05	1.06	1.06	1.05	1.05		
Case5_F1.3 Phase		Plumtree	40	0	500	LM345-PLVA	1.33	1.18	PT345	1.33	1.14	1.23	1.15	1.23	1.18	1.15	1.12	1.23	1.16	1.21	1.13	1.16	1.09	1.17	1.14	1.23	1.15	1.21	1.17		
Case5_F2.3 Phase		East Devon	40	0	500	LM345-PLVA	1.61	1.31	NW345	1.41	1.20	1.28	1.18	1.61	1.31	1.25	1.13	1.57	1.26	1.30	1.20	1.21	1.18	1.19	1.14	1.25	1.17	1.31	1.17		
Case5_F3.1 Phase		East Devon	40	0	500	LM345-PLVA	1.25	1.10	NW115	1.20	1.08	1.19	1.07	1.22	1.09	1.25	1.06	1.24	1.10	1.19	1.06	1.19	1.06	1.13	1.05	1.19	1.06	1.20	1.06		
Case5_F4.3 Phase		Norwalk Junction	40	0	500	LM345-PLVA	1.64	1.40	NW345	1.28	1.24	1.26	1.21	1.64	1.40	1.24	1.19	1.56	1.38	1.20	1.23	1.15	1.11	1.18	1.13	1.22	1.19	1.22	1.20		
Case5_F5.3 Phase		Singer	40	0	500	LM345-PLVA	1.48	1.45	ED345	1.38	1.38	1.38	1.38	1.47	1.45	1.30	1.25	1.48	1.45	1.30	1.18	1.15	1.14	1.26	1.22	1.38	1.41	1.35	1.36		
Case5_F6.3 Phase Bt		Norwalk 345	40	0	500	LM345-PLVA	1.56	1.35	NW345	1.31	1.25	1.25	1.25	1.56	1.33	1.23	1.15	1.50	1.35	1.23	1.13	1.17	1.11	1.19	1.12	1.28	1.23	1.23	1.22		
Case5_F7.3 Phase Bt		Plumtree 345	40	0	500	LM345-PLVA	1.35	1.19	PT345	1.35	1.15	1.26	1.17	1.23	1.19	1.15	1.14	1.26	1.17	1.18	1.12	1.15	1.08	1.18	1.10	1.24	1.16	1.23	1.15		

CASE #: 5B1 - Case 5 (old) + 5 Miles of Cable with 3 55 MVAR Reactors DATE: 12/07/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C
Case5_bas	No Fault		50	302	690				1.05	1.05	BK345	1.04	1.04	1.04	1.04	1.05	1.05	1.04	1.04	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04		
Case5_F1_3	Phase Plumtree		50	302	690				1.20	1.24	STONY	1.20	1.11	1.17	1.16	1.17	1.07	1.09	1.06	1.14	1.08	1.18	1.13	1.12	1.07	1.20	1.11	1.18	1.24	1.15	1.15	
Case5_F2_3	Phase East Devon		50	302	690				1.52	1.23	NW345	1.31	1.22	1.21	1.13	1.52	1.23	1.17	1.10	1.49	1.23	1.30	1.21	1.17	1.12	1.15	1.13	1.26	1.18	1.20	1.14	
Case5_F3_1	Phase East Devon		50	302	690				1.24	1.09	ED345	1.14	1.08	1.09	1.05	1.23	1.06	1.14	1.05	1.24	1.06	1.14	1.09	1.11	1.05	1.10	1.05	1.15	1.05	1.12	1.05	
Case5_F4_3	Phase Norwalk Junction		50	302	690				1.54	1.34	STONY	1.38	1.22	1.28	1.21	1.45	1.34	1.24	1.27	1.44	1.32	1.20	1.15	1.15	1.19	1.16	1.16	1.54	1.18	1.39	1.16	
Case5_F5_3	Phase Singer		50	302	690				1.51	1.43	NW345	1.41	1.31	1.24	1.21	1.51	1.43	1.29	1.33	1.45	1.41	1.28	1.27	1.29	1.33	1.18	1.20	1.33	1.34	1.21	1.25	
Case5_F6_3	Phase Bt Norwalk 345		50	302	690				1.57	1.29	NW345	1.35	1.20	1.25	1.21	1.57	1.29	1.34	1.21	1.57	1.29	1.22	1.25	1.26	1.25	1.16	1.14	1.27	1.24	1.20	1.22	
Case5_F7_3	Phase Bt Plumtree 345		50	302	690				1.44	1.25	PT345	1.44	1.16	1.33	1.19	1.33	1.18	1.16	1.07	1.31	1.18	1.13	1.11	1.15	1.08	1.08	1.09	1.42	1.25	1.28	1.20	
Case5_bas	No Fault		50	302	690	PT345-LM34	1.05	1.05	ED345	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.04	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	
Case5_F2_3	Phase East Devon		50	302	690	PT345-LM34	1.44	1.20	NW345	1.32	1.16	1.21	1.14	1.44	1.20	1.19	1.11	1.40	1.16	1.22	1.13	1.16	1.09	1.20	1.10	1.18	1.13	1.22	1.11			
Case5_F3_1	Phase East Devon		50	302	690	PT345-LM34	1.29	1.11	ED345	1.26	1.04	1.19	1.04	1.28	1.05	1.21	1.04	1.29	1.06	1.19	1.11	1.17	1.04	1.13	1.04	1.18	1.04	1.15	1.03			
Case5_F4_3	Phase Norwalk Junction		50	302	690	PT345-LM34	1.52	1.25	NW345	1.10	1.19	1.10	1.19	1.52	1.25	1.25	1.13	1.51	1.24	1.16	1.13	1.18	1.06	1.07	1.07	1.13	1.17	1.08	1.11			
Case5_F5_3	Phase Singer		50	302	690	PT345-LM34	1.46	1.35	ED345	1.40	1.30	1.24	1.20	1.41	1.30	1.22	1.15	1.46	1.30	1.15	1.15	1.13	1.15	1.13	1.18	1.20	1.33	1.35	1.22	1.21		
Case5_F6_3	Phase Bt Norwalk 345		50	302	690	PT345-LM34	1.45	1.23	NW345	1.33	1.20	1.16	1.16	1.45	1.23	1.22	1.09	1.44	1.20	1.17	1.16	1.15	1.05	1.12	1.08	1.17	1.23	1.16	1.12			
Case5_F7_3	Phase Bt Plumtree 345		50	302	690	PT345-LM34	1.33	1.26	PT345	1.33	1.12	1.17	1.14	1.16	1.07	1.10	1.06	1.15	1.08	1.12	1.09	1.14	1.07	1.13	1.07	1.32	1.26	1.20	1.15			
Case5_bas	No Fault		50	302	690	BK345-ED34	1.05	1.05	ESHOR	1.04	1.04	1.03	1.03	1.04	1.04	1.03	1.03	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.03	1.03	1.03	1.03	1.03	
Case5_F1_3	Phase Plumtree		50	302	690	BK345-ED34	1.36	1.17	STONY	1.34	1.15	1.21	1.14	1.25	1.14	1.17	1.11	1.27	1.15	1.20	1.17	1.15	1.09	1.26	1.08	1.36	1.17	1.32	1.14			
Case5_F4_3	Phase Norwalk Junction		50	302	690	BK345-ED34	1.60	1.23	NW345	1.36	1.12	1.39	1.11	1.60	1.23	1.25	1.17	1.55	1.22	1.16	1.11	1.20	1.13	1.31	1.08	1.51	1.15	1.41	1.13			
Case5_F5_3	Phase Singer		50	302	690	BK345-ED34	1.46	1.33	NW345	1.32	1.23	1.24	1.13	1.46	1.33	1.21	1.21	1.44	1.32	1.28	1.15	1.21	1.06	1.14	1.07	1.27	1.29	1.22	1.17			
Case5_F6_3	Phase Bt Norwalk 345		50	302	690	BK345-ED34	1.58	1.23	NW345	1.28	1.16	1.16	1.19	1.58	1.23	1.28	1.11	1.57	1.23	1.19	1.12	1.21	1.06	1.13	1.07	1.22	1.14	1.17	1.09			
Case5_F7_3	Phase Bt Plumtree 345		50	302	690	BK345-ED34	1.38	1.24	PT345	1.38	1.14	1.25	1.15	1.36	1.13	1.17	1.07	1.38	1.16	1.19	1.12	1.19	1.07	1.12	1.10	1.33	1.24	1.22	1.17			
Case5_bas	No Fault		50	302	690	NE138-NO13	1.05	1.05	ESHOR	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.03	1.03	1.03	
Case5_F1_3	Phase Plumtree		50	302	690	NE138-NO13	1.23	1.20	PT345	1.23	1.09	1.18	1.13	1.16	1.06	1.13	1.07	1.14	1.07	1.19	1.13	1.15	1.08	1.16	1.07	1.21	1.20	1.18	1.11			
Case5_F2_3	Phase East Devon		50	302	690	NE138-NO13	1.31	1.14	NW345	1.20	1.12	1.12	1.09	1.31	1.11	1.17	1.08	1.30	1.08	1.23	1.14	1.15	1.08	1.12	1.10	1.15	1.13	1.12	1.11			
Case5_F3_1	Phase East Devon		50	302	690	NE138-NO13	1.20	1.07	ED345	1.11	1.04	1.09	1.03	1.18	1.04	1.19	1.04	1.20	1.04	1.12	1.07	1.11	1.04	1.10	1.04	1.11	1.03	1.10	1.03			
Case5_F4_3	Phase Norwalk Junction		50	302	690	NE138-NO13	1.45	1.24	STONY	1.32	1.24	1.22	1.14	1.31	1.15	1.22	1.13	1.27	1.14	1.20	1.16	1.10	1.09	1.14	1.12	1.45	1.13	1.31	1.14			
Case5_F5_3	Phase Singer		50	302	690	NE138-NO13	1.39	1.28	NW345	1.30	1.17	1.20	1.13	1.39	1.25	1.28	1.22	1.35	1.26	1.26	1.16	1.17	1.18	1.15	1.11	1.24	1.28	1.16	1.16			
Case5_F6_3	Phase Bt Norwalk 345		50	302	690	NE138-NO13	1.45	1.17	NW345	1.24	1.10	1.14	1.17	1.45	1.17	1.40	1.13	1.43	1.16	1.19	1.11	1.18	1.12	1.10	1.08	1.15	1.15	1.11	1.12			
Case5_F7_3	Phase Bt Plumtree 345		50	302	690	NE138-NO13	1.36	1.20	STONY	1.31	1.11	1.24	1.16	1.25	1.07	1.21	1.08	1.24	1.10	1.16	1.11	1.15	1.08	1.09	1.08	1.36	1.20	1.21	1.13			
Case5_bas	No Fault		50	302	690	LM345-PLVA	1.06	1.06	ED345	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.06	1.06	1.05	1.05	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.04	1.04	
Case5_F1_3	Phase Plumtree		50	302	690	LM345-PLVA	1.38	1.23	STONY	1.23	1.11	1.23	1.12	1.14	1.08	1.13	1.05	1.14	1.09	1.20	1.13	1.11	1.08	1.16	1.13	1.38	1.23	1.22	1.16			
Case5_F2_3	Phase East Devon		50	302	690	LM345-PLVA	1.54	1.18	NW345	1.37	1.11	1.22	1.11	1.54	1.18	1.20	1.08	1.47	1.15	1.30	1.17	1.19	1.10	1.16	1.08	1.42	1.12	1.21	1.13			
Case5_F3_1	Phase East Devon		50	302	690	LM345-PLVA	1.20	1.08	NW115	1.14	1.05	1.11	1.04	1.16	1.05	1.20	1.04	1.17	1.06	1.12	1.08	1.16	1.05	1.12	1.04	1.11	1.04	1.10	1.03			
Case5_F4_3	Phase Norwalk Junction		50	302	690	LM345-PLVA	1.42	1.28	NW345	1.40	1.20	1.29	1.22	1.42	1.28	1.22	1.21	1.38	1.26	1.19	1.17	1.17	1.14	1.22	1.16	1.38	1.27	1.26	1.25			
Case5_F5_3	Phase Singer		50	302	690	LM345-PLVA	1.38	1.35	ED345	1.35	1.28	1.29	1.20	1.37	1.35	1.26	1.19	1.38	1.34	1.27	1.17	1.28	1.23	1.18	1.12	1.24	1.32	1.20	1.19			
Case5_F6_3	Phase Bt Norwalk 345		50	302	690	LM345-PLVA	1.37	1.24	NW345	1.27	1.19	1.25	1.22	1.37	1.24	1.17	1.16	1.36	1.24	1.24	1.14	1.19	1.16	1.18	1.12	1.22	1.15	1.20	1.11			
Case5_F7_3	Phase Bt Plumtree 345		50	302	690	LM345-PLVA	1.34	1.25	STONY	1.23	1.10	1.20	1.17	1.16	1.10	1.10	1.05	1.16	1.11	1.20	1.13	1.10	1.07	1.18	1.11	1.34	1.25	1.20	1.16			

CASE #: 5B1 - Case 5 (old) + 5 Miles of Cable with 3 55 MVAR Reactors DATE: 12/07/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C
Case5_bas	No Fault		70	1249	900				1.08	1.08	FB115	1.02	1.02	1.04	1.04	1.02	1.02	1.02	1.02	1.02	1.02	1.05	1.05	1.07	1.07	1.08	1.08	1.04	1.04	1.06	1.06	
Case5_F1.3	Phase Plumtree		70	1249	900				1.27	1.42	ROCKY	1.15	1.13	1.08	1.15	1.12	1.03	1.02	1.01	1.12	1.01	1.20	1.11	1.17	1.08	1.15	1.14	1.20	1.09	1.27	1.42	
Case5_F2.3	Phase East Devon		70	1249	900				1.39	1.21	NW345	1.21	1.09	1.14	1.07	1.39	1.13	1.14	1.06	1.34	1.10	1.21	1.20	1.21	1.11	1.15	1.11	1.20	1.08	1.24	1.21	
Case5_F3.1	Phase East Devon		70	1249	900				1.15	1.08	BK345	1.06	1.03	1.06	1.03	1.09	1.00	1.07	1.01	1.08	1.00	1.15	1.08	1.14	1.07	1.13	1.07	1.08	1.03	1.12	1.05	
Case5_F4.3	Phase Norwalk Junction		70	1249	900				1.46	1.37	ROCKY	1.27	1.15	1.21	1.12	1.35	1.21	1.14	1.08	1.31	1.19	1.28	1.14	1.23	1.10	1.18	1.17	1.34	1.18	1.46	1.37	
Case5_F5.3	Phase Singer		70	1249	900				1.40	1.41	ROCKY	1.30	1.17	1.23	1.21	1.40	1.19	1.29	1.17	1.39	1.17	1.23	1.26	1.18	1.11	1.24	1.12	1.28	1.23	1.40	1.41	
Case5_F6.3	Phase Bt Norwalk 345		70	1249	900				1.52	1.42	ROCKY	1.24	1.09	1.22	1.19	1.38	1.16	1.26	1.14	1.37	1.14	1.14	1.15	1.18	1.07	1.19	1.09	1.19	1.17	1.52	1.42	
Case5_F7.3	Phase Bt Plumtree 345		70	1249	900				1.51	1.51	ROCKY	1.28	1.15	1.17	1.15	1.19	1.09	1.09	1.07	1.20	1.06	1.12	1.11	1.19	1.06	1.14	1.12	1.23	1.18	1.51	1.51	
Case5_bas	No Fault		70	1249	900	PT345-LM34	1.07	1.07	FB115	1.01	1.01	1.02	1.02	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.04	1.04	1.06	1.06	1.07	1.07	1.03	1.03	1.05	1.05		
Case5_F2.3	Phase East Devon		70	1249	900	PT345-LM34	1.23	1.15	NW345	1.13	1.03	1.04	1.01	1.23	1.02	1.05	1.01	1.18	1.02	1.19	1.13	1.12	1.09	1.13	1.12	1.09	1.13	1.12	1.09	1.02	1.14	1.15
Case5_F3.1	Phase East Devon		70	1249	900	PT345-LM34	1.14	1.10	BK345	1.04	0.97	1.01	0.99	1.01	0.97	1.01	0.98	1.01	0.97	1.14	1.10	1.08	1.05	1.07	1.06	1.01	0.99	1.04	1.02	1.04	1.02	
Case5_F4.3	Phase Norwalk Junction		70	1249	900	PT345-LM34	1.45	1.53	ROCKY	1.18	1.15	1.18	1.15	1.37	1.06	1.20	1.05	1.37	1.05	1.13	1.09	1.17	1.06	1.14	1.10	1.17	1.14	1.45	1.45	1.53	1.35	
Case5_F5.3	Phase Singer		70	1249	900	PT345-LM34	1.42	1.35	ROCKY	1.26	1.11	1.20	1.16	1.29	1.07	1.15	1.08	1.31	1.08	1.21	1.13	1.12	1.06	1.14	1.08	1.25	1.17	1.42	1.35	1.35	1.35	
Case5_F6.3	Phase Bt Norwalk 345		70	1249	900	PT345-LM34	1.33	1.33	ROCKY	1.31	1.11	1.16	1.15	1.28	1.04	1.15	1.05	1.25	1.02	1.13	1.13	1.15	1.07	1.15	1.09	1.20	1.18	1.33	1.33	1.33	1.33	
Case5_F7.3	Phase Bt Plumtree 345		70	1249	900	PT345-LM34	1.46	1.42	ROCKY	1.22	1.10	1.19	1.13	1.06	1.02	1.04	1.01	1.06	1.02	1.15	1.09	1.18	1.07	1.15	1.11	1.14	1.13	1.46	1.42	1.42	1.42	
Case5_bas	No Fault		70	1249	900	BK345-ED34	1.07	1.07	FB115	1.01	1.01	1.02	1.02	1.00	1.00	1.01	1.01	1.00	1.00	1.00	1.06	1.06	1.07	1.07	1.07	1.03	1.03	1.05	1.05	1.05	1.05	
Case5_F1.3	Phase Plumtree		70	1249	900	BK345-ED34	1.24	1.30	ROCKY	1.21	1.05	1.08	1.09	1.10	1.00	1.06	1.01	1.11	1.00	1.24	1.19	1.15	1.08	1.14	1.14	1.15	1.08	1.24	1.30	1.30	1.30	
Case5_F4.3	Phase Norwalk Junction		70	1249	900	BK345-ED34	1.62	1.35	NW345	1.48	1.18	1.41	1.14	1.62	1.04	1.25	1.02	1.55	1.01	1.17	1.12	1.20	1.10	1.16	1.18	1.43	1.21	1.50	1.35	1.35	1.35	
Case5_F5.3	Phase Singer		70	1249	900	BK345-ED34	1.34	1.20	NW345	1.33	1.10	1.19	1.13	1.34	1.09	1.19	1.14	1.33	1.10	1.20	1.15	1.21	1.07	1.14	1.08	1.21	1.13	1.31	1.20	1.20	1.20	
Case5_F6.3	Phase Bt Norwalk 345		70	1249	900	BK345-ED34	1.54	1.25	ED345	1.33	1.07	1.35	1.11	1.52	1.08	1.26	1.07	1.54	1.06	1.27	1.14	1.39	1.09	1.19	1.08	1.38	1.12	1.31	1.25	1.25	1.25	
Case5_F7.3	Phase Bt Plumtree 345		70	1249	900	BK345-ED34	1.38	1.46	ROCKY	1.22	1.09	1.08	1.12	1.16	0.99	1.05	1.00	1.14	1.00	1.17	1.11	1.20	1.08	1.17	1.14	1.27	1.16	1.38	1.46	1.46	1.46	
Case5_bas	No Fault		70	1249	900	NE138-NO13	1.06	1.06	FB115	1.01	1.01	1.02	1.02	1.00	1.00	1.02	1.02	1.01	1.01	1.03	1.03	1.06	1.06	1.06	1.06	1.06	1.03	1.03	1.05	1.05	1.05	
Case5_F1.3	Phase Plumtree		70	1249	900	NE138-NO13	1.38	1.28	ROCKY	1.19	1.06	1.08	1.10	1.11	1.01	1.04	1.02	1.10	1.00	1.14	1.06	1.12	1.06	1.11	1.08	1.18	1.10	1.38	1.28	1.28	1.28	
Case5_F2.3	Phase East Devon		70	1249	900	NE138-NO13	1.19	1.15	BK345	1.10	1.03	1.05	1.02	1.14	1.02	1.11	1.02	1.15	1.01	1.19	1.15	1.13	1.08	1.08	1.10	1.08	1.04	1.17	1.09	1.09	1.09	
Case5_F3.1	Phase East Devon		70	1249	900	NE138-NO13	1.12	1.07	BK345	1.06	1.00	1.04	1.00	1.05	0.98	1.06	0.99	1.06	0.98	1.12	1.07	1.10	1.05	1.11	1.05	1.05	1.01	1.10	1.03	1.03	1.03	
Case5_F4.3	Phase Norwalk Junction		70	1249	900	NE138-NO13	1.38	1.33	ROCKY	1.29	1.14	1.22	1.11	1.21	1.03	1.11	1.06	1.14	1.02	1.19	1.13	1.09	1.07	1.12	1.12	1.35	1.14	1.38	1.33	1.33	1.33	
Case5_F5.3	Phase Singer		70	1249	900	NE138-NO13	1.30	1.21	NW115	1.16	1.08	1.11	1.12	1.26	1.05	1.30	1.11	1.23	1.03	1.19	1.18	1.19	1.04	1.16	1.07	1.12	1.11	1.21	1.21	1.21	1.21	
Case5_F6.3	Phase Bt Norwalk 345		70	1249	900	NE138-NO13	1.28	1.23	ROCKY	1.11	1.05	1.11	1.08	1.24	1.03	1.27	1.07	1.23	1.02	1.17	1.10	1.20	1.05	1.18	1.07	1.13	1.09	1.28	1.23	1.23	1.23	
Case5_F7.3	Phase Bt Plumtree 345		70	1249	900	NE138-NO13	1.45	1.50	ROCKY	1.15	1.13	1.12	1.12	1.10	1.00	1.09	1.04	1.08	1.02	1.13	1.11	1.21	1.06	1.16	1.09	1.17	1.17	1.45	1.50	1.50	1.50	
Case5_bas	No Fault		70	1249	900	LM345-PLVA	1.07	1.07	FB115	1.02	1.02	1.04	1.04	1.02	1.02	1.02	1.02	1.02	1.02	1.04	1.04	1.06	1.06	1.07	1.07	1.04	1.04	1.05	1.05	1.05	1.05	
Case5_F1.3	Phase Plumtree		70	1249	900	LM345-PLVA	1.39	1.33	ROCKY	1.16	1.13	1.25	1.20	1.08	1.05	1.04	1.03	1.08	1.04	1.19	1.09	1.16	1.08	1.18	1.15	1.20	1.21	1.39	1.33	1.33	1.33	
Case5_F2.3	Phase East Devon		70	1249	900	LM345-PLVA	1.21	1.24	ROCKY	1.12	1.06	1.09	1.04	1.21	1.05	1.06	1.04	1.17	1.05	1.18	1.14	1.13	1.09	1.14	1.12	1.09	1.06	1.20	1.24	1.24	1.24	
Case5_F3.1	Phase East Devon		70	1249	900	LM345-PLVA	1.14	1.07	BK345	1.02	1.01	1.02	1.01	1.02	1.00	1.01	1.00	1.01	1.00	1.14	1.07	1.09	1.05	1.08	1.06	1.03	1.02	1.07	1.04	1.04	1.04	
Case5_F4.3	Phase Norwalk Junction		70	1249	900	LM345-PLVA	1.43	1.35	ROCKY	1.35	1.15	1.24	1.17	1.28	1.15	1.10	1.06	1.23	1.16	1.20	1.11	1.10	1.07	1.17	1.17	1.30	1.17	1.43	1.35	1.35	1.35	
Case5_F5.3	Phase Singer		70	1249	900	LM345-PLVA	1.33	1.26	ROCKY	1.28	1.13	1.13	1.14	1.20	1.11	1.12	1.10	1.16	1.08	1.19	1.15	1.14	1.05	1.13	1.08	1.19	1.20	1.33	1.26	1.26	1.26	
Case5_F6.3	Phase Bt Norwalk 345		70	1249	900	LM345-PLVA	1.28	1.32	ROCKY	1.22	1.07	1.24	1.15	1.24	1.05	1.10	1.04	1.28	1.03	1.17	1.13	1.14	1.07	1.14	1.08	1.23	1.18	1.23	1.32	1.32	1.32	
Case5_F7.3	Phase Bt Plumtree 345		70	1249	900	LM345-PLVA	1.48	1.40	ROCKY	1.15	1.13	1.25	1.17	1.07	1.03	1.03	1.03	1.08	1.04	1.17												

CASE #: Case 5C (Old 5 + 10) at 80% Source, ALT Load Model and future capacitors at Ansonia, Bunker Hill, Hawthorne
 DATE: 12/14/2004
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																										
										LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY	
																	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_basNo Fault			30	0	650				1.12	1.12	ED345	1.10	1.10	1.10	1.10	1.11	1.11	1.09	1.09	1.12	1.12	1.10	1.10	1.10	1.10	1.09	1.09	1.10	1.10	1.09	1.09	1.10	1.10	1.09	1.09	
Case5_F1.3 Phase		Plumtree	30	0	650				1.39	1.39	STONY	1.29	1.26	1.30	1.28	1.27	1.22	1.22	1.17	1.27	1.23	1.24	1.17	1.23	1.14	1.26	1.14	1.39	1.39	1.37	1.36					
Case5_F2.3 Phase		East Devon	30	0	650				1.66	1.40	ESHOR	1.25	1.16	1.24	1.22	1.41	1.24	1.29	1.22	1.41	1.25	1.40	1.29	1.66	1.40	1.34	1.29	1.33	1.30	1.41	1.36					
Case5_F3.1 Phase		East Devon	30	0	650				1.21	1.13	ED345	1.20	1.11	1.19	1.11	1.20	1.12	1.16	1.10	1.21	1.13	1.13	1.10	1.16	1.11	1.12	1.09	1.18	1.10	1.17	1.10					
Case5_F4.3 Phase		Norwalk Junction	30	0	650				1.46	1.38	NW345	1.26	1.15	1.19	1.17	1.46	1.24	1.24	1.18	1.44	1.25	1.28	1.16	1.38	1.26	1.22	1.18	1.29	1.29	1.40	1.38					
Case5_F5.3 Phase		Singer	30	0	650				1.55	1.29	ESHOR	1.38	1.17	1.37	1.22	1.41	1.22	1.34	1.27	1.44	1.21	1.26	1.16	1.55	1.27	1.30	1.24	1.43	1.25	1.44	1.29					
Case5_F6.3 Phase Bt		Norwalk 345	30	0	650				1.42	1.28	STONY	1.28	1.18	1.32	1.21	1.36	1.19	1.25	1.25	1.34	1.21	1.24	1.19	1.40	1.23	1.28	1.22	1.42	1.24	1.41	1.28					
Case5_F7.3 Phase Bt		Plumtree 345	30	0	650				1.34	1.30	ROCKY	1.26	1.19	1.26	1.20	1.23	1.16	1.19	1.14	1.22	1.17	1.21	1.16	1.30	1.12	1.24	1.15	1.30	1.29	1.34	1.30					
Case5_basNo Fault			30	0	650	PT345-LM34	1.14	1.14	ED345	1.13	1.13	1.12	1.12	1.13	1.13	1.10	1.10	1.10	1.14	1.14	1.11	1.11	1.10	1.10	1.09	1.09	1.12	1.12	1.10	1.10						
Case5_F2.3 Phase		East Devon	30	0	650	PT345-LM34	1.88	1.58	NW345	1.80	1.54	1.76	1.58	1.88	1.55	1.57	1.46	1.84	1.55	1.30	1.30	1.55	1.39	1.41	1.34	1.78	1.57	1.67	1.52							
Case5_F3.1 Phase		East Devon	30	0	650	PT345-LM34	1.24	1.18	ED345	1.23	1.17	1.22	1.15	1.24	1.18	1.18	1.13	1.24	1.18	1.20	1.10	1.16	1.12	1.13	1.09	1.21	1.14	1.17	1.12							
Case5_F4.3 Phase		Norwalk Junction	30	0	650	PT345-LM34	1.48	1.44	ROCKY	1.32	1.37	1.32	1.37	1.45	1.22	1.23	1.21	1.44	1.22	1.23	1.18	1.32	1.23	1.30	1.25	1.42	1.42	1.48	1.44							
Case5_F5.3 Phase		Singer	30	0	650	PT345-LM34	1.36	1.25	ED345	1.29	1.20	1.26	1.23	1.33	1.21	1.30	1.25	1.36	1.22	1.20	1.16	1.29	1.12	1.22	1.18	1.27	1.20	1.31	1.21							
Case5_F6.3 Phase Bt		Norwalk 345	30	0	650	PT345-LM34	1.41	1.29	ROCKY	1.32	1.25	1.32	1.26	1.40	1.25	1.27	1.23	1.40	1.25	1.24	1.17	1.26	1.13	1.20	1.16	1.36	1.27	1.41	1.29							
Case5_F7.3 Phase Bt		Plumtree 345	30	0	650	PT345-LM34	1.40	1.33	STONY	1.27	1.22	1.33	1.29	1.24	1.21	1.22	1.17	1.26	1.24	1.23	1.18	1.18	1.16	1.23	1.15	1.40	1.33	1.33	1.29							
Case5_basNo Fault			30	0	650	BK345-ED34	1.13	1.13	ED345	1.11	1.11	1.10	1.10	1.12	1.12	1.10	1.10	1.13	1.13	1.09	1.09	1.11	1.11	1.10	1.10	1.10	1.10	1.10	1.09	1.10						
Case5_F1.3 Phase		Plumtree	30	0	650	BK345-ED34	1.76	1.56	ED345	1.69	1.53	1.69	1.51	1.75	1.55	1.58	1.47	1.76	1.56	1.32	1.23	1.49	1.35	1.36	1.27	1.69	1.50	1.63	1.42							
Case5_F4.3 Phase		Norwalk Junction	30	0	650	BK345-ED34	1.95	1.69	NW345	1.36	1.29	1.46	1.41	1.95	1.68	1.66	1.55	1.89	1.69	1.28	1.22	1.54	1.41	1.36	1.31	1.49	1.49	1.52	1.49							
Case5_F5.3 Phase		Singer	30	0	650	BK345-ED34	1.51	1.26	ED345	1.27	1.17	1.24	1.17	1.44	1.23	1.24	1.24	1.51	1.26	1.24	1.19	1.24	1.18	1.27	1.18	1.28	1.21	1.28	1.25							
Case5_F6.3 Phase Bt		Norwalk 345	30	0	650	BK345-ED34	1.44	1.29	NW345	1.29	1.19	1.28	1.21	1.44	1.28	1.33	1.22	1.42	1.29	1.22	1.21	1.31	1.21	1.23	1.19	1.27	1.20	1.29	1.25							
Case5_F7.3 Phase Bt		Plumtree 345	30	0	650	BK345-ED34	1.37	1.28	STONY	1.24	1.23	1.31	1.22	1.31	1.25	1.24	1.21	1.33	1.26	1.19	1.16	1.20	1.17	1.22	1.19	1.37	1.28	1.32	1.28							
Case5_basNo Fault			30	0	650	NE138-NO13	1.13	1.13	ED345	1.11	1.11	1.11	1.11	1.13	1.13	1.12	1.12	1.13	1.13	1.11	1.11	1.11	1.11	1.10	1.10	1.11	1.11	1.11	1.10	1.10						
Case5_F1.3 Phase		Plumtree	30	0	650	NE138-NO13	1.53	1.45	NW345	1.52	1.40	1.47	1.34	1.53	1.41	1.52	1.42	1.52	1.42	1.36	1.25	1.44	1.27	1.26	1.22	1.49	1.41	1.51	1.45							
Case5_F2.3 Phase		East Devon	30	0	650	NE138-NO13	1.77	1.51	ESHOR	1.41	1.33	1.42	1.35	1.46	1.32	1.48	1.40	1.48	1.33	1.45	1.32	1.77	1.51	1.46	1.35	1.51	1.39	1.58	1.43							
Case5_F3.1 Phase		East Devon	30	0	650	NE138-NO13	1.18	1.14	ED345	1.16	1.12	1.13	1.12	1.17	1.14	1.16	1.13	1.18	1.14	1.14	1.10	1.13	1.12	1.11	1.10	1.14	1.12	1.13	1.11							
Case5_F4.3 Phase		Norwalk Junction	30	0	650	NE138-NO13	1.55	1.42	ROCKY	1.29	1.18	1.29	1.23	1.48	1.40	1.39	1.33	1.48	1.41	1.34	1.25	1.39	1.25	1.27	1.23	1.45	1.35	1.55	1.42							
Case5_F5.3 Phase		Singer	30	0	650	NE138-NO13	1.40	1.27	STONY	1.28	1.19	1.29	1.21	1.32	1.23	1.31	1.27	1.35	1.23	1.23	1.19	1.37	1.21	1.30	1.23	1.40	1.23	1.38	1.25							
Case5_F6.3 Phase Bt		Norwalk 345	30	0	650	NE138-NO13	1.39	1.30	NW345	1.29	1.22	1.29	1.27	1.39	1.29	1.34	1.26	1.37	1.30	1.24	1.23	1.33	1.17	1.30	1.25	1.36	1.26	1.37	1.26							
Case5_F7.3 Phase Bt		Plumtree 345	30	0	650	NE138-NO13	1.35	1.30	ROCKY	1.26	1.24	1.28	1.23	1.28	1.24	1.28	1.24	1.29	1.24	1.22	1.18	1.19	1.16	1.24	1.18	1.34	1.27	1.35	1.30							
Case5_basNo Fault			30	0	650	LM345-PLVA	1.14	1.14	ED345	1.14	1.14	1.13	1.13	1.14	1.14	1.11	1.11	1.14	1.14	1.12	1.12	1.11	1.11	1.11	1.11	1.11	1.13	1.13	1.12	1.12						
Case5_F1.3 Phase		Plumtree	30	0	650	LM345-PLVA	1.48	1.48	STONY	1.39	1.31	1.37	1.38	1.34	1.30	1.27	1.24	1.33	1.31	1.27	1.23	1.33	1.21	1.38	1.22	1.48	1.45	1.45	1.48							
Case5_F2.3 Phase		East Devon	30	0	650	LM345-PLVA	1.82	1.57	ESHOR	1.56	1.45	1.52	1.52	1.64	1.48	1.58	1.46	1.62	1.49	1.35	1.31	1.82	1.57	1.40	1.38	1.57	1.47	1.54	1.47							
Case5_F3.1 Phase		East Devon	30	0	650	LM345-PLVA	1.20	1.17	PT345	1.20	1.15	1.16	1.14	1.19	1.16	1.14	1.12	1.19	1.17	1.16	1.12	1.15	1.13	1.14	1.11	1.17	1.13	1.16	1.12							
Case5_F4.3 Phase		Norwalk Junction	30	0	650	LM345-PLVA	1.45	1.46	ROCKY	1.33	1.22	1.32	1.25	1.42	1.28	1.29	1.21	1.43	1.28	1.24	1.19	1.40	1.34	1.27	1.24	1.40	1.35	1.45	1.46							
Case5_F5.3 Phase		Singer	30	0	650	LM345-PLVA	1.48	1.31	ROCKY	1.37	1.21	1.30	1.27	1.39	1.23	1.29	1.24	1.40	1.24	1.23	1.17	1.34	1.20	1.31	1.28	1.43	1.31	1.48	1.31							
Case5_F6.3 Phase Bt		Norwalk 345	30	0	650	LM345-PLVA	1.51	1.34	ROCKY	1.34	1.28	1.34	1.27	1.39	1.29	1.29	1.24	1.39	1.30	1.27	1.20	1.34	1.18	1.29	1.26	1.44	1.30	1.51	1.34							
Case5_F7.3 Phase Bt		Plumtree 345	30	0	650	LM345-PLVA	1.41	1.35	ROCKY																											

CASE #: Case 5C (Old 5 + 10) at 80% Source, ALT Load Model and future capacitors at Ansonia, Bunker Hill, Hawthorne
 DATE: 12/14/2004
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																										
										LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY	
																	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_basNo Fault			40	0	650				1.10	1.10	ED345	1.09	1.09	1.08	1.08	1.10	1.10	1.07	1.07	1.10	1.10	1.09	1.09	1.09	1.09	1.07	1.07	1.07	1.07	1.07	1.07					
Case5_F1.3 Phase	Plumtree		40	0	650				1.28	1.24	STONY	1.26	1.19	1.23	1.19	1.23	1.21	1.16	1.13	1.22	1.20	1.22	1.15	1.21	1.11	1.17	1.16	1.28	1.22	1.26	1.24					
Case5_F2.3 Phase	East Devon		40	0	650				1.38	1.31	ESHOR	1.24	1.19	1.22	1.20	1.28	1.21	1.20	1.16	1.29	1.22	1.28	1.17	1.38	1.31	1.17	1.15	1.24	1.19	1.28	1.21					
Case5_F3.1 Phase	East Devon		40	0	650				1.17	1.11	ED345	1.14	1.10	1.12	1.08	1.16	1.11	1.12	1.08	1.17	1.11	1.13	1.09	1.14	1.09	1.10	1.07	1.12	1.08	1.12	1.07					
Case5_F4.3 Phase	Norwalk Junction		40	0	650				1.43	1.33	ESHOR	1.20	1.14	1.20	1.13	1.33	1.25	1.23	1.18	1.31	1.25	1.22	1.16	1.43	1.33	1.18	1.15	1.22	1.18	1.31	1.27					
Case5_F5.3 Phase	Singer		40	0	650				1.41	1.29	ESHOR	1.29	1.16	1.24	1.16	1.32	1.15	1.30	1.19	1.31	1.16	1.26	1.16	1.41	1.22	1.27	1.20	1.29	1.23	1.38	1.29					
Case5_F6.3 Phase Bt	Norwalk 345		40	0	650				1.34	1.26	ESHOR	1.25	1.14	1.30	1.20	1.28	1.16	1.24	1.19	1.29	1.15	1.24	1.14	1.34	1.21	1.19	1.16	1.27	1.21	1.28	1.26					
Case5_F7.3 Phase Bt	Plumtree 345		40	0	650				1.29	1.21	ROCKY	1.20	1.16	1.19	1.19	1.16	1.14	1.13	1.11	1.18	1.14	1.20	1.13	1.25	1.09	1.17	1.13	1.28	1.20	1.29	1.21					
Case5_basNo Fault			40	0	650	PT345-LM34	1.11	1.11	ED345	1.10	1.10	1.09	1.09	1.11	1.11	1.08	1.08	1.11	1.11	1.09	1.09	1.09	1.07	1.07	1.08	1.08	1.07	1.08	1.07	1.07	1.07					
Case5_F2.3 Phase	East Devon		40	0	650	PT345-LM34	1.62	1.39	NW345	1.57	1.34	1.49	1.28	1.62	1.39	1.52	1.32	1.60	1.39	1.28	1.19	1.52	1.36	1.28	1.18	1.45	1.28	1.41	1.28	1.28	1.28					
Case5_F3.1 Phase	East Devon		40	0	650	PT345-LM34	1.20	1.15	ED345	1.19	1.13	1.16	1.11	1.19	1.14	1.12	1.09	1.20	1.15	1.11	1.08	1.11	1.09	1.09	1.07	1.18	1.10	1.18	1.10	1.18	1.08					
Case5_F4.3 Phase	Norwalk Junction		40	0	650	PT345-LM34	1.34	1.31	ROCKY	1.30	1.26	1.30	1.26	1.29	1.23	1.21	1.15	1.29	1.21	1.20	1.12	1.32	1.24	1.21	1.09	1.30	1.29	1.34	1.31	1.31	1.31					
Case5_F5.3 Phase	Singer		40	0	650	PT345-LM34	1.33	1.21	NW345	1.29	1.18	1.24	1.16	1.33	1.17	1.24	1.17	1.31	1.18	1.19	1.13	1.20	1.10	1.15	1.10	1.22	1.17	1.26	1.21	1.21	1.21					
Case5_F6.3 Phase Bt	Norwalk 345		40	0	650	PT345-LM34	1.28	1.24	NW345	1.23	1.19	1.25	1.16	1.28	1.22	1.21	1.17	1.28	1.24	1.21	1.16	1.19	1.13	1.22	1.14	1.25	1.17	1.22	1.18	1.18	1.18					
Case5_F7.3 Phase Bt	Plumtree 345		40	0	650	PT345-LM34	1.31	1.22	ROCKY	1.24	1.19	1.25	1.16	1.22	1.20	1.16	1.14	1.22	1.20	1.19	1.15	1.13	1.08	1.13	1.15	1.30	1.20	1.31	1.22	1.22	1.22					
Case5_basNo Fault			40	0	650	BK345-ED34	1.11	1.11	ED345	1.09	1.09	1.08	1.08	1.10	1.10	1.08	1.08	1.11	1.11	1.08	1.08	1.08	1.08	1.06	1.06	1.08	1.08	1.07	1.07	1.07	1.07					
Case5_F1.3 Phase	Plumtree		40	0	650	BK345-ED34	1.57	1.40	NW345	1.55	1.39	1.56	1.36	1.57	1.38	1.46	1.32	1.56	1.38	1.25	1.13	1.41	1.26	1.22	1.15	1.57	1.40	1.46	1.38	1.38	1.38					
Case5_F4.3 Phase	Norwalk Junction		40	0	650	BK345-ED34	1.83	1.59	NW345	1.36	1.27	1.42	1.36	1.83	1.57	1.59	1.44	1.79	1.59	1.28	1.21	1.43	1.32	1.33	1.27	1.46	1.37	1.40	1.32	1.32	1.32					
Case5_F5.3 Phase	Singer		40	0	650	BK345-ED34	1.38	1.19	ED345	1.23	1.15	1.21	1.16	1.36	1.17	1.23	1.14	1.38	1.19	1.17	1.11	1.17	1.13	1.13	1.09	1.21	1.16	1.24	1.18	1.18	1.18					
Case5_F6.3 Phase Bt	Norwalk 345		40	0	650	BK345-ED34	1.36	1.24	NW345	1.24	1.20	1.21	1.18	1.36	1.23	1.25	1.16	1.35	1.24	1.16	1.13	1.19	1.17	1.15	1.12	1.25	1.20	1.26	1.22	1.22	1.22					
Case5_F7.3 Phase Bt	Plumtree 345		40	0	650	BK345-ED34	1.31	1.23	STONY	1.23	1.17	1.23	1.18	1.27	1.22	1.18	1.14	1.28	1.23	1.17	1.13	1.19	1.13	1.15	1.13	1.31	1.21	1.29	1.23	1.23	1.23					
Case5_basNo Fault			40	0	650	NE138-NO13	1.10	1.10	ED345	1.09	1.09	1.08	1.08	1.10	1.10	1.09	1.09	1.10	1.10	1.09	1.09	1.09	1.09	1.07	1.07	1.08	1.08	1.07	1.07	1.07	1.07					
Case5_F1.3 Phase	Plumtree		40	0	650	NE138-NO13	1.39	1.29	PT345	1.39	1.29	1.37	1.29	1.37	1.29	1.35	1.28	1.38	1.29	1.28	1.22	1.32	1.21	1.20	1.17	1.36	1.27	1.34	1.23	1.23	1.23					
Case5_F2.3 Phase	East Devon		40	0	650	NE138-NO13	1.49	1.38	ESHOR	1.31	1.21	1.27	1.21	1.35	1.26	1.35	1.27	1.35	1.28	1.30	1.20	1.49	1.38	1.24	1.17	1.26	1.20	1.30	1.25	1.25	1.25					
Case5_F3.1 Phase	East Devon		40	0	650	NE138-NO13	1.12	1.11	ED345	1.10	1.09	1.10	1.08	1.11	1.11	1.10	1.09	1.12	1.11	1.11	1.08	1.10	1.09	1.09	1.07	1.09	1.08	1.09	1.07	1.07	1.07					
Case5_F4.3 Phase	Norwalk Junction		40	0	650	NE138-NO13	1.45	1.38	ESHOR	1.22	1.16	1.19	1.16	1.40	1.30	1.32	1.25	1.39	1.30	1.28	1.21	1.45	1.38	1.23	1.21	1.21	1.16	1.29	1.25	1.25	1.25					
Case5_F5.3 Phase	Singer		40	0	650	NE138-NO13	1.32	1.25	NW115	1.21	1.18	1.19	1.17	1.25	1.19	1.32	1.20	1.27	1.21	1.23	1.16	1.31	1.12	1.17	1.12	1.21	1.18	1.26	1.25	1.25	1.25					
Case5_F6.3 Phase Bt	Norwalk 345		40	0	650	NE138-NO13	1.27	1.24	ED345	1.22	1.18	1.22	1.16	1.27	1.23	1.25	1.18	1.27	1.24	1.24	1.17	1.27	1.20	1.21	1.13	1.24	1.17	1.26	1.24	1.24	1.24					
Case5_F7.3 Phase Bt	Plumtree 345		40	0	650	NE138-NO13	1.33	1.25	ROCKY	1.20	1.18	1.19	1.18	1.21	1.19	1.19	1.16	1.22	1.20	1.18	1.16	1.23	1.14	1.14	1.15	1.32	1.21	1.33	1.25	1.25	1.25					
Case5_basNo Fault			40	0	650	LM345-PLVA	1.12	1.12	ED345	1.11	1.11	1.09	1.09	1.11	1.11	1.08	1.08	1.12	1.12	1.10	1.10	1.10	1.08	1.08	1.09	1.09	1.08	1.08	1.08	1.08	1.08					
Case5_F1.3 Phase	Plumtree		40	0	650	LM345-PLVA	1.36	1.29	STONY	1.29	1.24	1.29	1.23	1.28	1.25	1.20	1.17	1.27	1.25	1.21	1.20	1.30	1.17	1.24	1.23	1.36	1.20	1.34	1.29	1.29	1.29					
Case5_F2.3 Phase	East Devon		40	0	650	LM345-PLVA	1.50	1.43	ESHOR	1.49	1.31	1.39	1.29	1.50	1.38	1.42	1.33	1.50	1.39	1.33	1.24	1.50	1.43	1.30	1.21	1.43	1.27	1.46	1.31	1.31	1.31					
Case5_F3.1 Phase	East Devon		40	0	650	LM345-PLVA	1.15	1.13	NW345	1.14	1.12	1.11	1.10	1.15	1.13	1.09	1.09	1.14	1.13	1.12	1.09	1.10	1.09	1.09	1.08	1.11	1.09	1.13	1.09	1.09	1.09					
Case5_F4.3 Phase	Norwalk Junction		40	0	650	LM345-PLVA	1.44	1.35	ESHOR	1.26	1.20	1.23	1.18	1.31	1.23	1.22	1.15	1.30	1.22	1.25	1.19	1.44	1.35	1.27	1.21	1.31	1.18	1.39	1.27	1.27	1.27					
Case5_F5.3 Phase	Singer		40	0	650	LM345-PLVA	1.41	1.25	ROCKY	1.27	1.18	1.24	1.16	1.28	1.19	1.23	1.16	1.29	1.20	1.23	1.19	1.38	1.17	1.26	1.15	1.29	1.19	1.41	1.25	1.25	1.25					
Case5_F6.3 Phase Bt	Norwalk 345		40	0	650	LM345-PLVA	1.36	1.25	STONY	1.25	1.20	1.32	1.18	1.30	1.23	1.25	1.16	1.32	1.25	1.28	1.19	1.29	1.25	1.28	1.19	1.36	1.18	1.36	1.22	1.22	1.22					
Case5_F7.3 Phase Bt	Plumtree 345		40	0	650	LM345-PLVA	1.41	1.26	ROCKY	1.29	1.22	1.32	1.23	1.25	1.23	1.19	1.16	1.25	1.23	1.22	1.20	1.27	1.16	1.21	1.21	1.37	1.22	1.41	1.26	1.26	1.26					

CASE #: Case 5C (Old 5 + 10) at 80% Source, ALT Load Model and future capacitors at Ansonia, Bunker Hill, Hawthorne
 DATE: 12/14/2004
 GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																								
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY						
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	
Case5_basNo Fault			50	434	840				1.09	1.09	ESHOR	1.08	1.08	1.08	1.08	1.09	1.09	1.07	1.07	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.08	1.08	1.08	1.08
Case5_F1_3 Phase	Plumtree		50	434	840				1.34	1.29	STONY	1.25	1.19	1.24	1.26	1.25	1.19	1.22	1.17	1.28	1.20	1.21	1.18	1.25	1.19	1.26	1.28	1.34	1.29	1.33	1.28			
Case5_F2_3 Phase	East Devon		50	434	840				1.31	1.27	FB115	1.24	1.21	1.22	1.19	1.29	1.24	1.25	1.19	1.29	1.25	1.23	1.20	1.31	1.27	1.31	1.18	1.26	1.21	1.23	1.20			
Case5_F3_1 Phase	East Devon		50	434	840				1.14	1.09	ESHOR	1.10	1.08	1.10	1.08	1.10	1.09	1.09	1.07	1.11	1.09	1.12	1.09	1.14	1.09	1.13	1.09	1.12	1.08	1.13	1.08			
Case5_F4_3 Phase	Norwalk Junction		50	434	840				1.34	1.24	FB115	1.24	1.19	1.22	1.24	1.27	1.22	1.23	1.19	1.26	1.21	1.23	1.18	1.24	1.13	1.34	1.23	1.28	1.23	1.29	1.22			
Case5_F5_3 Phase	Singer		50	434	840				1.35	1.22	ROCKY	1.21	1.14	1.20	1.16	1.21	1.14	1.26	1.14	1.21	1.15	1.18	1.14	1.23	1.13	1.25	1.16	1.27	1.22	1.35	1.19			
Case5_F6_3 Phase Bt	Norwalk 345		50	434	840				1.25	1.20	NW115	1.20	1.14	1.21	1.19	1.20	1.13	1.25	1.15	1.18	1.14	1.21	1.16	1.20	1.12	1.24	1.16	1.21	1.20	1.21	1.20			
Case5_F7_3 Phase Bt	Plumtree 345		50	434	840				1.32	1.25	STONY	1.19	1.14	1.21	1.22	1.16	1.14	1.16	1.14	1.16	1.14	1.18	1.15	1.16	1.13	1.22	1.21	1.32	1.25	1.24	1.23			
Case5_basNo Fault			50	434	840	PT345-LM34	1.10	1.10	ED345	1.09	1.09	1.08	1.08	1.09	1.09	1.07	1.07	1.10	1.10	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.08	1.08	1.08	1.08			
Case5_F2_3 Phase	East Devon		50	434	840	PT345-LM34	1.52	1.28	ED345	1.48	1.25	1.40	1.18	1.52	1.28	1.27	1.16	1.52	1.28	1.30	1.21	1.42	1.25	1.22	1.19	1.33	1.19	1.31	1.19					
Case5_F3_1 Phase	East Devon		50	434	840	PT345-LM34	1.12	1.10	ED345	1.10	1.09	1.08	1.08	1.11	1.10	1.08	1.07	1.12	1.10	1.12	1.08	1.09	1.09	1.09	1.09	1.09	1.08	1.09	1.08	1.08	1.07			
Case5_F4_3 Phase	Norwalk Junction		50	434	840	PT345-LM34	1.33	1.29	ROCKY	1.24	1.21	1.24	1.21	1.28	1.23	1.22	1.18	1.29	1.23	1.23	1.18	1.22	1.18	1.21	1.19	1.22	1.29	1.33	1.28					
Case5_F5_3 Phase	Singer		50	434	840	PT345-LM34	1.31	1.25	ROCKY	1.28	1.21	1.25	1.25	1.24	1.19	1.25	1.17	1.25	1.20	1.20	1.15	1.25	1.18	1.15	1.13	1.24	1.22	1.31	1.23					
Case5_F6_3 Phase Bt	Norwalk 345		50	434	840	PT345-LM34	1.29	1.26	NW345	1.29	1.23	1.27	1.26	1.29	1.22	1.24	1.21	1.28	1.22	1.23	1.17	1.20	1.19	1.18	1.16	1.27	1.25	1.28	1.22					
Case5_F7_3 Phase Bt	Plumtree 345		50	434	840	PT345-LM34	1.32	1.31	ROCKY	1.22	1.19	1.27	1.23	1.26	1.20	1.22	1.18	1.28	1.21	1.20	1.15	1.15	1.13	1.17	1.16	1.31	1.26	1.32	1.31					
Case5_basNo Fault			50	434	840	BK345-ED34	1.09	1.09	ED345	1.08	1.08	1.07	1.07	1.08	1.08	1.07	1.07	1.09	1.09	1.08	1.08	1.09	1.09	1.09	1.09	1.09	1.09	1.08	1.08	1.07	1.07			
Case5_F1_3 Phase	Plumtree		50	434	840	BK345-ED34	1.48	1.31	ED345	1.44	1.23	1.39	1.20	1.46	1.26	1.24	1.16	1.48	1.27	1.20	1.15	1.32	1.21	1.27	1.31	1.35	1.20	1.32	1.25					
Case5_F4_3 Phase	Norwalk Junction		50	434	840	BK345-ED34	1.71	1.50	ED345	1.35	1.25	1.31	1.28	1.68	1.49	1.37	1.29	1.71	1.50	1.22	1.17	1.33	1.24	1.31	1.24	1.39	1.34	1.39	1.30					
Case5_F5_3 Phase	Singer		50	434	840	BK345-ED34	1.27	1.21	STONY	1.24	1.15	1.20	1.15	1.22	1.15	1.25	1.15	1.26	1.18	1.18	1.13	1.26	1.20	1.17	1.14	1.27	1.21	1.23	1.17					
Case5_F6_3 Phase Bt	Norwalk 345		50	434	840	BK345-ED34	1.29	1.21	NW345	1.26	1.18	1.25	1.17	1.29	1.20	1.22	1.21	1.25	1.20	1.17	1.14	1.23	1.19	1.17	1.15	1.25	1.21	1.22	1.19					
Case5_F7_3 Phase Bt	Plumtree 345		50	434	840	BK345-ED34	1.33	1.32	ROCKY	1.20	1.16	1.23	1.21	1.23	1.19	1.20	1.17	1.26	1.20	1.21	1.14	1.16	1.15	1.22	1.20	1.29	1.24	1.33	1.32					
Case5_basNo Fault			50	434	840	NE138-NO13	1.09	1.09	ESHOR	1.07	1.07	1.08	1.08	1.08	1.08	1.09	1.09	1.09	1.09	1.09	1.08	1.08	1.09	1.09	1.09	1.09	1.08	1.08	1.07	1.07				
Case5_F1_3 Phase	Plumtree		50	434	840	NE138-NO13	1.38	1.29	STONY	1.28	1.18	1.29	1.23	1.30	1.21	1.29	1.22	1.31	1.22	1.19	1.14	1.38	1.26	1.24	1.25	1.38	1.29	1.34	1.24					
Case5_F2_3 Phase	East Devon		50	434	840	NE138-NO13	1.43	1.28	ESHOR	1.29	1.22	1.27	1.21	1.33	1.24	1.33	1.27	1.33	1.25	1.22	1.17	1.43	1.28	1.25	1.13	1.22	1.20	1.30	1.18					
Case5_F3_1 Phase	East Devon		50	434	840	NE138-NO13	1.11	1.09	BK345	1.09	1.07	1.08	1.07	1.09	1.08	1.09	1.08	1.09	1.09	1.11	1.09	1.10	1.09	1.10	1.08	1.08	1.07	1.08	1.07					
Case5_F4_3 Phase	Norwalk Junction		50	434	840	NE138-NO13	1.40	1.31	ROCKY	1.26	1.24	1.32	1.30	1.31	1.25	1.34	1.30	1.32	1.24	1.26	1.18	1.28	1.24	1.27	1.21	1.35	1.27	1.40	1.31					
Case5_F5_3 Phase	Singer		50	434	840	NE138-NO13	1.36	1.25	ROCKY	1.28	1.20	1.24	1.18	1.30	1.24	1.28	1.24	1.30	1.25	1.22	1.18	1.30	1.19	1.27	1.14	1.31	1.20	1.36	1.20					
Case5_F6_3 Phase Bt	Norwalk 345		50	434	840	NE138-NO13	1.30	1.28	NW115	1.24	1.21	1.24	1.20	1.29	1.24	1.30	1.28	1.29	1.24	1.29	1.17	1.27	1.17	1.26	1.18	1.25	1.22	1.22	1.21					
Case5_F7_3 Phase Bt	Plumtree 345		50	434	840	NE138-NO13	1.31	1.31	ROCKY	1.21	1.19	1.25	1.24	1.24	1.21	1.26	1.21	1.25	1.21	1.19	1.16	1.26	1.17	1.26	1.25	1.24	1.27	1.31	1.31					
Case5_basNo Fault			50	434	840	LM345-PLVA	1.10	1.10	ED345	1.09	1.09	1.09	1.09	1.10	1.10	1.08	1.08	1.10	1.10	1.09	1.09	1.10	1.10	1.10	1.10	1.09	1.09	1.09	1.09					
Case5_F1_3 Phase	Plumtree		50	434	840	LM345-PLVA	1.42	1.35	STONY	1.31	1.24	1.29	1.29	1.33	1.25	1.25	1.20	1.34	1.25	1.26	1.20	1.37	1.28	1.31	1.30	1.42	1.29	1.42	1.35					
Case5_F2_3 Phase	East Devon		50	434	840	LM345-PLVA	1.57	1.34	ESHOR	1.41	1.30	1.30	1.26	1.47	1.32	1.29	1.23	1.49	1.34	1.34	1.19	1.57	1.31	1.32	1.17	1.29	1.23	1.36	1.24					
Case5_F3_1 Phase	East Devon		50	434	840	LM345-PLVA	1.14	1.11	ESHOR	1.12	1.10	1.11	1.09	1.12	1.10	1.09	1.07	1.12	1.11	1.14	1.09	1.14	1.10	1.12	1.09	1.13	1.09	1.13	1.08					
Case5_F4_3 Phase	Norwalk Junction		50	434	840	LM345-PLVA	1.36	1.36	PT345	1.36	1.36	1.31	1.32	1.33	1.28	1.27	1.25	1.32	1.28	1.28	1.22	1.32	1.20	1.33	1.23	1.32	1.31	1.34	1.33					
Case5_F5_3 Phase	Singer		50	434	840	LM345-PLVA	1.35	1.29	PT345	1.35	1.29	1.27	1.23	1.35	1.28	1.26	1.17	1.32	1.29	1.25	1.20	1.32	1.22	1.27	1.20	1.28	1.27	1.24	1.24					
Case5_F6_3 Phase Bt	Norwalk 345		50	434	840	LM345-PLVA	1.37	1.29	ESHOR	1.35	1.27	1.31	1.25	1.35	1.29	1.29	1.24	1.37	1.29	1.28	1.23	1.37	1.25	1.25	1.25	1.32	1.27	1.29	1.28					
Case5_F7_3 Phase Bt	Plumtree 345		50	434	840	LM345-PLVA	1.37	1.32	STONY	1.30	1.26	1.31	1.24	1.34	1.27	1.25	1.20	1.34	1.28	1.26	1.22	1.30	1.25	1.30	1.31	1.37	1.31	1.36	1.32					

CASE #: Case 5C (Old 5 + 10) at 80% Source, ALT Load Model DATE: 12/14/2004
 and future capacitors at Ansonia, Bunker Hill, Hawthorne GE 2C and 6C Windows
 DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	
Case5_basNo Fault			70	1382	1050				1.07	1.07	ESHOR	1.04	1.04	1.05	1.05	1.05	1.05	1.04	1.04	1.05	1.05	1.06	1.06	1.07	1.07	1.05	1.05	1.05	1.05	1.06	1.06	
Case5_F1_3 Phase	Plumtree		70	1382	1050				1.29	1.22	ROCKY	1.19	1.09	1.17	1.08	1.15	1.11	1.14	1.09	1.15	1.13	1.16	1.13	1.25	1.16	1.27	1.22	1.24	1.14	1.29	1.20	
Case5_F2_3 Phase	East Devon		70	1382	1050				1.32	1.18	ESHOR	1.18	1.11	1.15	1.14	1.20	1.12	1.18	1.14	1.19	1.13	1.14	1.11	1.32	1.18	1.20	1.11	1.17	1.13	1.16	1.15	
Case5_F3_1 Phase	East Devon		70	1382	1050				1.09	1.07	BK345	1.05	1.04	1.05	1.04	1.05	1.04	1.04	1.04	1.05	1.04	1.09	1.07	1.07	1.06	1.07	1.05	1.06	1.05	1.07	1.06	
Case5_F4_3 Phase	Norwalk Junction		70	1382	1050				1.32	1.28	ESHOR	1.19	1.16	1.19	1.18	1.18	1.14	1.14	1.13	1.16	1.14	1.20	1.16	1.32	1.23	1.23	1.15	1.23	1.20	1.30	1.28	
Case5_F5_3 Phase	Singer		70	1382	1050				1.26	1.19	ROCKY	1.14	1.08	1.12	1.10	1.14	1.09	1.12	1.10	1.15	1.10	1.17	1.12	1.25	1.19	1.12	1.10	1.18	1.10	1.26	1.13	
Case5_F6_3 Phase Bt	Norwalk 345		70	1382	1050				1.33	1.19	ROCKY	1.11	1.08	1.18	1.09	1.13	1.11	1.13	1.11	1.13	1.11	1.19	1.12	1.27	1.19	1.16	1.12	1.23	1.13	1.33	1.15	
Case5_F7_3 Phase Bt	Plumtree 345		70	1382	1050				1.36	1.28	ROCKY	1.14	1.10	1.12	1.10	1.11	1.08	1.09	1.07	1.11	1.09	1.15	1.12	1.22	1.17	1.18	1.15	1.22	1.17	1.36	1.28	
Case5_basNo Fault			70	1382	1050	PT345-LM34	1.06	1.06	ESHOR	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.04	1.04	1.05	1.05	1.06	1.06	1.04	1.04	1.04	1.04	1.04	1.05	1.05	1.05	
Case5_F2_3 Phase	East Devon		70	1382	1050	PT345-LM34	1.23	1.14	ROCKY	1.22	1.04	1.12	1.05	1.17	1.03	1.13	1.02	1.18	1.04	1.17	1.09	1.19	1.14	1.11	1.10	1.20	1.07	1.23	1.08	1.08	1.08	
Case5_F3_1 Phase	East Devon		70	1382	1050	PT345-LM34	1.13	1.06	BK345	1.02	1.01	1.02	1.02	1.02	1.02	1.01	1.01	1.02	1.02	1.02	1.13	1.06	1.06	1.04	1.05	1.03	1.03	1.02	1.03	1.03	1.03	
Case5_F4_3 Phase	Norwalk Junction		70	1382	1050	PT345-LM34	1.32	1.26	ROCKY	1.22	1.23	1.22	1.23	1.13	1.09	1.12	1.09	1.13	1.10	1.16	1.10	1.28	1.20	1.12	1.11	1.29	1.23	1.32	1.26	1.26	1.26	
Case5_F5_3 Phase	Singer		70	1382	1050	PT345-LM34	1.35	1.16	ROCKY	1.15	1.11	1.16	1.07	1.18	1.13	1.15	1.10	1.19	1.13	1.17	1.12	1.26	1.16	1.16	1.11	1.22	1.11	1.35	1.12	1.12	1.12	
Case5_F6_3 Phase Bt	Norwalk 345		70	1382	1050	PT345-LM34	1.28	1.16	ROCKY	1.18	1.11	1.15	1.07	1.20	1.13	1.17	1.11	1.21	1.15	1.19	1.13	1.27	1.16	1.16	1.12	1.27	1.12	1.28	1.13	1.13	1.13	
Case5_F7_3 Phase Bt	Plumtree 345		70	1382	1050	PT345-LM34	1.28	1.16	STONY	1.15	1.09	1.13	1.08	1.14	1.12	1.13	1.09	1.15	1.14	1.13	1.12	1.23	1.14	1.17	1.12	1.28	1.10	1.24	1.16	1.16	1.16	
Case5_basNo Fault			70	1382	1050	BK345-ED34	1.06	1.06	ESHOR	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.04	1.04	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	
Case5_F1_3 Phase	Plumtree		70	1382	1050	BK345-ED34	1.23	1.22	ROCKY	1.14	1.05	1.15	1.06	1.12	1.05	1.09	1.02	1.13	1.07	1.13	1.09	1.15	1.06	1.18	1.13	1.17	1.13	1.23	1.22	1.22	1.22	
Case5_F4_3 Phase	Norwalk Junction		70	1382	1050	BK345-ED34	1.35	1.34	ROCKY	1.21	1.20	1.23	1.15	1.32	1.18	1.24	1.12	1.31	1.18	1.18	1.16	1.31	1.20	1.21	1.23	1.28	1.25	1.35	1.34	1.34	1.34	
Case5_F5_3 Phase	Singer		70	1382	1050	BK345-ED34	1.21	1.14	NW345	1.17	1.10	1.09	1.10	1.21	1.11	1.15	1.12	1.18	1.13	1.14	1.10	1.20	1.14	1.15	1.09	1.12	1.08	1.18	1.08	1.08	1.08	
Case5_F6_3 Phase Bt	Norwalk 345		70	1382	1050	BK345-ED34	1.21	1.14	ESHOR	1.15	1.11	1.10	1.10	1.20	1.13	1.17	1.13	1.21	1.14	1.18	1.11	1.21	1.14	1.15	1.11	1.13	1.07	1.17	1.06	1.06	1.06	
Case5_F7_3 Phase Bt	Plumtree 345		70	1382	1050	BK345-ED34	1.27	1.25	ROCKY	1.16	1.12	1.17	1.10	1.18	1.12	1.16	1.11	1.18	1.13	1.16	1.12	1.20	1.14	1.21	1.15	1.23	1.14	1.27	1.25	1.25	1.25	
Case5_basNo Fault			70	1382	1050	NE138-NO13	1.05	1.05	ESHOR	1.02	1.02	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.04	1.04	1.05	1.05	1.03	1.03	1.03	1.03	1.04	1.04	1.04	
Case5_F1_3 Phase	Plumtree		70	1382	1050	NE138-NO13	1.18	1.18	ROCKY	1.09	1.01	1.08	1.03	1.08	1.03	1.08	1.04	1.08	1.04	1.04	1.12	1.04	1.12	1.06	1.15	1.08	1.10	1.06	1.18	1.18	1.18	1.18
Case5_F2_3 Phase	East Devon		70	1382	1050	NE138-NO13	1.18	1.11	ESHOR	1.12	1.05	1.14	1.08	1.15	1.05	1.17	1.05	1.14	1.05	1.15	1.08	1.18	1.11	1.14	1.07	1.14	1.09	1.14	1.10	1.10	1.10	
Case5_F3_1 Phase	East Devon		70	1382	1050	NE138-NO13	1.07	1.05	BK345	1.02	1.01	1.02	1.02	1.01	1.01	1.02	1.01	1.02	1.01	1.07	1.05	1.04	1.04	1.05	1.03	1.02	1.02	1.04	1.03	1.03	1.03	
Case5_F4_3 Phase	Norwalk Junction		70	1382	1050	NE138-NO13	1.35	1.28	ESHOR	1.20	1.14	1.20	1.13	1.15	1.11	1.17	1.11	1.12	1.09	1.15	1.13	1.35	1.22	1.17	1.15	1.19	1.19	1.26	1.28	1.28	1.28	
Case5_F5_3 Phase	Singer		70	1382	1050	NE138-NO13	1.32	1.19	ESHOR	1.14	1.08	1.13	1.09	1.17	1.11	1.17	1.12	1.16	1.09	1.19	1.11	1.32	1.19	1.14	1.09	1.21	1.08	1.19	1.08	1.08	1.08	
Case5_F6_3 Phase Bt	Norwalk 345		70	1382	1050	NE138-NO13	1.34	1.18	ESHOR	1.10	1.08	1.11	1.07	1.14	1.10	1.17	1.11	1.15	1.11	1.20	1.11	1.34	1.18	1.18	1.12	1.16	1.07	1.18	1.08	1.08	1.08	
Case5_F7_3 Phase Bt	Plumtree 345		70	1382	1050	NE138-NO13	1.22	1.18	ESHOR	1.10	1.06	1.09	1.08	1.10	1.08	1.13	1.09	1.11	1.09	1.12	1.10	1.22	1.17	1.18	1.15	1.15	1.10	1.21	1.18	1.18	1.18	
Case5_basNo Fault			70	1382	1050	LM345-PLVA	1.05	1.05	ESHOR	1.03	1.03	1.04	1.04	1.04	1.04	1.03	1.03	1.04	1.04	1.04	1.04	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	
Case5_F1_3 Phase	Plumtree		70	1382	1050	LM345-PLVA	1.35	1.23	ROCKY	1.14	1.09	1.17	1.10	1.14	1.11	1.15	1.09	1.15	1.12	1.18	1.11	1.27	1.14	1.25	1.23	1.33	1.13	1.35	1.19	1.19	1.19	
Case5_F2_3 Phase	East Devon		70	1382	1050	LM345-PLVA	1.26	1.12	ROCKY	1.18	1.07	1.16	1.10	1.20	1.07	1.16	1.07	1.20	1.08	1.17	1.10	1.24	1.12	1.19	1.08	1.24	1.07	1.26	1.08	1.08	1.08	
Case5_F3_1 Phase	East Devon		70	1382	1050	LM345-PLVA	1.07	1.04	BK345	1.04	1.02	1.04	1.03	1.04	1.02	1.02	1.01	1.04	1.03	1.07	1.04	1.05	1.04	1.04	1.03	1.04	1.03	1.04	1.03	1.03	1.03	
Case5_F4_3 Phase	Norwalk Junction		70	1382	1050	LM345-PLVA	1.42	1.26	ESHOR	1.23	1.17	1.19	1.17	1.20	1.12	1.19	1.12	1.19	1.12	1.22	1.13	1.42	1.26	1.17	1.19	1.26	1.20	1.28	1.24	1.24	1.24	
Case5_F5_3 Phase	Singer		70	1382	1050	LM345-PLVA	1.33	1.20	ESHOR	1.17	1.11	1.14	1.09	1.15	1.10	1.16	1.11	1.17	1.10	1.21	1.13	1.33	1.20	1.20	1.18	1.20	1.12	1.23	1.12	1.12	1.12	
Case5_F6_3 Phase Bt	Norwalk 345		70	1382	1050	LM345-PLVA	1.33	1.20	ESHOR	1.19	1.10	1.15	1.10	1.19	1.11	1.18	1.11	1.16	1.11	1.21	1.12	1.33	1.20	1.22	1.18	1.20	1.13	1.19	1.13	1.13	1.13	
Case5_F7_3 Phase Bt	Plumtree 345		70	1382	1050	LM345-PLVA	1.30	1.19	STONY	1.14	1.09	1.19	1.10	1.14	1.10	1.14	1.08	1.14	1.10	1.17	1.14	1.26	1.17	1.28	1.19	1.30	1.13	1.27	1.16	1.16	1.16	

CASE #: 5C - Case 5 (Old) + 10 Miles of Cable (GE 2C and 6C windows)

DATE: 12/15/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_basNo Fault			30	0	650				1.09	1.09	ED345	1.07	1.07	1.07	1.07	1.09	1.09	1.07	1.07	1.09	1.09	1.07	1.07	1.07	1.07	1.06	1.06	1.07	1.07	1.06	1.06
Case5_F1.3 Phase		Plumtree	30	0	650				1.25	1.16	PT115	1.25	1.16	1.25	1.15	1.19	1.14	1.13	1.12	1.19	1.14	1.21	1.13	1.14	1.11	1.14	1.12	1.24	1.15	1.24	1.15
Case5_F2.3 Phase		East Devon	30	0	650				1.33	1.19	NW345	1.20	1.14	1.19	1.19	1.33	1.17	1.16	1.11	1.32	1.18	1.19	1.14	1.20	1.17	1.16	1.11	1.21	1.18	1.19	1.16
Case5_F3.1 Phase		East Devon	30	0	650				1.17	1.11	STONY	1.14	1.08	1.17	1.08	1.15	1.10	1.11	1.08	1.16	1.11	1.10	1.06	1.10	1.07	1.09	1.05	1.17	1.07	1.14	1.06
Case5_F4.3 Phase		Norwalk Junction	30	0	650				1.44	1.27	NW345	1.24	1.16	1.25	1.19	1.44	1.27	1.26	1.18	1.43	1.25	1.23	1.20	1.19	1.15	1.17	1.14	1.23	1.18	1.21	1.19
Case5_F5.3 Phase		Singer	30	0	650				1.51	1.39	ED345	1.43	1.33	1.39	1.25	1.50	1.39	1.37	1.24	1.51	1.39	1.27	1.18	1.26	1.23	1.23	1.19	1.40	1.25	1.38	1.23
Case5_F6.3 Phase Bt		Norwalk 345	30	0	650				1.48	1.29	ED345	1.31	1.23	1.31	1.26	1.45	1.26	1.35	1.17	1.48	1.29	1.22	1.14	1.21	1.14	1.18	1.16	1.31	1.24	1.30	1.25
Case5_F7.3 Phase Bt		Plumtree 345	30	0	650				1.30	1.25	NW345	1.22	1.17	1.25	1.23	1.30	1.18	1.23	1.13	1.30	1.18	1.17	1.15	1.15	1.13	1.17	1.13	1.24	1.21	1.25	1.25
Case5_basNo Fault			30	0	650	PT345-LM34	1.11	1.11	ED345	1.10	1.10	1.09	1.09	1.10	1.10	1.10	1.08	1.08	1.11	1.11	1.08	1.08	1.08	1.08	1.06	1.06	1.08	1.08	1.07	1.07	1.07
Case5_F2.3 Phase		East Devon	30	0	650	PT345-LM34	1.60	1.42	NW345	1.56	1.39	1.44	1.35	1.60	1.42	1.38	1.28	1.58	1.42	1.20	1.17	1.31	1.29	1.24	1.20	1.43	1.34	1.37	1.28	1.28	1.28
Case5_F3.1 Phase		East Devon	30	0	650	PT345-LM34	1.19	1.16	ED345	1.17	1.14	1.15	1.12	1.18	1.15	1.12	1.10	1.19	1.16	1.09	1.06	1.09	1.08	1.09	1.06	1.14	1.12	1.12	1.09	1.09	1.09
Case5_F4.3 Phase		Norwalk Junction	30	0	650	PT345-LM34	1.40	1.23	NW345	1.35	1.20	1.35	1.20	1.40	1.23	1.20	1.17	1.39	1.21	1.18	1.13	1.14	1.12	1.16	1.11	1.34	1.21	1.33	1.22	1.22	1.22
Case5_F5.3 Phase		Singer	30	0	650	PT345-LM34	1.46	1.24	NW345	1.42	1.23	1.31	1.22	1.46	1.22	1.22	1.10	1.45	1.24	1.19	1.12	1.20	1.11	1.19	1.12	1.34	1.20	1.28	1.21	1.21	1.21
Case5_F6.3 Phase Bt		Norwalk 345	30	0	650	PT345-LM34	1.35	1.21	ED345	1.29	1.15	1.29	1.19	1.34	1.18	1.17	1.13	1.35	1.20	1.16	1.11	1.12	1.11	1.17	1.13	1.26	1.21	1.27	1.21	1.21	1.21
Case5_F7.3 Phase Bt		Plumtree 345	30	0	650	PT345-LM34	1.25	1.16	PT115	1.21	1.16	1.25	1.16	1.16	1.13	1.12	1.12	1.17	1.14	1.18	1.14	1.14	1.11	1.16	1.14	1.22	1.16	1.22	1.16	1.22	1.16
Case5_basNo Fault			30	0	650	BK345-ED34	1.11	1.11	ED345	1.08	1.08	1.08	1.08	1.10	1.10	1.07	1.07	1.11	1.11	1.06	1.06	1.07	1.05	1.05	1.07	1.07	1.07	1.06	1.06	1.06	1.06
Case5_F1.3 Phase		Plumtree	30	0	650	BK345-ED34	1.57	1.41	ED345	1.52	1.38	1.46	1.34	1.53	1.40	1.39	1.29	1.57	1.41	1.15	1.13	1.28	1.18	1.24	1.16	1.44	1.32	1.34	1.27	1.27	1.27
Case5_F4.3 Phase		Norwalk Junction	30	0	650	BK345-ED34	1.64	1.50	ED345	1.17	1.15	1.20	1.19	1.62	1.49	1.39	1.29	1.64	1.50	1.14	1.15	1.24	1.20	1.19	1.13	1.20	1.19	1.21	1.19	1.21	1.19
Case5_F5.3 Phase		Singer	30	0	650	BK345-ED34	1.38	1.22	ED345	1.24	1.15	1.23	1.22	1.34	1.18	1.20	1.14	1.38	1.20	1.13	1.11	1.12	1.11	1.15	1.15	1.25	1.21	1.22	1.21	1.21	1.21
Case5_F6.3 Phase Bt		Norwalk 345	30	0	650	BK345-ED34	1.38	1.18	ED345	1.24	1.13	1.19	1.17	1.36	1.18	1.19	1.13	1.38	1.18	1.12	1.10	1.11	1.10	1.14	1.11	1.18	1.16	1.17	1.13	1.13	
Case5_F7.3 Phase Bt		Plumtree 345	30	0	650	BK345-ED34	1.23	1.18	PT115	1.21	1.17	1.23	1.18	1.20	1.14	1.14	1.11	1.20	1.16	1.13	1.10	1.12	1.13	1.14	1.11	1.22	1.16	1.22	1.16	1.22	1.17
Case5_basNo Fault			30	0	650	NE138-NO13	1.10	1.10	ED345	1.08	1.08	1.08	1.08	1.10	1.10	1.09	1.09	1.10	1.10	1.08	1.08	1.08	1.08	1.06	1.06	1.08	1.08	1.07	1.07	1.07	1.07
Case5_F1.3 Phase		Plumtree	30	0	650	NE138-NO13	1.29	1.25	STONY	1.22	1.21	1.29	1.25	1.22	1.20	1.24	1.19	1.23	1.20	1.19	1.15	1.19	1.14	1.16	1.16	1.29	1.24	1.27	1.22	1.22	1.22
Case5_F2.3 Phase		East Devon	30	0	650	NE138-NO13	1.33	1.26	NW345	1.28	1.22	1.30	1.25	1.33	1.24	1.27	1.23	1.33	1.25	1.21	1.16	1.28	1.25	1.21	1.15	1.29	1.26	1.27	1.20	1.20	
Case5_F3.1 Phase		East Devon	30	0	650	NE138-NO13	1.13	1.12	ED345	1.11	1.09	1.10	1.09	1.13	1.11	1.11	1.10	1.13	1.12	1.08	1.06	1.09	1.08	1.07	1.06	1.11	1.09	1.10	1.08	1.08	
Case5_F4.3 Phase		Norwalk Junction	30	0	650	NE138-NO13	1.31	1.26	NW345	1.19	1.15	1.21	1.17	1.31	1.26	1.28	1.23	1.30	1.26	1.23	1.25	1.17	1.17	1.18	1.15	1.21	1.18	1.21	1.16	1.16	
Case5_F5.3 Phase		Singer	30	0	650	NE138-NO13	1.41	1.25	NW345	1.31	1.22	1.30	1.22	1.41	1.25	1.38	1.22	1.40	1.23	1.16	1.13	1.17	1.11	1.14	1.14	1.29	1.20	1.26	1.17	1.17	
Case5_F6.3 Phase Bt		Norwalk 345	30	0	650	NE138-NO13	1.36	1.21	NW345	1.22	1.15	1.31	1.21	1.36	1.18	1.29	1.19	1.35	1.20	1.17	1.14	1.13	1.10	1.15	1.12	1.33	1.20	1.25	1.18	1.18	
Case5_F7.3 Phase Bt		Plumtree 345	30	0	650	NE138-NO13	1.24	1.21	STONY	1.19	1.15	1.23	1.20	1.19	1.14	1.21	1.13	1.20	1.15	1.15	1.14	1.13	1.12	1.16	1.12	1.24	1.19	1.22	1.21	1.21	
Case5_basNo Fault			30	0	650	LM345-PLVA	1.11	1.11	ED345	1.11	1.11	1.10	1.10	1.11	1.11	1.09	1.09	1.11	1.11	1.09	1.09	1.09	1.08	1.08	1.09	1.09	1.09	1.08	1.08	1.08	
Case5_F1.3 Phase		Plumtree	30	0	650	LM345-PLVA	1.24	1.20	PT115	1.19	1.16	1.24	1.20	1.14	1.16	1.11	1.19	1.14	1.18	1.16	1.15	1.14	1.19	1.16	1.23	1.19	1.20	1.17	1.17	1.17	
Case5_F2.3 Phase		East Devon	30	0	650	LM345-PLVA	1.41	1.30	NW345	1.29	1.26	1.31	1.28	1.41	1.30	1.24	1.21	1.38	1.30	1.26	1.22	1.29	1.26	1.21	1.22	1.31	1.27	1.25	1.25	1.25	
Case5_F3.1 Phase		East Devon	30	0	650	LM345-PLVA	1.19	1.14	ED345	1.17	1.12	1.16	1.11	1.18	1.13	1.12	1.10	1.19	1.14	1.08	1.07	1.12	1.08	1.10	1.08	1.10	1.10	1.13	1.09	1.09	
Case5_F4.3 Phase		Norwalk Junction	30	0	650	LM345-PLVA	1.45	1.26	NW345	1.26	1.22	1.22	1.23	1.45	1.26	1.20	1.13	1.44	1.24	1.21	1.17	1.12	1.18	1.17	1.22	1.21	1.25	1.24	1.24	1.24	
Case5_F5.3 Phase		Singer	30	0	650	LM345-PLVA	1.45	1.26	NW345	1.39	1.24	1.42	1.26	1.45	1.23	1.22	1.12	1.44	1.23	1.16	1.12	1.18	1.10	1.20	1.13	1.41	1.25	1.39	1.22	1.22	
Case5_F6.3 Phase Bt		Norwalk 345	30	0	650	LM345-PLVA	1.39	1.26	NW345	1.27	1.17	1.29	1.24	1.39	1.19	1.19	1.12	1.38	1.20	1.18	1.15	1.14	1.12	1.18	1.14	1.26	1.26	1.29	1.22	1.22	
Case5_F7.3 Phase Bt		Plumtree 345	30	0	650	LM345-PLVA	1.22	1.20	PT115	1.18	1.16	1.22	1.20	1.21	1.14	1.15	1.13	1.21	1.15	1.15	1.13	1.11	1.11	1.15	1.13	1.21	1.20	1.19	1.19	1.19	

CASE #: 5C - Case 5 (Old) + 10 Miles of Cable (GE 2C and 6C windows)

DATE: 12/15/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C
Case5_basNo Fault			40	0	650				1.08	1.08	ED345	1.06	1.06	1.05	1.05	1.07	1.07	1.05	1.05	1.08	1.08	1.06	1.06	1.06	1.06	1.04	1.04	1.05	1.05	1.04	1.04	
Case5_F1.3 Phase	Plumtree		40	0	650				1.22	1.13	PT345	1.22	1.13	1.22	1.13	1.16	1.11	1.11	1.10	1.16	1.11	1.18	1.11	1.09	1.08	1.12	1.08	1.20	1.12	1.20	1.11	
Case5_F2.3 Phase	East Devon		40	0	650				1.28	1.15	NW345	1.16	1.12	1.16	1.15	1.28	1.13	1.12	1.08	1.26	1.14	1.14	1.11	1.13	1.13	1.12	1.09	1.18	1.14	1.16	1.11	
Case5_F3.1 Phase	East Devon		40	0	650				1.13	1.09	ED345	1.11	1.07	1.11	1.06	1.12	1.08	1.08	1.06	1.13	1.09	1.08	1.05	1.06	1.05	1.06	1.04	1.12	1.05	1.11	1.05	
Case5_F4.3 Phase	Norwalk Junction		40	0	650				1.38	1.23	NW345	1.19	1.14	1.16	1.15	1.38	1.23	1.20	1.13	1.38	1.22	1.21	1.20	1.14	1.12	1.13	1.12	1.16	1.14	1.15	1.12	
Case5_F5.3 Phase	Singer		40	0	650				1.52	1.34	ED345	1.42	1.28	1.35	1.22	1.49	1.33	1.36	1.18	1.52	1.34	1.24	1.19	1.23	1.20	1.20	1.13	1.34	1.20	1.31	1.18	
Case5_F6.3 Phase Bt	Norwalk 345		40	0	650				1.42	1.26	ED345	1.27	1.22	1.28	1.20	1.39	1.24	1.30	1.15	1.42	1.26	1.19	1.12	1.18	1.12	1.15	1.11	1.26	1.17	1.22	1.19	
Case5_F7.3 Phase Bt	Plumtree 345		40	0	650				1.25	1.18	NW345	1.18	1.14	1.20	1.18	1.25	1.16	1.19	1.10	1.24	1.16	1.16	1.13	1.10	1.09	1.13	1.10	1.19	1.17	1.20	1.17	
Case5_basNo Fault			40	0	650	PT345-LM34	1.09	1.09	ED345			1.08	1.08	1.07	1.07	1.09	1.09	1.06	1.06	1.09	1.09	1.06	1.06	1.06	1.06	1.04	1.04	1.06	1.06	1.05	1.05	
Case5_F2.3 Phase	East Devon		40	0	650	PT345-LM34	1.46	1.31	NW345			1.46	1.28	1.30	1.25	1.46	1.31	1.27	1.20	1.43	1.30	1.18	1.14	1.21	1.20	1.18	1.14	1.29	1.25	1.24	1.21	
Case5_F3.1 Phase	East Devon		40	0	650	PT345-LM34	1.14	1.13	ED345			1.12	1.12	1.10	1.09	1.14	1.12	1.09	1.08	1.14	1.13	1.07	1.05	1.07	1.06	1.06	1.04	1.09	1.08	1.10	1.07	
Case5_F4.3 Phase	Norwalk Junction		40	0	650	PT345-LM34	1.33	1.18	ED345			1.19	1.15	1.19	1.15	1.32	1.18	1.15	1.13	1.33	1.18	1.14	1.11	1.11	1.09	1.11	1.07	1.21	1.15	1.20	1.14	
Case5_F5.3 Phase	Singer		40	0	650	PT345-LM34	1.43	1.21	NW345			1.40	1.21	1.32	1.17	1.43	1.19	1.21	1.09	1.42	1.21	1.15	1.09	1.17	1.08	1.15	1.09	1.32	1.17	1.25	1.16	
Case5_F6.3 Phase Bt	Norwalk 345		40	0	650	PT345-LM34	1.31	1.20	ED345			1.26	1.12	1.22	1.17	1.31	1.14	1.15	1.09	1.31	1.16	1.14	1.08	1.09	1.08	1.14	1.09	1.22	1.20	1.23	1.17	
Case5_F7.3 Phase Bt	Plumtree 345		40	0	650	PT345-LM34	1.17	1.14	PT345			1.17	1.14	1.17	1.12	1.13	1.11	1.11	1.09	1.14	1.11	1.15	1.12	1.10	1.09	1.11	1.08	1.17	1.12	1.17	1.10	
Case5_basNo Fault			40	0	650	BK345-ED34	1.09	1.09	ED345			1.07	1.07	1.06	1.06	1.08	1.08	1.06	1.06	1.09	1.09	1.05	1.05	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	
Case5_F1.3 Phase	Plumtree		40	0	650	BK345-ED34	1.44	1.31	ED345			1.37	1.29	1.34	1.26	1.39	1.30	1.30	1.21	1.44	1.31	1.11	1.09	1.20	1.14	1.16	1.12	1.32	1.25	1.27	1.19	
Case5_F4.3 Phase	Norwalk Junction		40	0	650	BK345-ED34	1.51	1.40	ED345			1.13	1.13	1.17	1.17	1.50	1.39	1.30	1.24	1.51	1.40	1.12	1.12	1.20	1.16	1.12	1.11	1.16	1.16	1.15	1.13	
Case5_F5.3 Phase	Singer		40	0	650	BK345-ED34	1.35	1.18	ED345			1.22	1.12	1.20	1.17	1.32	1.15	1.16	1.10	1.35	1.17	1.12	1.10	1.09	1.08	1.12	1.11	1.20	1.17	1.20	1.18	
Case5_F6.3 Phase Bt	Norwalk 345		40	0	650	BK345-ED34	1.32	1.14	ED345			1.19	1.11	1.15	1.14	1.31	1.14	1.16	1.10	1.32	1.14	1.11	1.09	1.07	1.08	1.11	1.08	1.14	1.14	1.17	1.12	
Case5_F7.3 Phase Bt	Plumtree 345		40	0	650	BK345-ED34	1.20	1.15	STONY			1.17	1.15	1.20	1.14	1.16	1.12	1.10	1.09	1.18	1.14	1.12	1.08	1.10	1.10	1.12	1.07	1.20	1.11	1.17	1.11	
Case5_basNo Fault			40	0	650	NE138-NO13	1.08	1.08	ED345			1.06	1.06	1.06	1.06	1.07	1.07	1.07	1.07	1.08	1.08	1.06	1.06	1.06	1.06	1.06	1.04	1.04	1.05	1.05	1.05	1.05
Case5_F1.3 Phase	Plumtree		40	0	650	NE138-NO13	1.21	1.17	ROCKY			1.17	1.13	1.19	1.17	1.15	1.13	1.14	1.12	1.15	1.14	1.13	1.10	1.12	1.10	1.12	1.09	1.19	1.17	1.21	1.16	
Case5_F2.3 Phase	East Devon		40	0	650	NE138-NO13	1.24	1.19	NW345			1.19	1.15	1.21	1.19	1.24	1.16	1.18	1.16	1.22	1.16	1.14	1.11	1.19	1.17	1.12	1.11	1.22	1.19	1.22	1.15	
Case5_F3.1 Phase	East Devon		40	0	650	NE138-NO13	1.10	1.09	ED345			1.08	1.07	1.08	1.06	1.10	1.09	1.08	1.07	1.10	1.09	1.07	1.05	1.06	1.05	1.04	1.04	1.07	1.06	1.07	1.05	
Case5_F4.3 Phase	Norwalk Junction		40	0	650	NE138-NO13	1.24	1.20	NW345			1.14	1.12	1.18	1.11	1.24	1.19	1.20	1.15	1.23	1.19	1.20	1.20	1.13	1.11	1.15	1.10	1.18	1.12	1.15	1.11	
Case5_F5.3 Phase	Singer		40	0	650	NE138-NO13	1.34	1.20	NW345			1.29	1.17	1.27	1.16	1.34	1.20	1.28	1.17	1.34	1.19	1.15	1.09	1.12	1.08	1.11	1.10	1.26	1.14	1.24	1.13	
Case5_F6.3 Phase Bt	Norwalk 345		40	0	650	NE138-NO13	1.29	1.17	NW345			1.16	1.12	1.28	1.17	1.29	1.14	1.22	1.13	1.28	1.15	1.14	1.10	1.08	1.07	1.11	1.08	1.26	1.16	1.19	1.12	
Case5_F7.3 Phase Bt	Plumtree 345		40	0	650	NE138-NO13	1.17	1.15	PT115			1.13	1.13	1.17	1.15	1.16	1.11	1.15	1.08	1.16	1.11	1.12	1.11	1.09	1.08	1.11	1.08	1.17	1.14	1.17	1.15	
Case5_basNo Fault			40	0	650	LM345-PLVA	1.09	1.09	ED345			1.08	1.08	1.07	1.07	1.09	1.09	1.06	1.06	1.09	1.09	1.07	1.07	1.06	1.06	1.05	1.05	1.07	1.07	1.06	1.06	
Case5_F1.3 Phase	Plumtree		40	0	650	LM345-PLVA	1.17	1.15	PT115			1.15	1.12	1.17	1.15	1.15	1.11	1.10	1.08	1.16	1.10	1.16	1.12	1.10	1.09	1.13	1.11	1.16	1.15	1.14	1.12	
Case5_F2.3 Phase	East Devon		40	0	650	LM345-PLVA	1.30	1.22	NW345			1.22	1.19	1.24	1.21	1.30	1.22	1.19	1.15	1.28	1.21	1.21	1.17	1.22	1.19	1.16	1.17	1.23	1.21	1.19	1.21	
Case5_F3.1 Phase	East Devon		40	0	650	LM345-PLVA	1.13	1.11	ED345			1.11	1.09	1.10	1.08	1.12	1.11	1.07	1.07	1.13	1.11	1.06	1.06	1.07	1.06	1.06	1.05	1.09	1.07	1.08	1.06	
Case5_F4.3 Phase	Norwalk Junction		40	0	650	LM345-PLVA	1.40	1.20	NW345			1.21	1.17	1.20	1.17	1.40	1.20	1.16	1.10	1.38	1.19	1.17	1.13	1.11	1.09	1.13	1.10	1.18	1.16	1.20	1.19	
Case5_F5.3 Phase	Singer		40	0	650	LM345-PLVA	1.40	1.20	PT115			1.35	1.20	1.40	1.20	1.40	1.19	1.18	1.10	1.38	1.19	1.14	1.09	1.11	1.07	1.13	1.09	1.40	1.19	1.35	1.15	
Case5_F6.3 Phase Bt	Norwalk 345		40	0	650	LM345-PLVA	1.33	1.20	ED345			1.22	1.14	1.28	1.19	1.33	1.14	1.15	1.08	1.33	1.15	1.16	1.11	1.09	1.08	1.12	1.10	1.25	1.20	1.25	1.16	
Case5_F7.3 Phase Bt	Plumtree 345		40	0	650	LM345-PLVA	1.17	1.14	ED345			1.14	1.12	1.15	1.14	1.17	1.10	1.11	1.10	1.17	1.11	1.12	1.10	1.08	1.08	1.11	1.10	1.15	1.14	1.14	1.14	

CASE #: 5C - Case 5 (Old) + 10 Miles of Cable (GE 2C and 6C windows)

DATE: 12/15/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																								
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY						
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	
Case5_bas	No Fault		50	302	840				1.06	1.06	ED345	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.06	1.06	1.06	1.06	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	
Case5_F1_3	Phase Plumtree		50	302	840				1.27	1.21	STONY	1.13	1.12	1.17	1.12	1.11	1.07	1.07	1.06	1.09	1.08	1.12	1.09	1.08	1.06	1.10	1.08	1.27	1.21	1.17	1.11	1.11		
Case5_F2_3	Phase East Devon		50	302	840				1.19	1.15	STONY	1.14	1.09	1.14	1.13	1.16	1.08	1.08	1.06	1.17	1.08	1.17	1.12	1.17	1.13	1.12	1.11	1.19	1.15	1.11	1.09	1.09		
Case5_F3_1	Phase East Devon		50	302	840				1.08	1.06	BK345	1.07	1.05	1.06	1.04	1.08	1.06	1.05	1.04	1.08	1.06	1.08	1.06	1.06	1.05	1.05	1.04	1.05	1.04	1.05	1.04	1.05	1.04	
Case5_F4_3	Phase Norwalk Junction		50	302	840				1.30	1.16	NW345	1.19	1.12	1.17	1.11	1.30	1.16	1.21	1.09	1.29	1.14	1.17	1.10	1.17	1.07	1.17	1.12	1.19	1.14	1.20	1.11	1.11	1.11	
Case5_F5_3	Phase Singer		50	302	840				1.38	1.25	NW345	1.27	1.16	1.23	1.16	1.38	1.23	1.29	1.13	1.36	1.25	1.23	1.13	1.31	1.15	1.20	1.10	1.36	1.18	1.22	1.12	1.12	1.12	
Case5_F6_3	Phase Bt Norwalk 345		50	302	840				1.31	1.16	ED345	1.21	1.09	1.20	1.12	1.29	1.15	1.22	1.09	1.31	1.16	1.19	1.11	1.27	1.09	1.16	1.09	1.19	1.12	1.16	1.10	1.10		
Case5_F7_3	Phase Bt Plumtree 345		50	302	840				1.29	1.25	STONY	1.16	1.11	1.20	1.19	1.15	1.08	1.07	1.07	1.18	1.09	1.11	1.09	1.09	1.07	1.09	1.08	1.29	1.25	1.21	1.16	1.16		
Case5_bas	No Fault		50	302	840	PT345-LM34	1.06	1.06	ED345	1.05	1.05	1.05	1.05	1.06	1.06	1.04	1.04	1.06	1.06	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.05	1.05	1.04	1.04	1.04	1.04	1.04	
Case5_F2_3	Phase East Devon		50	302	840	PT345-LM34	1.28	1.16	PT345	1.28	1.14	1.18	1.15	1.27	1.16	1.16	1.11	1.26	1.16	1.15	1.11	1.11	1.08	1.14	1.13	1.18	1.16	1.15	1.11	1.11	1.11	1.11	1.11	
Case5_F3_1	Phase East Devon		50	302	840	PT345-LM34	1.09	1.07	BK345	1.06	1.06	1.05	1.05	1.07	1.07	1.05	1.04	1.08	1.07	1.09	1.05	1.05	1.05	1.05	1.04	1.04	1.06	1.05	1.05	1.04	1.05	1.04	1.05	1.04
Case5_F4_3	Phase Norwalk Junction		50	302	840	PT345-LM34	1.27	1.14	NW345	1.22	1.12	1.22	1.12	1.27	1.11	1.16	1.07	1.26	1.11	1.18	1.10	1.09	1.06	1.09	1.05	1.05	1.25	1.14	1.17	1.11	1.11	1.11	1.11	
Case5_F5_3	Phase Singer		50	302	840	PT345-LM34	1.34	1.16	NW345	1.29	1.12	1.20	1.10	1.34	1.14	1.21	1.07	1.32	1.13	1.15	1.07	1.14	1.05	1.08	1.07	1.26	1.16	1.16	1.11	1.11	1.11	1.11	1.11	
Case5_F6_3	Phase Bt Norwalk 345		50	302	840	PT345-LM34	1.24	1.12	NW345	1.21	1.08	1.17	1.08	1.24	1.07	1.13	1.07	1.21	1.08	1.13	1.07	1.06	1.06	1.11	1.07	1.23	1.12	1.15	1.12	1.12	1.12	1.12	1.12	
Case5_F7_3	Phase Bt Plumtree 345		50	302	840	PT345-LM34	1.28	1.22	STONY	1.14	1.11	1.13	1.11	1.08	1.07	1.07	1.05	1.08	1.07	1.09	1.08	1.08	1.06	1.08	1.07	1.28	1.22	1.16	1.14	1.14	1.14	1.14	1.14	
Case5_bas	No Fault		50	302	840	BK345-ED34	1.06	1.06	ED345	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.06	1.06	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	
Case5_F1_3	Phase Plumtree		50	302	840	BK345-ED34	1.24	1.17	STONY	1.21	1.14	1.19	1.16	1.22	1.16	1.16	1.10	1.23	1.16	1.17	1.08	1.11	1.08	1.10	1.09	1.24	1.17	1.22	1.12	1.12	1.12	1.12	1.12	
Case5_F4_3	Phase Norwalk Junction		50	302	840	BK345-ED34	1.42	1.25	NW345	1.14	1.10	1.11	1.10	1.42	1.25	1.26	1.15	1.38	1.25	1.12	1.11	1.17	1.12	1.09	1.09	1.14	1.15	1.13	1.13	1.13	1.13	1.13	1.13	
Case5_F5_3	Phase Singer		50	302	840	BK345-ED34	1.30	1.14	ED345	1.18	1.09	1.13	1.11	1.26	1.09	1.17	1.07	1.30	1.14	1.13	1.08	1.05	1.05	1.09	1.05	1.23	1.11	1.12	1.08	1.08	1.08	1.08	1.08	
Case5_F6_3	Phase Bt Norwalk 345		50	302	840	BK345-ED34	1.22	1.11	ED345	1.12	1.07	1.10	1.10	1.20	1.08	1.11	1.08	1.22	1.08	1.12	1.07	1.06	1.05	1.10	1.05	1.15	1.11	1.10	1.10	1.10	1.10	1.10	1.10	
Case5_F7_3	Phase Bt Plumtree 345		50	302	840	BK345-ED34	1.27	1.22	STONY	1.16	1.12	1.15	1.15	1.10	1.07	1.09	1.07	1.12	1.09	1.13	1.07	1.08	1.06	1.09	1.08	1.27	1.22	1.18	1.12	1.12	1.12	1.12		
Case5_bas	No Fault		50	302	840	NE138-NO13	1.06	1.06	ED345	1.04	1.04	1.04	1.04	1.05	1.05	1.05	1.05	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	
Case5_F1_3	Phase Plumtree		50	302	840	NE138-NO13	1.24	1.14	STONY	1.13	1.08	1.10	1.12	1.10	1.08	1.10	1.08	1.09	1.08	1.13	1.07	1.08	1.08	1.09	1.08	1.24	1.14	1.16	1.09	1.09	1.09	1.09	1.09	
Case5_F2_3	Phase East Devon		50	302	840	NE138-NO13	1.15	1.10	NW345	1.12	1.07	1.12	1.09	1.15	1.09	1.11	1.08	1.14	1.09	1.12	1.09	1.13	1.09	1.12	1.09	1.14	1.10	1.11	1.11	1.11	1.11	1.11	1.11	
Case5_F3_1	Phase East Devon		50	302	840	NE138-NO13	1.07	1.05	BK345	1.05	1.04	1.04	1.04	1.06	1.05	1.05	1.04	1.06	1.05	1.07	1.05	1.05	1.05	1.04	1.04	1.03	1.04	1.04	1.03	1.03	1.03	1.03	1.03	
Case5_F4_3	Phase Norwalk Junction		50	302	840	NE138-NO13	1.18	1.12	PT345	1.18	1.10	1.13	1.10	1.16	1.12	1.13	1.10	1.15	1.11	1.15	1.10	1.12	1.09	1.14	1.09	1.14	1.10	1.13	1.08	1.08	1.08	1.08	1.08	
Case5_F5_3	Phase Singer		50	302	840	NE138-NO13	1.30	1.13	STONY	1.17	1.05	1.18	1.10	1.24	1.09	1.21	1.08	1.22	1.13	1.12	1.07	1.15	1.06	1.12	1.07	1.30	1.08	1.15	1.08	1.08	1.08	1.08	1.08	
Case5_F6_3	Phase Bt Norwalk 345		50	302	840	NE138-NO13	1.18	1.10	ED345	1.12	1.05	1.10	1.10	1.18	1.05	1.16	1.06	1.18	1.06	1.16	1.07	1.12	1.06	1.11	1.05	1.15	1.10	1.11	1.08	1.08	1.08	1.08	1.08	
Case5_F7_3	Phase Bt Plumtree 345		50	302	840	NE138-NO13	1.23	1.22	STONY	1.13	1.09	1.15	1.16	1.07	1.06	1.07	1.05	1.08	1.07	1.12	1.08	1.09	1.06	1.08	1.07	1.23	1.22	1.15	1.15	1.15	1.15	1.15	1.15	
Case5_bas	No Fault		50	302	840	LM345-PLVA	1.07	1.07	ED345	1.06	1.06	1.05	1.05	1.06	1.06	1.04	1.04	1.07	1.07	1.06	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	
Case5_F1_3	Phase Plumtree		50	302	840	LM345-PLVA	1.24	1.14	STONY	1.13	1.09	1.11	1.13	1.08	1.06	1.07	1.06	1.08	1.07	1.16	1.09	1.09	1.07	1.13	1.13	1.24	1.14	1.18	1.09	1.09	1.09	1.09	1.09	
Case5_F2_3	Phase East Devon		50	302	840	LM345-PLVA	1.19	1.17	BK345	1.15	1.10	1.17	1.12	1.17	1.12	1.12	1.09	1.17	1.12	1.19	1.08	1.14	1.10	1.12	1.08	1.15	1.17	1.15	1.12	1.12	1.12	1.12	1.12	
Case5_F3_1	Phase East Devon		50	302	840	LM345-PLVA	1.09	1.07	BK345	1.08	1.06	1.05	1.05	1.07	1.07	1.05	1.04	1.08	1.07	1.09	1.05	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	
Case5_F4_3	Phase Norwalk Junction		50	302	840	LM345-PLVA	1.25	1.13	NW345	1.23	1.12	1.19	1.13	1.25	1.11	1.17	1.07	1.24	1.10	1.16	1.09	1.13	1.06	1.15	1.12	1.25	1.09	1.19	1.10	1.10	1.10	1.10	1.10	
Case5_F5_3	Phase Singer		50	302	840	LM345-PLVA	1.28	1.13	ED345	1.27	1.10	1.15	1.09	1.27	1.13	1.15	1.06	1.28	1.13	1.15	1.08	1.15												

CASE #: 5C - Case 5 (Old) + 10 Miles of Cable (GE 2C and 6C windows)

DATE: 12/15/2004

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C
Case5_basNo Fault			70	1249	1050				1.11	1.11	FB115	1.06	1.06	1.08	1.08	1.07	1.07	1.06	1.06	1.08	1.08	1.08	1.08	1.10	1.10	1.11	1.11	1.08	1.08	1.09	1.09	
Case5_F1.3 Phase	Plumtree		70	1249	1050				1.50	1.44	ROCKY	1.18	1.13	1.25	1.23	1.11	1.09	1.08	1.07	1.09	1.09	1.18	1.12	1.14	1.12	1.19	1.19	1.21	1.18	1.50	1.44	
Case5_F2.3 Phase	East Devon		70	1249	1050				1.31	1.20	ROCKY	1.19	1.10	1.13	1.12	1.21	1.10	1.11	1.09	1.22	1.10	1.21	1.15	1.18	1.14	1.19	1.15	1.13	1.12	1.31	1.20	
Case5_F3.1 Phase	East Devon		70	1249	1050				1.11	1.10	BK345	1.08	1.06	1.08	1.07	1.08	1.07	1.06	1.05	1.08	1.08	1.11	1.08	1.10	1.09	1.10	1.10	1.08	1.08	1.09	1.09	
Case5_F4.3 Phase	Norwalk Junction		70	1249	1050				1.48	1.41	ROCKY	1.17	1.13	1.13	1.12	1.31	1.17	1.13	1.08	1.32	1.17	1.17	1.12	1.19	1.16	1.24	1.21	1.20	1.22	1.48	1.41	
Case5_F5.3 Phase	Singer		70	1249	1050				1.43	1.29	ROCKY	1.31	1.11	1.21	1.17	1.28	1.12	1.17	1.15	1.27	1.18	1.20	1.11	1.20	1.09	1.13	1.11	1.20	1.17	1.43	1.29	
Case5_F6.3 Phase Bt	Norwalk 345		70	1249	1050				1.42	1.34	ROCKY	1.20	1.07	1.21	1.19	1.24	1.11	1.18	1.13	1.23	1.11	1.18	1.10	1.13	1.11	1.10	1.10	1.24	1.17	1.42	1.34	
Case5_F7.3 Phase Bt	Plumtree 345		70	1249	1050				1.53	1.57	ROCKY	1.19	1.15	1.20	1.18	1.14	1.07	1.11	1.06	1.16	1.07	1.13	1.09	1.14	1.10	1.14	1.16	1.21	1.22	1.53	1.57	
Case5_basNo Fault			70	1249	1050	PT345-LM34	1.10	1.10	FB115																							
Case5_F2.3 Phase	East Devon		70	1249	1050	PT345-LM34	1.30	1.26	ROCKY	1.27	1.14	1.18	1.13	1.23	1.14	1.14	1.10	1.10	1.10	1.21	1.15	1.18	1.15	1.19	1.13	1.15	1.18	1.16	1.11	1.30	1.26	
Case5_F3.1 Phase	East Devon		70	1249	1050	PT345-LM34	1.11	1.09	BK345	1.09	1.08	1.07	1.07	1.08	1.08	1.05	1.05	1.09	1.09	1.11	1.07	1.08	1.08	1.09	1.09	1.08	1.07	1.09	1.08	1.07	1.09	1.08
Case5_F4.3 Phase	Norwalk Junction		70	1249	1050	PT345-LM34	1.64	1.40	ROCKY	1.30	1.17	1.15	1.16	1.22	1.09	1.10	1.07	1.22	1.08	1.21	1.12	1.13	1.10	1.14	1.13	1.14	1.15	1.64	1.40			
Case5_F5.3 Phase	Singer		70	1249	1050	PT345-LM34	1.30	1.27	ROCKY	1.27	1.13	1.23	1.19	1.24	1.08	1.10	1.07	1.22	1.10	1.18	1.10	1.10	1.09	1.10	1.11	1.23	1.19	1.30	1.27			
Case5_F6.3 Phase Bt	Norwalk 345		70	1249	1050	PT345-LM34	1.33	1.33	ROCKY	1.18	1.10	1.23	1.19	1.17	1.07	1.09	1.08	1.18	1.08	1.19	1.10	1.13	1.12	1.12	1.12	1.17	1.18	1.33	1.33			
Case5_F7.3 Phase Bt	Plumtree 345		70	1249	1050	PT345-LM34	1.44	1.40	ROCKY	1.20	1.15	1.18	1.19	1.08	1.06	1.07	1.07	1.10	1.08	1.10	1.11	1.12	1.12	1.14	1.15	1.18	1.17	1.44	1.40			
Case5_basNo Fault			70	1249	1050	BK345-ED34	1.10	1.10	FB115																							
Case5_F1.3 Phase	Plumtree		70	1249	1050	BK345-ED34	1.50	1.29	ROCKY	1.23	1.15	1.21	1.17	1.19	1.13	1.14	1.09	1.20	1.15	1.17	1.10	1.14	1.11	1.22	1.22	1.20	1.16	1.50	1.29			
Case5_F4.3 Phase	Norwalk Junction		70	1249	1050	BK345-ED34	1.40	1.37	ROCKY	1.18	1.15	1.17	1.16	1.33	1.23	1.20	1.15	1.33	1.24	1.17	1.12	1.23	1.17	1.19	1.19	1.24	1.25	1.40	1.37			
Case5_F5.3 Phase	Singer		70	1249	1050	BK345-ED34	1.28	1.22	ROCKY	1.14	1.06	1.20	1.11	1.21	1.06	1.10	1.09	1.20	1.09	1.15	1.11	1.12	1.11	1.13	1.10	1.17	1.13	1.28	1.22			
Case5_F6.3 Phase Bt	Norwalk 345		70	1249	1050	BK345-ED34	1.32	1.23	ROCKY	1.12	1.08	1.17	1.12	1.16	1.08	1.11	1.10	1.19	1.08	1.14	1.11	1.14	1.12	1.14	1.11	1.15	1.13	1.32	1.23			
Case5_F7.3 Phase Bt	Plumtree 345		70	1249	1050	BK345-ED34	1.53	1.53	ROCKY	1.18	1.15	1.17	1.17	1.09	1.08	1.08	1.07	1.11	1.08	1.16	1.10	1.13	1.11	1.16	1.16	1.19	1.22	1.53	1.53			
Case5_basNo Fault			70	1249	1050	NE138-NO13	1.10	1.10	FB115																							
Case5_F1.3 Phase	Plumtree		70	1249	1050	NE138-NO13	1.49	1.27	ROCKY	1.15	1.10	1.20	1.12	1.09	1.07	1.11	1.09	1.11	1.08	1.12	1.08	1.11	1.09	1.14	1.13	1.19	1.14	1.49	1.27			
Case5_F2.3 Phase	East Devon		70	1249	1050	NE138-NO13	1.23	1.16	ROCKY	1.15	1.09	1.12	1.10	1.17	1.11	1.13	1.10	1.16	1.13	1.21	1.13	1.16	1.11	1.13	1.11	1.12	1.09	1.23	1.16			
Case5_F3.1 Phase	East Devon		70	1249	1050	NE138-NO13	1.09	1.09	FB115	1.07	1.05	1.06	1.06	1.06	1.05	1.06	1.06	1.07	1.06	1.08	1.06	1.08	1.08	1.09	1.09	1.07	1.06	1.08	1.08			
Case5_F4.3 Phase	Norwalk Junction		70	1249	1050	NE138-NO13	1.35	1.32	ROCKY	1.19	1.13	1.14	1.14	1.16	1.13	1.15	1.12	1.16	1.13	1.19	1.11	1.18	1.13	1.19	1.16	1.20	1.18	1.35	1.32			
Case5_F5.3 Phase	Singer		70	1249	1050	NE138-NO13	1.34	1.21	ROCKY	1.15	1.10	1.15	1.11	1.15	1.08	1.13	1.12	1.14	1.10	1.17	1.10	1.12	1.10	1.10	1.10	1.14	1.11	1.34	1.21			
Case5_F6.3 Phase Bt	Norwalk 345		70	1249	1050	NE138-NO13	1.32	1.20	ROCKY	1.12	1.08	1.15	1.11	1.10	1.08	1.11	1.10	1.09	1.08	1.13	1.09	1.14	1.09	1.10	1.11	1.16	1.11	1.32	1.20			
Case5_F7.3 Phase Bt	Plumtree 345		70	1249	1050	NE138-NO13	1.56	1.55	ROCKY	1.15	1.12	1.17	1.17	1.08	1.06	1.10	1.09	1.08	1.08	1.13	1.08	1.11	1.09	1.15	1.12	1.19	1.22	1.56	1.55			
Case5_basNo Fault			70	1249	1050	LM345-PLVA	1.11	1.11	FB115																							
Case5_F1.3 Phase	Plumtree		70	1249	1050	LM345-PLVA	1.42	1.32	ROCKY	1.21	1.16	1.25	1.24	1.12	1.10	1.10	1.09	1.13	1.12	1.15	1.11	1.15	1.12	1.22	1.20	1.26	1.24	1.42	1.32			
Case5_F2.3 Phase	East Devon		70	1249	1050	LM345-PLVA	1.33	1.32	ROCKY	1.26	1.16	1.15	1.13	1.23	1.17	1.15	1.12	1.22	1.18	1.20	1.13	1.15	1.13	1.22	1.16	1.17	1.12	1.33	1.32			
Case5_F3.1 Phase	East Devon		70	1249	1050	LM345-PLVA	1.11	1.11	FB115	1.09	1.08	1.09	1.09	1.09	1.09	1.06	1.06	1.10	1.10	1.08	1.07	1.09	1.09	1.11	1.11	1.09	1.10	1.10	1.10			
Case5_F4.3 Phase	Norwalk Junction		70	1249	1050	LM345-PLVA	1.37	1.35	ROCKY	1.22	1.17	1.18	1.22	1.29	1.17	1.12	1.09	1.27	1.16	1.15	1.12	1.17	1.13	1.18	1.18	1.24	1.21	1.37	1.35			
Case5_F5.3 Phase	Singer		70	1249	1050	LM345-PLVA	1.38	1.25	ROCKY	1.23	1.11	1.20	1.17	1.20	1.09	1.10	1.09	1.20	1.10	1.18	1.11	1.13	1.11	1.14	1.14	1.24	1.18	1.38	1.25			
Case5_F6.3 Phase Bt	Norwalk 345		70	1249	1050	LM345-PLVA	1.32	1.28	ROCKY	1.16	1.12	1.20	1.18	1.15	1.10	1.12	1.10	1.16	1.10	1.15	1.11	1.15	1.12	1.17	1.14	1.23	1.19	1.32	1.28			
Case5_F7.3 Phase Bt	Plumtree 345		70	1249	1050	LM345-PLVA	1.45	1.39	ROCKY	1.20	1.16	1.19	1.20	1.10	1.08	1.09	1.09	1.12	1.11	1.13	1.11	1.14	1.12	1.18	1.16	1.24	1.23	1.45	1.39			

CASE #: 5C - Case 5 (Old) + 10 Miles of Cable (GE 2C and 6C windows)
 Fault Closing at 0V on each phase, 3.5 Cycle Clearing
 DONE BY: Jack King/EnerNex

DATE: 12/14/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																						
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY				
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C
Case5_basNo Fault			30	0	650				1.09	1.09	ED345	1.07	1.07	1.07	1.07	1.09	1.09	1.07	1.07	1.09	1.09	1.07	1.07	1.07	1.07	1.06	1.06	1.07	1.07	1.06	1.06	
Case5_F1.3 Phase		Plumtree	30	0	650				1.19	1.17	STONY	1.17	1.13	1.18	1.17	1.12	1.11	1.12	1.09	1.12	1.11	1.14	1.10	1.11	1.11	1.14	1.10	1.19	1.16	1.17	1.15	
Case5_F2.3 Phase		East Devon	30	0	650				1.14	1.11	ROCKY	1.08	1.08	1.11	1.09	1.12	1.10	1.08	1.08	1.13	1.11	1.07	1.06	1.08	1.07	1.07	1.06	1.11	1.09	1.14	1.08	
Case5_F3.1 Phase		East Devon	30	0	650				1.23	1.14	ED345	1.15	1.11	1.14	1.10	1.22	1.13	1.18	1.10	1.23	1.14	1.10	1.07	1.16	1.09	1.09	1.07	1.15	1.09	1.14	1.09	
Case5_F4.3 Phase		Norwalk Junction	30	0	650				1.27	1.13	NW345	1.09	1.08	1.07	1.08	1.27	1.11	1.15	1.13	1.27	1.11	1.11	1.08	1.07	1.07	1.07	1.05	1.09	1.08	1.09	1.07	
Case5_F5.3 Phase		Singer	30	0	650				1.44	1.16	ED345	1.29	1.10	1.24	1.10	1.40	1.14	1.29	1.08	1.44	1.16	1.17	1.09	1.25	1.08	1.15	1.08	1.24	1.11	1.25	1.10	
Case5_F6.3 Phase Bt		Norwalk 345	30	0	650				1.28	1.13	ED345	1.18	1.07	1.17	1.11	1.27	1.08	1.17	1.13	1.28	1.08	1.12	1.07	1.10	1.08	1.12	1.08	1.18	1.11	1.16	1.11	
Case5_F7.3 Phase Bt		Plumtree 345	30	0	650				1.23	1.19	PT115	1.16	1.13	1.23	1.19	1.10	1.09	1.11	1.10	1.12	1.09	1.11	1.10	1.10	1.10	1.12	1.10	1.23	1.18	1.23	1.16	
Case5_basNo Fault			30	0	650	PT345-LM34	1.11	1.11	ED345			1.10	1.10	1.09	1.09	1.10	1.10	1.08	1.08	1.11	1.11	1.08	1.08	1.08	1.08	1.06	1.06	1.08	1.08	1.07	1.07	
Case5_F2.3 Phase		East Devon	30	0	650	PT345-LM34	1.62	1.29	PT345	1.62	1.28	1.60	1.23	1.61	1.28	1.41	1.19	1.60	1.29	1.23	1.07	1.36	1.14	1.28	1.11	1.57	1.22	1.49	1.21			
Case5_F3.1 Phase		East Devon	30	0	650	PT345-LM34	1.56	1.31	ED345	1.53	1.29	1.47	1.23	1.55	1.30	1.39	1.20	1.56	1.31	1.18	1.10	1.26	1.16	1.21	1.12	1.45	1.23	1.37	1.19			
Case5_F4.3 Phase		Norwalk Junction	30	0	650	PT345-LM34	1.22	1.14	ED345	1.14	1.13	1.14	1.13	1.22	1.10	1.17	1.14	1.22	1.11	1.08	1.08	1.06	1.07	1.06	1.07	1.11	1.12	1.15	1.10			
Case5_F5.3 Phase		Singer	30	0	650	PT345-LM34	1.38	1.11	NW345	1.36	1.07	1.28	1.08	1.38	1.08	1.22	1.07	1.35	1.08	1.11	1.07	1.13	1.06	1.06	1.07	1.26	1.10	1.18	1.11			
Case5_F6.3 Phase Bt		Norwalk 345	30	0	650	PT345-LM34	1.25	1.13	NW345	1.23	1.09	1.19	1.13	1.25	1.09	1.14	1.13	1.25	1.09	1.09	1.08	1.10	1.08	1.10	1.08	1.17	1.13	1.15	1.13			
Case5_F7.3 Phase Bt		Plumtree 345	30	0	650	PT345-LM34	1.19	1.18	ROCKY	1.15	1.13	1.18	1.17	1.11	1.10	1.11	1.10	1.12	1.11	1.13	1.13	1.11	1.11	1.13	1.13	1.17	1.17	1.19	1.18			
Case5_basNo Fault			30	0	650	BK345-ED34	1.11	1.11	ED345	1.08	1.08	1.08	1.08	1.10	1.10	1.07	1.07	1.11	1.11	1.11	1.06	1.06	1.07	1.07	1.05	1.05	1.07	1.07	1.06	1.06		
Case5_F1.3 Phase		Plumtree	30	0	650	BK345-ED34	1.40	1.38	PT345	1.40	1.38	1.39	1.36	1.37	1.34	1.27	1.24	1.37	1.34	1.11	1.11	1.18	1.17	1.20	1.19	1.39	1.35	1.34	1.31			
Case5_F4.3 Phase		Norwalk Junction	30	0	650	BK345-ED34	1.61	1.22	ED345	1.15	1.07	1.15	1.07	1.59	1.22	1.33	1.16	1.61	1.22	1.12	1.06	1.17	1.09	1.13	1.07	1.17	1.07	1.17	1.07			
Case5_F5.3 Phase		Singer	30	0	650	BK345-ED34	1.28	1.10	ED345	1.17	1.07	1.17	1.07	1.27	1.09	1.13	1.07	1.28	1.10	1.08	1.06	1.07	1.06	1.09	1.06	1.18	1.08	1.18	1.08			
Case5_F6.3 Phase Bt		Norwalk 345	30	0	650	BK345-ED34	1.15	1.13	NW345	1.09	1.08	1.11	1.10	1.15	1.10	1.12	1.13	1.15	1.10	1.08	1.06	1.07	1.07	1.08	1.06	1.12	1.10	1.13	1.09			
Case5_F7.3 Phase Bt		Plumtree 345	30	0	650	BK345-ED34	1.19	1.16	PT115	1.17	1.11	1.19	1.16	1.11	1.10	1.11	1.08	1.13	1.12	1.11	1.09	1.11	1.10	1.08	1.08	1.18	1.15	1.18	1.15			
Case5_basNo Fault			30	0	650	NE138-NO13	1.10	1.10	ED345	1.08	1.08	1.08	1.08	1.10	1.10	1.09	1.09	1.10	1.10	1.08	1.08	1.08	1.08	1.06	1.06	1.08	1.08	1.07	1.07			
Case5_F1.3 Phase		Plumtree	30	0	650	NE138-NO13	1.29	1.30	PT115	1.18	1.17	1.29	1.30	1.18	1.17	1.15	1.14	1.17	1.16	1.14	1.15	1.15	1.16	1.18	1.19	1.29	1.30	1.27	1.28			
Case5_F2.3 Phase		East Devon	30	0	650	NE138-NO13	1.17	1.13	ROCKY	1.14	1.11	1.13	1.10	1.16	1.12	1.13	1.11	1.17	1.13	1.11	1.07	1.14	1.09	1.11	1.07	1.14	1.10	1.17	1.10			
Case5_F3.1 Phase		East Devon	30	0	650	NE138-NO13	1.20	1.15	ED345	1.16	1.12	1.15	1.11	1.20	1.14	1.19	1.13	1.20	1.15	1.13	1.08	1.14	1.10	1.13	1.08	1.14	1.11	1.13	1.10			
Case5_F4.3 Phase		Norwalk Junction	30	0	650	NE138-NO13	1.16	1.12	NW345	1.12	1.07	1.11	1.08	1.16	1.11	1.14	1.12	1.15	1.12	1.11	1.09	1.09	1.08	1.11	1.06	1.10	1.09	1.12	1.08			
Case5_F5.3 Phase		Singer	30	0	650	NE138-NO13	1.26	1.09	ED345	1.21	1.07	1.18	1.07	1.25	1.09	1.25	1.08	1.26	1.09	1.12	1.07	1.11	1.07	1.10	1.07	1.17	1.07	1.16	1.09			
Case5_F6.3 Phase Bt		Norwalk 345	30	0	650	NE138-NO13	1.20	1.12	ED345	1.12	1.08	1.11	1.10	1.19	1.09	1.20	1.12	1.20	1.10	1.09	1.09	1.07	1.07	1.09	1.07	1.13	1.11	1.14	1.09			
Case5_F7.3 Phase Bt		Plumtree 345	30	0	650	NE138-NO13	1.22	1.17	ROCKY	1.12	1.10	1.21	1.16	1.10	1.10	1.09	1.08	1.11	1.11	1.11	1.10	1.09	1.09	1.12	1.10	1.22	1.17	1.22	1.16			
Case5_basNo Fault			30	0	650	LM345-PLVA	1.11	1.11	ED345	1.11	1.11	1.10	1.10	1.11	1.11	1.09	1.09	1.11	1.11	1.09	1.09	1.09	1.09	1.08	1.08	1.09	1.09	1.08	1.08			
Case5_F1.3 Phase		Plumtree	30	0	650	LM345-PLVA	1.23	1.22	PT115	1.20	1.19	1.23	1.22	1.12	1.12	1.11	1.10	1.13	1.13	1.16	1.15	1.14	1.11	1.19	1.19	1.21	1.21	1.21	1.19			
Case5_F2.3 Phase		East Devon	30	0	650	LM345-PLVA	1.33	1.19	ED345	1.29	1.16	1.33	1.15	1.32	1.18	1.22	1.13	1.33	1.19	1.23	1.10	1.19	1.13	1.21	1.11	1.32	1.15	1.28	1.16			
Case5_F3.1 Phase		East Devon	30	0	650	LM345-PLVA	1.38	1.20	ED345	1.35	1.16	1.32	1.14	1.37	1.18	1.26	1.14	1.38	1.20	1.17	1.09	1.27	1.14	1.21	1.10	1.32	1.14	1.30	1.13			
Case5_F4.3 Phase		Norwalk Junction	30	0	650	LM345-PLVA	1.22	1.13	ED345	1.14	1.11	1.11	1.11	1.21	1.11	1.15	1.13	1.22	1.11	1.09	1.08	1.08	1.10	1.07	1.12	1.11	1.15	1.10				
Case5_F5.3 Phase		Singer	30	0	650	LM345-PLVA	1.41	1.10	NW345	1.38	1.08	1.31	1.09	1.41	1.08	1.23	1.07	1.38	1.09	1.16	1.08	1.17	1.07	1.16	1.08	1.30	1.10	1.24	1.10			
Case5_F6.3 Phase Bt		Norwalk 345	30	0	650	LM345-PLVA	1.29	1.15	NW345	1.27	1.10	1.21	1.13	1.29	1.10	1.16	1.12	1.28	1.10	1.11	1.10	1.10	1.09	1.13	1.11	1.21	1.15	1.20	1.14			
Case5_F7.3 Phase Bt		Plumtree 345	30	0	650	LM345-PLVA	1.23	1.21	STONY	1.16	1.15	1.21	1.21	1.12	1.11	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.10	1.10	1.15	1.13	1.23	1.21	1.22	1.20		

CASE #: 5C - Case 5 (Old) + 10 Miles of Cable (GE 2C and 6C windows)

DATE: 12/14/2004

Fault Closing at 0V on each phase, 3.5 Cycle Clearing

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_basNo Fault			40	0	650				1.08	1.08	ED345	1.06	1.06	1.05	1.05	1.07	1.07	1.05	1.05	1.08	1.08	1.06	1.06	1.06	1.06	1.04	1.04	1.05	1.05	1.04	1.04
Case5_F1.3 Phase	Plumtree		40	0	650				1.18	1.16	STONY	1.13	1.10	1.17	1.16	1.11	1.09	1.09	1.07	1.11	1.09	1.11	1.08	1.08	1.08	1.12	1.09	1.18	1.16	1.15	1.13
Case5_F2.3 Phase	East Devon		40	0	650				1.12	1.09	ED345	1.06	1.07	1.07	1.06	1.11	1.08	1.05	1.06	1.12	1.09	1.06	1.05	1.07	1.06	1.06	1.04	1.08	1.06	1.10	1.06
Case5_F3.1 Phase	East Devon		40	0	650				1.18	1.11	ED345	1.11	1.08	1.10	1.07	1.17	1.11	1.13	1.08	1.18	1.11	1.08	1.06	1.11	1.07	1.07	1.05	1.09	1.07	1.09	1.07
Case5_F4.3 Phase	Norwalk Junction		40	0	650				1.24	1.10	NW345	1.08	1.06	1.05	1.06	1.24	1.09	1.12	1.10	1.24	1.10	1.09	1.07	1.05	1.06	1.06	1.04	1.06	1.06	1.06	1.06
Case5_F5.3 Phase	Singer		40	0	650				1.42	1.14	ED345	1.28	1.09	1.22	1.09	1.39	1.12	1.27	1.06	1.42	1.14	1.16	1.08	1.20	1.06	1.12	1.06	1.22	1.09	1.22	1.09
Case5_F6.3 Phase Bt	Norwalk 345		40	0	650				1.25	1.11	ED345	1.16	1.05	1.15	1.08	1.24	1.07	1.14	1.11	1.25	1.07	1.10	1.06	1.07	1.06	1.08	1.06	1.15	1.08	1.12	1.09
Case5_F7.3 Phase Bt	Plumtree 345		40	0	650				1.18	1.13	PT115	1.14	1.09	1.18	1.13	1.08	1.07	1.09	1.09	1.11	1.08	1.09	1.08	1.08	1.08	1.09	1.06	1.17	1.13	1.17	1.10
Case5_basNo Fault			40	0	650	PT345-LM34	1.09	1.09	ED345	1.08	1.08	1.07	1.07	1.09	1.09	1.06	1.06	1.09	1.09	1.06	1.09	1.06	1.06	1.06	1.04	1.04	1.06	1.06	1.05	1.05	1.05
Case5_F2.3 Phase	East Devon		40	0	650	PT345-LM34	1.49	1.22	PT345	1.49	1.20	1.43	1.16	1.48	1.21	1.30	1.13	1.46	1.22	1.17	1.06	1.21	1.10	1.21	1.08	1.45	1.15	1.38	1.12	1.12	1.12
Case5_F3.1 Phase	East Devon		40	0	650	PT345-LM34	1.42	1.21	ED345	1.39	1.19	1.32	1.14	1.42	1.20	1.29	1.12	1.42	1.21	1.13	1.07	1.18	1.10	1.14	1.07	1.30	1.14	1.24	1.11	1.11	1.11
Case5_F4.3 Phase	Norwalk Junction		40	0	650	PT345-LM34	1.20	1.11	ED345	1.08	1.09	1.08	1.09	1.19	1.09	1.13	1.11	1.20	1.09	1.06	1.07	1.05	1.06	1.04	1.04	1.07	1.08	1.08	1.06	1.06	1.06
Case5_F5.3 Phase	Singer		40	0	650	PT345-LM34	1.35	1.07	NW345	1.31	1.06	1.20	1.05	1.35	1.06	1.17	1.05	1.33	1.07	1.09	1.06	1.08	1.05	1.04	1.05	1.21	1.06	1.18	1.07	1.07	1.07
Case5_F6.3 Phase Bt	Norwalk 345		40	0	650	PT345-LM34	1.21	1.09	ED345	1.18	1.07	1.15	1.09	1.21	1.07	1.11	1.09	1.21	1.07	1.07	1.07	1.06	1.06	1.07	1.06	1.13	1.08	1.12	1.08	1.08	1.08
Case5_F7.3 Phase Bt	Plumtree 345		40	0	650	PT345-LM34	1.15	1.14	PT115	1.12	1.13	1.15	1.14	1.09	1.09	1.08	1.07	1.10	1.09	1.10	1.10	1.09	1.07	1.09	1.09	1.14	1.13	1.13	1.13	1.13	1.13
Case5_basNo Fault			40	0	650	BK345-ED34	1.09	1.09	ED345	1.07	1.07	1.06	1.06	1.08	1.08	1.06	1.06	1.09	1.09	1.05	1.05	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.04	1.04
Case5_F1.3 Phase	Plumtree		40	0	650	BK345-ED34	1.31	1.29	PT115	1.31	1.28	1.31	1.29	1.28	1.25	1.20	1.17	1.30	1.24	1.07	1.07	1.14	1.12	1.14	1.13	1.29	1.27	1.25	1.24	1.24	1.24
Case5_F4.3 Phase	Norwalk Junction		40	0	650	BK345-ED34	1.45	1.19	ED345	1.12	1.05	1.10	1.05	1.44	1.18	1.23	1.12	1.45	1.19	1.11	1.06	1.13	1.07	1.09	1.05	1.11	1.05	1.12	1.05	1.05	1.05
Case5_F5.3 Phase	Singer		40	0	650	BK345-ED34	1.27	1.08	ED345	1.15	1.06	1.13	1.05	1.25	1.07	1.12	1.05	1.27	1.08	1.08	1.05	1.03	1.05	1.08	1.04	1.13	1.06	1.13	1.07	1.07	
Case5_F6.3 Phase Bt	Norwalk 345		40	0	650	BK345-ED34	1.13	1.11	ED345	1.06	1.06	1.09	1.07	1.12	1.08	1.11	1.11	1.13	1.08	1.07	1.05	1.06	1.05	1.05	1.04	1.09	1.08	1.09	1.06	1.06	
Case5_F7.3 Phase Bt	Plumtree 345		40	0	650	BK345-ED34	1.15	1.14	PT115	1.13	1.09	1.15	1.14	1.09	1.09	1.09	1.07	1.11	1.10	1.09	1.06	1.08	1.08	1.06	1.08	1.14	1.13	1.13	1.12	1.12	1.12
Case5_basNo Fault			40	0	650	NE138-NO13	1.08	1.08	ED345	1.06	1.06	1.06	1.06	1.07	1.07	1.07	1.07	1.08	1.08	1.06	1.06	1.06	1.06	1.04	1.04	1.05	1.05	1.05	1.05	1.05	1.05
Case5_F1.3 Phase	Plumtree		40	0	650	NE138-NO13	1.20	1.19	PT115	1.13	1.11	1.20	1.19	1.12	1.12	1.10	1.09	1.12	1.12	1.11	1.11	1.11	1.11	1.11	1.12	1.19	1.19	1.16	1.18	1.18	1.18
Case5_F2.3 Phase	East Devon		40	0	650	NE138-NO13	1.12	1.10	ED345	1.10	1.08	1.10	1.07	1.11	1.09	1.08	1.08	1.12	1.10	1.08	1.05	1.09	1.06	1.07	1.05	1.10	1.07	1.11	1.07	1.07	1.07
Case5_F3.1 Phase	East Devon		40	0	650	NE138-NO13	1.15	1.11	ED345	1.12	1.08	1.10	1.07	1.15	1.10	1.13	1.09	1.15	1.11	1.09	1.05	1.11	1.06	1.07	1.05	1.11	1.06	1.11	1.06	1.06	1.06
Case5_F4.3 Phase	Norwalk Junction		40	0	650	NE138-NO13	1.14	1.09	NW345	1.09	1.05	1.07	1.05	1.14	1.09	1.10	1.08	1.12	1.09	1.09	1.07	1.07	1.06	1.07	1.04	1.09	1.05	1.09	1.04	1.04	1.04
Case5_F5.3 Phase	Singer		40	0	650	NE138-NO13	1.23	1.07	ED345	1.17	1.05	1.14	1.05	1.23	1.07	1.20	1.05	1.23	1.07	1.10	1.06	1.07	1.05	1.08	1.04	1.13	1.05	1.13	1.06	1.06	1.06
Case5_F6.3 Phase Bt	Norwalk 345		40	0	650	NE138-NO13	1.17	1.10	ED345	1.09	1.06	1.08	1.07	1.16	1.07	1.15	1.10	1.17	1.08	1.08	1.08	1.04	1.05	1.07	1.05	1.08	1.08	1.09	1.06	1.06	1.06
Case5_F7.3 Phase Bt	Plumtree 345		40	0	650	NE138-NO13	1.19	1.15	PT115	1.10	1.09	1.19	1.15	1.08	1.08	1.06	1.06	1.09	1.08	1.09	1.08	1.07	1.07	1.08	1.08	1.17	1.15	1.18	1.14	1.14	1.14
Case5_basNo Fault			40	0	650	LM345-PLVA	1.09	1.09	ED345	1.08	1.08	1.07	1.07	1.09	1.09	1.06	1.06	1.09	1.09	1.07	1.07	1.06	1.06	1.05	1.05	1.07	1.07	1.06	1.06	1.06	1.06
Case5_F1.3 Phase	Plumtree		40	0	650	LM345-PLVA	1.18	1.15	PT115	1.16	1.15	1.18	1.15	1.09	1.09	1.08	1.07	1.11	1.10	1.13	1.11	1.11	1.08	1.15	1.13	1.17	1.14	1.17	1.12	1.12	1.12
Case5_F2.3 Phase	East Devon		40	0	650	LM345-PLVA	1.23	1.15	PT345	1.23	1.12	1.22	1.10	1.22	1.14	1.14	1.09	1.22	1.15	1.15	1.07	1.15	1.08	1.14	1.08	1.22	1.10	1.21	1.10	1.10	1.10
Case5_F3.1 Phase	East Devon		40	0	650	LM345-PLVA	1.25	1.13	ED345	1.22	1.11	1.18	1.09	1.24	1.12	1.16	1.08	1.25	1.13	1.12	1.07	1.17	1.09	1.12	1.06	1.18	1.09	1.18	1.08	1.08	1.08
Case5_F4.3 Phase	Norwalk Junction		40	0	650	LM345-PLVA	1.19	1.11	ED345	1.10	1.08	1.07	1.08	1.18	1.09	1.12	1.11	1.19	1.09	1.07	1.07	1.05	1.06	1.07	1.04	1.08	1.07	1.10	1.06	1.06	1.06
Case5_F5.3 Phase	Singer		40	0	650	LM345-PLVA	1.37	1.07	NW345	1.30	1.06	1.22	1.06	1.37	1.06	1.17	1.04	1.36	1.07	1.14	1.06	1.12	1.05	1.10	1.06	1.21	1.06	1.20	1.07	1.07	
Case5_F6.3 Phase Bt	Norwalk 345		40	0	650	LM345-PLVA	1.24	1.09	NW345	1.19	1.07	1.15	1.09	1.24	1.08	1.11	1.09	1.23	1.08	1.08	1.08	1.07	1.07	1.08	1.07	1.15	1.09	1.12	1.09	1.09	1.09
Case5_F7.3 Phase Bt	Plumtree 345		40	0	650	LM345-PLVA	1.19	1.16	STONY	1.13	1.13	1.18	1.16	1.09	1.09	1.09	1.08	1.10	1.10	1.09	1.10	1.08	1.0								

CASE #: 5C - Case 5 (Old) + 10 Miles of Cable (GE 2C and 6C windows)

DATE: 12/14/2004

Fault Closing at 0V on each phase, 3.5 Cycle Clearing

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																									
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY							
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C		
Case5_bas	No Fault		50	302	840				1.06	1.06	ED345	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.06	1.06	1.06	1.06	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04		
Case5_F1_3	Phase Plumtree		50	302	840				1.24	1.15	STONY	1.12	1.07	1.12	1.11	1.07	1.06	1.05	1.05	1.08	1.07	1.10	1.09	1.08	1.06	1.08	1.06	1.24	1.15	1.16	1.11				
Case5_F2_3	Phase East Devon		50	302	840				1.09	1.07	BK345	1.05	1.05	1.04	1.04	1.06	1.06	1.04	1.04	1.08	1.06	1.09	1.07	1.08	1.05	1.06	1.04	1.05	1.04	1.06	1.04				
Case5_F3_1	Phase East Devon		50	302	840				1.11	1.07	ED345	1.08	1.05	1.06	1.05	1.11	1.07	1.09	1.05	1.11	1.07	1.08	1.06	1.08	1.06	1.07	1.04	1.06	1.04	1.06	1.05				
Case5_F4_3	Phase Norwalk Junction		50	302	840				1.17	1.09	ED345	1.09	1.04	1.07	1.05	1.17	1.07	1.15	1.09	1.17	1.07	1.08	1.07	1.04	1.06	1.05	1.05	1.06	1.05	1.06	1.08				
Case5_F5_3	Phase Singer		50	302	840				1.34	1.08	ED345	1.22	1.04	1.19	1.06	1.33	1.07	1.28	1.08	1.34	1.08	1.16	1.06	1.16	1.05	1.13	1.04	1.19	1.06	1.16	1.08				
Case5_F6_3	Phase Bt Norwalk 345		50	302	840				1.20	1.09	ED345	1.13	1.04	1.11	1.05	1.20	1.05	1.15	1.09	1.20	1.05	1.08	1.06	1.04	1.05	1.06	1.04	1.09	1.05	1.07	1.06				
Case5_F7_3	Phase Bt Plumtree 345		50	302	840				1.27	1.17	STONY	1.14	1.07	1.15	1.11	1.05	1.04	1.05	1.04	1.06	1.06	1.11	1.08	1.07	1.06	1.09	1.08	1.27	1.17	1.18	1.11				
Case5_bas	No Fault		50	302	840	PT345-LM34	1.06	1.06	ED345	1.05	1.05	1.05	1.05	1.06	1.06	1.04	1.04	1.06	1.06	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.05	1.05	1.04	1.04			
Case5_F2_3	Phase East Devon		50	302	840	PT345-LM34	1.29	1.11	PT345	1.29	1.10	1.23	1.08	1.27	1.10	1.17	1.06	1.26	1.11	1.13	1.07	1.14	1.06	1.11	1.05	1.22	1.07	1.17	1.17	1.06					
Case5_F3_1	Phase East Devon		50	302	840	PT345-LM34	1.23	1.08	ED345	1.21	1.07	1.18	1.05	1.22	1.07	1.17	1.04	1.23	1.08	1.11	1.05	1.11	1.05	1.09	1.04	1.18	1.05	1.15	1.04						
Case5_F4_3	Phase Norwalk Junction		50	302	840	PT345-LM34	1.13	1.08	ED345	1.04	1.05	1.03	1.04	1.12	1.06	1.10	1.08	1.13	1.06	1.07	1.06	1.05	1.06	1.06	1.03	1.04	1.04	1.05	1.05	1.03					
Case5_F5_3	Phase Singer		50	302	840	PT345-LM34	1.26	1.13	NW345	1.21	1.05	1.14	1.04	1.26	1.05	1.19	1.05	1.26	1.06	1.07	1.05	1.08	1.05	1.04	1.04	1.12	1.04	1.09	1.04						
Case5_F6_3	Phase Bt Norwalk 345		50	302	840	PT345-LM34	1.14	1.12	NW345	1.12	1.05	1.09	1.05	1.14	1.05	1.12	1.12	1.14	1.05	1.07	1.06	1.04	1.05	1.05	1.05	1.05	1.07	1.05	1.07	1.05					
Case5_F7_3	Phase Bt Plumtree 345		50	302	840	PT345-LM34	1.15	1.13	STONY	1.11	1.08	1.10	1.11	1.06	1.06	1.05	1.04	1.08	1.06	1.08	1.07	1.07	1.06	1.07	1.06	1.15	1.13	1.09	1.09						
Case5_bas	No Fault		50	302	840	BK345-ED34	1.06	1.06	ED345	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.06	1.06	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04				
Case5_F1_3	Phase Plumtree		50	302	840	BK345-ED34	1.21	1.19	STONY	1.19	1.15	1.20	1.16	1.16	1.13	1.11	1.09	1.18	1.14	1.13	1.08	1.08	1.07	1.09	1.07	1.21	1.19	1.14	1.14						
Case5_F4_3	Phase Norwalk Junction		50	302	840	BK345-ED34	1.25	1.11	ED345	1.10	1.05	1.10	1.05	1.24	1.11	1.17	1.08	1.25	1.11	1.10	1.06	1.13	1.07	1.08	1.05	1.10	1.06	1.11	1.07						
Case5_F5_3	Phase Singer		50	302	840	BK345-ED34	1.20	1.07	ED345	1.08	1.05	1.05	1.04	1.18	1.05	1.12	1.04	1.20	1.07	1.09	1.06	1.04	1.05	1.05	1.04	1.04	1.04	1.04	1.06	1.04					
Case5_F6_3	Phase Bt Norwalk 345		50	302	840	BK345-ED34	1.11	1.10	NW115	1.05	1.04	1.05	1.04	1.08	1.05	1.11	1.10	1.09	1.06	1.09	1.06	1.06	1.05	1.05	1.04	1.04	1.05	1.07	1.06						
Case5_F7_3	Phase Bt Plumtree 345		50	302	840	BK345-ED34	1.24	1.15	STONY	1.14	1.07	1.16	1.09	1.06	1.05	1.05	1.05	1.07	1.06	1.09	1.07	1.06	1.05	1.08	1.06	1.24	1.15	1.16	1.09						
Case5_bas	No Fault		50	302	840	NE138-NO13	1.06	1.06	ED345	1.04	1.04	1.04	1.04	1.05	1.05	1.05	1.05	1.06	1.06	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04					
Case5_F1_3	Phase Plumtree		50	302	840	NE138-NO13	1.15	1.16	STONY	1.12	1.09	1.14	1.12	1.08	1.06	1.06	1.06	1.07	1.06	1.10	1.08	1.08	1.08	1.08	1.06	1.15	1.16	1.10	1.12						
Case5_F2_3	Phase East Devon		50	302	840	NE138-NO13	1.11	1.06	BK345	1.07	1.05	1.06	1.04	1.07	1.05	1.06	1.04	1.07	1.06	1.11	1.06	1.09	1.05	1.06	1.03	1.06	1.04	1.07	1.03						
Case5_F3_1	Phase East Devon		50	302	840	NE138-NO13	1.11	1.06	ED345	1.07	1.04	1.06	1.04	1.10	1.05	1.09	1.04	1.11	1.06	1.07	1.05	1.07	1.05	1.06	1.03	1.06	1.04	1.06	1.03						
Case5_F4_3	Phase Norwalk Junction		50	302	840	NE138-NO13	1.10	1.08	BK345	1.09	1.04	1.07	1.04	1.06	1.06	1.08	1.08	1.06	1.07	1.10	1.06	1.06	1.05	1.05	1.04	1.07	1.04	1.07	1.05						
Case5_F5_3	Phase Singer		50	302	840	NE138-NO13	1.18	1.06	NW115	1.08	1.04	1.09	1.04	1.15	1.05	1.18	1.05	1.18	1.06	1.06	1.05	1.04	1.05	1.05	1.04	1.08	1.04	1.09	1.04						
Case5_F6_3	Phase Bt Norwalk 345		50	302	840	NE138-NO13	1.14	1.09	NW115	1.04	1.04	1.05	1.04	1.08	1.05	1.14	1.09	1.07	1.05	1.07	1.06	1.05	1.05	1.04	1.04	1.05	1.04	1.08	1.07						
Case5_F7_3	Phase Bt Plumtree 345		50	302	840	NE138-NO13	1.20	1.14	STONY	1.14	1.06	1.15	1.09	1.06	1.05	1.05	1.04	1.06	1.06	1.10	1.07	1.07	1.06	1.07	1.06	1.20	1.14	1.13	1.10						
Case5_bas	No Fault		50	302	840	LM345-PLVA	1.07	1.07	ED345	1.06	1.06	1.05	1.05	1.06	1.06	1.04	1.04	1.07	1.07	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.05					
Case5_F1_3	Phase Plumtree		50	302	840	LM345-PLVA	1.13	1.13	STONY	1.10	1.09	1.10	1.10	1.07	1.06	1.05	1.05	1.07	1.06	1.09	1.08	1.07	1.06	1.07	1.06	1.13	1.13	1.09	1.10						
Case5_F2_3	Phase East Devon		50	302	840	LM345-PLVA	1.15	1.08	BK345	1.13	1.07	1.12	1.06	1.13	1.08	1.09	1.05	1.12	1.08	1.15	1.06	1.10	1.06	1.09	1.05	1.11	1.06	1.12	1.05						
Case5_F3_1	Phase East Devon		50	302	840	LM345-PLVA	1.13	1.07	PT345	1.13	1.06	1.10	1.05	1.13	1.07	1.09	1.04	1.13	1.07	1.08	1.05	1.07	1.06	1.07	1.04	1.09	1.05	1.09	1.04						
Case5_F4_3	Phase Norwalk Junction		50	302	840	LM345-PLVA	1.12	1.09	ED345	1.12	1.05	1.08	1.04	1.12	1.06	1.09	1.09	1.12	1.07	1.08	1.06	1.05	1.06	1.07	1.04	1.08	1.06	1.07	1.06						
Case5_F5_3	Phase Singer		50	302	840	LM345-PLVA	1.26	1.06	ED345	1.19	1.05	1.13	1.05	1.26	1.05	1.18	1.05	1.26	1.06	1.07	1.06	1.10	1.05	1.06	1.05	1.12	1.04	1.11	1.05						
Case5_F6_3	Phase Bt Norwalk 345		50	302	840	LM345-PLVA	1.15	1.12	NW345	1.11	1.06	1.09	1.06	1.15	1.05	1.12	1.12	1.14	1.06	1.0															

CASE #: 5C - Case 5 (Old) + 10 Miles of Cable (GE 2C and 6C windows)
 Fault Closing at 0V on each phase, 3.5 Cycle Clearing
 DONE BY: Jack King/EnerNex

DATE: 12/14/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		70	1249	1050				1.10	1.10	FB115	1.05	1.05	1.06	1.06	1.05	1.05	1.04	1.04	1.06	1.06	1.07	1.07	1.09	1.09	1.10	1.10	1.07	1.07	1.08	1.08
Case5_F1_3	Phase Plumtree		70	1249	1050				1.34	1.30	ROCKY	1.12	1.10	1.19	1.13	1.05	1.05	1.04	1.04	1.06	1.05	1.13	1.10	1.11	1.11	1.14	1.13	1.19	1.18	1.34	1.30
Case5_F2_3	Phase East Devon		70	1249	1050				1.12	1.09	BK345	1.06	1.05	1.06	1.06	1.04	1.04	1.03	1.04	1.05	1.05	1.12	1.08	1.10	1.08	1.11	1.09	1.07	1.06	1.10	1.08
Case5_F3_1	Phase East Devon		70	1249	1050				1.11	1.09	ESHOR	1.05	1.04	1.06	1.06	1.05	1.05	1.05	1.04	1.06	1.05	1.11	1.07	1.11	1.09	1.11	1.09	1.07	1.06	1.08	1.08
Case5_F4_3	Phase Norwalk Junction		70	1249	1050				1.18	1.11	FB115	1.13	1.09	1.10	1.09	1.12	1.08	1.11	1.07	1.09	1.08	1.10	1.08	1.10	1.09	1.18	1.11	1.10	1.10	1.14	1.11
Case5_F5_3	Phase Singer		70	1249	1050				1.22	1.09	FB115	1.07	1.05	1.07	1.06	1.14	1.05	1.15	1.04	1.14	1.06	1.09	1.07	1.09	1.08	1.22	1.09	1.07	1.06	1.16	1.08
Case5_F6_3	Phase Bt Norwalk 345		70	1249	1050				1.11	1.09	FB115	1.03	1.05	1.05	1.06	1.08	1.05	1.08	1.08	1.09	1.06	1.09	1.07	1.08	1.08	1.11	1.09	1.05	1.07	1.06	1.09
Case5_F7_3	Phase Bt Plumtree 345		70	1249	1050				1.37	1.28	ROCKY	1.11	1.09	1.18	1.18	1.06	1.05	1.04	1.04	1.05	1.05	1.10	1.08	1.10	1.09	1.13	1.10	1.23	1.23	1.37	1.28
Case5_bas	No Fault		70	1249	1050	PT345-LM34	1.09	1.09	FB115	1.05	1.05	1.06	1.06	1.05	1.05	1.04	1.04	1.04	1.06	1.06	1.06	1.08	1.08	1.09	1.09	1.06	1.06	1.06	1.08	1.08	
Case5_F2_3	Phase East Devon		70	1249	1050	PT345-LM34	1.16	1.09	ESHOR	1.14	1.05	1.12	1.06	1.15	1.05	1.07	1.03	1.12	1.06	1.13	1.08	1.16	1.07	1.12	1.09	1.12	1.09	1.12	1.06	1.14	1.07
Case5_F3_1	Phase East Devon		70	1249	1050	PT345-LM34	1.12	1.08	BK345	1.10	1.03	1.07	1.04	1.08	1.04	1.06	1.02	1.08	1.05	1.12	1.06	1.12	1.07	1.10	1.08	1.08	1.05	1.10	1.06	1.10	1.06
Case5_F4_3	Phase Norwalk Junction		70	1249	1050	PT345-LM34	1.15	1.09	PT345	1.15	1.08	1.12	1.08	1.09	1.06	1.08	1.05	1.07	1.06	1.12	1.07	1.11	1.08	1.13	1.09	1.12	1.08	1.12	1.08	1.12	1.08
Case5_F5_3	Phase Singer		70	1249	1050	PT345-LM34	1.12	1.10	FB115	1.10	1.05	1.05	1.06	1.10	1.05	1.10	1.04	1.11	1.06	1.11	1.07	1.08	1.08	1.12	1.10	1.05	1.06	1.10	1.08	1.10	1.08
Case5_F6_3	Phase Bt Norwalk 345		70	1249	1050	PT345-LM34	1.15	1.11	FB115	1.04	1.05	1.05	1.06	1.05	1.05	1.08	1.07	1.06	1.06	1.11	1.09	1.12	1.09	1.15	1.11	1.06	1.07	1.09	1.09	1.09	1.09
Case5_F7_3	Phase Bt Plumtree 345		70	1249	1050	PT345-LM34	1.35	1.25	ROCKY	1.12	1.07	1.13	1.11	1.05	1.05	1.04	1.04	1.06	1.06	1.10	1.10	1.11	1.10	1.14	1.12	1.19	1.17	1.35	1.25	1.37	1.28
Case5_bas	No Fault		70	1249	1050	BK345-ED34	1.09	1.09	FB115	1.04	1.04	1.05	1.05	1.04	1.04	1.04	1.04	1.05	1.05	1.07	1.07	1.08	1.08	1.09	1.09	1.06	1.06	1.06	1.08	1.08	
Case5_F1_3	Phase Plumtree		70	1249	1050	BK345-ED34	1.40	1.34	ROCKY	1.16	1.13	1.15	1.14	1.12	1.08	1.06	1.04	1.13	1.11	1.12	1.10	1.11	1.09	1.13	1.10	1.21	1.17	1.40	1.34	1.40	1.34
Case5_F4_3	Phase Norwalk Junction		70	1249	1050	BK345-ED34	1.15	1.10	FB115	1.15	1.06	1.09	1.07	1.14	1.07	1.13	1.05	1.13	1.07	1.14	1.08	1.14	1.09	1.15	1.10	1.10	1.08	1.12	1.09	1.12	1.09
Case5_F5_3	Phase Singer		70	1249	1050	BK345-ED34	1.13	1.09	ED345	1.04	1.05	1.06	1.05	1.11	1.05	1.12	1.04	1.13	1.06	1.12	1.08	1.08	1.11	1.09	1.06	1.06	1.11	1.08	1.11	1.08	1.11
Case5_F6_3	Phase Bt Norwalk 345		70	1249	1050	BK345-ED34	1.12	1.09	FB115	1.06	1.05	1.06	1.06	1.05	1.04	1.08	1.07	1.06	1.05	1.11	1.08	1.11	1.08	1.11	1.08	1.12	1.09	1.06	1.07	1.09	1.09
Case5_F7_3	Phase Bt Plumtree 345		70	1249	1050	BK345-ED34	1.41	1.29	ROCKY	1.12	1.08	1.15	1.13	1.06	1.05	1.04	1.04	1.06	1.05	1.12	1.09	1.10	1.09	1.12	1.10	1.24	1.20	1.41	1.29	1.41	1.29
Case5_bas	No Fault		70	1249	1050	NE138-NO13	1.08	1.08	FB115	1.04	1.04	1.05	1.05	1.04	1.04	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.08	1.08	1.08	1.08	1.06	1.06	1.07	1.07	
Case5_F1_3	Phase Plumtree		70	1249	1050	NE138-NO13	1.25	1.23	ROCKY	1.11	1.06	1.09	1.09	1.05	1.04	1.05	1.04	1.05	1.04	1.05	1.04	1.09	1.08	1.09	1.09	1.11	1.10	1.12	1.11	1.25	1.23
Case5_F2_3	Phase East Devon		70	1249	1050	NE138-NO13	1.13	1.08	BK345	1.08	1.03	1.06	1.04	1.08	1.03	1.05	1.04	1.07	1.04	1.13	1.08	1.09	1.07	1.09	1.08	1.07	1.04	1.09	1.06	1.09	1.06
Case5_F3_1	Phase East Devon		70	1249	1050	NE138-NO13	1.09	1.07	ESHOR	1.03	1.02	1.05	1.04	1.04	1.03	1.04	1.03	1.04	1.03	1.08	1.06	1.09	1.07	1.08	1.07	1.05	1.04	1.06	1.06	1.06	1.06
Case5_F4_3	Phase Norwalk Junction		70	1249	1050	NE138-NO13	1.16	1.09	FB115	1.12	1.06	1.10	1.06	1.06	1.05	1.06	1.06	1.06	1.06	1.10	1.07	1.11	1.08	1.16	1.09	1.11	1.07	1.15	1.09	1.09	
Case5_F5_3	Phase Singer		70	1249	1050	NE138-NO13	1.12	1.08	FB115	1.05	1.04	1.06	1.05	1.05	1.04	1.10	1.05	1.06	1.05	1.10	1.06	1.07	1.07	1.12	1.08	1.06	1.06	1.09	1.07	1.09	1.07
Case5_F6_3	Phase Bt Norwalk 345		70	1249	1050	NE138-NO13	1.11	1.09	FB115	1.05	1.04	1.06	1.06	1.04	1.04	1.08	1.06	1.04	1.04	1.10	1.07	1.10	1.08	1.11	1.09	1.07	1.06	1.08	1.08	1.09	1.09
Case5_F7_3	Phase Bt Plumtree 345		70	1249	1050	NE138-NO13	1.35	1.28	ROCKY	1.11	1.07	1.15	1.14	1.05	1.05	1.06	1.04	1.06	1.05	1.10	1.08	1.09	1.09	1.12	1.10	1.22	1.19	1.35	1.28	1.37	1.28
Case5_bas	No Fault		70	1249	1050	LM345-PLVA	1.10	1.10	FB115	1.06	1.06	1.07	1.07	1.06	1.06	1.04	1.04	1.07	1.07	1.07	1.07	1.08	1.08	1.10	1.10	1.07	1.07	1.09	1.09	1.09	1.09
Case5_F1_3	Phase Plumtree		70	1249	1050	LM345-PLVA	1.43	1.29	ROCKY	1.13	1.08	1.14	1.12	1.07	1.06	1.04	1.04	1.06	1.07	1.12	1.10	1.12	1.11	1.16	1.13	1.19	1.15	1.43	1.29	1.43	1.29
Case5_F2_3	Phase East Devon		70	1249	1050	LM345-PLVA	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Case5_F3_1	Phase East Devon		70	1249	1050	LM345-PLVA	1.12	1.09	BK345	1.08	1.05	1.08	1.06	1.08	1.05	1.06	1.04	1.08	1.06	1.12	1.06	1.11	1.08	1.10	1.09	1.08	1.07	1.09	1.08	1.08	1.09
Case5_F4_3	Phase Norwalk Junction		70	1249	1050	LM345-PLVA	1.21	1.12	PT345	1.21	1.11	1.16	1.11	1.10	1.07	1.09	1.06	1.08	1.08	1.10	1.08	1.10	1.09	1.20	1.12	1.16	1.12	1.18	1.11	1.11	1.11
Case5_F5_3	Phase Singer		70	1249	1050	LM345-PLVA	1.12	1.10	PT115	1.12	1.08	1.12	1.08	1.09	1.07	1.09	1.05	1.10	1.07	1.11	1.08	1.07	1.08	1.12	1.10	1.10	1.08	1.09	1.09	1.09	1.09
Case5_F6_3	Phase Bt Norwalk 345		70	1249	1050	LM345-PLVA	1.13	1.10	PT345	1.13	1.07	1.12	1.08	1.10	1.06	1.11	1.07	1.09	1.07	1.13	1.08	1.10	1.09	1.11	1.10	1.11	1.08	1.08	1.08	1.09	1.09
Case5_F7_3	Phase Bt Plumtree 345		70	1249	1050	LM345-PLVA	1.50	1.33	ROCKY	1.12	1.10	1.14	1.14	1.09	1.08	1.06	1.05														

CASE #: 5C - Case 5 (Old) + 10 Miles of Cable (GE 2C and 6C windows)
 Fault Closing at 0V on each phase, 4 Cycle Clearing
 DONE BY: Jack King/EnerNex

DATE: 12/14/2004

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_basNo Fault			30	0	650				1.09	1.09	ED345	1.07	1.07	1.07	1.07	1.09	1.09	1.07	1.07	1.09	1.09	1.07	1.07	1.07	1.07	1.06	1.06	1.07	1.07	1.06	1.06
Case5_F1_3 Phase		Plumtree	30	0	650				1.22	1.21	ROCKY	1.19	1.14	1.22	1.20	1.15	1.12	1.13	1.10	1.16	1.12	1.13	1.13	1.13	1.11	1.13	1.13	1.21	1.19	1.22	1.21
Case5_F2_3 Phase		East Devon	30	0	650				1.27	1.11	ED345	1.17	1.10	1.17	1.10	1.24	1.11	1.11	1.09	1.27	1.11	1.10	1.07	1.12	1.08	1.09	1.08	1.18	1.09	1.17	1.09
Case5_F3_1 Phase		East Devon	30	0	650				1.16	1.13	ED345	1.11	1.09	1.12	1.09	1.15	1.12	1.11	1.09	1.16	1.13	1.10	1.06	1.11	1.08	1.10	1.06	1.12	1.09	1.13	1.08
Case5_F4_3 Phase		Norwalk Junction	30	0	650				1.31	1.14	NW345	1.10	1.08	1.10	1.08	1.31	1.13	1.18	1.14	1.28	1.13	1.12	1.10	1.09	1.09	1.08	1.11	1.09	1.12	1.09	
Case5_F5_3 Phase		Singer	30	0	650				1.43	1.24	ED345	1.33	1.16	1.33	1.14	1.41	1.23	1.29	1.12	1.43	1.24	1.21	1.11	1.22	1.13	1.17	1.11	1.32	1.13	1.26	1.14
Case5_F6_3 Phase Bt		Norwalk 345	30	0	650				1.28	1.16	NW345	1.20	1.08	1.17	1.13	1.28	1.12	1.18	1.16	1.27	1.12	1.12	1.09	1.11	1.08	1.11	1.10	1.16	1.13	1.16	1.12
Case5_F7_3 Phase Bt		Plumtree 345	30	0	650				1.23	1.30	ROCKY	1.15	1.16	1.23	1.29	1.13	1.13	1.12	1.12	1.14	1.13	1.11	1.14	1.13	1.11	1.14	1.15	1.23	1.28	1.23	1.30
Case5_basNo Fault			30	0	650	PT345-LM34	1.11	1.11	ED345	1.10	1.10	1.09	1.09	1.10	1.10	1.08	1.08	1.11	1.11	1.08	1.08	1.08	1.06	1.06	1.08	1.08	1.07	1.08	1.07	1.07	
Case5_F2_3 Phase		East Devon	30	0	650	PT345-LM34	1.68	1.34	PT345	1.68	1.32	1.59	1.27	1.65	1.33	1.44	1.22	1.65	1.34	1.20	1.10	1.31	1.17	1.27	1.13	1.55	1.25	1.45	1.22		
Case5_F3_1 Phase		East Devon	30	0	650	PT345-LM34	1.45	1.26	ED345	1.40	1.24	1.34	1.19	1.44	1.26	1.30	1.17	1.45	1.26	1.12	1.08	1.23	1.12	1.16	1.10	1.32	1.18	1.28	1.15		
Case5_F4_3 Phase		Norwalk Junction	30	0	650	PT345-LM34	1.31	1.15	NW345	1.15	1.15	1.15	1.15	1.31	1.11	1.16	1.13	1.29	1.11	1.12	1.08	1.07	1.08	1.08	1.07	1.15	1.14	1.10	1.11		
Case5_F5_3 Phase		Singer	30	0	650	PT345-LM34	1.40	1.12	NW345	1.38	1.10	1.28	1.08	1.40	1.11	1.24	1.07	1.38	1.12	1.13	1.07	1.13	1.06	1.10	1.07	1.26	1.09	1.29	1.11		
Case5_F6_3 Phase Bt		Norwalk 345	30	0	650	PT345-LM34	1.36	1.12	NW345	1.33	1.08	1.23	1.12	1.36	1.08	1.19	1.12	1.34	1.08	1.11	1.08	1.10	1.07	1.11	1.08	1.22	1.12	1.20	1.11		
Case5_F7_3 Phase Bt		Plumtree 345	30	0	650	PT345-LM34	1.20	1.16	ROCKY	1.18	1.14	1.20	1.16	1.13	1.10	1.12	1.12	1.15	1.11	1.12	1.13	1.11	1.10	1.13	1.13	1.19	1.16	1.20	1.14		
Case5_basNo Fault			30	0	650	BK345-ED34	1.11	1.11	ED345	1.08	1.08	1.08	1.08	1.10	1.10	1.07	1.07	1.11	1.11	1.06	1.06	1.07	1.07	1.05	1.05	1.07	1.07	1.06	1.06		
Case5_F1_3 Phase		Plumtree	30	0	650	BK345-ED34	1.50	1.42	ED345	1.48	1.41	1.45	1.40	1.47	1.41	1.34	1.28	1.50	1.42	1.13	1.13	1.23	1.21	1.24	1.24	1.43	1.41	1.37	1.37		
Case5_F4_3 Phase		Norwalk Junction	30	0	650	BK345-ED34	1.62	1.25	ED345	1.16	1.08	1.17	1.10	1.59	1.24	1.33	1.16	1.62	1.25	1.13	1.07	1.20	1.10	1.15	1.08	1.17	1.10	1.17	1.09		
Case5_F5_3 Phase		Singer	30	0	650	BK345-ED34	1.32	1.10	ED345	1.20	1.07	1.18	1.08	1.31	1.09	1.20	1.08	1.32	1.10	1.08	1.07	1.07	1.08	1.09	1.07	1.19	1.08	1.19	1.09		
Case5_F6_3 Phase Bt		Norwalk 345	30	0	650	BK345-ED34	1.30	1.13	ED345	1.21	1.08	1.19	1.11	1.30	1.10	1.17	1.13	1.30	1.11	1.09	1.06	1.06	1.07	1.09	1.07	1.18	1.12	1.14	1.11		
Case5_F7_3 Phase Bt		Plumtree 345	30	0	650	BK345-ED34	1.23	1.24	ROCKY	1.20	1.13	1.23	1.23	1.18	1.12	1.15	1.13	1.20	1.13	1.12	1.12	1.10	1.12	1.11	1.11	1.22	1.22	1.21	1.24		
Case5_basNo Fault			30	0	650	NE138-NO13	1.10	1.10	ED345	1.08	1.08	1.08	1.08	1.10	1.10	1.09	1.09	1.10	1.10	1.08	1.08	1.08	1.08	1.06	1.06	1.08	1.08	1.07	1.07		
Case5_F1_3 Phase		Plumtree	30	0	650	NE138-NO13	1.28	1.28	STONY	1.20	1.18	1.28	1.27	1.18	1.17	1.17	1.16	1.20	1.18	1.15	1.15	1.14	1.14	1.19	1.21	1.27	1.28	1.26	1.25		
Case5_F2_3 Phase		East Devon	30	0	650	NE138-NO13	1.26	1.15	STONY	1.18	1.12	1.25	1.11	1.22	1.14	1.17	1.12	1.24	1.15	1.11	1.08	1.13	1.11	1.13	1.09	1.26	1.12	1.21	1.12		
Case5_F3_1 Phase		East Devon	30	0	650	NE138-NO13	1.19	1.14	ED345	1.15	1.10	1.15	1.10	1.18	1.13	1.17	1.12	1.19	1.14	1.10	1.07	1.12	1.08	1.10	1.07	1.15	1.10	1.15	1.09		
Case5_F4_3 Phase		Norwalk Junction	30	0	650	NE138-NO13	1.25	1.15	NW345	1.11	1.07	1.10	1.08	1.25	1.15	1.21	1.13	1.22	1.15	1.12	1.09	1.11	1.10	1.09	1.07	1.10	1.09	1.15	1.08		
Case5_F5_3 Phase		Singer	30	0	650	NE138-NO13	1.27	1.10	NW345	1.20	1.08	1.20	1.09	1.27	1.09	1.25	1.10	1.26	1.10	1.16	1.09	1.12	1.08	1.15	1.08	1.21	1.09	1.22	1.10		
Case5_F6_3 Phase Bt		Norwalk 345	30	0	650	NE138-NO13	1.23	1.14	NW115	1.16	1.09	1.17	1.09	1.22	1.10	1.23	1.14	1.22	1.11	1.10	1.09	1.07	1.09	1.09	1.07	1.17	1.10	1.17	1.09		
Case5_F7_3 Phase Bt		Plumtree 345	30	0	650	NE138-NO13	1.23	1.29	ROCKY	1.15	1.12	1.22	1.25	1.11	1.12	1.11	1.11	1.12	1.12	1.10	1.10	1.10	1.10	1.12	1.15	1.22	1.25	1.23	1.29		
Case5_basNo Fault			30	0	650	LM345-PLVA	1.11	1.11	ED345	1.11	1.11	1.10	1.10	1.11	1.11	1.09	1.09	1.11	1.11	1.09	1.09	1.09	1.08	1.08	1.09	1.09	1.08	1.08			
Case5_F1_3 Phase		Plumtree	30	0	650	LM345-PLVA	1.23	1.24	PT115	1.19	1.17	1.23	1.24	1.14	1.12	1.11	1.11	1.15	1.13	1.15	1.14	1.14	1.13	1.17	1.14	1.21	1.23	1.20	1.19		
Case5_F2_3 Phase		East Devon	30	0	650	LM345-PLVA	1.50	1.22	ED345	1.42	1.18	1.36	1.18	1.47	1.20	1.27	1.15	1.50	1.22	1.18	1.11	1.28	1.16	1.22	1.14	1.38	1.17	1.36	1.16		
Case5_F3_1 Phase		East Devon	30	0	650	LM345-PLVA	1.23	1.18	ED345	1.20	1.15	1.19	1.13	1.23	1.17	1.17	1.12	1.23	1.18	1.12	1.09	1.16	1.12	1.14	1.09	1.19	1.12	1.17	1.11		
Case5_F4_3 Phase		Norwalk Junction	30	0	650	LM345-PLVA	1.36	1.13	NW345	1.15	1.11	1.13	1.12	1.36	1.11	1.20	1.13	1.34	1.11	1.13	1.08	1.12	1.08	1.11	1.09	1.12	1.12	1.12	1.10		
Case5_F5_3 Phase		Singer	30	0	650	LM345-PLVA	1.44	1.13	NW345	1.41	1.11	1.31	1.09	1.44	1.13	1.25	1.07	1.42	1.13	1.18	1.07	1.18	1.07	1.20	1.07	1.31	1.09	1.29	1.11		
Case5_F6_3 Phase Bt		Norwalk 345	30	0	650	LM345-PLVA	1.40	1.13	ED345	1.34	1.09	1.25	1.12	1.39	1.09	1.24	1.11	1.40	1.10	1.18	1.09	1.17	1.09	1.15	1.10	1.23	1.13	1.22	1.12		
Case5_F7_3 Phase Bt		Plumtree 345	30	0	650	LM345-PLVA	1.28	1.21	ROCKY	1.18	1.17	1.27	1.21	1.13	1.11	1.13	1.12	1.13	1.12	1.11	1.11	1.11	1.12	1.17	1.14	1.26	1.19	1.28	1.21		

CASE #: 5C - Case 5 (Old) + 10 Miles of Cable (GE 2C and 6C windows)

DATE: 12/14/2004

Fault Closing at 0V on each phase, 4 Cycle Clearing

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																				
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY		
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C
Case5_basNo Fault			40	0	650			1.08	1.08	ED345	1.06	1.06	1.05	1.05	1.07	1.07	1.05	1.05	1.08	1.08	1.06	1.06	1.06	1.06	1.04	1.04	1.05	1.05	1.04	1.04
Case5_F1_3 Phase	Plumtree		40	0	650			1.19	1.14	PT115	1.16	1.13	1.19	1.14	1.12	1.10	1.08	1.08	1.13	1.10	1.11	1.11	1.09	1.08	1.10	1.09	1.17	1.13	1.16	1.13
Case5_F2_3 Phase	East Devon		40	0	650			1.25	1.10	ED345	1.13	1.08	1.13	1.07	1.23	1.09	1.08	1.07	1.25	1.10	1.09	1.06	1.09	1.06	1.08	1.05	1.15	1.07	1.13	1.07
Case5_F3_1 Phase	East Devon		40	0	650			1.13	1.10	ED345	1.09	1.08	1.09	1.07	1.13	1.10	1.09	1.07	1.13	1.10	1.07	1.05	1.08	1.06	1.06	1.04	1.09	1.06	1.08	1.05
Case5_F4_3 Phase	Norwalk Junction		40	0	650			1.29	1.11	NW345	1.09	1.07	1.08	1.06	1.29	1.11	1.16	1.11	1.26	1.11	1.10	1.08	1.07	1.08	1.08	1.05	1.08	1.06	1.09	1.06
Case5_F5_3 Phase	Singer		40	0	650			1.42	1.22	ED345	1.29	1.15	1.25	1.13	1.40	1.20	1.26	1.09	1.42	1.22	1.19	1.09	1.18	1.10	1.14	1.07	1.23	1.12	1.25	1.12
Case5_F6_3 Phase Bt	Norwalk 345		40	0	650			1.25	1.15	NW345	1.18	1.08	1.14	1.10	1.25	1.11	1.15	1.15	1.25	1.12	1.11	1.07	1.08	1.06	1.07	1.08	1.14	1.10	1.12	1.10
Case5_F7_3 Phase Bt	Plumtree 345		40	0	650			1.22	1.23	PT115	1.14	1.14	1.22	1.23	1.10	1.10	1.10	1.10	1.12	1.12	1.10	1.12	1.10	1.08	1.11	1.12	1.20	1.21	1.20	1.22
Case5_basNo Fault			40	0	650	PT345-LM34	1.09	1.09	ED345	1.08	1.08	1.07	1.07	1.09	1.09	1.06	1.06	1.09	1.09	1.06	1.06	1.06	1.06	1.04	1.04	1.06	1.06	1.05	1.05	1.05
Case5_F2_3 Phase	East Devon		40	0	650	PT345-LM34	1.52	1.26	PT345	1.52	1.24	1.45	1.18	1.51	1.25	1.35	1.16	1.51	1.26	1.15	1.07	1.24	1.11	1.21	1.09	1.46	1.17	1.43	1.14	1.14
Case5_F3_1 Phase	East Devon		40	0	650	PT345-LM34	1.31	1.17	ED345	1.27	1.16	1.21	1.12	1.29	1.17	1.19	1.10	1.31	1.17	1.09	1.05	1.14	1.07	1.11	1.06	1.20	1.11	1.18	1.09	1.09
Case5_F4_3 Phase	Norwalk Junction		40	0	650	PT345-LM34	1.28	1.10	NW345	1.10	1.08	1.10	1.08	1.28	1.09	1.13	1.10	1.26	1.09	1.10	1.07	1.05	1.06	1.05	1.05	1.10	1.08	1.08	1.07	1.07
Case5_F5_3 Phase	Singer		40	0	650	PT345-LM34	1.36	1.10	NW345	1.34	1.09	1.23	1.05	1.36	1.09	1.19	1.05	1.35	1.10	1.10	1.06	1.10	1.04	1.06	1.05	1.05	1.21	1.06	1.16	1.08
Case5_F6_3 Phase Bt	Norwalk 345		40	0	650	PT345-LM34	1.31	1.09	NW345	1.26	1.06	1.17	1.09	1.31	1.06	1.14	1.09	1.30	1.07	1.08	1.07	1.06	1.05	1.07	1.06	1.16	1.09	1.12	1.07	1.07
Case5_F7_3 Phase Bt	Plumtree 345		40	0	650	PT345-LM34	1.15	1.12	PT345	1.15	1.12	1.14	1.10	1.11	1.08	1.08	1.08	1.12	1.09	1.10	1.11	1.08	1.08	1.08	1.08	1.13	1.10	1.12	1.09	1.09
Case5_basNo Fault			40	0	650	BK345-ED34	1.09	1.09	ED345	1.07	1.07	1.06	1.06	1.08	1.08	1.06	1.06	1.09	1.09	1.05	1.05	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.04
Case5_F1_3 Phase	Plumtree		40	0	650	BK345-ED34	1.39	1.32	ED345	1.35	1.30	1.34	1.31	1.36	1.30	1.26	1.20	1.39	1.32	1.12	1.08	1.16	1.14	1.17	1.17	1.33	1.29	1.27	1.27	1.27
Case5_F4_3 Phase	Norwalk Junction		40	0	650	BK345-ED34	1.51	1.20	ED345	1.14	1.07	1.12	1.08	1.50	1.19	1.29	1.13	1.51	1.20	1.10	1.06	1.15	1.08	1.12	1.06	1.12	1.07	1.12	1.06	1.06
Case5_F5_3 Phase	Singer		40	0	650	BK345-ED34	1.29	1.09	ED345	1.16	1.06	1.15	1.06	1.27	1.07	1.16	1.06	1.29	1.09	1.07	1.06	1.05	1.06	1.08	1.05	1.17	1.06	1.18	1.07	1.07
Case5_F6_3 Phase Bt	Norwalk 345		40	0	650	BK345-ED34	1.28	1.11	ED345	1.17	1.07	1.15	1.10	1.27	1.09	1.15	1.11	1.28	1.09	1.07	1.05	1.05	1.06	1.06	1.06	1.12	1.10	1.11	1.08	1.08
Case5_F7_3 Phase Bt	Plumtree 345		40	0	650	BK345-ED34	1.19	1.18	PT115	1.15	1.12	1.19	1.18	1.14	1.11	1.13	1.09	1.17	1.11	1.11	1.10	1.08	1.09	1.09	1.08	1.18	1.16	1.18	1.17	1.17
Case5_basNo Fault			40	0	650	NE138-NO13	1.08	1.08	ED345	1.06	1.06	1.06	1.06	1.07	1.07	1.07	1.07	1.08	1.08	1.06	1.06	1.06	1.06	1.04	1.04	1.05	1.05	1.05	1.05	1.05
Case5_F1_3 Phase	Plumtree		40	0	650	NE138-NO13	1.20	1.18	PT115	1.15	1.14	1.20	1.18	1.14	1.12	1.12	1.10	1.14	1.12	1.11	1.11	1.10	1.09	1.13	1.14	1.19	1.18	1.19	1.18	1.18
Case5_F2_3 Phase	East Devon		40	0	650	NE138-NO13	1.17	1.10	ED345	1.12	1.08	1.13	1.08	1.15	1.10	1.12	1.08	1.17	1.10	1.08	1.06	1.09	1.08	1.08	1.05	1.12	1.08	1.11	1.07	1.07
Case5_F3_1 Phase	East Devon		40	0	650	NE138-NO13	1.14	1.10	ED345	1.10	1.07	1.10	1.07	1.14	1.09	1.12	1.08	1.14	1.10	1.07	1.05	1.09	1.05	1.06	1.05	1.09	1.06	1.08	1.06	1.06
Case5_F4_3 Phase	Norwalk Junction		40	0	650	NE138-NO13	1.21	1.11	NW345	1.11	1.07	1.08	1.05	1.21	1.11	1.15	1.09	1.19	1.11	1.10	1.07	1.07	1.06	1.07	1.04	1.09	1.05	1.10	1.05	1.05
Case5_F5_3 Phase	Singer		40	0	650	NE138-NO13	1.24	1.09	NW345	1.17	1.05	1.15	1.05	1.24	1.08	1.23	1.08	1.24	1.09	1.14	1.07	1.07	1.05	1.10	1.05	1.15	1.05	1.17	1.06	1.06
Case5_F6_3 Phase Bt	Norwalk 345		40	0	650	NE138-NO13	1.19	1.10	NW345	1.12	1.07	1.10	1.06	1.19	1.08	1.17	1.10	1.18	1.08	1.07	1.08	1.04	1.06	1.06	1.05	1.09	1.07	1.10	1.06	1.06
Case5_F7_3 Phase Bt	Plumtree 345		40	0	650	NE138-NO13	1.21	1.20	ROCKY	1.11	1.11	1.21	1.20	1.10	1.09	1.07	1.07	1.10	1.09	1.08	1.08	1.07	1.07	1.11	1.10	1.21	1.20	1.21	1.19	1.19
Case5_basNo Fault			40	0	650	LM345-PLVA	1.09	1.09	ED345	1.08	1.08	1.07	1.07	1.09	1.09	1.06	1.06	1.09	1.09	1.07	1.07	1.06	1.06	1.05	1.05	1.07	1.07	1.06	1.06	1.06
Case5_F1_3 Phase	Plumtree		40	0	650	LM345-PLVA	1.16	1.18	PT115	1.16	1.13	1.16	1.18	1.09	1.09	1.08	1.08	1.10	1.10	1.12	1.11	1.10	1.09	1.11	1.10	1.14	1.17	1.13	1.15	1.15
Case5_F2_3 Phase	East Devon		40	0	650	LM345-PLVA	1.39	1.16	ED345	1.28	1.13	1.22	1.12	1.36	1.15	1.18	1.10	1.39	1.16	1.14	1.09	1.18	1.11	1.17	1.09	1.21	1.12	1.22	1.11	1.11
Case5_F3_1 Phase	East Devon		40	0	650	LM345-PLVA	1.16	1.12	ED345	1.14	1.10	1.12	1.08	1.15	1.11	1.11	1.07	1.16	1.12	1.08	1.06	1.11	1.07	1.09	1.06	1.12	1.08	1.12	1.08	1.08
Case5_F4_3 Phase	Norwalk Junction		40	0	650	LM345-PLVA	1.31	1.10	NW345	1.12	1.07	1.08	1.09	1.31	1.08	1.17	1.10	1.30	1.08	1.11	1.06	1.05	1.06	1.08	1.06	1.08	1.07	1.08	1.06	1.06
Case5_F5_3 Phase	Singer		40	0	650	LM345-PLVA	1.38	1.11	NW345	1.33	1.08	1.27	1.05	1.38	1.10	1.20	1.05	1.37	1.11	1.14	1.06	1.14	1.05	1.16	1.05	1.25	1.06	1.23	1.06	1.06
Case5_F6_3 Phase Bt	Norwalk 345		40	0	650	LM345-PLVA	1.33	1.09	ED345	1.27	1.07	1.20	1.09	1.33	1.07	1.17	1.09	1.33	1.07	1.13	1.07	1.11	1.06	1.10	1.07	1.18	1.09	1.17	1.09	1.09
Case5_F7_3 Phase Bt	Plumtree 345		40	0	650	LM345-PLVA	1.18	1.16	ROCKY	1.15	1.13	1.18	1.16	1.09	1.09	1.11	1.09	1.10	1.10	1.09	1.10	1.09	1.08	1.12	1.10	1.18	1.14	1.18	1.13	1.13

CASE #: 5C - Case 5 (Old) + 10 Miles of Cable (GE 2C and 6C windows)

DATE: 12/14/2004

Fault Closing at 0V on each phase, 4 Cycle Clearing

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																								
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY						
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	
Case5_bas	No Fault		50	302	840				1.06	1.06	ED345	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.06	1.06	1.06	1.06	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04		
Case5_F1.3	Phase Plumtree		50	302	840				1.21	1.19	STONY	1.14	1.09	1.15	1.13	1.08	1.05	1.05	1.05	1.07	1.07	1.10	1.09	1.08	1.07	1.06	1.07	1.06	1.07	1.21	1.19	1.14	1.13	
Case5_F2.3	Phase East Devon		50	302	840				1.18	1.08	ED345	1.11	1.05	1.07	1.04	1.17	1.06	1.09	1.04	1.18	1.06	1.08	1.06	1.09	1.08	1.05	1.04	1.06	1.04	1.06	1.04	1.06	1.04	
Case5_F3.1	Phase East Devon		50	302	840				1.09	1.07	ED345	1.06	1.05	1.05	1.05	1.08	1.06	1.06	1.05	1.09	1.07	1.07	1.05	1.08	1.06	1.06	1.04	1.06	1.04	1.06	1.04	1.06	1.04	
Case5_F4.3	Phase Norwalk Junction		50	302	840				1.24	1.11	NW345	1.07	1.07	1.07	1.08	1.24	1.07	1.15	1.10	1.23	1.08	1.08	1.07	1.06	1.06	1.05	1.05	1.10	1.11	1.08	1.09			
Case5_F5.3	Phase Singer		50	302	840				1.34	1.14	ED345	1.22	1.08	1.20	1.07	1.32	1.13	1.27	1.09	1.34	1.14	1.18	1.06	1.18	1.07	1.16	1.05	1.18	1.07	1.17	1.07			
Case5_F6.3	Phase Bt Norwalk 345		50	302	840				1.21	1.11	ED345	1.14	1.04	1.11	1.05	1.21	1.05	1.19	1.11	1.21	1.05	1.08	1.06	1.05	1.05	1.07	1.05	1.13	1.05	1.12	1.07			
Case5_F7.3	Phase Bt Plumtree 345		50	302	840				1.23	1.18	STONY	1.12	1.09	1.14	1.14	1.07	1.06	1.06	1.05	1.07	1.07	1.09	1.10	1.07	1.07	1.08	1.09	1.23	1.18	1.15	1.11			
Case5_bas	No Fault		50	302	840	PT345-LM34	1.06	1.06	ED345	1.05	1.05	1.05	1.05	1.06	1.06	1.04	1.04	1.06	1.06	1.05	1.05	1.05	1.04	1.04	1.04	1.05	1.05	1.04	1.05	1.05	1.04	1.04		
Case5_F2.3	Phase East Devon		50	302	840	PT345-LM34	1.32	1.13	ED345	1.31	1.12	1.26	1.10	1.31	1.12	1.23	1.08	1.32	1.13	1.14	1.08	1.18	1.06	1.13	1.06	1.13	1.06	1.25	1.09	1.22	1.08			
Case5_F3.1	Phase East Devon		50	302	840	PT345-LM34	1.14	1.07	ED345	1.12	1.06	1.10	1.05	1.13	1.07	1.09	1.04	1.14	1.07	1.07	1.05	1.06	1.05	1.07	1.04	1.10	1.05	1.09	1.04					
Case5_F4.3	Phase Norwalk Junction		50	302	840	PT345-LM34	1.22	1.10	ED345	1.04	1.05	1.04	1.04	1.22	1.06	1.13	1.10	1.22	1.06	1.10	1.06	1.05	1.05	1.06	1.03	1.04	1.06	1.06	1.04					
Case5_F5.3	Phase Singer		50	302	840	PT345-LM34	1.30	1.06	ED345	1.28	1.04	1.19	1.04	1.29	1.05	1.20	1.04	1.30	1.06	1.08	1.05	1.08	1.05	1.05	1.04	1.18	1.04	1.12	1.06					
Case5_F6.3	Phase Bt Norwalk 345		50	302	840	PT345-LM34	1.27	1.10	NW345	1.23	1.04	1.16	1.05	1.27	1.04	1.11	1.10	1.26	1.05	1.08	1.06	1.04	1.05	1.05	1.05	1.12	1.05	1.07	1.07					
Case5_F7.3	Phase Bt Plumtree 345		50	302	840	PT345-LM34	1.18	1.14	STONY	1.10	1.10	1.13	1.14	1.06	1.05	1.05	1.05	1.07	1.06	1.08	1.07	1.07	1.07	1.07	1.07	1.18	1.13	1.12	1.10					
Case5_bas	No Fault		50	302	840	BK345-ED34	1.06	1.06	ED345	1.05	1.05	1.04	1.04	1.05	1.05	1.04	1.04	1.06	1.06	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04		
Case5_F1.3	Phase Plumtree		50	302	840	BK345-ED34	1.24	1.23	PT345	1.24	1.23	1.22	1.22	1.23	1.18	1.15	1.12	1.24	1.19	1.11	1.07	1.11	1.10	1.12	1.09	1.21	1.19	1.17	1.14					
Case5_F4.3	Phase Norwalk Junction		50	302	840	BK345-ED34	1.34	1.12	NW345	1.11	1.05	1.11	1.06	1.34	1.12	1.22	1.10	1.32	1.12	1.10	1.07	1.16	1.07	1.09	1.06	1.09	1.08	1.11	1.08					
Case5_F5.3	Phase Singer		50	302	840	BK345-ED34	1.29	1.07	ED345	1.16	1.04	1.13	1.04	1.27	1.06	1.13	1.06	1.29	1.07	1.08	1.05	1.04	1.05	1.05	1.04	1.13	1.04	1.09	1.05					
Case5_F6.3	Phase Bt Norwalk 345		50	302	840	BK345-ED34	1.24	1.11	ED345	1.13	1.04	1.09	1.04	1.23	1.06	1.14	1.11	1.24	1.06	1.08	1.06	1.06	1.05	1.05	1.04	1.08	1.05	1.06	1.06					
Case5_F7.3	Phase Bt Plumtree 345		50	302	840	BK345-ED34	1.20	1.15	STONY	1.10	1.08	1.14	1.14	1.10	1.07	1.07	1.05	1.10	1.07	1.09	1.08	1.07	1.06	1.08	1.08	1.20	1.15	1.13	1.09					
Case5_bas	No Fault		50	302	840	NE138-NO13	1.06	1.06	ED345	1.04	1.04	1.04	1.04	1.05	1.05	1.05	1.05	1.06	1.06	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04		
Case5_F1.3	Phase Plumtree		50	302	840	NE138-NO13	1.19	1.15	STONY	1.14	1.12	1.14	1.15	1.10	1.07	1.07	1.07	1.09	1.07	1.10	1.07	1.09	1.08	1.09	1.06	1.19	1.15	1.14	1.10					
Case5_F2.3	Phase East Devon		50	302	840	NE138-NO13	1.10	1.06	ROCKY	1.09	1.05	1.09	1.04	1.10	1.05	1.07	1.04	1.09	1.06	1.10	1.06	1.09	1.06	1.07	1.04	1.08	1.04	1.10	1.04					
Case5_F3.1	Phase East Devon		50	302	840	NE138-NO13	1.08	1.05	ED345	1.06	1.04	1.06	1.04	1.07	1.05	1.07	1.04	1.08	1.05	1.06	1.05	1.06	1.05	1.05	1.03	1.06	1.04	1.05	1.03					
Case5_F4.3	Phase Norwalk Junction		50	302	840	NE138-NO13	1.12	1.09	NW345	1.07	1.04	1.07	1.06	1.12	1.06	1.12	1.07	1.12	1.07	1.08	1.07	1.07	1.06	1.05	1.05	1.11	1.09	1.09	1.09					
Case5_F5.3	Phase Singer		50	302	840	NE138-NO13	1.22	1.06	ED345	1.12	1.04	1.09	1.04	1.20	1.05	1.19	1.06	1.22	1.06	1.09	1.06	1.08	1.05	1.08	1.04	1.11	1.04	1.11	1.04					
Case5_F6.3	Phase Bt Norwalk 345		50	302	840	NE138-NO13	1.15	1.08	NW345	1.08	1.04	1.08	1.05	1.15	1.05	1.14	1.08	1.15	1.05	1.06	1.06	1.05	1.05	1.04	1.04	1.06	1.05	1.05	1.05					
Case5_F7.3	Phase Bt Plumtree 345		50	302	840	NE138-NO13	1.21	1.15	STONY	1.10	1.07	1.13	1.12	1.06	1.05	1.05	1.05	1.07	1.05	1.09	1.09	1.06	1.06	1.07	1.07	1.21	1.15	1.14	1.10					
Case5_bas	No Fault		50	302	840	LM345-PLVA	1.07	1.07	ED345	1.06	1.06	1.05	1.05	1.06	1.06	1.04	1.04	1.07	1.07	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05		
Case5_F1.3	Phase Plumtree		50	302	840	LM345-PLVA	1.16	1.15	STONY	1.13	1.11	1.15	1.15	1.07	1.06	1.06	1.05	1.07	1.06	1.09	1.08	1.08	1.08	1.08	1.07	1.16	1.12	1.12	1.10					
Case5_F2.3	Phase East Devon		50	302	840	LM345-PLVA	1.18	1.09	ED345	1.17	1.08	1.15	1.07	1.18	1.09	1.13	1.06	1.18	1.09	1.15	1.07	1.12	1.06	1.12	1.06	1.15	1.06	1.13	1.06					
Case5_F3.1	Phase East Devon		50	302	840	LM345-PLVA	1.08	1.07	ED345	1.08	1.06	1.07	1.05	1.08	1.07	1.06	1.04	1.08	1.07	1.06	1.05	1.06	1.05	1.06	1.04	1.08	1.05	1.07	1.04					
Case5_F4.3	Phase Norwalk Junction		50	302	840	LM345-PLVA	1.24	1.09	NW345	1.11	1.06	1.08	1.04	1.24	1.06	1.14	1.09	1.23	1.06	1.09	1.06	1.04	1.06	1.06	1.04	1.10	1.06	1.08	1.06					
Case5_F5.3	Phase Singer		50	302	840	LM345-PLVA	1.33	1.06	ED345	1.27	1.05	1.22	1.05	1.33	1.05	1.19	1.04	1.33	1.05	1.12	1.06	1.13	1.05	1.10	1.05	1.19	1.04	1.14	1.05					
Case5_F6.3	Phase Bt Norwalk 345		50	302	840	LM345-PLVA	1.28	1.11	ED345	1.21	1.05	1.14	1.06	1.28	1.05	1.14	1.11	1.28	1.06	1.11	1.07	1.07	1.06	1.05	1.05	1.16	1.05							

CASE #: 5C - Case 5 (Old) + 10 Miles of Cable (GE 2C and 6C windows)

DATE: 12/14/2004

Fault Closing at 0V on each phase, 4 Cycle Clearing

DONE BY: Jack King/EnerNex

File	SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																					
			LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION	PT345		PT115		NW345		NW115		ED345		BK345		ESHOR		FB115		STONY		ROCKY			
										2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
Case5_bas	No Fault		70	1249	1050				1.10	1.10	FB115	1.05	1.05	1.06	1.06	1.05	1.05	1.04	1.04	1.06	1.06	1.07	1.07	1.09	1.09	1.10	1.10	1.07	1.07	1.08	1.08
Case5_F1.3	Phase Plumtree		70	1249	1050				1.35	1.35	ROCKY	1.13	1.11	1.14	1.13	1.07	1.05	1.05	1.04	1.09	1.05	1.13	1.09	1.13	1.12	1.16	1.15	1.17	1.16	1.35	1.35
Case5_F2.3	Phase East Devon		70	1249	1050				1.13	1.09	BK345	1.06	1.05	1.06	1.06	1.09	1.04	1.03	1.04	1.10	1.05	1.13	1.08	1.11	1.09	1.11	1.09	1.07	1.06	1.10	1.08
Case5_F3.1	Phase East Devon		70	1249	1050				1.11	1.09	ESHOR	1.05	1.04	1.06	1.06	1.05	1.04	1.04	1.04	1.06	1.05	1.09	1.07	1.11	1.08	1.10	1.09	1.07	1.06	1.08	1.08
Case5_F4.3	Phase Norwalk Junction		70	1249	1050				1.20	1.22	ROCKY	1.14	1.09	1.11	1.11	1.18	1.07	1.10	1.08	1.15	1.07	1.08	1.08	1.10	1.08	1.20	1.13	1.16	1.11	1.20	1.22
Case5_F5.3	Phase Singer		70	1249	1050				1.24	1.09	ED345	1.12	1.05	1.12	1.06	1.21	1.05	1.16	1.06	1.24	1.06	1.09	1.07	1.11	1.08	1.23	1.09	1.12	1.06	1.18	1.08
Case5_F6.3	Phase Bt Norwalk 345		70	1249	1050				1.16	1.09	ED345	1.07	1.05	1.08	1.06	1.15	1.05	1.07	1.08	1.16	1.06	1.07	1.07	1.08	1.08	1.13	1.09	1.06	1.07	1.09	1.08
Case5_F7.3	Phase Bt Plumtree 345		70	1249	1050				1.38	1.36	ROCKY	1.10	1.09	1.14	1.13	1.05	1.04	1.04	1.05	1.07	1.05	1.09	1.08	1.10	1.10	1.13	1.13	1.20	1.19	1.38	1.36
Case5_bas	No Fault		70	1249	1050	PT345-LM34	1.09	1.09	FB115	1.05	1.05	1.06	1.06	1.05	1.05	1.04	1.04	1.06	1.06	1.06	1.06	1.08	1.08	1.09	1.09	1.06	1.06	1.06	1.08	1.08	
Case5_F2.3	Phase East Devon		70	1249	1050	PT345-LM34	1.20	1.09	ESHOR	1.19	1.07	1.15	1.06	1.17	1.06	1.11	1.03	1.17	1.07	1.15	1.08	1.20	1.07	1.14	1.09	1.15	1.06	1.16	1.16	1.08	
Case5_F3.1	Phase East Devon		70	1249	1050	PT345-LM34	1.09	1.08	FB115	1.04	1.03	1.05	1.04	1.05	1.04	1.03	1.02	1.05	1.04	1.08	1.06	1.09	1.07	1.09	1.08	1.05	1.04	1.07	1.06		
Case5_F4.3	Phase Norwalk Junction		70	1249	1050	PT345-LM34	1.15	1.20	ROCKY	1.13	1.11	1.12	1.11	1.15	1.06	1.06	1.05	1.13	1.05	1.09	1.08	1.11	1.09	1.13	1.09	1.12	1.11	1.15	1.20		
Case5_F5.3	Phase Singer		70	1249	1050	PT345-LM34	1.21	1.10	PT345	1.21	1.05	1.12	1.05	1.20	1.04	1.12	1.04	1.18	1.05	1.09	1.07	1.07	1.08	1.15	1.10	1.12	1.06	1.14	1.09		
Case5_F6.3	Phase Bt Norwalk 345		70	1249	1050	PT345-LM34	1.16	1.12	ED345	1.09	1.05	1.10	1.06	1.14	1.04	1.07	1.07	1.16	1.05	1.11	1.08	1.11	1.10	1.15	1.12	1.07	1.07	1.11	1.09		
Case5_F7.3	Phase Bt Plumtree 345		70	1249	1050	PT345-LM34	1.37	1.33	ROCKY	1.11	1.10	1.13	1.12	1.05	1.05	1.04	1.04	1.06	1.05	1.10	1.08	1.12	1.12	1.17	1.14	1.16	1.12	1.37	1.33		
Case5_bas	No Fault		70	1249	1050	BK345-ED34	1.09	1.09	FB115	1.04	1.04	1.05	1.05	1.04	1.04	1.04	1.04	1.05	1.05	1.07	1.07	1.08	1.08	1.09	1.09	1.06	1.06	1.08	1.08		
Case5_F1.3	Phase Plumtree		70	1249	1050	BK345-ED34	1.35	1.33	ROCKY	1.21	1.16	1.20	1.14	1.15	1.11	1.09	1.07	1.17	1.12	1.12	1.08	1.13	1.11	1.14	1.13	1.18	1.14	1.35	1.33		
Case5_F4.3	Phase Norwalk Junction		70	1249	1050	BK345-ED34	1.20	1.17	NW345	1.18	1.08	1.10	1.09	1.20	1.07	1.14	1.07	1.18	1.08	1.17	1.09	1.17	1.09	1.17	1.11	1.12	1.10	1.16	1.17		
Case5_F5.3	Phase Singer		70	1249	1050	BK345-ED34	1.23	1.09	ED345	1.11	1.04	1.12	1.05	1.20	1.04	1.13	1.03	1.23	1.05	1.12	1.08	1.09	1.08	1.12	1.09	1.08	1.06	1.13	1.08		
Case5_F6.3	Phase Bt Norwalk 345		70	1249	1050	BK345-ED34	1.15	1.10	ED345	1.07	1.05	1.09	1.06	1.13	1.04	1.09	1.06	1.15	1.05	1.14	1.09	1.12	1.09	1.13	1.10	1.08	1.07	1.10	1.09		
Case5_F7.3	Phase Bt Plumtree 345		70	1249	1050	BK345-ED34	1.34	1.32	ROCKY	1.10	1.11	1.15	1.11	1.07	1.06	1.05	1.05	1.08	1.06	1.11	1.10	1.11	1.09	1.14	1.12	1.20	1.16	1.34	1.32		
Case5_bas	No Fault		70	1249	1050	NE138-NO13	1.08	1.08	FB115	1.04	1.04	1.05	1.05	1.04	1.04	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.08	1.08	1.08	1.08	1.06	1.06	1.07	1.07	
Case5_F1.3	Phase Plumtree		70	1249	1050	NE138-NO13	1.33	1.32	ROCKY	1.11	1.09	1.14	1.11	1.06	1.04	1.06	1.05	1.07	1.05	1.10	1.06	1.11	1.10	1.14	1.13	1.14	1.09	1.33	1.32		
Case5_F2.3	Phase East Devon		70	1249	1050	NE138-NO13	1.14	1.08	BK345	1.08	1.03	1.07	1.04	1.07	1.03	1.05	1.04	1.07	1.04	1.14	1.08	1.11	1.07	1.09	1.08	1.07	1.05	1.10	1.06		
Case5_F3.1	Phase East Devon		70	1249	1050	NE138-NO13	1.08	1.07	FB115	1.04	1.02	1.04	1.04	1.03	1.03	1.04	1.03	1.03	1.03	1.07	1.05	1.07	1.07	1.08	1.07	1.05	1.04	1.06	1.06		
Case5_F4.3	Phase Norwalk Junction		70	1249	1050	NE138-NO13	1.18	1.18	FB115	1.14	1.07	1.10	1.07	1.06	1.05	1.08	1.07	1.06	1.06	1.10	1.07	1.12	1.08	1.18	1.11	1.11	1.09	1.17	1.18		
Case5_F5.3	Phase Singer		70	1249	1050	NE138-NO13	1.14	1.08	FB115	1.07	1.05	1.07	1.05	1.07	1.04	1.11	1.05	1.08	1.05	1.10	1.06	1.07	1.07	1.14	1.08	1.06	1.06	1.12	1.08		
Case5_F6.3	Phase Bt Norwalk 345		70	1249	1050	NE138-NO13	1.12	1.10	BK345	1.05	1.04	1.08	1.06	1.03	1.04	1.07	1.07	1.04	1.04	1.12	1.07	1.10	1.08	1.11	1.10	1.07	1.07	1.09	1.09		
Case5_F7.3	Phase Bt Plumtree 345		70	1249	1050	NE138-NO13	1.39	1.36	ROCKY	1.10	1.08	1.15	1.11	1.06	1.04	1.06	1.05	1.08	1.06	1.10	1.08	1.11	1.10	1.13	1.12	1.17	1.16	1.39	1.36		
Case5_bas	No Fault		70	1249	1050	LM345-PLVA	1.10	1.10	FB115	1.06	1.06	1.07	1.07	1.06	1.06	1.04	1.04	1.07	1.07	1.07	1.07	1.08	1.08	1.10	1.10	1.07	1.07	1.09	1.09		
Case5_F1.3	Phase Plumtree		70	1249	1050	LM345-PLVA	1.40	1.36	ROCKY	1.13	1.11	1.14	1.13	1.07	1.07	1.05	1.05	1.09	1.06	1.14	1.09	1.14	1.13	1.18	1.15	1.13	1.14	1.40	1.36		
Case5_F2.3	Phase East Devon		70	1249	1050	LM345-PLVA	1.18	1.10	ESHOR	1.14	1.07	1.13	1.08	1.14	1.07	1.09	1.04	1.13	1.08	1.16	1.08	1.18	1.08	1.14	1.10	1.13	1.08	1.14	1.09		
Case5_F3.1	Phase East Devon		70	1249	1050	LM345-PLVA	1.10	1.09	FB115	1.06	1.05	1.06	1.06	1.06	1.05	1.04	1.04	1.06	1.06	1.08	1.06	1.10	1.08	1.10	1.09	1.07	1.06	1.08	1.08		
Case5_F4.3	Phase Norwalk Junction		70	1249	1050	LM345-PLVA	1.21	1.15	FB115	1.20	1.14	1.16	1.12	1.12	1.06	1.09	1.06	1.10	1.07	1.11	1.09	1.12	1.09	1.21	1.12	1.17	1.15	1.21	1.13		
Case5_F5.3	Phase Singer		70	1249	1050	LM345-PLVA	1.17	1.10	NW345	1.14	1.07	1.11	1.08	1.17	1.07	1.10	1.05	1.17	1.07	1.11	1.09	1.07	1.08	1.15	1.10	1.10	1.08	1.10	1.09		
Case5_F6.3	Phase Bt Norwalk 345		70	1249	1050	LM345-PLVA	1.14	1.10	PT115	1.12	1.07	1.14	1.08	1.11	1.07	1.11	1.07	1.10	1.07	1.13	1.09	1.11	1.09	1.12	1.10	1.12	1.08	1.10	1.10		
Case5_F7.3	Phase Bt Plumtree 345		70	1249	1050	LM345-PLVA	1.41	1.38	ROCKY	1.14	1.11	1.17	1.16	1.09	1.08	1.06	1.06	1.11	1.09	1.14	1.09	1.13	1.13	1.16	1.13	1.17	1.18	1.41	1.38		

SWITCHING EVENT		SYSTEM CONDITIONS						MAXIMUM TOV						TOV																																	
TYPE	LOCATION	SIM. CASE	LOAD LEVEL	SHUNT CAPS	REACTS	LINE OUT	FAULT CLEAR	2C	LOCATION	4C	LOCATION	6C	LOCATION	PLUM345	PLUM115	NRWK345	NRWK115	EDVN345	BSCK345	ESHR115	FRBG115	STONY115	ROCKY115																								
														2C	4C	6C	2C	4C	6C	2C	4C	6C	2C	4C	6C																						
3ph fault Plm	Trip Plm-Lmtn	1	40%	40%	40%	ALL IN	4.0 CY	1.30	PLUM345	1.32	PLUM345	1.29	PLUM345	1.30	1.32	1.29	2.23	1.27	1.23	1.28	1.27	1.21	1.17	1.15	1.11	1.27	1.26	1.20	1.12	1.10	1.10	1.06	1.04	1.03	1.07	1.06	1.06	1.18	1.21	1.17	1.14	1.16	1.11				
3ph fault Plm	Trip Plm-Lmtn	2	40%	40%	40%	ED-BS	4.0 CY	1.28	PLUM345	1.22	PLUM345	1.19	PLUM345	1.28	1.22	1.19	1.22	1.17	1.15	1.28	1.20	1.17	1.15	1.11	1.09	1.28	1.20	1.17	1.08	1.07	1.07	1.05	1.04	1.03	1.06	1.05	1.05	1.18	1.13	1.11	1.12	1.10	1.08				
3ph fault Plm	Trip Plm-Lmtn	3	40%	40%	40%	LM-PV	4.0 CY	1.25	NRWK345	1.26	PLUM345	1.22	PLUM345	1.25	1.26	1.22	1.19	1.20	1.18	1.25	1.19	1.18	1.13	1.09	1.09	1.25	1.19	1.18	1.11	1.10	1.09	1.04	1.03	1.03	1.05	1.04	1.04	1.14	1.15	1.13	1.09	1.09	1.08				
3ph fault Plm	Trip Plm-Lmtn	4	40%	40%	40%	NH-LI	4.0 CY	1.23	PLUM345	1.16	PLUM345	1.14	PLUM345	1.23	1.16	1.14	1.17	1.13	1.11	1.22	1.13	1.12	1.13	1.11	1.09	1.05	1.03	1.12	1.13	1.12	1.11	1.08	1.07	1.03	1.02	1.01	1.05	1.04	1.03	1.12	1.09	1.07	1.08				
3ph fault Plm	Trip Plm-Lmtn	5	50%	50%	50%	ALL IN	4.0 CY	1.26	PLUM345	1.21	PLUM345	1.16	PLUM345	1.26	1.21	1.16	1.20	1.18	1.13	1.23	1.19	1.16	1.12	1.11	1.09	1.16	1.12	1.10	1.08	1.23	1.19	1.16	1.13	1.12	1.11	1.05	1.04	1.04	1.08	1.08	1.08	1.18	1.19	1.15	1.13	1.14	1.12
3ph fault Plm	Trip Plm-Lmtn	6	50%	50%	50%	ED-BS	4.0 CY	1.21	EDVN345	1.12	PLUM345	1.09	BSCK345	1.21	1.12	1.09	1.16	1.09	1.06	1.20	1.12	1.09	1.10	1.10	1.09	1.04	1.02	1.12	1.09	1.10	1.10	1.09	1.04	1.03	1.02	1.08	1.07	1.06	1.17	1.08	1.05	1.12	1.06	1.05			
3ph fault Plm	Trip Plm-Lmtn	7	50%	50%	50%	LM-PV	4.0 CY	1.25	PLUM345	1.17	PLUM345	1.15	PLUM345	1.25	1.17	1.15	1.21	1.15	1.11	1.23	1.15	1.13	1.12	1.08	1.07	1.23	1.16	1.13	1.13	1.10	1.09	1.04	1.03	1.03	1.07	1.07	1.07	1.18	1.14	1.09	1.12	1.10	1.07				
3ph fault Plm	Trip Plm-Lmtn	8	50%	50%	50%	NH-LI	4.0 CY	1.18	PLUM345	1.08	EDVN345	1.08	BSCK345	1.18	1.09	1.06	1.15	1.05	1.03	1.17	1.08	1.06	1.06	1.01	0.98	1.17	1.09	1.06	1.11	1.09	1.08	1.03	1.01	1.00	1.07	1.05	1.04	1.13	1.06	1.03	1.09	1.04	1.02				
3ph fault Plm	Trip Plm-Lmtn	9	70%	70%	70%	ALL IN	4.0 CY	1.30	ROCKY115	1.25	ROCKY115	1.21	ROCKY115	1.24	1.19	1.17	1.27	1.19	1.16	1.21	1.17	1.15	1.12	1.10	1.08	1.24	1.18	1.15	1.15	1.14	1.13	1.08	1.06	1.06	1.14	1.13	1.11	1.25	1.21	1.17	1.30	1.25	1.21				
3ph fault Plm	Trip Plm-Lmtn	10	70%	70%	70%	ED-BS	4.0 CY	1.31	PLUM345	1.23	ROCKY115	1.19	ROCKY115	1.31	1.15	1.09	1.28	1.13	1.08	1.27	1.13	1.08	1.14	1.05	1.03	1.27	1.12	1.07	1.13	1.12	1.12	1.06	1.03	1.02	1.14	1.13	1.13	1.24	1.10	1.05	1.29	1.23	1.19				
3ph fault Plm	Trip Plm-Lmtn	11	70%	70%	70%	LM-PV	4.0 CY	1.29	ROCKY115	1.22	ROCKY115	1.17	ROCKY115	1.22	1.16	1.15	1.23	1.15	1.13	1.20	1.15	1.13	1.12	1.08	1.06	1.20	1.16	1.13	1.14	1.13	1.12	1.06	1.05	1.04	1.12	1.09	1.08	1.26	1.16	1.11	1.29	1.22	1.17				
3ph fault Plm	Trip Plm-Lmtn	12	70%	70%	70%	NH-LI	4.0 CY	1.20	ROCKY115	1.14	ROCKY115	1.11	ROCKY115	1.13	1.08	1.05	1.11	1.06	1.04	1.12	1.06	1.04	1.02	0.98	0.96	1.12	1.07	1.05	1.10	1.09	1.08	1.03	1.01	1.01	1.10	1.08	1.08	1.12	1.05	1.02	1.20	1.14	1.11				
3ph fault Plm	Trip Plm-Lmtn	13	40%	40%	40%	ALL IN	3.5 CY	1.34	PLUM345	1.30	PLUM345	1.28	PLUM345	1.34	1.30	1.28	1.26	1.27	1.25	1.33	1.26	1.22	1.19	1.14	1.11	1.33	1.25	1.20	1.14	1.11	1.10	1.06	1.04	1.04	1.08	1.06	1.06	1.21	1.21	1.19	1.16	1.14	1.13				
3ph fault Plm	Trip Plm-Lmtn	14	40%	40%	40%	ED-BS	3.5 CY	1.29	PLUM345	1.23	PLUM345	1.19	PLUM345	1.29	1.23	1.19	1.22	1.18	1.15	1.28	1.22	1.18	1.16	1.12	1.10	1.28	1.22	1.18	1.08	1.08	1.07	1.06	1.04	1.03	1.07	1.06	1.05	1.17	1.14	1.11	1.12	1.10	1.08				
3ph fault Plm	Trip Plm-Lmtn	15	40%	40%	40%	LM-PV	3.5 CY	1.29	PLUM345	1.25	PLUM345	1.23	PLUM345	1.29	1.25	1.23	1.24	1.22	1.18	1.27	1.19	1.17	1.14	1.11	1.10	1.09	1.25	1.18	1.17	1.11	1.10	1.09	1.04	1.03	1.06	1.05	1.04	1.18	1.16	1.13	1.11	1.09					
3ph fault Plm	Trip Plm-Lmtn	16	40%	40%	40%	NH-LI	3.5 CY	1.19	NRWK345	1.17	PLUM345	1.15	PLUM345	1.19	1.17	1.15	1.14	1.13	1.11	1.19	1.14	1.11	1.07	1.05	1.04	1.19	1.14	1.11	1.10	1.10	1.08	1.08	1.03	1.02	1.01	1.05	1.04	1.03	1.10	1.09	1.08	1.07	1.07	1.05			
3ph fault Plm	Trip Plm-Lmtn	17	50%	50%	50%	ALL IN	3.5 CY	1.28	PLUM345	1.17	EDVN345	1.17	EDVN345	1.28	1.20	1.16	1.24	1.16	1.13	1.25	1.19	1.17	1.13	1.10	1.09	1.25	1.18	1.17	1.13	1.12	1.12	1.05	1.05	1.04	1.08	1.08	1.08	1.18	1.17	1.14	1.12	1.12	1.11				
3ph fault Plm	Trip Plm-Lmtn	18	50%	50%	50%	ED-BS	3.5 CY	1.22	PLUM345	1.15	PLUM345	1.11	PLUM345	1.22	1.15	1.11	1.18	1.12	1.07	1.22	1.13	1.09	1.11	1.07	1.04	1.21	1.13	1.09	1.10	1.10	1.09	1.04	1.03	1.02	1.08	1.07	1.06	1.19	1.12	1.08	1.13	1.09	1.06				
3ph fault Plm	Trip Plm-Lmtn	19	50%	50%	50%	LM-PV	3.5 CY	1.20	PLUM345	1.15	NRWK345	1.15	PLUM345	1.20	1.16	1.15	1.16	1.12	1.10	1.19	1.16	1.14	1.11	1.09	1.07	1.19	1.16	1.14	1.12	1.11	1.10	1.04	1.04	1.03	1.07	1.06	1.06	1.18	1.14	1.12	1.12	1.10	1.08				
3ph fault Plm	Trip Plm-Lmtn	20	50%	50%	50%	NH-LI	3.5 CY	1.16	EDVN345	1.10	PLUM345	1.08	BSCK345	1.14	1.10	1.08	1.09	1.07	1.04	1.15	1.09	1.06	1.04	1.01	0.99	1.16	1.10	1.07	1.10	1.09	1.08	1.02	1.01	1.00	1.06	1.05	1.05	1.11	1.09	1.06	1.08	1.07	1.04				
3ph fault Plm	Trip Plm-Lmtn	21	70%	70%	70%	ALL IN	3.5 CY	1.27	ROCKY115	1.25	ROCKY115	1.22	ROCKY115	1.22	1.18	1.17	1.23	1.20	1.17	1.20	1.18	1.16	1.13	1.10	1.08	1.16	1.13	1.10	1.14	1.14	1.08	1.07	1.06	1.15	1.12	1.11	1.24	1.21	1.18	1.27	1.25	1.22					
3ph fault Plm	Trip Plm-Lmtn	22	70%	70%	70%	ED-BS	3.5 CY	1.22	ROCKY115	1.18	ROCKY115	1.18	ROCKY115	1.20	1.14	1.09	1.18	1.12	1.08	1.19	1.13	1.08	1.09	1.05	1.03	1.20	1.12	1.08	1.12	1.12	1.12	1.04	1.03	1.02	1.12	1.13	1.14	1.17	1.09	1.04	1.22	1.22	1.18				
3ph fault Plm	Trip Plm-Lmtn	23	70%	70%	70%	LM-PV	3.5 CY	1.25	ROCKY115	1.12	ROCKY115	1.17	ROCKY115	1.20	1.17	1.15	1.20	1.16	1.13	1.19	1.16	1.14	1.12	1.10	1.09	1.07	1.20	1.17	1.14	1.14	1.13	1.12	1.07	1.05	1.02	1.12	1.09	1.09	1.21	1.18	1.12	1.25	1.22	1.17			
3ph fault Plm	Trip Plm-Lmtn	24	70%	70%	70%	NH-LI	3.5 CY	1.16	ROCKY115	1.12	ROCKY115	1.10	ROCKY115	1.11	1.08	1.06	1.12	1.06	1.04	1.11	1.07	1.05	1.02	0.99	0.97	1.12	1.08	1.05	1.10	1.09	1.08	1.03	1.01	1.01	1.10	1.08	1.08	1.12	1.06	1.02	1.16	1.12	1.10				
2ph fault Plm	Trip Plm-Lmtn	1	40%	40%	40%	ALL IN	4.0 CY	1.30	PLUM345	1.27	PLUM345	1.25	PLUM345	1.30	1.27	1.25	1.25	1.24	1.21	1.28	1.26	1.23	1.17	1.16	1.14	1.28	1.25	1.22	1.15	1.14	1.13	1.08	1.07	1.06	1.10	1.09	1.08	1.21	1.19	1.16	1.15	1.14	1.12				
2ph fault Plm	Trip Plm-Lmtn	2	40%	40%	40%	ED-BS	4.0 CY	1.30	EDVN345	1.19	EDVN345	1.15	EDVN345	1.28	1.17	1.13	1.20	1.12	1.09	1.30	1.18	1.15	1.10	1.08	1.10	1.30	1.19	1.15	1.08	1.07	1.07	1.05	1.03	1.02	1.07	1.05	1.04	1.16	1.09	1.06	1.11	1.07	1.04				
2ph fault Plm	Trip Plm-Lmtn	3	4																																												

CASE #: GE - B-N 1 HPFF, M-N 2XLPE (OLD CASE 5)

DATE: 12/6/2004

DONE BY: E. R. PRATICO, GE ENERGY

NOTE: 2C is 0.13 - 0.17 s, 4C is 0.17 - 0.21 s, 6C is 0.21 - 0.25 s (max. voltage - pu)

SWITCHING EVENT		SYSTEM CONDITIONS										MAXIMUM TOV										TOV																										
TYPE	LOCATION	SIM CASE	LOAD LEVEL	SHUNT CAPS	LINE REACTS	FAULT CLEAR	2C	LOCATION	4C	LOCATION	6C	LOCATION	PLUM345	PLUM115	NRWK345	NRWK115	EDVN345	BSCK345	ESHR115	FRBG115	STON115	ROCKY115	2C	4C	6C	2C	4C	6C	2C	4C	6C	2C	4C	6C														
3ph fault	Edvn	Trip	Edvn-Bsck	1	40%	40%	40%	ALL IN	4.0 CY	1.32	EDVN345	1.38	EDVN345	1.37	EDVN345	1.25	1.28	1.28	1.28	1.24	1.23	1.31	1.36	1.36	1.17	1.21	1.21	1.21	1.32	1.38	1.37	1.08	1.08	1.08	1.04	1.06	1.06	1.08	1.10	1.10	1.17	1.20	1.19	1.14	1.16	1.15		
3ph fault	Edvn	Trip	Edvn-Bsck	2	40%	40%	40%	PL-LM	4.0 CY	1.35	PLUM345	1.28	PLUM345	1.22	PLUM345	1.35	1.28	1.22	1.27	1.22	1.16	1.23	1.26	1.21	1.19	1.14	1.11	1.33	1.25	1.20	1.08	1.07	1.07	1.05	1.04	1.02	1.08	1.06	1.05	1.22	1.17	1.13	1.15	1.12	1.18	1.12	1.08	
3ph fault	Edvn	Trip	Edvn-Bsck	3	40%	40%	40%	LM-PV	4.0 CY	1.29	PLUM345	1.25	PLUM345	1.22	PLUM345	1.29	1.25	1.22	1.25	1.22	1.18	1.28	1.25	1.22	1.16	1.14	1.12	1.29	1.25	1.22	1.10	1.09	1.08	1.05	1.04	1.03	1.11	1.10	1.08	1.20	1.17	1.15	1.16	1.14	1.12	1.10	1.08	
3ph fault	Edvn	Trip	Edvn-Bsck	4	40%	40%	40%	NH-LI	4.0 CY	1.23	PLUM345	1.21	PLUM345	1.19	EDVN345	1.23	1.21	1.19	1.19	1.16	1.14	1.23	1.21	1.19	1.11	1.10	1.08	1.23	1.20	1.19	1.08	1.08	1.07	1.03	1.02	1.07	1.07	1.06	1.14	1.13	1.11	1.11	1.09	1.08	1.08	1.08	1.08	
3ph fault	Edvn	Trip	Edvn-Bsck	5	50%	50%	50%	ALL IN	4.0 CY	1.30	NRWK345	1.23	NRWK345	1.29	NRWK345	1.27	1.29	1.26	1.22	1.24	1.22	1.30	1.32	1.29	1.11	1.10	1.11	1.10	1.23	1.20	1.18	1.10	1.10	1.10	1.04	1.05	1.04	1.10	1.10	1.09	1.22	1.24	1.22	1.15	1.17	1.16	1.16	1.16
3ph fault	Edvn	Trip	Edvn-Bsck	6	50%	50%	50%	PL-LM	4.0 CY	1.27	NRWK345	1.17	NRWK345	1.11	NRWK345	1.26	1.16	1.11	1.20	1.12	1.08	1.27	1.17	1.11	1.11	1.16	1.09	1.05	1.27	1.17	1.11	1.11	1.10	1.05	1.03	1.02	1.09	1.07	1.06	1.18	1.11	1.06	1.13	1.07	1.05	1.05		
3ph fault	Edvn	Trip	Edvn-Bsck	7	50%	50%	50%	LM-PV	4.0 CY	1.27	EDVN345	1.20	EDVN345	1.16	NRWK345	1.20	1.16	1.13	1.18	1.12	1.09	1.26	1.20	1.16	1.16	1.11	1.09	1.27	1.20	1.16	1.11	1.10	1.09	1.05	1.04	1.03	1.10	1.07	1.06	1.18	1.11	1.06	1.14	1.08	1.06	1.06		
3ph fault	Edvn	Trip	Edvn-Bsck	8	50%	50%	50%	NH-LI	4.0 CY	1.22	EDVN345	1.18	EDVN345	1.14	EDVN345	1.19	1.14	1.12	1.16	1.11	1.09	1.22	1.17	1.14	1.12	1.11	1.09	1.07	1.04	1.22	1.18	1.14	1.10	1.10	1.09	1.04	1.03	1.02	1.07	1.06	1.15	1.11	1.08	1.11	1.08	1.06		
3ph fault	Edvn	Trip	Edvn-Bsck	9	70%	70%	70%	ALL IN	4.0 CY	1.34	ROCKY115	1.31	ROCKY115	1.30	ROCKY115	1.30	1.24	1.20	1.26	1.22	1.19	1.29	1.23	1.19	1.17	1.13	1.11	1.29	1.23	1.19	1.15	1.15	1.14	1.10	1.08	1.07	1.20	1.17	1.16	1.12	1.27	1.23	1.21	1.34	1.31	1.30		
3ph fault	Edvn	Trip	Edvn-Bsck	10	70%	70%	70%	PL-LM	4.0 CY	1.31	PLUM345	1.15	ROCKY115	1.12	BSCK345	1.31	1.11	1.05	1.30	1.10	1.05	1.27	1.10	1.10	1.14	1.04	1.04	1.00	1.26	1.10	1.04	1.13	1.11	1.12	1.05	1.03	1.02	1.12	1.10	1.11	1.23	1.10	1.05	1.24	1.15	1.11		
3ph fault	Edvn	Trip	Edvn-Bsck	11	70%	70%	70%	LM-PV	4.0 CY	1.31	ROCKY115	1.25	ROCKY115	1.20	ROCKY115	1.22	1.15	1.11	1.17	1.14	1.10	1.19	1.14	1.10	1.09	1.10	1.06	1.04	1.18	1.14	1.10	1.10	1.13	1.12	1.11	1.06	1.04	1.03	1.16	1.13	1.11	1.31	1.25	1.20	1.18			
3ph fault	Edvn	Trip	Edvn-Bsck	12	70%	70%	70%	NH-LI	4.0 CY	1.28	ROCKY115	1.22	ROCKY115	1.18	ROCKY115	1.18	1.11	1.08	1.15	1.10	1.07	1.18	1.10	1.06	1.07	1.01	0.99	1.19	1.09	1.06	1.13	1.11	1.11	1.05	1.03	1.02	1.16	1.12	1.10	1.16	1.11	1.08	1.28	1.22	1.18			
3ph fault	Edvn	Trip	Edvn-Bsck	13	40%	40%	40%	ALL IN	3.5 CY	1.31	EDVN345	1.38	EDVN345	1.37	EDVN345	1.26	1.29	1.28	1.22	1.24	1.23	1.31	1.37	1.36	1.16	1.21	1.21	1.31	1.38	1.37	1.09	1.09	1.09	1.06	1.06	1.06	1.09	1.10	1.10	1.18	1.20	1.20	1.13	1.16	1.15			
3ph fault	Edvn	Trip	Edvn-Bsck	14	40%	40%	40%	PL-LM	3.5 CY	1.28	PLUM345	1.23	PLUM345	1.18	PLUM345	1.28	1.23	1.18	1.22	1.17	1.13	1.27	1.21	1.17	1.14	1.11	1.09	1.27	1.21	1.17	1.08	1.07	1.07	1.06	1.04	1.03	1.07	1.05	1.04	1.16	1.13	1.09	1.11	1.09	1.06			
3ph fault	Edvn	Trip	Edvn-Bsck	15	40%	40%	40%	LM-PV	3.5 CY	1.26	NRWK345	1.20	EDVN345	1.18	NRWK345	1.24	1.20	1.18	1.18	1.16	1.14	1.26	1.20	1.18	1.13	1.11	1.10	1.26	1.20	1.18	1.08	1.08	1.07	1.04	1.04	1.03	1.07	1.07	1.06	1.14	1.12	1.11	1.10	1.09	1.08	1.08		
3ph fault	Edvn	Trip	Edvn-Bsck	16	40%	40%	40%	NH-LI	3.5 CY	1.23	EDVN345	1.20	EDVN345	1.16	NRWK345	1.18	1.18	1.15	1.13	1.14	1.12	1.22	1.20	1.16	1.11	1.09	1.06	1.23	1.20	1.16	1.08	1.07	1.07	1.03	1.03	1.02	1.06	1.06	1.05	1.10	1.10	1.08	1.08	1.08	1.06			
3ph fault	Edvn	Trip	Edvn-Bsck	17	50%	50%	50%	ALL IN	3.5 CY	1.32	NRWK345	1.32	NRWK345	1.29	NRWK345	1.29	1.29	1.26	1.24	1.24	1.23	1.32	1.32	1.29	1.11	1.11	1.10	1.17	1.12	1.32	1.29	1.11	1.11	1.10	1.06	1.05	1.05	1.10	1.12	1.11	1.24	1.23	1.22	1.16	1.17	1.16		
3ph fault	Edvn	Trip	Edvn-Bsck	18	50%	50%	50%	PL-LM	3.5 CY	1.23	PLUM345	1.19	EDVN345	1.09	BSCK345	1.22	1.13	1.09	1.18	1.10	1.06	1.22	1.13	1.09	1.11	1.07	1.04	1.22	1.14	1.08	1.10	1.10	1.09	1.04	1.02	1.01	1.08	1.06	1.06	1.17	1.09	1.04	1.12	1.06	1.03			
3ph fault	Edvn	Trip	Edvn-Bsck	19	50%	50%	50%	LM-PV	3.5 CY	1.34	NRWK345	1.16	NRWK345	1.13	NRWK345	1.23	1.13	1.11	1.19	1.10	1.08	1.25	1.16	1.13	1.13	1.08	1.07	1.24	1.16	1.13	1.10	1.09	1.08	1.04	1.03	1.02	1.08	1.06	1.05	1.10	1.07	1.12	1.07	1.12	1.06			
3ph fault	Edvn	Trip	Edvn-Bsck	20	50%	50%	50%	NH-LI	3.5 CY	1.20	NRWK345	1.15	EDVN345	1.11	EDVN345	1.18	1.13	1.10	1.12	1.10	1.07	1.20	1.14	1.11	1.07	1.05	1.02	1.19	1.15	1.11	1.09	1.09	1.08	1.03	1.02	1.01	1.07	1.06	1.05	1.10	1.09	1.06	1.07	1.07	1.04			
3ph fault	Edvn	Trip	Edvn-Bsck	21	70%	70%	70%	ALL IN	3.5 CY	1.30	ROCKY115	1.29	ROCKY115	1.27	ROCKY115	1.24	1.22	1.18	1.22	1.21	1.18	1.24	1.21	1.17	1.13	1.12	1.10	1.23	1.20	1.17	1.17	1.15	1.14	1.10	1.09	1.08	1.21	1.19	1.17	1.22	1.23	1.19	1.30	1.29	1.27			
3ph fault	Edvn	Trip	Edvn-Bsck	22	70%	70%	70%	PL-LM	3.5 CY	1.27	PLUM345	1.13	ROCKY115	1.12	FRBG115	1.27	1.09	1.04	1.24	1.08	1.04	1.23	1.08	1.03	1.11	1.02	1.00	1.21	1.07	1.04	1.12	1.12	1.12	1.12	1.04	1.02	1.01	1.11	1.10	1.12	1.18	1.08	1.03	1.23	1.13	1.11		
3ph fault	Edvn	Trip	Edvn-Bsck	23	70%	70%	70%	LM-PV	3.5 CY	1.26	ROCKY115	1.21	ROCKY115	1.19	ROCKY115	1.16	1.13	1.10	1.15	1.12	1.09	1.16	1.11	1.08	1.08	1.05	1.03	1.16	1.11	1.08	1.13	1.11	1.10	1.06	1.04	1.03	1.17	1.13	1.11	1.16	1.13	1.10	1.26	1.21	1.19			
3ph fault	Edvn	Trip	Edvn-Bsck	24	70%	70%	70%	NH-LI	3.5 CY	1.28	ROCKY115	1.17	ROCKY115	1.17	ROCKY115	1.16	1.11	1.08	1.14	1.10	1.06	1.15	1.09	1.05	1.04	1.01	0.98	1.15	1.09	1.05	1.13	1.11	1.11	1.05	1.03	1.02	1.15	1.12	1.10	1.15	1.11	1.08	1.28	1.21	1.17			
2ph fault	Edvn	Trip	Edvn-Bsck	1	40%	40%	40%	ALL IN	4.0 CY	1.47	EDVN345	1.44	EDVN345	1.40	EDVN345	1.40	1.38	1.35	1.33	1.30	1.46	1.43	1.39	1.30	1.28	1.25	1.47	1.44	1.40	1.14	1.13	1.12	1.13	1.11	1.10	1.17	1.16	1.14	1.30	1.28	1.26	1.25	1.23	1.21				
2ph fault	Edvn	Trip	Edvn-Bsck	2	40%	40%	40%	PL-LM	4.0 CY	1.42	PLUM345	1.24	PLUM345	1.42	PLUM345																																	

CASE #: GE - B-N 1 HPFF, M-N 2XLPE (OLD CASE 5)

DATE: 12/6/2004

DONE BY: E. R. PRATICO, GE ENERGY

NOTE: 2C is 0.13 - 0.17 s, 4C is 0.17 - 0.21 s, 6C is 0.21 - 0.25 s (max. voltage - pu)

Table with columns: SWITCHING EVENT, SYSTEM CONDITIONS, MAXIMUM TOV, TOV (PLUM345, PLUM115, NRWK345, NRWK115, EDVN345, BSCCK345, ESHR115, FRBG115, STONY115, ROCKY115). Rows list various fault events like '3ph fault Nwkw Trip Nwkw-Plum' with associated parameters and TOV values.

CASE #: GE - B-N 1 HPFF, M-N 2XLPE (OLD CASE 5)

DATE: 12/6/2004

DONE BY: E. R. PRATICO, GE ENERGY

NOTE: 2C is 0.13 - 0.17 s, 4C is 0.17 - 0.21 s, 6C is 0.21 - 0.25 s (max. voltage - pu)

SWITCHING EVENT		SYSTEM CONDITIONS										MAXIMUM TOV												TOV																				
TYPE	LOCATION	SIM CASE	LOAD LEVEL	SHUNT CAPS	REACS	LINE OUT	FAULT CLEAR	2C	LOCATION	4C	LOCATION	6C	LOCATION	PLUM345		PLUM115		NRWK345		NRWK115		EDVN345		BSCCK345			ESHR115			FRBG115			STONY115			ROCKY115								
														2C	4C	6C	2C	4C	6C	2C	4C	6C	2C	4C	6C	2C	4C	6C	2C	4C	6C	2C	4C	6C	2C	4C	6C							
1ph fault Sngr	Trip Sngr-Edvn	7	50%	50%	50%	ED-BS	4.0 CY	1.29	EDVN345	1.32	NRWK345	1.29	NRWK345	1.26	1.30	1.27	1.23	1.25	1.23	1.29	1.32	1.29	1.19	1.21	1.20	1.29	1.31	1.29	1.11	1.12	1.11	1.08	1.09	1.08	1.13	1.14	1.13	1.19	1.21	1.20	1.15	1.17	1.16	
1ph fault Sngr	Trip Sngr-Edvn	8	50%	50%	50%	PL-LM	4.0 CY	1.27	PLUM345	1.29	PLUM345	1.24	PLUM345	1.27	1.29	1.24	1.21	1.22	1.19	1.26	1.27	1.22	1.16	1.17	1.14	1.23	1.24	1.20	1.12	1.13	1.11	1.07	1.07	1.05	1.09	1.09	1.07	1.18	1.18	1.15	1.13	1.13	1.11	
1ph fault Sngr	Trip Sngr-Edvn	9	50%	50%	50%	LM-PV	4.0 CY	1.24	PLUM345	1.23	PLUM345	1.20	PLUM345	1.24	1.23	1.20	1.19	1.18	1.16	1.23	1.22	1.20	1.14	1.13	1.11	1.22	1.21	1.20	1.12	1.12	1.12	1.12	1.05	1.04	1.03	1.10	1.09	1.08	1.16	1.17	1.15	1.11	1.12	1.11
1ph fault Sngr	Trip Sngr-Edvn	10	50%	50%	50%	NH-LI	4.0 CY	1.17	PLUM345	1.18	NRWK345	1.18	NRWK345	1.17	1.18	1.18	1.12	1.13	1.13	1.16	1.18	1.18	1.08	1.08	1.08	1.15	1.17	1.18	1.10	1.11	1.04	1.04	1.04	1.07	1.07	1.07	1.11	1.13	1.13	1.17	1.10	1.10	1.10	1.10
1ph fault Sngr	Trip Sngr-Edvn	11	70%	70%	70%	ALL-IN	4.0 CY	1.36	ROCKY115	1.32	ROCKY115	1.32	ROCKY115	1.20	1.17	1.16	1.19	1.16	1.15	1.16	1.15	1.14	1.11	1.09	1.09	1.16	1.14	1.13	1.14	1.13	1.13	1.07	1.06	1.06	1.18	1.16	1.16	1.21	1.18	1.16	1.36	1.32	1.31	
1ph fault Sngr	Trip Sngr-Edvn	12	70%	70%	70%	ED-BS	4.0 CY	1.30	ROCKY115	1.26	ROCKY115	1.24	ROCKY115	1.20	1.15	1.12	1.20	1.14	1.12	1.17	1.13	1.11	1.10	1.07	1.06	1.17	1.12	1.10	1.14	1.14	1.13	1.07	1.07	1.07	1.18	1.16	1.14	1.20	1.15	1.14	1.30	1.26	1.24	
1ph fault Sngr	Trip Sngr-Edvn	13	70%	70%	70%	PL-LM	4.0 CY	1.31	ROCKY115	1.26	ROCKY115	1.22	ROCKY115	1.20	1.14	1.11	1.19	1.13	1.11	1.16	1.12	1.10	1.10	1.08	1.06	1.16	1.12	1.11	1.14	1.14	1.13	1.06	1.06	1.05	1.15	1.13	1.12	1.19	1.14	1.13	1.31	1.26	1.23	
1ph fault Sngr	Trip Sngr-Edvn	14	70%	70%	70%	LM-PV	4.0 CY	1.35	ROCKY115	1.26	ROCKY115	1.22	ROCKY115	1.17	1.12	1.10	1.16	1.11	1.09	1.14	1.11	1.09	1.09	1.07	1.05	1.14	1.11	1.09	1.12	1.11	1.10	1.05	1.04	1.04	1.18	1.13	1.12	1.18	1.13	1.11	1.35	1.26	1.22	
1ph fault Sngr	Trip Sngr-Edvn	15	70%	70%	70%	NH-LI	4.0 CY	1.28	ROCKY115	1.24	ROCKY115	1.22	ROCKY115	1.16	1.11	1.10	1.14	1.09	1.10	1.12	1.09	1.10	1.08	1.02	1.02	1.12	1.09	1.08	1.12	1.11	1.10	1.04	1.04	1.03	1.15	1.12	1.12	1.15	1.11	1.11	1.28	1.24	1.22	
1ph fault Sngr	Trip Sngr-Edvn	16	40%	40%	40%	ALL-IN	3.5 CY	1.23	NRWK345	1.26	NRWK345	1.27	NRWK345	1.20	1.24	1.25	1.16	1.20	1.21	1.23	1.26	1.27	1.16	1.18	1.18	1.22	1.26	1.26	1.14	1.15	1.15	1.08	1.08	1.08	1.11	1.12	1.12	1.14	1.17	1.17	1.12	1.14	1.14	
1ph fault Sngr	Trip Sngr-Edvn	17	40%	40%	40%	ED-BS	3.5 CY	1.37	EDVN345	1.38	EDVN345	1.35	NRWK345	1.30	1.31	1.29	1.25	1.26	1.24	1.36	1.38	1.35	1.23	1.25	1.23	1.37	1.38	1.35	1.10	1.10	1.10	1.09	1.09	1.08	1.12	1.13	1.12	1.22	1.23	1.21	1.17	1.18	1.16	
1ph fault Sngr	Trip Sngr-Edvn	18	40%	40%	40%	PL-LM	3.5 CY	1.35	PLUM345	1.35	PLUM345	1.29	NRWK345	1.35	1.35	1.29	1.28	1.28	1.23	1.35	1.34	1.29	1.22	1.21	1.17	1.32	1.32	1.26	1.15	1.14	1.12	1.08	1.08	1.05	1.10	1.10	1.07	1.24	1.19	1.18	1.17	1.13	1.13	
1ph fault Sngr	Trip Sngr-Edvn	19	40%	40%	40%	LM-PV	3.5 CY	1.28	NRWK345	1.28	NRWK345	1.25	NRWK345	1.26	1.26	1.25	1.20	1.18	1.28	1.28	1.25	1.17	1.16	1.15	1.27	1.26	1.24	1.13	1.13	1.11	1.06	1.06	1.04	1.11	1.11	1.09	1.17	1.16	1.14	1.14	1.14	1.14	1.11	1.11
1ph fault Sngr	Trip Sngr-Edvn	20	40%	40%	40%	NH-LI	3.5 CY	1.19	NRWK345	1.20	NRWK345	1.20	NRWK345	1.18	1.20	1.20	1.12	1.14	1.19	1.20	1.20	1.12	1.12	1.12	1.19	1.20	1.19	1.11	1.11	1.11	1.05	1.05	1.04	1.07	1.07	1.10	1.11	1.11	1.08	1.08	1.08	1.08	1.08	
1ph fault Sngr	Trip Sngr-Edvn	21	50%	50%	50%	ALL-IN	3.5 CY	1.24	NRWK345	1.26	NRWK345	1.27	NRWK345	1.24	1.25	1.25	1.20	1.22	1.22	1.24	1.26	1.27	1.17	1.18	1.18	1.23	1.25	1.26	1.15	1.16	1.16	1.09	1.10	1.10	1.13	1.14	1.14	1.19	1.22	1.22	1.15	1.17	1.17	
1ph fault Sngr	Trip Sngr-Edvn	22	50%	50%	50%	ED-BS	3.5 CY	1.31	NRWK345	1.31	NRWK345	1.25	NRWK345	1.29	1.29	1.23	1.25	1.25	1.20	1.31	1.31	1.25	1.21	1.21	1.17	1.31	1.31	1.25	1.12	1.11	1.10	1.09	1.09	1.07	1.14	1.13	1.11	1.21	1.21	1.17	1.17	1.17	1.14	
1ph fault Sngr	Trip Sngr-Edvn	23	50%	50%	50%	PL-LM	3.5 CY	1.28	PLUM345	1.26	PLUM345	1.19	PLUM345	1.28	1.26	1.19	1.21	1.20	1.16	1.26	1.24	1.18	1.16	1.15	1.11	1.23	1.22	1.16	1.12	1.12	1.11	1.06	1.05	1.03	1.09	1.08	1.07	1.18	1.17	1.11	1.13	1.12	1.08	
1ph fault Sngr	Trip Sngr-Edvn	24	50%	50%	50%	NH-LI	4.0 CY	1.23	NRWK345	1.21	NRWK345	1.18	NRWK345	1.23	1.21	1.17	1.18	1.16	1.13	1.22	1.21	1.18	1.13	1.11	1.09	1.21	1.20	1.17	1.12	1.12	1.11	1.04	1.03	1.03	1.09	1.08	1.07	1.18	1.16	1.12	1.13	1.11	1.09	
1ph fault Sngr	Trip Sngr-Edvn	25	50%	50%	50%	NH-LI	4.0 CY	1.23	NRWK345	1.23	NRWK345	1.19	NRWK345	1.19	1.18	1.18	1.14	1.14	1.13	1.18	1.18	1.09	1.08	1.07	1.18	1.18	1.17	1.11	1.11	1.10	1.04	1.04	1.03	1.08	1.08	1.07	1.14	1.14	1.13	1.10	1.10	1.09		
1ph fault Sngr	Trip Sngr-Edvn	26	70%	70%	70%	ALL-IN	3.5 CY	1.36	ROCKY115	1.31	ROCKY115	1.28	ROCKY115	1.18	1.15	1.14	1.17	1.15	1.13	1.15	1.14	1.12	1.10	1.09	1.08	1.15	1.14	1.12	1.14	1.13	1.12	1.06	1.06	1.06	1.18	1.16	1.15	1.20	1.17	1.16	1.36	1.31	1.28	
1ph fault Sngr	Trip Sngr-Edvn	27	70%	70%	70%	ED-BS	3.5 CY	1.27	ROCKY115	1.23	ROCKY115	1.21	ROCKY115	1.14	1.11	1.10	1.13	1.11	1.10	1.12	1.10	1.09	1.07	1.06	1.05	1.12	1.10	1.09	1.14	1.13	1.13	1.07	1.07	1.06	1.15	1.14	1.13	1.15	1.13	1.13	1.27	1.23	1.21	
1ph fault Sngr	Trip Sngr-Edvn	28	70%	70%	70%	PL-LM	3.5 CY	1.25	ROCKY115	1.23	ROCKY115	1.20	ROCKY115	1.13	1.10	1.08	1.12	1.10	1.09	1.11	1.10	1.08	1.07	1.06	1.05	1.12	1.11	1.09	1.12	1.12	1.11	1.06	1.05	1.04	1.13	1.12	1.11	1.13	1.12	1.11	1.25	1.23	1.20	
1ph fault Sngr	Trip Sngr-Edvn	29	70%	70%	70%	LM-PV	3.5 CY	1.24	ROCKY115	1.21	ROCKY115	1.18	ROCKY115	1.11	1.09	1.07	1.10	1.09	1.10	1.08	1.07	1.06	1.05	1.04	1.10	1.09	1.08	1.10	1.10	1.09	1.04	1.03	1.03	1.13	1.11	1.10	1.13	1.11	1.10	1.10	1.24	1.21	1.18	
1ph fault Sngr	Trip Sngr-Edvn	30	70%	70%	70%	NH-LI	3.5 CY	1.26	ROCKY115	1.23	ROCKY115	1.19	ROCKY115	1.11	1.09	1.07	1.10	1.08	1.07	1.09	1.08	1.06	1.03	1.01	1.01	1.08	1.07	1.11	1.10	1.09	1.04	1.03	1.03	1.13	1.12	1.11	1.10	1.10	1.26	1.23	1.19	1.19		
3ph fault Nwkw	Trip Nwkw Fault	1	40%	40%	40%	ALL-IN	4.0 CY	1.26	NRWK345	1.34	EDVN345	1.39	NRWK345	1.22	1.31	1.35	1.17	1.25	1.29	1.26	1.34	1.39	1.11	1.16	1.21	1.25	1.34	1.38	1.12	1.16	1.18	1.04	1.06	1.08	1.07	1.11	1.13	1.13	1.20	1.24	1.11	1.15	1.19	
3ph fault Nwkw	Trip Nwkw Fault	2	40%	40%	40%	ED-BS	4.0 CY	1.29	NRWK345	1.35	EDVN345	1.33	EDVN345	1.27	1.25	1.25	1.22	1.22	1.21	1.29	1.33	1.32	1.15	1.18	1.18	1.29	1.35	1.33	1.08	1.08	1.07	1.04	1.04	1.04	1.08									

CASE #: GE - B-N 1 HPFF, M-N 2XLPE (OLD CASE 5)

DATE: 12/6/2004

DONE BY: E. R. PRATICO, GE ENERGY

NOTE: 2C is 0.13 - 0.17 s, 4C is 0.17 - 0.21 s, 6C is 0.21 - 0.25 s (max. voltage - pu)

Table with columns: SWITCHING EVENT, SYSTEM CONDITIONS, MAXIMUM TOV, TOV (PLUM345, PLUM115, NRWK345, NRWK115, EDVN345, BSCK345, ESHR115, FRBG115, STONY115, ROCKY115). Rows list various fault types (2ph fault, 1ph fault, 3ph fault) and their corresponding system parameters and TOV values.

CASE #: GE - B-N 1 HPFF, M-N 2XLPE (OLD CASE 5)

DATE: 12/6/2004

DONE BY: E. R. PRATICO, GE ENERGY

NOTE: 2C is 0.13 - 0.17 s, 4C is 0.17 - 0.21 s, 6C is 0.21 - 0.25 s (max. voltage - pu)

SWITCHING EVENT		SYSTEM CONDITIONS							MAXIMUM TOV						TOV																												
TYPE	LOCATION	SIM CASE	LOAD LEVEL	SHUNT CAPS	REACTS	LINE OUT	FAULT CLEAR	2C	LOCATION	4C	LOCATION	6C	LOCATION	PLUM345		PLUM115		NRWK345		NRWK115		EDVN345		BSCK345		ESHR115		FRBG115		STONY115		ROCKY115											
														1C	2C	3C	4C	5C	6C	7C	8C	9C	10C	11C	12C	13C	14C	15C	16C	17C	18C	19C	20C										
2ph fault Plum	Trip Plum Fault	13	70%	70%	70%	PL-LM	4.0 CY	1.24	ROCKY115	1.18	ROCKY115	1.14	ROCKY115	2.18	1.13	1.12	1.17	1.12	1.10	1.11	1.09	1.07	1.06	1.17	1.13	1.11	1.14	1.13	1.12	1.20	1.11	1.10	1.24	1.18	1.14								
2ph fault Plum	Trip Plum Fault	14	70%	70%	70%	LM-PV	4.0 CY	1.29	ROCKY115	1.19	ROCKY115	1.15	ROCKY115	1.19	1.14	1.12	1.17	1.12	1.10	1.18	1.14	1.12	1.10	1.07	1.06	1.18	1.14	1.12	1.21	1.14	1.11	1.29	1.19	1.17	1.19	1.15							
2ph fault Plum	Trip Plum Fault	15	70%	70%	70%	NH-LI	4.0 CY	1.27	ROCKY115	1.19	ROCKY115	1.17	ROCKY115	1.16	1.13	1.12	1.16	1.11	1.10	1.14	1.12	1.11	1.06	1.04	1.03	1.15	1.12	1.11	1.13	1.12	1.19	1.12	1.11	1.27	1.19	1.17							
2ph fault Plum	Trip Plum Fault	16	40%	40%	40%	ALL IN	3.5 CY	1.12	NRWK345	1.14	NRWK345	1.14	NRWK345	1.11	1.13	1.13	1.07	1.10	1.12	1.14	1.14	1.07	1.08	1.08	1.11	1.13	1.13	1.08	1.08	1.02	1.02	1.02	1.04	1.05	1.05	1.07	1.08	1.03	1.05	1.05			
2ph fault Plum	Trip Plum Fault	17	40%	40%	40%	ED-BS	3.5 CY	1.12	EDVN345	1.12	EDVN345	1.11	EDVN345	1.12	1.10	1.09	1.09	1.08	1.08	1.12	1.12	1.11	1.07	1.07	1.06	1.12	1.12	1.11	1.07	1.07	1.03	1.02	1.02	1.05	1.04	1.04	1.05	1.04	1.03				
2ph fault Plum	Trip Plum Fault	18	40%	40%	40%	PL-LM	3.5 CY	1.12	EDVN345	1.11	EDVN345	1.10	EDVN345	1.10	1.10	1.09	1.08	1.07	1.06	1.12	1.11	1.10	1.07	1.06	1.12	1.11	1.10	1.08	1.08	1.02	1.02	1.02	1.04	1.04	1.04	1.04	1.04	1.04	1.03				
2ph fault Plum	Trip Plum Fault	19	40%	40%	40%	LM-PV	3.5 CY	1.10	EDVN345	1.10	EDVN345	1.09	EDVN345	1.09	1.08	1.07	1.06	1.05	1.05	1.10	1.10	1.09	1.05	1.06	1.10	1.10	1.10	1.09	1.07	1.07	1.02	1.01	1.01	1.03	1.03	1.02	1.04	1.03	1.02	1.01			
2ph fault Plum	Trip Plum Fault	20	40%	40%	40%	NH-LI	3.5 CY	1.07	PLUM345	1.08	EDVN345	1.08	EDVN345	1.07	1.07	1.06	1.04	1.04	1.04	1.04	1.04	1.01	1.01	1.07	1.08	1.06	1.06	1.06	1.00	1.00	1.00	1.02	1.02	1.02	1.02	1.01	1.01	1.01	1.01				
2ph fault Plum	Trip Plum Fault	21	50%	50%	50%	ALL IN	3.5 CY	1.11	STONY115	1.12	NRWK345	1.12	NRWK345	1.10	1.11	1.11	1.08	1.09	1.08	1.11	1.10	1.12	1.12	1.06	1.06	1.11	1.12	1.12	1.09	1.09	1.09	1.03	1.03	1.02	1.05	1.06	1.06	1.11	1.11	1.07	1.08		
2ph fault Plum	Trip Plum Fault	22	50%	50%	50%	ED-BS	3.5 CY	1.11	STONY115	1.11	STONY115	1.11	STONY115	1.11	1.11	1.10	1.09	1.09	1.08	1.11	1.09	1.08	1.06	1.05	1.05	1.10	1.09	1.08	1.09	1.09	1.03	1.03	1.03	1.07	1.07	1.06	1.11	1.11	1.11	1.08	1.08		
2ph fault Plum	Trip Plum Fault	23	50%	50%	50%	PL-LM	3.5 CY	1.11	STONY115	1.10	STONY115	1.09	STONY115	1.10	1.09	1.08	1.08	1.07	1.06	1.09	1.08	1.07	1.05	1.04	1.09	1.08	1.07	1.09	1.09	1.08	1.03	1.02	1.02	1.06	1.06	1.11	1.11	1.10	1.09	1.08	1.06		
2ph fault Plum	Trip Plum Fault	24	50%	50%	50%	LM-PV	3.5 CY	1.09	STONY115	1.09	STONY115	1.08	PLUM345	1.09	1.08	1.08	1.07	1.06	1.05	1.07	1.07	1.06	1.04	1.03	1.03	1.08	1.07	1.06	1.08	1.07	1.02	1.01	1.01	1.05	1.04	1.04	1.09	1.09	1.08	1.07	1.06		
2ph fault Plum	Trip Plum Fault	25	50%	50%	50%	NH-LI	3.5 CY	1.07	STONY115	1.08	PLUM345	1.08	PLUM345	1.07	1.08	1.08	1.06	1.06	1.05	1.06	1.06	1.00	1.00	1.00	1.06	1.06	1.07	1.07	1.01	1.01	1.01	1.04	1.04	1.04	1.07	1.08	1.08	1.05	1.06	1.05			
2ph fault Plum	Trip Plum Fault	26	70%	70%	70%	ALL IN	3.5 CY	1.15	ROCKY115	1.14	ROCKY115	1.12	ROCKY115	1.11	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.06	1.06	1.11	1.10	1.11	1.11	1.11	1.11	1.05	1.05	1.04	1.11	1.11	1.11	1.12	1.09	1.08	1.15	1.14	1.12
2ph fault Plum	Trip Plum Fault	27	70%	70%	70%	ED-BS	3.5 CY	1.18	ROCKY115	1.12	BSCK345	1.12	BSCK345	1.14	1.09	1.08	1.12	1.09	1.07	1.11	1.08	1.07	1.06	1.05	1.10	1.08	1.07	1.12	1.12	1.12	1.05	1.04	1.04	1.11	1.11	1.10	1.13	1.07	1.05	1.18	1.11	1.09	
2ph fault Plum	Trip Plum Fault	28	70%	70%	70%	PL-LM	3.5 CY	1.12	ROCKY115	1.10	BSCK345	1.10	BSCK345	1.09	1.09	1.06	1.08	1.08	1.06	1.05	1.09	1.06	1.06	1.05	1.03	1.03	1.10	1.10	1.10	1.10	1.10	1.04	1.03	1.03	1.10	1.10	1.09	1.06	1.04	1.12	1.09	1.08	
2ph fault Plum	Trip Plum Fault	29	70%	70%	70%	LM-PV	3.5 CY	1.13	ROCKY115	1.09	BSCK345	1.08	BSCK345	1.07	1.07	1.06	1.07	1.06	1.05	1.08	1.06	1.05	1.04	1.03	1.03	1.08	1.07	1.06	1.09	1.09	1.08	1.03	1.02	1.02	1.09	1.08	1.07	1.06	1.04	1.03	1.13	1.08	1.07
2ph fault Plum	Trip Plum Fault	30	70%	70%	70%	NH-LI	3.5 CY	1.10	ROCKY115	1.09	BSCK345	1.08	BSCK345	1.07	1.06	1.06	1.06	1.05	1.05	1.06	1.05	1.00	0.99	0.99	1.07	1.06	1.05	1.09	1.09	1.08	1.02	1.02	1.02	1.08	1.08	1.08	1.06	1.04	1.03	1.10	1.07	1.07	
1ph fault Plum	Trip Plum Fault	1	40%	40%	40%	ALL IN	4.0 CY	1.11	EDVN345	1.13	NRWK345	1.14	NRWK345	1.10	1.12	1.13	1.08	1.08	1.09	1.11	1.13	1.14	1.06	1.08	1.08	1.11	1.12	1.13	1.07	1.08	1.08	1.02	1.02	1.02	1.04	1.04	1.05	1.05	1.06	1.07	1.03	1.04	1.05
1ph fault Plum	Trip Plum Fault	2	40%	40%	40%	ED-BS	4.0 CY	1.15	PLUM345	1.12	EDVN345	1.11	EDVN345	1.15	1.11	1.10	1.10	1.08	1.08	1.14	1.12	1.11	1.08	1.07	1.06	1.14	1.12	1.11	1.07	1.07	1.03	1.03	1.02	1.05	1.05	1.04	1.08	1.06	1.05	1.06	1.05	1.04	1.03
1ph fault Plum	Trip Plum Fault	3	40%	40%	40%	PL-LM	4.0 CY	1.13	PLUM345	1.11	EDVN345	1.11	EDVN345	1.13	1.10	1.10	1.10	1.07	1.07	1.12	1.11	1.10	1.07	1.06	1.12	1.11	1.11	1.08	1.08	1.08	1.03	1.02	1.02	1.04	1.04	1.04	1.07	1.05	1.05	1.05	1.05	1.04	1.03
1ph fault Plum	Trip Plum Fault	4	40%	40%	40%	LM-PV	4.0 CY	1.09	PLUM345	1.10	EDVN345	1.09	EDVN345	1.09	1.10	1.08	1.07	1.06	1.05	1.09	1.05	1.05	1.09	1.10	1.09	1.07	1.07	1.07	1.07	1.02	1.02	1.01	1.03	1.03	1.03	1.05	1.04	1.03	1.03	1.03	1.03	1.02	1.02
1ph fault Plum	Trip Plum Fault	5	40%	40%	40%	NH-LI	4.0 CY	1.09	PLUM345	1.08	EDVN345	1.08	EDVN345	1.09	1.07	1.07	1.06	1.04	1.04	1.09	1.06	1.07	1.01	1.01	1.01	1.06	1.08	1.06	1.06	1.06	1.01	1.00	1.00	1.03	1.02	1.02	1.04	1.03	1.02	1.02	1.02	1.01	1.01
1ph fault Plum	Trip Plum Fault	6	50%	50%	50%	ALL IN	4.0 CY	1.10	STONY115	1.12	NRWK345	1.12	NRWK345	1.10	1.10	1.10	1.08	1.09	1.09	1.10	1.12	1.12	1.05	1.06	1.06	1.10	1.12	1.12	1.12	1.09	1.09	1.03	1.03	1.03	1.06	1.06	1.06	1.10	1.09	1.10	1.06	1.07	
1ph fault Plum	Trip Plum Fault	7	50%	50%	50%	ED-BS	4.0 CY	1.15	PLUM345	1.11	STONY115	1.11	STONY115	1.15	1.11	1.10	1.12	1.09	1.08	1.12	1.10	1.08	1.07	1.05	1.13	1.09	1.08	1.09	1.09	1.09	1.03	1.03	1.03	1.06	1.07	1.15	1.10	1.11	1.10	1.08	1.08	1.08	
1ph fault Plum	Trip Plum Fault	8	50%	50%	50%	PL-LM	4.0 CY	1.11	PLUM345	1.10	STONY115	1.10	STONY115	1.11	1.10	1.09	1.09	1.08	1.07	1.10	1.08	1.07	1.05	1.04	1.10	1.08	1.08	1.09	1.09	1.08	1.03	1.03	1.02	1.06	1.06	1.10	1.10	1.10	1.10	1.07	1.08	1.07	
1ph fault Plum	Trip Plum Fault	9	50%	50%	50%	LM-PV	4.0 CY	1.09	EDVN345	1.09	PLUM345	1.09	PLUM345	1.08	1.09	1.08	1.08	1.06	1.07	1.10	1.08	1.07	1.04	1.04	1.03	1.09	1.08	1.07	1.08	1.08	1.07	1.02	1.02	1.01	1.04	1.05	1.04	1.07	1.09	1.09	1.05	1.06	1.06
1ph fault Plum	Trip Plum Fault	10	40%	40%	40%	NH-LI	4.0 CY	1.07	STONY115	1.08	PLUM345	1.08	PLUM345	1.07	1.08	1.08	1.06	1.06	1.05	1.06	1.06	1.00																					

CASE #: GE - B-N 1 HPFF, M-N 2 XLPE (OLD CASE 5)

DATE: 12/6/2004

DONE BY: E. R. PRATICO, GE ENERGY

NOTE: 2C is 0.13 - 0.17 s, 4C is 0.17 - 0.21 s, 6C is 0.21 - 0.25 s (max. voltage - pu)

SWITCHING EVENT		SYSTEM CONDITIONS						MAXIMUM TOV						TOV																													
TYPE	LOCATION	SIM. CASE	LOAD LEVEL	SHUNT CAPS	LINE REACTS	FAULT CLEAR	2C	LOCATION	4C	LOCATION	6C	LOCATION	PLUM345			PLUM115			NRWK345			NRWK115			EDVN345			BSCK345			ESHR115			FRBG115			STONY115			ROCKY115			
													2C	4C	6C	2C	4C	6C	2C	4C	6C	2C	4C	6C	2C	4C	6C	2C	4C	6C	2C	4C	6C	2C	4C	6C	2C	4C	6C				
3ph fit Plm115	Trip Plum Fault	1	40%	40%	40%	ALL IN 4.0 CY	1.22	EDVN345	1.19	PLUM345	1.17	PLUM345	1.22	1.19	1.17	1.20	1.18	1.15	1.22	1.18	1.16	1.12	1.10	1.08	1.22	1.18	1.16	1.12	1.10	1.09	1.04	1.03	1.02	1.07	1.06	1.05	1.14	1.13	1.11	1.11	1.10	1.09	
3ph fit Plm115	Trip Plum Fault	2	40%	40%	40%	ED-BS 4.0 CY	1.19	PLUM345	1.16	EDVN345	1.16	EDVN345	1.19	1.15	1.13	1.17	1.13	1.12	1.19	1.16	1.16	1.10	1.08	1.09	1.19	1.16	1.16	1.07	1.07	1.07	1.02	1.02	1.02	1.05	1.04	1.04	1.12	1.09	1.08	1.09	1.07	1.05	
3ph fit Plm115	Trip Plum Fault	3	40%	40%	40%	PL-LM 4.0 CY	1.18	PLUM345	1.16	NRWK345	1.16	EDVN345	1.18	1.15	1.14	1.15	1.12	1.11	1.18	1.16	1.16	1.09	1.08	1.08	1.18	1.16	1.16	1.10	1.09	1.09	1.03	1.02	1.02	1.05	1.04	1.04	1.11	1.08	1.08	1.08	1.05	1.05	
3ph fit Plm115	Trip Plum Fault	4	40%	40%	40%	LM-PV 4.0 CY	1.17	NRWK345	1.15	NRWK345	1.14	NRWK345	1.16	1.12	1.12	1.13	1.09	1.09	1.17	1.15	1.14	1.08	1.07	1.07	1.16	1.14	1.14	1.09	1.08	1.08	1.03	1.02	1.01	1.01	1.04	1.03	1.03	1.08	1.06	1.06	1.04	1.04	1.04
3ph fit Plm115	Trip Plum Fault	5	40%	40%	40%	NH-LI 4.0 CY	1.16	PLUM345	1.14	EDVN345	1.13	EDVN345	1.16	1.12	1.11	1.16	1.11	1.09	1.15	1.13	1.13	1.06	1.04	1.04	1.15	1.14	1.13	1.08	1.08	1.07	1.01	1.01	1.01	1.03	1.03	1.02	1.11	1.07	1.05	1.08	1.04	1.03	
3ph fit Plm115	Trip Plum Fault	6	50%	50%	50%	ALL IN 4.0 CY	1.20	EDVN345	1.16	STONY115	1.15	PLUM345	1.19	1.15	1.15	1.14	1.12	1.13	1.19	1.15	1.15	1.11	1.08	1.08	1.20	1.16	1.15	1.12	1.11	1.11	1.04	1.03	1.03	1.08	1.08	1.08	1.17	1.16	1.15	1.13	1.12	1.11	1.11
3ph fit Plm115	Trip Plum Fault	7	50%	50%	50%	ED-BS 4.0 CY	1.17	NRWK345	1.14	EDVN345	1.13	NRWK345	1.16	1.13	1.13	1.17	1.11	1.11	1.17	1.13	1.13	1.09	1.07	1.07	1.17	1.14	1.13	1.10	1.09	1.09	1.04	1.03	1.02	1.09	1.07	1.07	1.16	1.12	1.10	1.12	1.09	1.07	
3ph fit Plm115	Trip Plum Fault	8	50%	50%	50%	PL-LM 4.0 CY	1.18	EDVN345	1.14	PLUM345	1.14	PLUM345	1.18	1.14	1.14	1.16	1.12	1.11	1.18	1.13	1.12	1.09	1.07	1.06	1.18	1.12	1.11	1.11	1.09	1.09	1.03	1.02	1.02	1.07	1.06	1.06	1.17	1.10	1.08	1.12	1.07	1.06	
3ph fit Plm115	Trip Plum Fault	9	50%	50%	50%	LM-PV 4.0 CY	1.15	EDVN345	1.12	PLUM345	1.11	PLUM345	1.15	1.12	1.11	1.14	1.09	1.08	1.15	1.11	1.10	1.07	1.05	1.05	1.15	1.10	1.10	1.10	1.08	1.08	1.02	1.01	1.01	1.07	1.05	1.05	1.13	1.06	1.05	1.10	1.04	1.03	
3ph fit Plm115	Trip Plum Fault	10	50%	50%	50%	NH-LI 4.0 CY	1.13	EDVN345	1.11	PLUM345	1.11	PLUM345	1.13	1.11	1.11	1.09	1.09	1.09	1.13	1.11	1.10	1.03	1.02	1.02	1.13	1.11	1.10	1.09	1.08	1.08	1.01	1.01	1.00	1.06	1.05	1.05	1.12	1.09	1.07	1.09	1.06	1.05	
3ph fit Plm115	Trip Plum Fault	11	70%	70%	70%	ALL IN 4.0 CY	1.35	ROCKY115	1.24	ROCKY115	1.22	ROCKY115	1.19	1.13	1.14	1.20	1.14	1.13	1.17	1.13	1.13	1.10	1.08	1.08	1.17	1.13	1.13	1.14	1.12	1.12	1.06	1.05	1.05	1.17	1.13	1.13	1.26	1.16	1.15	1.35	1.24	1.22	
3ph fit Plm115	Trip Plum Fault	12	70%	70%	70%	ED-BS 4.0 CY	1.26	ROCKY115	1.18	ROCKY115	1.16	ROCKY115	1.17	1.13	1.12	1.18	1.12	1.10	1.16	1.13	1.11	1.09	1.07	1.06	1.15	1.12	1.11	1.13	1.13	1.12	1.06	1.05	1.05	1.14	1.13	1.12	1.19	1.13	1.11	1.26	1.18	1.16	
3ph fit Plm115	Trip Plum Fault	13	70%	70%	70%	PL-LM 4.0 CY	1.24	ROCKY115	1.18	ROCKY115	1.16	ROCKY115	1.16	1.13	1.12	1.16	1.11	1.10	1.14	1.12	1.11	1.08	1.07	1.06	1.14	1.12	1.11	1.13	1.12	1.12	1.05	1.05	1.04	1.13	1.12	1.11	1.17	1.11	1.09	1.24	1.18	1.16	
3ph fit Plm115	Trip Plum Fault	14	70%	70%	70%	LM-PV 4.0 CY	1.22	ROCKY115	1.17	ROCKY115	1.15	ROCKY115	1.14	1.12	1.11	1.12	1.10	1.09	1.13	1.11	1.10	1.07	1.06	1.06	1.13	1.11	1.10	1.12	1.11	1.11	1.04	1.04	1.03	1.13	1.12	1.11	1.14	1.09	1.08	1.22	1.17	1.15	
3ph fit Plm115	Trip Plum Fault	15	70%	70%	70%	NH-LI 4.0 CY	1.25	ROCKY115	1.15	ROCKY115	1.14	ROCKY115	1.14	1.10	1.10	1.13	1.08	1.07	1.13	1.09	1.08	1.05	1.02	1.01	1.13	1.09	1.08	1.12	1.10	1.10	1.03	1.03	1.02	1.14	1.10	1.10	1.14	1.08	1.07	1.25	1.15	1.14	
3ph fit Plm115	Trip Plum Fault	16	40%	40%	40%	ALL IN 3.5 CY	1.19	NRWK345	1.18	PLUM345	1.17	PLUM345	1.18	1.18	1.17	1.15	1.16	1.15	1.19	1.18	1.16	1.11	1.09	1.08	1.19	1.17	1.16	1.10	1.09	1.09	1.03	1.02	1.02	1.06	1.05	1.04	1.10	1.11	1.11	1.07	1.08	1.08	
3ph fit Plm115	Trip Plum Fault	17	40%	40%	40%	ED-BS 3.5 CY	1.20	NRWK345	1.17	EDVN345	1.16	EDVN345	1.18	1.16	1.13	1.14	1.15	1.12	1.20	1.16	1.16	1.11	1.08	1.08	1.20	1.17	1.16	1.07	1.07	1.07	1.03	1.02	1.02	1.05	1.05	1.04	1.10	1.10	1.08	1.06	1.07	1.05	
3ph fit Plm115	Trip Plum Fault	18	40%	40%	40%	PL-LM 3.5 CY	1.17	NRWK345	1.15	PLUM345	1.15	EDVN345	1.16	1.15	1.15	1.13	1.13	1.13	1.17	1.15	1.15	1.09	1.08	1.08	1.16	1.15	1.15	1.09	1.09	1.09	1.03	1.02	1.02	1.05	1.04	1.04	1.10	1.09	1.09	1.06	1.07	1.07	
3ph fit Plm115	Trip Plum Fault	19	40%	40%	40%	LM-PV 3.5 CY	1.15	EDVN345	1.15	EDVN345	1.14	NRWK345	1.14	1.14	1.13	1.12	1.11	1.10	1.14	1.14	1.14	1.07	1.07	1.07	1.15	1.15	1.14	1.08	1.08	1.07	1.02	1.01	1.01	1.04	1.04	1.04	1.08	1.07	1.07	1.05	1.05	1.05	
3ph fit Plm115	Trip Plum Fault	20	40%	40%	40%	NH-LI 3.5 CY	1.14	PLUM345	1.14	EDVN345	1.13	EDVN345	1.14	1.13	1.11	1.12	1.12	1.10	1.13	1.13	1.13	1.04	1.04	1.04	1.13	1.14	1.13	1.07	1.07	1.07	1.00	1.00	1.00	1.02	1.02	1.02	1.08	1.08	1.05	1.05	1.05	1.03	
3ph fit Plm115	Trip Plum Fault	21	50%	50%	50%	ALL IN 3.5 CY	1.16	EDVN345	1.16	STONY115	1.16	STONY115	1.15	1.14	1.15	1.12	1.13	1.12	1.16	1.15	1.15	1.08	1.08	1.08	1.16	1.16	1.15	1.11	1.11	1.11	1.04	1.03	1.03	1.07	1.07	1.08	1.08	1.15	1.16	1.16	1.12	1.12	1.12
3ph fit Plm115	Trip Plum Fault	22	50%	50%	50%	ED-BS 3.5 CY	1.18	NRWK345	1.14	STONY115	1.13	NRWK345	1.15	1.13	1.12	1.11	1.10	1.09	1.18	1.14	1.13	1.09	1.07	1.07	1.17	1.14	1.13	1.09	1.09	1.09	1.03	1.03	1.03	1.08	1.07	1.07	1.15	1.14	1.11	1.11	1.11	1.09	
3ph fit Plm115	Trip Plum Fault	23	50%	50%	50%	PL-LM 3.5 CY	1.14	STONY115	1.13	PLUM345	1.13	PLUM345	1.13	1.13	1.13	1.11	1.09	1.09	1.14	1.12	1.11	1.07	1.06	1.05	1.14	1.12	1.11	1.10	1.10	1.09	1.03	1.03	1.02	1.06	1.06	1.06	1.14	1.12	1.09	1.10	1.09	1.06	
3ph fit Plm115	Trip Plum Fault	24	50%	50%	50%	LM-PV 3.5 CY	1.12	STONY115	1.11	EDVN345	1.11	PLUM345	1.12	1.11	1.11	1.09	1.08	1.07	1.12	1.11	1.10	1.06	1.05	1.04	1.12	1.11	1.10	1.09	1.09	1.08	1.02	1.02	1.02	1.05	1.05	1.05	1.12	1.08	1.05	1.09	1.06	1.04	
3ph fit Plm115	Trip Plum Fault	25	50%	50%	50%	NH-LI 3.5 CY	1.12	STONY115	1.11	PLUM345	1.11	PLUM345	1.11	1.11	1.11	1.08	1.08	1.08	1.10	1.11	1.10	1.02	1.02	1.02	1.11	1.11	1.10	1.08	1.08	1.08	1.01	1.01	1.01	1.05	1.05	1.05	1.12	1.11	1.08	1.09	1.08	1.06	
3ph fit Plm115	Trip Plum Fault	26	70%	70%	70%	ALL IN 3.5 CY	1.32	ROCKY115	1.25	ROCKY115	1.23	ROCKY115	1.16	1.14	1.13	1.17	1.15	1.14	1.15	1.13	1.13	1.09	1.08	1.08	1.16	1.13	1.13	1.13	1.13	1.12	1.06	1.05	1.05	1.16	1.13	1.13	1.23	1.16	1.16	1.32	1.25	1.23	
3ph fit Plm115	Trip Plum Fault	27	70%	70%	70%</																																						

CASE #: GE - B-N 1 HPFF, M-N 2 XLPE

REV. 1 DATE: 12/6/2004

DONE BY: E. R. PRATICO, GE ENERGY

SWITCHING EVENT		SYSTEM CONDITIONS						MAXIMUM TOV			TOV																				
TYPE	LOCATION	SIM. CASE	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	SYNC COND	2C	LOCATION	6C	LOCATION	PLUM345		PLUM115		NRWK345		NRWK115		EDVN345		BSCK345		ESHR115		FRBG115		STONY115		ROCKY115	
												2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
3ph fault Plum	Trip Plum-Lmnt	1	50%	50%	50%	ALL IN	0	1.26	PLUM345	1.15	PLUM345	1.26	1.15	1.20	1.12	1.23	1.15	1.12	1.08	1.23	1.15	1.13	1.11	1.05	1.04	1.08	1.08	1.19	1.12	1.14	1.09
3ph fault Plum	Trip Plum-Lmnt	2	50%	50%	50%	ED-BS	0	1.21	EDVN345	1.09	BSCK345	1.21	1.08	1.16	1.05	1.20	1.08	1.11	1.03	1.21	1.08	1.10	1.09	1.04	1.02	1.08	1.06	1.17	1.05	1.12	1.04
3ph fault Plum	Trip Plum-Lmnt	3	50%	50%	50%	LM-PV	0	1.25	PLUM345	1.12	PLUM345	1.25	1.12	1.21	1.08	1.23	1.12	1.12	1.06	1.23	1.12	1.13	1.09	1.04	1.02	1.07	1.06	1.18	1.06	1.12	1.04
3ph fault Plum	Trip Plum-Lmnt	4	50%	50%	50%	NH-LI	0	1.18	PLUM345	1.07	BSCK345	1.18	1.05	1.15	1.02	1.17	1.05	1.06	0.97	1.17	1.05	1.11	1.07	1.03	1.00	1.07	1.04	1.13	1.02	1.09	1.01
3ph fault Edvn	Trip Edvn-Bsck	1	50%	50%	50%	ALL IN	0	1.32	NRWK345	1.24	NRWK345	1.29	1.22	1.24	1.18	1.32	1.24	1.18	1.15	1.32	1.24	1.10	1.10	1.05	1.03	1.10	1.08	1.24	1.19	1.17	1.13
3ph fault Edvn	Trip Edvn-Bsck	2	50%	50%	50%	PL-LM	0	1.27	NRWK345	1.09	BSCK345	1.26	1.09	1.20	1.06	1.27	1.09	1.16	1.04	1.27	1.09	1.11	1.09	1.05	1.01	1.09	1.06	1.18	1.04	1.13	1.03
3ph fault Edvn	Trip Edvn-Bsck	3	50%	50%	50%	LM-PV	0	1.27	EDVN345	1.13	NRWK345	1.23	1.11	1.18	1.08	1.26	1.13	1.16	1.07	1.27	1.13	1.11	1.08	1.05	1.02	1.10	1.05	1.18	1.07	1.14	1.05
3ph fault Edvn	Trip Edvn-Bsck	4	50%	50%	50%	NH-LI	0	1.22	EDVN345	1.10	NRWK345	1.19	1.10	1.16	1.07	1.22	1.10	1.09	1.03	1.22	1.10	1.10	1.09	1.04	1.01	1.07	1.05	1.15	1.07	1.11	1.04
1ph fault Edvn	Trip Edvn-Bsck	1	50%	50%	50%	ALL IN	0	1.24	EDVN345	1.13	EDVN345	1.20	1.12	1.17	1.09	1.24	1.13	1.15	1.08	1.24	1.13	1.11	1.10	1.05	1.04	1.09	1.08	1.14	1.09	1.10	1.06
1ph fault Edvn	Trip Edvn-Bsck	2	50%	50%	50%	PL-LM	0	1.12	PLUM345	1.09	BSCK345	1.12	1.03	1.08	1.00	1.11	1.03	1.05	1.00	1.11	1.03	1.09	1.09	1.02	1.01	1.06	1.05	1.06	1.00	1.05	1.00
1ph fault Edvn	Trip Edvn-Bsck	3	50%	50%	50%	LM-PV	0	1.16	NRWK345	1.07	BSCK345	1.15	1.05	1.11	1.03	1.16	1.05	1.08	1.02	1.16	1.05	1.09	1.07	1.03	1.01	1.06	1.03	1.08	1.01	1.06	1.00
1ph fault Edvn	Trip Edvn-Bsck	4	50%	50%	50%	NH-LI	0	1.13	NRWK345	1.08	BSCK345	1.12	1.05	1.08	1.02	1.13	1.04	1.03	0.98	1.12	1.04	1.09	1.08	1.02	1.00	1.06	1.03	1.06	1.01	1.04	1.00
3ph fault Nrwk	Trip Nrwk-Plum	1	50%	50%	50%	ALL IN	0	1.22	NRWK345	1.19	NRWK345	1.17	1.16	1.16	1.15	1.22	1.19	1.13	1.13	1.21	1.19	1.13	1.13	1.08	1.08	1.09	1.07	1.16	1.15	1.12	1.09
3ph fault Nrwk	Trip Nrwk-Plum	2	50%	50%	50%	ED-BS	0	1.26	EDVN345	1.22	EDVN345	1.15	1.12	1.12	1.08	1.25	1.22	1.14	1.10	1.26	1.22	1.11	1.09	1.05	1.03	1.09	1.07	1.14	1.10	1.10	1.07
3ph fault Nrwk	Trip Nrwk-Plum	3	50%	50%	50%	PL-LM	0	1.19	EDVN345	1.17	EDVN345	1.10	1.03	1.10	1.03	1.18	1.16	1.10	1.10	1.19	1.17	1.12	1.12	1.07	1.07	1.06	1.11	1.09	1.08	1.07	
3ph fault Nrwk	Trip Nrwk-Plum	4	50%	50%	50%	LM-PV	0	1.17	EDVN345	1.13	EDVN345	1.11	1.09	1.10	1.07	1.17	1.13	1.08	1.07	1.17	1.13	1.10	1.08	1.05	1.04	1.07	1.04	1.11	1.10	1.08	1.06
3ph fault Nrwk	Trip Nrwk-Plum	5	50%	50%	50%	NH-LI	0	1.15	EDVN345	1.12	PLUM345	1.13	1.12	1.10	1.09	1.15	1.08	1.05	0.99	1.15	1.09	1.11	1.08	1.03	1.00	1.08	1.04	1.13	1.08	1.10	1.05
3ph fault Sngr	Trip Sngr-Edvn	1	50%	50%	50%	ALL IN	0	1.28	NRWK345	1.28	NRWK345	1.28	1.28	1.24	1.24	1.28	1.28	1.16	1.16	1.27	1.27	1.15	1.15	1.06	1.06	1.12	1.12	1.26	1.26	1.18	1.18
3ph fault Sngr	Trip Sngr-Edvn	2	50%	50%	50%	ED-BS	0	1.32	NRWK345	1.30	NRWK345	1.29	1.28	1.26	1.24	1.32	1.30	1.19	1.19	1.31	1.29	1.12	1.11	1.08	1.08	1.14	1.13	1.25	1.24	1.20	1.19
3ph fault Sngr	Trip Sngr-Edvn	3	50%	50%	50%	PL-LM	0	1.31	PLUM345	1.27	PLUM345	1.31	1.27	1.27	1.24	1.27	1.25	1.16	1.14	1.25	1.23	1.13	1.12	1.05	1.04	1.10	1.09	1.26	1.22	1.19	1.15
3ph fault Sngr	Trip Sngr-Edvn	4	50%	50%	50%	LM-PV	0	1.26	PLUM345	1.26	PLUM345	1.26	1.26	1.22	1.22	1.25	1.25	1.13	1.13	1.24	1.24	1.13	1.13	1.03	1.03	1.09	1.09	1.22	1.22	1.16	1.16
3ph fault Sngr	Trip Sngr-Edvn	5	50%	50%	50%	NH-LI	0	1.22	NRWK345	1.22	NRWK345	1.22	1.22	1.17	1.17	1.28	1.20	1.15	1.12	1.28	1.21	1.10	1.10	1.04	1.03	1.11	1.08	1.21	1.16	1.16	1.12
3ph fault Nrwk	Trip Nrwk Fault	1	50%	50%	50%	ALL IN	0	1.35	NRWK345	1.35	NRWK345	1.35	1.35	1.32	1.32	1.35	1.35	1.21	1.21	1.35	1.34	1.18	1.17	1.09	1.09	1.16	1.16	1.31	1.31	1.25	1.25
3ph fault Nrwk	Trip Nrwk Fault	2	50%	50%	50%	ED-BS	0	1.28	EDVN345	1.21	EDVN345	1.25	1.19	1.21	1.17	1.28	1.20	1.15	1.12	1.28	1.21	1.10	1.10	1.04	1.03	1.11	1.08	1.21	1.16	1.16	1.12
3ph fault Nrwk	Trip Nrwk Fault	3	50%	50%	50%	PL-LM	0	1.23	PLUM345	1.18	PLUM345	1.23	1.18	1.19	1.15	1.22	1.18	1.13	1.09	1.22	1.18	1.12	1.11	1.04	1.03	1.08	1.07	1.19	1.14	1.12	1.09
3ph fault Nrwk	Trip Nrwk Fault	4	50%	50%	50%	LM-PV	0	1.25	NRWK345	1.19	NRWK345	1.24	1.18	1.20	1.15	1.25	1.19	1.14	1.10	1.25	1.19	1.13	1.11	1.04	1.03	1.10	1.08	1.22	1.15	1.15	1.10
3ph fault Nrwk	Trip Nrwk Fault	5	50%	50%	50%	NH-LI	0	1.23	NRWK345	1.21	EDVN345	1.23	1.20	1.20	1.17	1.23	1.21	1.11	1.09	1.23	1.21	1.11	1.10	1.03	1.02	1.09	1.08	1.20	1.18	1.14	1.13
3ph fault Plum	Trip Plum Fault	1	50%	50%	50%	ALL IN	0	1.37	EDVN345	1.29	NRWK345	1.33	1.28	1.29	1.25	1.36	1.29	1.22	1.18	1.37	1.29	1.20	1.15	1.11	1.08	1.15	1.11	1.34	1.21	1.26	1.16
3ph fault Plum	Trip Plum Fault	2	50%	50%	50%	ED-BS	0	1.31	EDVN345	1.18	EDVN345	1.29	1.16	1.24	1.14	1.30	1.18	1.17	1.11	1.31	1.18	1.10	1.10	1.06	1.04	1.10	1.08	1.23	1.12	1.17	1.10
3ph fault Plum	Trip Plum Fault	3	50%	50%	50%	PL-LM	0	1.23	PLUM345	1.15	PLUM345	1.23	1.15	1.20	1.11	1.22	1.13	1.11	1.06	1.22	1.13	1.13	1.10	1.04	1.03	1.08	1.07	1.17	1.09	1.12	1.07
3ph fault Plum	Trip Plum Fault	4	50%	50%	50%	LM-PV	0	1.25	PLUM345	1.15	PLUM345	1.25	1.15	1.23	1.11	1.25	1.14	1.13	1.06	1.25	1.14	1.12	1.10	1.04	1.03	1.10	1.06	1.21	1.08	1.17	1.06
3ph fault Plum	Trip Plum Fault	5	50%	50%	50%	NH-LI	0	1.31	EDVN345	1.17	EDVN345	1.28	1.16	1.22	1.13	1.31	1.17	1.15	1.06	1.31	1.17	1.15	1.10	1.06	1.02	1.10	1.07	1.23	1.12	1.17	1.09

CASE #: GE - B-N 1 HPFF, M-N 2 XLPE

REV. 1 DATE: 12/6/2004

DONE BY: E. R. PRATICO, GE ENERGY

SWITCHING EVENT		SYSTEM CONDITIONS						MAXIMUM TOV						TOV																	
TYPE	LOCATION	SIM. CASE	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	SYNC COND	2C	LOCATION	6C	LOCATION	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C		
3ph fault Plum	Trip Plum-Lmnt	5	70%	70%	70%	ALL IN	0	1.30	ROCKY115	1.18	ROCKY115	1.24	1.16	1.27	1.14	1.21	1.14	1.12	1.08	1.21	1.15	1.15	1.13	1.08	1.05	1.14	1.11	1.25	1.14	1.30	1.18
3ph fault Plum	Trip Plum-Lmnt	6	70%	70%	70%	ED-BS	0	1.31	PLUM345	1.18	ROCKY115	1.31	1.07	1.28	1.06	1.27	1.06	1.14	1.02	1.27	1.06	1.13	1.12	1.06	1.02	1.14	1.13	1.24	1.04	1.29	1.18
3ph fault Plum	Trip Plum-Lmnt	7	70%	70%	70%	LM-PV	0	1.29	ROCKY115	1.14	PLUM345	1.22	1.14	1.23	1.12	1.20	1.12	1.12	1.06	1.20	1.12	1.14	1.11	1.06	1.04	1.12	1.08	1.26	1.10	1.29	1.14
3ph fault Plum	Trip Plum-Lmnt	8	70%	70%	70%	NH-LI	0	1.20	ROCKY115	1.10	ROCKY115	1.13	1.05	1.11	1.03	1.12	1.03	1.02	0.96	1.12	1.04	1.10	1.08	1.03	1.00	1.10	1.08	1.12	1.02	1.20	1.10
3ph fault Edvn	Trip Edvn-Bsck	5	70%	70%	70%	ALL IN	0	1.34	ROCKY115	1.28	ROCKY115	1.30	1.17	1.26	1.17	1.29	1.16	1.17	1.09	1.29	1.16	1.15	1.14	1.10	1.07	1.20	1.15	1.27	1.18	1.34	1.28
3ph fault Edvn	Trip Edvn-Bsck	6	70%	70%	70%	PL-LM	0	1.31	PLUM345	1.12	Bsck345	1.31	1.03	1.30	1.03	1.27	1.02	1.14	0.99	1.26	1.02	1.13	1.12	1.05	1.01	1.12	1.11	1.23	1.02	1.24	1.09
3ph fault Edvn	Trip Edvn-Bsck	7	70%	70%	70%	LM-PV	0	1.31	ROCKY115	1.16	ROCKY115	1.22	1.09	1.17	1.08	1.19	1.08	1.10	1.03	1.18	1.08	1.13	1.10	1.06	1.03	1.16	1.10	1.18	1.09	1.31	1.16
3ph fault Edvn	Trip Edvn-Bsck	8	70%	70%	70%	NH-LI	0	1.28	ROCKY115	1.15	ROCKY115	1.18	1.07	1.15	1.06	1.18	1.04	1.07	0.98	1.19	1.04	1.13	1.10	1.05	1.02	1.16	1.09	1.16	1.07	1.28	1.15
1ph fault Edvn	Trip Edvn-Bsck	5	70%	70%	70%	ALL IN	0	1.26	ROCKY115	1.18	ROCKY115	1.15	1.10	1.15	1.09	1.14	1.08	1.07	1.05	1.13	1.08	1.13	1.12	1.07	1.05	1.14	1.11	1.16	1.10	1.26	1.18
1ph fault Edvn	Trip Edvn-Bsck	6	70%	70%	70%	PL-LM	0	1.22	ROCKY115	1.11	Bsck345	1.17	0.98	1.15	0.98	1.14	0.98	1.05	0.97	1.14	0.98	1.12	1.11	1.03	1.01	1.12	1.07	1.14	0.99	1.22	1.04
1ph fault Edvn	Trip Edvn-Bsck	7	70%	70%	70%	LM-PV	0	1.17	PLUM345	1.09	Bsck345	1.17	1.02	1.14	1.01	1.13	1.01	1.06	0.99	1.12	1.01	1.11	1.09	1.03	1.01	1.13	1.05	1.12	1.02	1.16	1.08
1ph fault Edvn	Trip Edvn-Bsck	8	70%	70%	70%	NH-LI	0	1.17	ROCKY115	1.09	Bsck345	1.08	1.02	1.08	1.00	1.06	1.00	0.99	0.95	1.05	0.99	1.10	1.09	1.02	1.00	1.09	1.05	1.09	1.01	1.17	1.07
3ph fault Nrwk	Trip Nrwk-Plum	6	70%	70%	70%	ALL IN	0	1.61	ROCKY115	1.61	ROCKY115	1.27	1.27	1.29	1.29	1.18	1.14	1.10	1.08	1.19	1.14	1.15	1.13	1.08	1.05	1.23	1.23	1.37	1.33	1.61	1.61
3ph fault Nrwk	Trip Nrwk-Plum	7	70%	70%	70%	ED-BS	0	1.58	ROCKY115	1.33	ROCKY115	1.24	1.19	1.23	1.19	1.18	1.14	1.09	1.07	1.18	1.15	1.16	1.13	1.07	1.04	1.24	1.16	1.30	1.19	1.58	1.33
3ph fault Nrwk	Trip Nrwk-Plum	8	70%	70%	70%	PL-LM	0	1.33	ROCKY115	1.24	ROCKY115	1.18	1.16	1.19	1.16	1.15	1.11	1.10	1.04	1.15	1.11	1.12	1.11	1.04	1.14	1.12	1.20	1.15	1.33	1.24	
3ph fault Nrwk	Trip Nrwk-Plum	9	70%	70%	70%	LM-PV	0	1.46	ROCKY115	1.34	ROCKY115	1.21	1.17	1.21	1.17	1.22	1.07	1.14	1.06	1.21	1.07	1.15	1.10	1.06	1.03	1.21	1.17	1.26	1.19	1.46	1.34
3ph fault Nrwk	Trip Nrwk-Plum	10	70%	70%	70%	NH-LI	0	1.52	ROCKY115	1.43	ROCKY115	1.23	1.19	1.22	1.17	1.11	1.06	1.05	0.99	1.11	1.07	1.11	1.09	1.04	1.02	1.19	1.17	1.28	1.22	1.52	1.43
3ph fault Sngr	Trip Sngr-Edvn	6	70%	70%	70%	ALL IN	0	1.41	ROCKY115	1.40	ROCKY115	1.26	1.22	1.25	1.22	1.21	1.19	1.15	1.13	1.20	1.17	1.16	1.14	1.08	1.06	1.21	1.20	1.28	1.25	1.41	1.40
3ph fault Sngr	Trip Sngr-Edvn	7	70%	70%	70%	ED-BS	0	1.30	ROCKY115	1.28	ROCKY115	1.25	1.17	1.23	1.17	1.23	1.15	1.17	1.10	1.23	1.15	1.14	1.13	1.08	1.06	1.17	1.16	1.22	1.19	1.30	1.28
3ph fault Sngr	Trip Sngr-Edvn	8	70%	70%	70%	PL-LM	0	1.31	ROCKY115	1.27	ROCKY115	1.28	1.16	1.28	1.17	1.22	1.14	1.15	1.10	1.21	1.15	1.14	1.12	1.07	1.05	1.16	1.14	1.25	1.20	1.31	1.27
3ph fault Sngr	Trip Sngr-Edvn	9	70%	70%	70%	LM-PV	0	1.35	ROCKY115	1.30	ROCKY115	1.24	1.14	1.24	1.14	1.19	1.12	1.14	1.09	1.19	1.12	1.14	1.11	1.07	1.03	1.22	1.16	1.24	1.18	1.35	1.30
3ph fault Sngr	Trip Sngr-Edvn	10	70%	70%	70%	NH-LI	0	1.34	ROCKY115	1.32	ROCKY115	1.21	1.13	1.19	1.14	1.19	1.11	1.13	1.05	1.18	1.11	1.13	1.11	1.05	1.03	1.20	1.15	1.20	1.18	1.34	1.32
3ph fault Nrwk	Trip Nrwk Fault	6	70%	70%	70%	ALL IN	0	1.39	ROCKY115	1.35	ROCKY115	1.24	1.21	1.24	1.19	1.22	1.19	1.15	1.13	1.22	1.19	1.17	1.14	1.08	1.06	1.24	1.18	1.25	1.23	1.39	1.35
3ph fault Nrwk	Trip Nrwk Fault	7	70%	70%	70%	ED-BS	0	1.32	ROCKY115	1.23	ROCKY115	1.26	1.16	1.24	1.15	1.26	1.16	1.16	1.09	1.25	1.16	1.14	1.14	1.08	1.07	1.19	1.16	1.24	1.16	1.32	1.23
3ph fault Nrwk	Trip Nrwk Fault	8	70%	70%	70%	PL-LM	0	1.35	ROCKY115	1.21	ROCKY115	1.29	1.18	1.27	1.17	1.24	1.14	1.15	1.09	1.24	1.14	1.14	1.12	1.07	1.05	1.15	1.14	1.24	1.19	1.35	1.21
3ph fault Nrwk	Trip Nrwk Fault	9	70%	70%	70%	LM-PV	0	1.42	ROCKY115	1.23	ROCKY115	1.24	1.14	1.23	1.14	1.21	1.12	1.12	1.07	1.20	1.12	1.15	1.11	1.07	1.04	1.20	1.14	1.23	1.17	1.42	1.23
3ph fault Nrwk	Trip Nrwk Fault	10	70%	70%	70%	NH-LI	0	1.28	ROCKY115	1.22	ROCKY115	1.19	1.12	1.17	1.11	1.18	1.11	1.10	1.04	1.18	1.10	1.14	1.11	1.05	1.04	1.19	1.13	1.18	1.14	1.28	1.22
3ph fault Plum	Trip Plum Fault	6	70%	70%	70%	ALL IN	0	1.43	ROCKY115	1.35	ROCKY115	1.25	1.18	1.31	1.20	1.22	1.17	1.15	1.11	1.23	1.17	1.17	1.14	1.09	1.06	1.24	1.17	1.32	1.24	1.43	1.35
3ph fault Plum	Trip Plum Fault	7	70%	70%	70%	ED-BS	0	1.41	ROCKY115	1.24	ROCKY115	1.26	1.16	1.30	1.14	1.24	1.16	1.14	1.09	1.24	1.15	1.15	1.13	1.10	1.06	1.19	1.14	1.28	1.16	1.41	1.24
3ph fault Plum	Trip Plum Fault	8	70%	70%	70%	PL-LM	0	1.33	ROCKY115	1.17	ROCKY115	1.22	1.13	1.23	1.11	1.18	1.11	1.11	1.06	1.18	1.12	1.14	1.12	1.06	1.04	1.15	1.12	1.25	1.11	1.33	1.17
3ph fault Plum	Trip Plum Fault	9	70%	70%	70%	LM-PV	0	1.37	ROCKY115	1.19	ROCKY115	1.19	1.14	1.23	1.11	1.18	1.12	1.11	1.07	1.20	1.12	1.14	1.12	1.07	1.04	1.20	1.13	1.25	1.12	1.37	1.19
3ph fault Plum	Trip Plum Fault	10	70%	70%	70%	NH-LI	0	1.33	ROCKY115	1.23	ROCKY115	1.20	1.12	1.24	1.11	1.17	1.11	1.10	1.04	1.18	1.12	1.15	1.11	1.07	1.04	1.20	1.13	1.23	1.13	1.33	1.23

CASE #: GE - B-N 1 HPFF, M-N 2 XLPE

REV. 1 DATE: 12/6/2004

DONE BY: E. R. PRATICO, GE ENERGY

SWITCHING EVENT		SYSTEM CONDITIONS						MAXIMUM TOV				TOV																			
TYPE	LOCATION	SIM. CASE	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	SYNC COND	2C	LOCATION	6C	LOCATION	PLUM345		PLUM115		NRWK345		NRWK115		EDVN345		BSCK345		ESHR115		FRBG115		STONY115		ROCKY115	
												2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
3ph fault Plum	Trip Plum-Lmnt	9	50%	50%	50%	ALL IN	1	1.33	EDVN345	1.27	NRWK345	1.30	1.25	1.18	1.16	1.33	1.27	1.19	1.16	1.33	1.27	1.16	1.12	1.08	1.04	1.08	1.08	1.22	1.21	1.16	1.15
3ph fault Plum	Trip Plum-Lmnt	10	50%	50%	50%	ED-BS	1	1.32	NRWK345	1.11	EDVN345	1.28	1.10	1.16	1.06	1.32	1.11	1.18	1.05	1.32	1.11	1.10	1.09	1.05	1.02	1.09	1.07	1.19	1.08	1.13	1.06
3ph fault Plum	Trip Plum-Lmnt	11	50%	50%	50%	LM-PV	1	1.28	EDVN345	1.22	NRWK345	1.25	1.20	1.14	1.11	1.28	1.22	1.15	1.11	1.28	1.21	1.13	1.12	1.05	1.03	1.09	1.08	1.18	1.15	1.12	1.09
3ph fault Plum	Trip Plum-Lmnt	12	50%	50%	50%	NH-LI	1	1.22	EDVN345	1.14	EDVN345	1.20	1.12	1.10	1.06	1.22	1.13	1.06	1.03	1.22	1.14	1.12	1.09	1.02	1.01	1.07	1.06	1.14	1.08	1.10	1.05
3ph fault Edvn	Trip Edvn-Bsck	9	50%	50%	50%	ALL IN	1	1.39	NRWK345	1.37	NRWK345	1.31	1.29	1.21	1.19	1.39	1.37	1.24	1.23	1.39	1.37	1.11	1.10	1.07	1.06	1.14	1.12	1.22	1.20	1.18	1.16
3ph fault Edvn	Trip Edvn-Bsck	10	50%	50%	50%	PL-LM	1	1.30	EDVN345	1.16	NRWK345	1.27	1.14	1.19	1.09	1.30	1.16	1.18	1.08	1.30	1.16	1.11	1.10	1.07	1.03	1.10	1.07	1.23	1.11	1.17	1.08
3ph fault Edvn	Trip Edvn-Bsck	11	50%	50%	50%	LM-PV	1	1.36	EDVN345	1.21	EDVN345	1.28	1.17	1.18	1.11	1.35	1.20	1.20	1.11	1.36	1.21	1.11	1.09	1.07	1.03	1.12	1.08	1.21	1.13	1.16	1.10
3ph fault Edvn	Trip Edvn-Bsck	12	50%	50%	50%	NH-LI	1	1.27	EDVN345	1.18	EDVN345	1.21	1.15	1.12	1.09	1.27	1.18	1.13	1.06	1.27	1.18	1.10	1.09	1.04	1.02	1.08	1.07	1.16	1.11	1.12	1.09
1ph fault Edvn	Trip Edvn-Bsck	9	50%	50%	50%	ALL IN	1	1.35	EDVN345	1.23	EDVN345	1.26	1.18	1.18	1.12	1.34	1.23	1.23	1.14	1.35	1.23	1.10	1.09	1.09	1.04	1.12	1.07	1.15	1.12	1.12	1.09
1ph fault Edvn	Trip Edvn-Bsck	10	50%	50%	50%	PL-LM	1	1.17	NRWK345	1.09	BSCK345	1.15	1.07	1.10	1.04	1.17	1.08	1.09	1.04	1.17	1.08	1.09	1.09	1.03	1.02	1.07	1.06	1.10	1.04	1.08	1.03
1ph fault Edvn	Trip Edvn-Bsck	11	50%	50%	50%	LM-PV	1	1.16	NRWK345	1.11	NRWK345	1.14	1.09	1.09	1.06	1.16	1.11	1.08	1.05	1.16	1.11	1.09	1.08	1.04	1.02	1.08	1.05	1.12	1.04	1.09	1.02
1ph fault Edvn	Trip Edvn-Bsck	12	50%	50%	50%	NH-LI	1	1.16	NRWK345	1.08	NRWK345	1.13	1.08	1.08	1.04	1.16	1.08	1.07	1.01	1.15	1.08	1.09	1.08	1.02	1.01	1.06	1.04	1.09	1.03	1.07	1.02
3ph fault Nrwk	Trip Nrwk-Plum	11	50%	50%	50%	ALL IN	1	1.21	NRWK345	1.21	EDVN345	1.10	1.09	1.07	1.07	1.21	1.21	1.13	1.13	1.21	1.21	1.13	1.13	1.08	1.08	1.09	1.09	1.10	1.10	1.08	1.08
3ph fault Nrwk	Trip Nrwk-Plum	12	50%	50%	50%	ED-BS	1	1.26	EDVN345	1.22	EDVN345	1.09	1.08	1.08	1.07	1.25	1.22	1.14	1.10	1.26	1.22	1.10	1.09	1.04	1.03	1.07	1.06	1.08	1.05	1.06	1.05
3ph fault Nrwk	Trip Nrwk-Plum	13	50%	50%	50%	PL-LM	1	1.21	EDVN345	1.19	EDVN345	1.06	1.06	1.06	1.06	1.21	1.18	1.13	1.13	1.21	1.19	1.13	1.13	1.08	1.08	1.08	1.08	1.06	1.06	1.06	1.06
3ph fault Nrwk	Trip Nrwk-Plum	14	50%	50%	50%	LM-PV	1	1.21	EDVN345	1.15	EDVN345	1.10	1.10	1.09	1.09	1.20	1.15	1.12	1.11	1.21	1.15	1.13	1.10	1.08	1.07	1.08	1.08	1.13	1.13	1.10	1.10
3ph fault Nrwk	Trip Nrwk-Plum	15	50%	50%	50%	NH-LI	1	1.17	EDVN345	1.09	EDVN345	1.07	1.07	1.05	1.04	1.16	1.09	1.06	1.00	1.17	1.09	1.11	1.07	1.03	1.01	1.05	1.04	1.05	1.05	1.04	1.04
3ph fault Sngr	Trip Sngr-Edvn	11	50%	50%	50%	ALL IN	1	1.21	NRWK345	1.21	NRWK345	1.18	1.18	1.13	1.13	1.21	1.21	1.11	1.11	1.21	1.21	1.13	1.13	1.07	1.07	1.11	1.11	1.18	1.18	1.14	1.14
3ph fault Sngr	Trip Sngr-Edvn	12	50%	50%	50%	ED-BS	1	1.31	NRWK345	1.31	NRWK345	1.24	1.24	1.14	1.14	1.31	1.31	1.16	1.16	1.30	1.30	1.11	1.11	1.07	1.07	1.11	1.11	1.16	1.16	1.12	1.12
3ph fault Sngr	Trip Sngr-Edvn	13	50%	50%	50%	PL-LM	1	1.23	NRWK345	1.21	EDVN345	1.22	1.18	1.16	1.10	1.23	1.21	1.12	1.12	1.22	1.21	1.13	1.11	1.07	1.06	1.10	1.10	1.14	1.13	1.10	1.10
3ph fault Sngr	Trip Sngr-Edvn	14	50%	50%	50%	LM-PV	1	1.18	NRWK345	1.15	NRWK345	1.16	1.12	1.12	1.07	1.18	1.15	1.09	1.08	1.17	1.15	1.11	1.09	1.06	1.05	1.09	1.08	1.13	1.13	1.10	1.10
3ph fault Sngr	Trip Sngr-Edvn	15	50%	50%	50%	NH-LI	1	1.14	NRWK345	1.14	NRWK345	1.13	1.13	1.07	1.07	1.14	1.14	1.05	1.05	1.14	1.14	1.09	1.09	1.05	1.05	1.08	1.08	1.12	1.12	1.09	1.09
3ph fault Nrwk	Trip Nrwk Fault	11	50%	50%	50%	ALL IN	1	1.28	EDVN345	1.28	EDVN345	1.24	1.24	1.16	1.16	1.28	1.28	1.17	1.17	1.28	1.28	1.16	1.16	1.08	1.08	1.13	1.13	1.18	1.18	1.15	1.15
3ph fault Nrwk	Trip Nrwk Fault	12	50%	50%	50%	ED-BS	1	1.34	NRWK345	1.33	EDVN345	1.28	1.27	1.18	1.17	1.34	1.33	1.21	1.21	1.34	1.33	1.11	1.11	1.08	1.07	1.13	1.12	1.18	1.18	1.15	1.14
3ph fault Nrwk	Trip Nrwk Fault	13	50%	50%	50%	PL-LM	1	1.34	NRWK345	1.34	NRWK345	1.32	1.32	1.19	1.18	1.34	1.34	1.21	1.20	1.33	1.33	1.16	1.16	1.08	1.07	1.11	1.11	1.21	1.21	1.16	1.16
3ph fault Nrwk	Trip Nrwk Fault	14	50%	50%	50%	LM-PV	1	1.24	NRWK345	1.24	NRWK345	1.21	1.21	1.12	1.12	1.24	1.24	1.13	1.13	1.24	1.24	1.12	1.12	1.06	1.04	1.10	1.10	1.16	1.16	1.13	1.13
3ph fault Nrwk	Trip Nrwk Fault	15	50%	50%	50%	NH-LI	1	1.19	NRWK345	1.19	NRWK345	1.17	1.17	1.09	1.09	1.19	1.19	1.09	1.07	1.19	1.19	1.12	1.12	1.04	1.04	1.08	1.08	1.13	1.13	1.10	1.10
3ph fault Plum	Trip Plum Fault	11	50%	50%	50%	ALL IN	1	1.27	EDVN345	1.27	EDVN345	1.20	1.19	1.13	1.13	1.26	1.26	1.15	1.14	1.27	1.27	1.15	1.15	1.08	1.08	1.12	1.10	1.15	1.10	1.11	1.07
3ph fault Plum	Trip Plum Fault	12	50%	50%	50%	ED-BS	1	1.44	EDVN345	1.28	EDVN345	1.33	1.23	1.23	1.14	1.43	1.28	1.24	1.18	1.44	1.28	1.11	1.09	1.09	1.06	1.12	1.08	1.22	1.22	1.16	1.16
3ph fault Plum	Trip Plum Fault	13	50%	50%	50%	PL-LM	1	1.29	EDVN345	1.23	NRWK345	1.26	1.20	1.14	1.12	1.29	1.23	1.16	1.13	1.29	1.23	1.14	1.12	1.07	1.04	1.08	1.08	1.21	1.20	1.14	1.13
3ph fault Plum	Trip Plum Fault	14	50%	50%	50%	LM-PV	1	1.23	EDVN345	1.21	NRWK345	1.18	1.17	1.10	1.09	1.22	1.21	1.11	1.10	1.23	1.21	1.11	1.11	1.05	1.03	1.09	1.09	1.14	1.13	1.11	1.10
3ph fault Plum	Trip Plum Fault	15	50%	50%	50%	NH-LI	1	1.20	EDVN345	1.19	EDVN345	1.14	1.14	1.08	1.06	1.19	1.19	1.07	1.06	1.20	1.19	1.11	1.10	1.04	1.03	1.05	1.05	1.11	1.11	1.07	1.07

CASE #: GE - B-N 1 HPFF, M-N 2 XLPE

REV. 1 DATE: 12/6/2004

DONE BY: E. R. PRATICO, GE ENERGY

SWITCHING EVENT		SYSTEM CONDITIONS						MAXIMUM TOV				TOV																			
TYPE	LOCATION	SIM. CASE	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	SYNC COND	2C	LOCATION	6C	LOCATION	PLUM345		PLUM115		NRWK345		NRWK115		EDVN345		BSCK345		ESHR115		FRBG115		STONY115		ROCKY115	
												2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
3ph fault Plum	Trip Plum-Lmnt	13	70%	70%	70%	ALL IN	1	1.43	ROCKY115	1.20	ROCKY115	1.30	1.18	1.21	1.15	1.27	1.18	1.14	1.09	1.26	1.18	1.16	1.13	1.07	1.05	1.19	1.13	1.34	1.15	1.43	1.20
3ph fault Plum	Trip Plum-Lmnt	14	70%	70%	70%	ED-BS	1	1.26	EDVN345	1.12	FRBG115	1.23	1.05	1.17	1.04	1.26	1.05	1.13	1.02	1.26	1.05	1.13	1.11	1.06	1.03	1.13	1.12	1.17	1.03	1.18	1.11
3ph fault Plum	Trip Plum-Lmnt	15	70%	70%	70%	LM-PV	1	1.42	ROCKY115	1.19	ROCKY115	1.27	1.16	1.19	1.13	1.24	1.15	1.13	1.08	1.24	1.14	1.15	1.11	1.06	1.04	1.22	1.12	1.28	1.13	1.42	1.19
3ph fault Plum	Trip Plum-Lmnt	16	70%	70%	70%	NH-LI	1	1.26	ROCKY115	1.09	BSCK345	1.20	1.07	1.13	1.06	1.19	1.07	1.06	1.00	1.18	1.07	1.13	1.09	1.04	1.01	1.14	1.08	1.18	1.06	1.26	1.08
3ph fault Edvn	Trip Edvn-Bsck	13	70%	70%	70%	ALL IN	1	1.37	ROCKY115	1.31	ROCKY115	1.26	1.18	1.20	1.14	1.29	1.21	1.17	1.11	1.29	1.21	1.15	1.13	1.09	1.07	1.19	1.16	1.21	1.19	1.37	1.31
3ph fault Edvn	Trip Edvn-Bsck	14	70%	70%	70%	PL-LM	1	1.33	NRWK345	1.11	ROCKY115	1.31	1.07	1.24	1.05	1.33	1.08	1.19	1.04	1.32	1.08	1.13	1.11	1.09	1.03	1.15	1.09	1.20	1.07	1.22	1.11
3ph fault Edvn	Trip Edvn-Bsck	15	70%	70%	70%	LM-PV	1	1.32	NRWK345	1.21	ROCKY115	1.29	1.12	1.23	1.09	1.32	1.12	1.19	1.06	1.32	1.12	1.14	1.11	1.08	1.04	1.21	1.12	1.20	1.12	1.31	1.21
3ph fault Edvn	Trip Edvn-Bsck	16	70%	70%	70%	NH-LI	1	1.28	ROCKY115	1.19	ROCKY115	1.20	1.09	1.16	1.07	1.22	1.09	1.13	1.01	1.22	1.09	1.13	1.11	1.06	1.03	1.16	1.11	1.16	1.10	1.28	1.19
1ph fault Edvn	Trip Edvn-Bsck	13	70%	70%	70%	ALL IN	1	1.25	ROCKY115	1.18	ROCKY115	1.14	1.11	1.11	1.08	1.15	1.10	1.08	1.06	1.15	1.10	1.13	1.12	1.06	1.05	1.14	1.12	1.14	1.10	1.25	1.18
1ph fault Edvn	Trip Edvn-Bsck	14	70%	70%	70%	PL-LM	1	1.19	ROCKY115	1.11	BSCK345	1.12	1.02	1.09	1.02	1.13	1.02	1.06	1.00	1.14	1.02	1.12	1.11	1.04	1.02	1.11	1.07	1.10	1.02	1.19	1.07
1ph fault Edvn	Trip Edvn-Bsck	15	70%	70%	70%	LM-PV	1	1.18	ROCKY115	1.10	ROCKY115	1.10	1.05	1.07	1.04	1.10	1.04	1.05	1.02	1.10	1.04	1.11	1.09	1.04	1.02	1.11	1.07	1.10	1.04	1.18	1.10
1ph fault Edvn	Trip Edvn-Bsck	16	70%	70%	70%	NH-LI	1	1.16	ROCKY115	1.09	BSCK345	1.09	1.04	1.06	1.03	1.09	1.02	1.01	0.97	1.08	1.02	1.11	1.09	1.03	1.01	1.10	1.07	1.07	1.03	1.16	1.09
3ph fault Nrwk	Trip Nrwk-Plum	16	70%	70%	70%	ALL IN	1	1.33	ROCKY115	1.28	ROCKY115	1.13	1.11	1.11	1.08	1.16	1.16	1.08	1.07	1.17	1.17	1.14	1.13	1.08	1.05	1.19	1.19	1.16	1.14	1.33	1.28
3ph fault Nrwk	Trip Nrwk-Plum	17	70%	70%	70%	ED-BS	1	1.22	NRWK345	1.15	EDVN345	1.14	1.11	1.12	1.10	1.22	1.15	1.12	1.07	1.21	1.15	1.14	1.11	1.06	1.03	1.14	1.11	1.18	1.13	1.15	1.13
3ph fault Nrwk	Trip Nrwk-Plum	18	70%	70%	70%	PL-LM	1	1.22	ROCKY115	1.16	EDVN345	1.10	1.07	1.11	1.07	1.15	1.15	1.09	1.06	1.16	1.16	1.12	1.12	1.06	1.05	1.15	1.15	1.13	1.08	1.22	1.15
3ph fault Nrwk	Trip Nrwk-Plum	19	70%	70%	70%	LM-PV	1	1.35	ROCKY115	1.34	ROCKY115	1.11	1.10	1.09	1.08	1.14	1.14	1.10	1.09	1.05	1.14	1.14	1.12	1.10	1.06	1.03	1.18	1.14	1.11	1.35	1.34
3ph fault Nrwk	Trip Nrwk-Plum	20	70%	70%	70%	NH-LI	1	1.36	ROCKY115	1.17	ROCKY115	1.11	1.10	1.08	1.06	1.08	1.08	1.03	0.97	1.09	1.09	1.10	1.08	1.04	1.01	1.16	1.11	1.12	1.11	1.36	1.17
3ph fault Sngr	Trip Sngr-Edvn	16	70%	70%	70%	ALL IN	1	1.46	ROCKY115	1.46	ROCKY115	1.20	1.20	1.17	1.17	1.19	1.19	1.11	1.10	1.19	1.19	1.13	1.13	1.07	1.05	1.25	1.25	1.26	1.46	1.46	
3ph fault Sngr	Trip Sngr-Edvn	17	70%	70%	70%	ED-BS	1	1.44	ROCKY115	1.43	ROCKY115	1.22	1.21	1.18	1.18	1.23	1.23	1.14	1.14	1.24	1.22	1.13	1.13	1.06	1.06	1.24	1.24	1.25	1.25	1.44	1.43
3ph fault Sngr	Trip Sngr-Edvn	18	70%	70%	70%	PL-LM	1	1.45	ROCKY115	1.45	ROCKY115	1.21	1.21	1.16	1.16	1.21	1.21	1.10	1.10	1.20	1.20	1.15	1.15	1.06	1.05	1.23	1.23	1.27	1.26	1.45	1.45
3ph fault Sngr	Trip Sngr-Edvn	19	70%	70%	70%	LM-PV	1	1.49	ROCKY115	1.46	ROCKY115	1.20	1.18	1.17	1.15	1.21	1.18	1.13	1.11	1.21	1.17	1.15	1.13	1.05	1.04	1.24	1.23	1.23	1.22	1.49	1.46
3ph fault Sngr	Trip Sngr-Edvn	20	70%	70%	70%	NH-LI	1	1.42	ROCKY115	1.42	ROCKY115	1.14	1.14	1.11	1.10	1.15	1.15	1.06	1.04	1.15	1.15	1.12	1.12	1.03	1.03	1.21	1.21	1.19	1.19	1.42	1.42
3ph fault Nrwk	Trip Nrwk Fault	16	70%	70%	70%	ALL IN	1	1.51	ROCKY115	1.50	ROCKY115	1.23	1.22	1.16	1.16	1.24	1.24	1.15	1.15	1.24	1.24	1.15	1.15	1.07	1.05	1.29	1.29	1.27	1.27	1.51	1.50
3ph fault Nrwk	Trip Nrwk Fault	17	70%	70%	70%	ED-BS	1	1.26	ROCKY115	1.24	ROCKY115	1.21	1.17	1.16	1.14	1.25	1.19	1.16	1.10	1.25	1.19	1.14	1.14	1.07	1.06	1.19	1.18	1.17	1.16	1.26	1.24
3ph fault Nrwk	Trip Nrwk Fault	18	70%	70%	70%	PL-LM	1	1.36	ROCKY115	1.28	ROCKY115	1.23	1.20	1.17	1.15	1.25	1.21	1.16	1.12	1.25	1.21	1.16	1.14	1.06	1.05	1.20	1.18	1.19	1.18	1.36	1.28
3ph fault Nrwk	Trip Nrwk Fault	19	70%	70%	70%	LM-PV	1	1.50	ROCKY115	1.30	ROCKY115	1.21	1.16	1.16	1.14	1.23	1.17	1.15	1.10	1.23	1.16	1.16	1.12	1.06	1.04	1.26	1.17	1.19	1.16	1.50	1.30
3ph fault Nrwk	Trip Nrwk Fault	20	70%	70%	70%	NH-LI	1	1.41	ROCKY115	1.32	ROCKY115	1.17	1.16	1.13	1.12	1.18	1.16	1.09	1.07	1.18	1.16	1.13	1.12	1.04	1.03	1.20	1.18	1.17	1.16	1.41	1.32
3ph fault Plum	Trip Plum Fault	16	70%	70%	70%	ALL IN	1	1.61	ROCKY115	1.41	ROCKY115	1.27	1.23	1.22	1.21	1.25	1.22	1.14	1.12	1.24	1.21	1.15	1.14	1.06	1.05	1.27	1.21	1.38	1.28	1.61	1.41
3ph fault Plum	Trip Plum Fault	17	70%	70%	70%	ED-BS	1	1.37	ROCKY115	1.19	ROCKY115	1.29	1.16	1.19	1.15	1.28	1.17	1.15	1.08	1.27	1.17	1.15	1.13	1.08	1.05	1.22	1.14	1.30	1.18	1.37	1.19
3ph fault Plum	Trip Plum Fault	18	70%	70%	70%	PL-LM	1	1.36	ROCKY115	1.18	ROCKY115	1.25	1.15	1.17	1.13	1.23	1.14	1.13	1.07	1.23	1.13	1.14	1.11	1.05	1.04	1.18	1.13	1.27	1.14	1.36	1.18
3ph fault Plum	Trip Plum Fault	19	70%	70%	70%	LM-PV	1	1.43	ROCKY115	1.22	ROCKY115	1.25	1.16	1.19	1.14	1.24	1.14	1.13	1.08	1.23	1.14	1.15	1.11	1.06	1.04	1.24	1.14	1.30	1.16	1.43	1.22
3ph fault Plum	Trip Plum Fault	20	70%	70%	70%	NH-LI	1	1.52	ROCKY115	1.27	ROCKY115	1.24	1.16	1.19	1.15	1.21	1.15	1.08	1.04	1.21	1.15	1.14	1.11	1.04	1.03	1.23	1.16	1.33	1.18	1.52	1.27

CASE #: GE - B-N 1 HPFF, M-N 2 XLPE

REV. 1 DATE: 12/6/2004

DONE BY: E. R. PRATICO, GE ENERGY

SWITCHING EVENT		SYSTEM CONDITIONS						MAXIMUM TOV			TOV																				
TYPE	LOCATION	SIM. CASE	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	SYNC COND	2C	LOCATION	6C	LOCATION	PLUM345		PLUM115		NRWK345		NRWK115		EDVN345		BSCK345		ESHR115		FRBG115		STONY115		ROCKY115	
												2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
3ph fault Plum	Trip Plum-Lmnt	17	50%	50%	50%	ALL IN	2	1.17	EDVN345	1.15	STONY115	1.17	1.12	1.14	1.08	1.16	1.13	1.13	1.10	1.17	1.14	1.13	1.10	1.09	1.06	1.08	1.07	1.15	1.15	1.10	1.10
3ph fault Plum	Trip Plum-Lmnt	18	50%	50%	50%	ED-BS	2	1.14	EDVN345	1.10	PLUM345	1.13	1.10	1.10	1.03	1.13	1.09	1.08	1.04	1.14	1.09	1.10	1.09	1.04	1.03	1.07	1.07	1.13	1.08	1.09	1.06
3ph fault Plum	Trip Plum-Lmnt	19	50%	50%	50%	LM-PV	2	1.17	PLUM345	1.13	STONY115	1.17	1.09	1.13	1.07	1.15	1.10	1.13	1.08	1.15	1.10	1.12	1.08	1.08	1.05	1.08	1.06	1.13	1.13	1.09	1.08
3ph fault Plum	Trip Plum-Lmnt	20	50%	50%	50%	NH-LI	2	1.11	PLUM345	1.08	STONY115	1.11	1.04	1.06	1.02	1.08	1.04	1.08	0.99	1.08	1.05	1.08	1.06	1.04	1.00	1.04	1.04	1.10	1.08	1.06	1.04
3ph fault Edvn	Trip Edvn-Bsck	17	50%	50%	50%	ALL IN	2	1.20	NRWK345	1.19	EDVN345	1.18	1.17	1.14	1.14	1.20	1.19	1.16	1.16	1.20	1.19	1.11	1.11	1.07	1.07	1.12	1.12	1.17	1.17	1.14	1.14
3ph fault Edvn	Trip Edvn-Bsck	18	50%	50%	50%	PL-LM	2	1.22	EDVN345	1.16	NRWK345	1.21	1.15	1.13	1.09	1.22	1.16	1.14	1.08	1.22	1.15	1.09	1.09	1.04	1.04	1.08	1.07	1.15	1.09	1.11	1.07
3ph fault Edvn	Trip Edvn-Bsck	19	50%	50%	50%	LM-PV	2	1.21	EDVN345	1.13	NRWK345	1.17	1.12	1.14	1.08	1.20	1.13	1.14	1.08	1.21	1.13	1.10	1.08	1.07	1.03	1.12	1.08	1.12	1.09	1.11	1.08
3ph fault Edvn	Trip Edvn-Bsck	20	50%	50%	50%	NH-LI	2	1.18	EDVN345	1.09	STONY115	1.13	1.08	1.10	1.06	1.17	1.08	1.13	1.08	1.18	1.08	1.08	1.07	1.04	1.03	1.06	1.05	1.11	1.09	1.08	1.06
1ph fault Edvn	Trip Edvn-Bsck	17	50%	50%	50%	ALL IN	2	1.21	EDVN345	1.16	EDVN345	1.18	1.14	1.15	1.12	1.21	1.16	1.17	1.12	1.21	1.16	1.10	1.10	1.09	1.07	1.11	1.09	1.14	1.12	1.11	1.10
1ph fault Edvn	Trip Edvn-Bsck	18	50%	50%	50%	PL-LM	2	1.17	PLUM345	1.10	NRWK345	1.17	1.09	1.10	1.06	1.16	1.10	1.09	1.05	1.17	1.09	1.09	1.08	1.04	1.02	1.07	1.06	1.13	1.06	1.10	1.05
1ph fault Edvn	Trip Edvn-Bsck	19	50%	50%	50%	LM-PV	2	1.13	NRWK345	1.08	NRWK345	1.13	1.08	1.08	1.05	1.13	1.08	1.08	1.04	1.13	1.08	1.08	1.07	1.04	1.02	1.09	1.06	1.11	1.05	1.09	1.04
1ph fault Edvn	Trip Edvn-Bsck	20	50%	50%	50%	NH-LI	2	1.11	EDVN345	1.07	BSCK345	1.10	1.06	1.06	1.03	1.10	1.05	1.07	1.00	1.11	1.04	1.07	1.07	1.03	1.00	1.06	1.04	1.07	1.03	1.06	1.02
3ph fault Nrwk	Trip Nrwk-Plum	21	50%	50%	50%	ALL IN	2	1.39	EDVN345	1.31	EDVN345	1.12	1.12	1.10	1.10	1.38	1.30	1.22	1.21	1.39	1.31	1.18	1.17	1.13	1.13	1.14	1.14	1.14	1.14	1.13	1.13
3ph fault Nrwk	Trip Nrwk-Plum	22	50%	50%	50%	ED-BS	2	1.41	EDVN345	1.17	EDVN345	1.10	1.08	1.09	1.08	1.38	1.16	1.21	1.13	1.41	1.17	1.11	1.08	1.08	1.07	1.09	1.06	1.08	1.07	1.07	1.06
3ph fault Nrwk	Trip Nrwk-Plum	23	50%	50%	50%	PL-LM	2	1.39	EDVN345	1.29	EDVN345	1.09	1.09	1.09	1.09	1.37	1.28	1.21	1.20	1.39	1.29	1.18	1.17	1.13	1.13	1.13	1.13	1.10	1.10	1.10	1.10
3ph fault Nrwk	Trip Nrwk-Plum	24	50%	50%	50%	LM-PV	2	1.41	EDVN345	1.26	EDVN345	1.15	1.15	1.13	1.13	1.39	1.26	1.22	1.20	1.41	1.26	1.18	1.16	1.12	1.12	1.15	1.15	1.19	1.19	1.17	1.17
3ph fault Nrwk	Trip Nrwk-Plum	25	50%	50%	50%	NH-LI	2	1.36	EDVN345	1.19	EDVN345	1.09	1.09	1.10	1.10	1.34	1.18	1.19	1.14	1.36	1.19	1.16	1.12	1.09	1.09	1.11	1.10	1.12	1.12	1.11	1.11
3ph fault Sngr	Trip Sngr-Edvn	21	50%	50%	50%	ALL IN	2	1.37	NRWK345	1.24	NRWK345	1.33	1.22	1.22	1.17	1.37	1.24	1.19	1.16	1.36	1.23	1.17	1.14	1.09	1.09	1.16	1.15	1.31	1.23	1.25	1.19
3ph fault Sngr	Trip Sngr-Edvn	22	50%	50%	50%	ED-BS	2	1.28	EDVN345	1.17	NRWK345	1.25	1.16	1.15	1.12	1.28	1.17	1.15	1.12	1.28	1.17	1.11	1.11	1.08	1.08	1.11	1.11	1.20	1.13	1.15	1.11
3ph fault Sngr	Trip Sngr-Edvn	23	50%	50%	50%	PL-LM	2	1.32	PLUM345	1.15	EDVN345	1.32	1.15	1.19	1.12	1.31	1.15	1.16	1.12	1.29	1.15	1.13	1.12	1.09	1.09	1.12	1.12	1.23	1.13	1.16	1.11
3ph fault Sngr	Trip Sngr-Edvn	24	50%	50%	50%	LM-PV	2	1.30	NRWK345	1.14	PLUM345	1.30	1.14	1.19	1.09	1.30	1.13	1.17	1.10	1.29	1.14	1.14	1.10	1.07	1.07	1.17	1.10	1.29	1.11	1.25	1.09
3ph fault Sngr	Trip Sngr-Edvn	25	50%	50%	50%	NH-LI	2	1.31	NRWK345	1.15	PLUM345	1.29	1.15	1.18	1.09	1.31	1.14	1.18	1.11	1.31	1.14	1.13	1.09	1.06	1.06	1.13	1.10	1.25	1.11	1.20	1.10
3ph fault Nrwk	Trip Nrwk Fault	21	50%	50%	50%	ALL IN	2	1.23	EDVN345	1.16	STONY115	1.19	1.14	1.13	1.13	1.22	1.15	1.13	1.12	1.23	1.15	1.13	1.13	1.09	1.09	1.13	1.13	1.16	1.16	1.14	1.14
3ph fault Nrwk	Trip Nrwk Fault	22	50%	50%	50%	ED-BS	2	1.20	EDVN345	1.17	EDVN345	1.16	1.16	1.13	1.13	1.19	1.17	1.15	1.15	1.20	1.17	1.11	1.11	1.09	1.09	1.12	1.12	1.15	1.15	1.13	1.13
3ph fault Nrwk	Trip Nrwk Fault	23	50%	50%	50%	PL-LM	2	1.21	PLUM345	1.16	STONY115	1.21	1.15	1.16	1.13	1.20	1.16	1.14	1.14	1.20	1.15	1.13	1.13	1.10	1.10	1.13	1.12	1.16	1.16	1.14	1.14
3ph fault Nrwk	Trip Nrwk Fault	24	50%	50%	50%	LM-PV	2	1.19	EDVN345	1.15	STONY115	1.17	1.12	1.14	1.11	1.18	1.12	1.12	1.12	1.19	1.12	1.13	1.12	1.09	1.09	1.12	1.12	1.15	1.15	1.13	1.13
3ph fault Nrwk	Trip Nrwk Fault	25	50%	50%	50%	NH-LI	2	1.20	EDVN345	1.12	STONY115	1.18	1.10	1.11	1.09	1.20	1.10	1.09	1.09	1.20	1.10	1.11	1.11	1.08	1.08	1.10	1.10	1.14	1.12	1.11	1.11
3ph fault Plum	Trip Plum Fault	21	50%	50%	50%	ALL IN	2	1.16	EDVN345	1.16	EDVN345	1.14	1.13	1.12	1.10	1.15	1.15	1.12	1.11	1.16	1.16	1.13	1.13	1.09	1.09	1.12	1.09	1.12	1.10	1.09	1.08
3ph fault Plum	Trip Plum Fault	22	50%	50%	50%	ED-BS	2	1.18	EDVN345	1.17	EDVN345	1.17	1.14	1.15	1.09	1.17	1.16	1.14	1.12	1.18	1.17	1.11	1.10	1.08	1.07	1.09	1.07	1.14	1.14	1.10	1.10
3ph fault Plum	Trip Plum Fault	23	50%	50%	50%	PL-LM	2	1.16	PLUM345	1.14	STONY115	1.16	1.09	1.13	1.06	1.14	1.11	1.12	1.08	1.15	1.11	1.12	1.10	1.08	1.06	1.08	1.05	1.14	1.14	1.09	1.09
3ph fault Plum	Trip Plum Fault	24	50%	50%	50%	LM-PV	2	1.15	EDVN345	1.12	STONY115	1.15	1.09	1.12	1.06	1.14	1.10	1.12	1.08	1.15	1.10	1.13	1.09	1.09	1.05	1.08	1.04	1.12	1.12	1.09	1.09
3ph fault Plum	Trip Plum Fault	25	50%	50%	50%	NH-LI	2	1.11	EDVN345	1.11	STONY115	1.11	1.09	1.09	1.05	1.11	1.09	1.08	1.06	1.11	1.10	1.11	1.09	1.07	1.06	1.07	1.05	1.11	1.11	1.07	1.07

CASE #: GE - B-N 1 HPFF, M-N 2 XLPE

REV. 1 DATE: 12/6/2004

DONE BY: E. R. PRATICO, GE ENERGY

SWITCHING EVENT		SYSTEM CONDITIONS						MAXIMUM TOV				TOV																			
TYPE	LOCATION	SIM. CASE	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	SYNC COND	2C	LOCATION	6C	LOCATION	PLUM345		PLUM115		NRWK345		NRWK115		EDVN345		BSCK345		ESHR115		FRBG115		STONY115		ROCKY115	
												2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
3ph fault Plum	Trip Plum-Lmnt	21	70%	70%	70%	ALL IN	2	1.30	ROCKY115	1.30	ROCKY115	1.07	1.07	1.10	1.10	1.07	1.07	1.05	1.03	1.08	1.08	1.11	1.10	1.06	1.04	1.18	1.18	1.16	1.13	1.30	1.30
3ph fault Plum	Trip Plum-Lmnt	22	70%	70%	70%	ED-BS	2	1.29	ROCKY115	1.28	ROCKY115	1.07	1.04	1.08	1.05	1.05	1.04	1.04	1.01	1.06	1.05	1.12	1.11	1.06	1.03	1.17	1.16	1.14	1.08	1.29	1.28
3ph fault Plum	Trip Plum-Lmnt	23	70%	70%	70%	LM-PV	2	1.42	ROCKY115	1.39	ROCKY115	1.09	1.09	1.12	1.11	1.07	1.06	1.05	1.03	1.07	1.06	1.09	1.09	1.05	1.03	1.21	1.20	1.18	1.15	1.42	1.39
3ph fault Plum	Trip Plum-Lmnt	24	70%	70%	70%	NH-LI	2	1.24	ROCKY115	1.24	ROCKY115	1.04	1.02	1.06	1.05	1.03	1.02	0.99	0.96	1.04	1.04	1.08	1.07	1.03	1.01	1.14	1.13	1.09	1.08	1.24	1.24
3ph fault Edvn	Trip Edvn-Bsck	21	70%	70%	70%	ALL IN	2	1.34	ROCKY115	1.31	ROCKY115	1.15	1.15	1.12	1.12	1.13	1.11	1.09	1.06	1.12	1.11	1.14	1.13	1.09	1.05	1.21	1.21	1.16	1.16	1.34	1.31
3ph fault Edvn	Trip Edvn-Bsck	22	70%	70%	70%	PL-LM	2	1.31	ROCKY115	1.23	ROCKY115	1.11	1.08	1.10	1.07	1.09	1.07	1.05	1.03	1.09	1.07	1.15	1.11	1.08	1.04	1.17	1.17	1.13	1.11	1.31	1.23
3ph fault Edvn	Trip Edvn-Bsck	23	70%	70%	70%	LM-PV	2	1.50	ROCKY115	1.45	ROCKY115	1.12	1.09	1.10	1.08	1.11	1.08	1.07	1.02	1.12	1.07	1.14	1.12	1.07	1.04	1.24	1.22	1.15	1.13	1.50	1.45
3ph fault Edvn	Trip Edvn-Bsck	24	70%	70%	70%	NH-LI	2	1.29	ROCKY115	1.24	ROCKY115	1.09	1.08	1.08	1.06	1.07	1.05	1.03	0.99	1.07	1.04	1.12	1.10	1.05	1.02	1.17	1.17	1.12	1.11	1.29	1.24
1ph fault Edvn	Trip Edvn-Bsck	21	70%	70%	70%	ALL IN	2	1.25	ROCKY115	1.16	ROCKY115	1.13	1.09	1.11	1.08	1.11	1.07	1.06	1.05	1.11	1.06	1.13	1.12	1.05	1.04	1.18	1.14	1.16	1.09	1.25	1.16
1ph fault Edvn	Trip Edvn-Bsck	22	70%	70%	70%	PL-LM	2	1.27	ROCKY115	1.11	BSCK345	1.08	1.04	1.06	1.04	1.07	1.04	1.04	1.02	1.06	1.03	1.13	1.11	1.04	1.03	1.21	1.11	1.11	1.05	1.27	1.11
1ph fault Edvn	Trip Edvn-Bsck	23	70%	70%	70%	LM-PV	2	1.38	ROCKY115	1.19	ROCKY115	1.10	1.05	1.08	1.04	1.08	1.04	1.03	1.02	1.07	1.04	1.12	1.10	1.04	1.03	1.20	1.12	1.11	1.07	1.38	1.19
1ph fault Edvn	Trip Edvn-Bsck	24	70%	70%	70%	NH-LI	2	1.20	ROCKY115	1.10	BSCK345	1.10	1.04	1.08	1.04	1.08	1.02	1.01	0.98	1.07	1.01	1.12	1.10	1.03	1.01	1.15	1.10	1.10	1.05	1.20	1.10
3ph fault Nrwk	Trip Nrwk-Plum	26	70%	70%	70%	ALL IN	2	1.43	ROCKY115	1.25	ROCKY115	1.13	1.12	1.09	1.09	1.26	1.17	1.15	1.11	1.28	1.16	1.14	1.12	1.10	1.08	1.18	1.17	1.15	1.12	1.43	1.25
3ph fault Nrwk	Trip Nrwk-Plum	27	70%	70%	70%	ED-BS	2	1.24	ROCKY115	1.19	ROCKY115	1.15	1.13	1.13	1.11	1.21	1.07	1.10	1.05	1.23	1.08	1.16	1.13	1.07	1.04	1.19	1.14	1.18	1.14	1.24	1.19
3ph fault Nrwk	Trip Nrwk-Plum	28	70%	70%	70%	PL-LM	2	1.30	EDVN345	1.17	EDVN345	1.10	1.07	1.11	1.07	1.28	1.17	1.17	1.12	1.30	1.17	1.15	1.12	1.08	1.06	1.18	1.14	1.12	1.11	1.25	1.14
3ph fault Nrwk	Trip Nrwk-Plum	29	70%	70%	70%	LM-PV	2	1.48	ROCKY115	1.29	ROCKY115	1.11	1.09	1.10	1.07	1.25	1.16	1.16	1.12	1.26	1.16	1.15	1.11	1.06	1.04	1.17	1.19	1.09	1.48	1.29	
3ph fault Nrwk	Trip Nrwk-Plum	30	70%	70%	70%	NH-LI	2	1.37	ROCKY115	1.28	ROCKY115	1.11	1.09	1.09	1.06	1.22	1.09	1.11	1.05	1.23	1.09	1.13	1.09	1.03	1.03	1.15	1.11	1.17	1.10	1.37	1.28
3ph fault Sngr	Trip Sngr-Edvn	26	70%	70%	70%	ALL IN	2	1.31	ROCKY115	1.27	ROCKY115	1.28	1.16	1.21	1.13	1.26	1.17	1.17	1.12	1.26	1.17	1.12	1.11	1.07	1.05	1.22	1.21	1.22	1.15	1.31	1.27
3ph fault Sngr	Trip Sngr-Edvn	27	70%	70%	70%	ED-BS	2	1.26	ROCKY115	1.21	ROCKY115	1.19	1.13	1.14	1.11	1.20	1.10	1.15	1.06	1.20	1.09	1.14	1.13	1.07	1.05	1.16	1.16	1.16	1.16	1.26	1.21
3ph fault Sngr	Trip Sngr-Edvn	28	70%	70%	70%	PL-LM	2	1.31	ROCKY115	1.20	ROCKY115	1.20	1.10	1.14	1.10	1.16	1.07	1.12	1.06	1.16	1.07	1.12	1.11	1.06	1.05	1.19	1.16	1.20	1.14	1.31	1.20
3ph fault Sngr	Trip Sngr-Edvn	29	70%	70%	70%	LM-PV	2	1.35	ROCKY115	1.32	ROCKY115	1.27	1.12	1.20	1.12	1.27	1.12	1.17	1.09	1.26	1.12	1.14	1.10	1.07	1.03	1.24	1.21	1.18	1.13	1.35	1.32
3ph fault Sngr	Trip Sngr-Edvn	30	70%	70%	70%	NH-LI	2	1.24	EDVN345	1.17	ROCKY115	1.23	1.10	1.17	1.10	1.24	1.08	1.15	1.05	1.24	1.08	1.13	1.09	1.05	1.02	1.18	1.14	1.13	1.11	1.23	1.17
3ph fault Nrwk	Trip Nrwk Fault	26	70%	70%	70%	ALL IN	2	1.25	ROCKY115	1.23	ROCKY115	1.18	1.13	1.13	1.11	1.19	1.10	1.13	1.09	1.20	1.11	1.14	1.10	1.08	1.05	1.18	1.18	1.16	1.16	1.25	1.23
3ph fault Nrwk	Trip Nrwk Fault	27	70%	70%	70%	ED-BS	2	1.27	ROCKY115	1.27	ROCKY115	1.15	1.15	1.12	1.12	1.17	1.12	1.13	1.08	1.17	1.12	1.14	1.13	1.08	1.06	1.17	1.17	1.15	1.15	1.27	1.27
3ph fault Nrwk	Trip Nrwk Fault	28	70%	70%	70%	PL-LM	2	1.22	ROCKY115	1.21	ROCKY115	1.17	1.10	1.15	1.09	1.17	1.08	1.13	1.06	1.16	1.08	1.12	1.11	1.06	1.06	1.16	1.16	1.13	1.13	1.22	1.21
3ph fault Nrwk	Trip Nrwk Fault	29	70%	70%	70%	LM-PV	2	1.35	ROCKY115	1.32	ROCKY115	1.15	1.10	1.15	1.09	1.16	1.11	1.13	1.07	1.16	1.11	1.12	1.10	1.05	1.04	1.21	1.21	1.17	1.17	1.35	1.32
3ph fault Nrwk	Trip Nrwk Fault	30	70%	70%	70%	NH-LI	2	1.27	ROCKY115	1.22	ROCKY115	1.14	1.09	1.11	1.07	1.15	1.06	1.10	1.03	1.15	1.06	1.11	1.09	1.05	1.03	1.13	1.13	1.11	1.10	1.27	1.22
3ph fault Plum	Trip Plum Fault	26	70%	70%	70%	ALL IN	2	1.36	ROCKY115	1.36	ROCKY115	1.14	1.11	1.14	1.14	1.12	1.08	1.07	1.05	1.15	1.09	1.11	1.10	1.06	1.04	1.19	1.19	1.19	1.19	1.36	1.36
3ph fault Plum	Trip Plum Fault	27	70%	70%	70%	ED-BS	2	1.32	ROCKY115	1.32	ROCKY115	1.12	1.10	1.12	1.12	1.10	1.09	1.06	1.05	1.10	1.09	1.13	1.10	1.07	1.04	1.19	1.18	1.18	1.17	1.32	1.32
3ph fault Plum	Trip Plum Fault	28	70%	70%	70%	PL-LM	2	1.19	ROCKY115	1.18	ROCKY115	1.08	1.07	1.10	1.10	1.08	1.06	1.05	1.03	1.08	1.07	1.10	1.10	1.04	1.04	1.12	1.11	1.13	1.11	1.19	1.18
3ph fault Plum	Trip Plum Fault	29	70%	70%	70%	LM-PV	2	1.41	ROCKY115	1.39	ROCKY115	1.12	1.11	1.13	1.13	1.07	1.06	1.05	1.03	1.10	1.07	1.09	1.08	1.05	1.02	1.19	1.19	1.19	1.19	1.41	1.39
3ph fault Plum	Trip Plum Fault	30	70%	70%	70%	NH-LI	2	1.30	ROCKY115	1.29	ROCKY115	1.11	1.08	1.11	1.11	1.09	1.05	1.03	0.99	1.10	1.06	1.10	1.08	1.05	1.02	1.17	1.16	1.17	1.15	1.30	1.29

CASE #: case 5, Case 5 + 10 miles, Case 5 + 20 miles at 30% load

DATE:

DONE BY: PB POWER

PLUM345 PLUM345 PLUM115 PLUM115 NRWK345 NRWK345 NRWK115 NRWK115 EDVN345 EDVN345 BSCK345 BSCK345 ESHR115 ESHR115 FRBG115 FRBG115 STONY115 STONY115 ROCK115 ROCK115

SWITCHING EVENT	SYSTEM CONDITIONS		MAXIMUM TOV		TOV		PLUM115		NRWK345		NRWK115		EDVN345		BSCK345		ESHR115		FRBG115		STONY115		ROCK115		
	LOAD LEVEL	SHUNT LINE REACTS OUT	2C	6C	LOCATION (6C2C)	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	
Old Case 5																									
3-Ph line Plumtree (PT-LM)	30%		1.65	1.40	STONY115	1.65	1.36	1.45	1.36	1.60	1.34	1.47	1.24	1.59	1.34	1.35	1.20	1.30	1.19	1.29	1.13	1.49	1.40	1.46	1.36
3-Ph line East Devon (ED-BK)	30%		2.00	1.52	EDVN345	1.76	1.42	1.67	1.35	1.95	1.52	1.73	1.37	2.00	1.52	1.37	1.19	1.43	1.23	1.39	1.20	1.70	1.34	1.74	1.29
1-Ph line East Devon (ED-BK)	30%		1.32	1.09	EDVN345	1.22	1.07	1.22	1.06	1.32	1.09	1.24	1.06	1.32	1.09	1.15	1.05	1.13	1.05	1.15	1.03	1.25	1.06	1.25	1.04
3-Ph line Norwalk (NW-PT)	30%		1.83	1.53	NRWK345	1.61	1.21	1.42	1.22	1.83	1.53	1.66	1.40	1.81	1.52	1.54	1.31	1.42	1.32	1.34	1.24	1.47	1.22	1.55	1.34
3-Ph line Singer (SI-ED)	30%		1.73	1.50	NRWK345	1.73	1.45	1.67	1.36	1.72	1.50	1.68	1.41	1.68	1.50	1.46	1.34	1.49	1.34	1.50	1.32	1.66	1.41	1.67	1.42
3-Ph bus Norwalk	30%		1.89	1.47	NRWK345	1.82	1.40	1.68	1.34	1.89	1.47	1.68	1.36	1.89	1.46	1.51	1.30	1.42	1.29	1.43	1.25	1.70	1.34	1.69	1.35
3-Ph bus Plumtree	30%		1.69	1.36	NRWK345	1.63	1.30	1.57	1.30	1.66	1.36	1.55	1.27	1.69	1.35	1.44	1.23	1.38	1.23	1.35	1.19	1.67	1.31	1.69	1.31
3-Ph line East Devon (ED-BK)	30%	Plum-LM	1.92	1.61	EDVN345	1.85	1.55	1.82	1.46	1.91	1.59	1.71	1.40	1.92	1.61	1.33	1.10	1.33	1.17	1.31	1.15	1.82	1.48	1.71	1.41
1-Ph line East Devon (ED-BK)	30%	Plum-LM	1.36	1.10	EDVN345	1.36	1.09	1.35	1.07	1.36	1.10	1.28	1.07	1.35	1.10	1.14	1.05	1.16	1.05	1.16	1.02	1.35	1.07	1.28	1.05
3-Ph line Norwalk (NW-PT)	30%	Plum-LM	1.97	1.48	NRWK345	1.78	1.34	1.73	1.34	1.95	1.48	1.73	1.34	1.97	1.45	1.56	1.26	1.60	1.28	1.54	1.14	1.71	1.31	1.72	1.35
3-Ph line Singer (SI-ED)	30%	Plum-LM	2.15	1.44	NRWK345	2.11	1.44	1.92	1.35	2.15	1.44	1.82	1.32	2.08	1.42	1.66	1.26	1.61	1.22	1.50	1.19	1.92	1.30	1.92	1.31
3-Ph bus Norwalk	30%	Plum-LM	2.11	1.48	NRWK345	2.10	1.46	1.86	1.38	2.11	1.48	1.80	1.33	2.05	1.46	1.57	1.24	1.55	1.22	1.46	1.17	1.90	1.38	1.87	1.33
3-Ph bus Plumtree	30%	Plum-LM	1.64	1.37	STONY115	1.64	1.35	1.47	1.33	1.59	1.33	1.47	1.25	1.56	1.32	1.29	1.15	1.27	1.19	1.24	1.12	1.47	1.37	1.42	1.33
3-Ph line Plumtree (PT-LM)	30%	East Devon-Besek	1.80	1.52	NRWK345	1.78	1.52	1.67	1.37	1.79	1.52	1.55	1.33	1.80	1.52	1.28	1.12	1.27	1.15	1.31	1.13	1.78	1.38	1.70	1.34
3-Ph line Norwalk (NW-PT)	30%	East Devon-Besek	1.99	1.67	EDVN345	1.38	1.16	1.41	1.20	1.98	1.66	1.61	1.43	1.99	1.67	1.24	1.12	1.34	1.24	1.33	1.18	1.43	1.21	1.46	1.29
3-Ph line Singer (SI-ED)	30%	East Devon-Besek	1.95	1.60	EDVN345	1.77	1.39	1.76	1.32	1.91	1.49	1.72	1.34	1.95	1.50	1.31	1.21	1.51	1.23	1.37	1.21	1.77	1.30	1.78	1.26
3-Ph bus Norwalk	30%	East Devon-Besek	1.94	1.55	NRWK345	1.74	1.45	1.75	1.39	1.92	1.55	1.64	1.39	1.94	1.55	1.24	1.13	1.43	1.24	1.41	1.21	1.79	1.40	1.75	1.35
3-Ph bus Plumtree	30%	East Devon-Besek	1.70	1.49	EDVN345	1.67	1.37	1.46	1.34	1.69	1.48	1.55	1.32	1.70	1.49	1.34	1.19	1.35	1.16	1.34	1.18	1.57	1.34	1.58	1.33
3-Ph line Plumtree (PT-LM)	30%	Norwalk H-Nport	1.59	1.39	PLUM345	1.59	1.39	1.48	1.31	1.57	1.39	1.55	1.31	1.52	1.37	1.32	1.18	1.22	1.18	1.25	1.12	1.47	1.29	1.41	1.28
3-Ph line East Devon (ED-BK)	30%	Norwalk H-Nport	1.70	1.53	NRWK115	1.61	1.28	1.53	1.25	1.68	1.39	1.64	1.53	1.70	1.42	1.34	1.14	1.37	1.14	1.39	1.16	1.54	1.27	1.65	1.27
1-Ph line East Devon (ED-BK)	30%	Norwalk H-Nport	1.25	1.07	EDVN345	1.15	1.05	1.15	1.05	1.19	1.06	1.25	1.06	1.22	1.07	1.13	1.04	1.12	1.04	1.11	1.02	1.17	1.04	1.18	1.03
3-Ph line Norwalk (NW-PT)	30%	Norwalk H-Nport	1.82	1.49	NRWK345	1.53	1.15	1.44	1.21	1.82	1.49	1.66	1.42	1.78	1.48	1.43	1.26	1.39	1.23	1.31	1.19	1.49	1.21	1.50	1.30
3-Ph line Singer (SI-ED)	30%	Norwalk H-Nport	1.87	1.43	EDVN345	1.82	1.37	1.74	1.32	1.87	1.42	1.84	1.36	1.85	1.43	1.53	1.23	1.47	1.22	1.44	1.21	1.71	1.30	1.78	1.28
3-Ph bus Norwalk	30%	Norwalk H-Nport	1.85	1.44	EDVN345	1.73	1.40	1.65	1.34	1.84	1.44	1.79	1.40	1.85	1.44	1.49	1.24	1.47	1.23	1.42	1.21	1.64	1.37	1.67	1.37
3-Ph bus Plumtree	30%	Norwalk H-Nport	1.58	1.37	EDVN345	1.52	1.30	1.43	1.29	1.58	1.37	1.53	1.30	1.56	1.37	1.36	1.20	1.23	1.20	1.29	1.17	1.41	1.31	1.52	1.29
3-Ph line Plumtree (PT-LM)	30%	LM-Pleasant V	1.69	1.41	STONY115	1.68	1.35	1.52	1.35	1.69	1.35	1.57	1.25	1.66	1.34	1.45	1.19	1.36	1.20	1.31	1.15	1.58	1.41	1.56	1.40
3-Ph line East Devon (ED-BK)	30%	LM-Pleasant V	1.84	1.58	EDVN345	1.75	1.49	1.70	1.41	1.82	1.58	1.64	1.42	1.84	1.58	1.38	1.16	1.37	1.24	1.47	1.26	1.67	1.43	1.65	1.40
1-Ph line East Devon (ED-BK)	30%	LM-Pleasant V	1.29	1.08	EDVN345	1.26	1.07	1.27	1.06	1.27	1.07	1.22	1.05	1.29	1.08	1.24	1.04	1.19	1.05	1.19	1.02	1.26	1.06	1.27	1.05
3-Ph line Norwalk (NW-PT)	30%	LM-Pleasant V	2.15	1.44	NRWK345	1.76	1.28	1.68	1.27	2.15	1.44	1.77	1.35	2.07	1.43	1.62	1.26	1.63	1.26	1.64	1.23	1.58	1.29	1.75	1.34
3-Ph line Singer (SI-ED)	30%	LM-Pleasant V	2.06	1.39	NRWK345	1.94	1.36	1.83	1.31	2.06	1.39	1.75	1.28	2.05	1.38	1.68	1.27	1.54	1.23	1.68	1.25	1.86	1.30	1.85	1.30
3-Ph bus Norwalk	30%	LM-Pleasant V	2.11	1.44	EDVN345	2.06	1.43	1.92	1.32	2.11	1.42	1.78	1.31	2.05	1.44	1.64	1.26	1.54	1.24	1.88	1.23	1.88	1.33	1.96	1.32
3-Ph bus Plumtree	30%	LM-Pleasant V	1.66	1.36	STONY115	1.66	1.30	1.47	1.32	1.64	1.33	1.57	1.24	1.60	1.33	1.42	1.21	1.28	1.20	1.35	1.18	1.49	1.36	1.52	1.35

CASE #: case 5, Case 5 + 10 miles, Case 5 + 20 miles at 30% load

DATE:

DONE BY: PB POWER

PLUM345 PLUM345 PLUM115 PLUM115 NRWK345 NRWK345 NRWK115 NRWK115 EDVN345 EDVN345 BSCK345 BSCK345 ESHR115 ESHR115 FRBG115 FRBG115 STONY115 STONY115 ROCK115 ROCK115

SWITCHING EVENT	SYSTEM CONDITIONS		MAXIMUM TOV		TOV PLUM345		PLUM115		NRWK345		NRWK115		EDVN345		BSCK345		ESHR115		FRBG115		STONY115		ROCK115				
	LOCATION	LOAD LEVEL	SHUNT LINE CAPS	REACTS	2C	6C	LOCATION (6C2C)	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C			
Case 5 + 10 miles																											
3-Ph line	Plumtree (PT-LM)	30%			1.55	1.56	STONY115	1.55	1.29	1.45	1.47	1.41	1.25	1.31	1.27	1.40	1.21	1.34	1.17	1.30	1.20	1.27	1.18	1.55	1.56	1.50	1.51
3-Ph line	East Devon (ED-BK)	30%			1.63	1.33	NRWK115	1.49	1.22	1.40	1.22	1.63	1.22	1.42	1.33	1.58	1.23	1.59	1.20	1.35	1.19	1.31	1.20	1.46	1.22	1.51	1.23
1-Ph line	East Devon (ED-BK)	30%			1.46	1.12	EDVN345	1.37	1.09	1.40	1.09	1.42	1.11	1.41	1.09	1.46	1.12	1.21	1.05	1.19	1.07	1.24	1.05	1.46	1.09	1.44	1.07
3-Ph line	Norwalk (NW-PT)	30%			1.62	1.37	ROCK115	1.55	1.14	1.45	1.16	1.62	1.19	1.37	1.26	1.56	1.18	1.28	1.16	1.45	1.15	1.38	1.16	1.55	1.25	1.51	1.37
3-Ph line	Singer (SI-ED)	30%			1.71	1.70	NRWK115	1.54	1.43	1.53	1.48	1.64	1.52	1.71	1.70	1.66	1.58	1.45	1.20	1.48	1.19	1.32	1.30	1.59	1.57	1.67	1.56
3-Ph bus	Norwalk	30%			1.59	1.39	NRWK115	1.44	1.19	1.43	1.33	1.55	1.24	1.51	1.39	1.59	1.29	1.45	1.14	1.43	1.16	1.40	1.19	1.46	1.29	1.49	1.32
3-Ph bus	Plumtree	30%			1.67	1.34	NRWK115	1.59	1.14	1.35	1.33	1.42	1.14	1.41	1.34	1.34	1.13	1.30	1.12	1.37	1.15	1.24	1.15	1.53	1.31	1.67	1.31
3-Ph line	East Devon (ED-BK)	30%	Plum-LM		1.91	1.60	ROCK115	1.89	1.43	1.87	1.51	1.85	1.41	1.80	1.50	1.86	1.39	1.35	1.26	1.62	1.47	1.47	1.33	1.89	1.58	1.91	1.60
1-Ph line	East Devon (ED-BK)	30%	Plum-LM		1.60	1.18	EDVN345	1.54	1.18	1.55	1.16	1.53	1.17	1.42	1.13	1.56	1.18	1.12	1.05	1.25	1.08	1.23	1.06	1.60	1.15	1.58	1.11
3-Ph line	Norwalk (NW-PT)	30%	Plum-LM		1.75	1.64	ROCK115	1.62	1.39	1.59	1.39	1.68	1.23	1.52	1.22	1.59	1.21	1.41	1.15	1.43	1.18	1.49	1.15	1.63	1.51	1.75	1.64
3-Ph line	Singer (SI-ED)	30%	Plum-LM		1.61	1.46	NRWK115	1.58	1.35	1.49	1.32	1.61	1.32	1.48	1.46	1.58	1.33	1.35	1.20	1.43	1.18	1.37	1.21	1.50	1.38	1.56	1.46
3-Ph bus	Norwalk	30%	Plum-LM		1.90	1.33	ROCK115	1.77	1.31	1.75	1.32	1.67	1.29	1.62	1.33	1.68	1.30	1.41	1.20	1.42	1.21	1.40	1.20	1.90	1.30	1.86	1.33
3-Ph bus	Plumtree	30%	Plum-LM		1.73	1.52	STONY115	1.61	1.32	1.60	1.39	1.47	1.23	1.29	1.23	1.46	1.20	1.32	1.17	1.40	1.19	1.30	1.16	1.73	1.52	1.70	1.48
3-Ph line	Plumtree (PT-LM)	30%	East Devon-Besek		1.98	1.74	ROCK115	1.80	1.43	1.80	1.72	1.76	1.36	1.68	1.52	1.81	1.40	1.36	1.18	1.39	1.26	1.39	1.29	1.98	1.72	1.94	1.74
3-Ph line	Norwalk (NW-PT)	30%	East Devon-Besek		2.10	1.68	ROCK115	1.47	1.31	1.51	1.47	2.06	1.60	1.62	1.47	2.10	1.62	1.28	1.17	1.40	1.28	1.48	1.45	1.59	1.58	1.73	1.68
3-Ph line	Singer (SI-ED)	30%	East Devon-Besek		1.70	1.40	NRWK115	1.51	1.16	1.55	1.23	1.68	1.19	1.63	1.40	1.70	1.23	1.34	1.21	1.60	1.19	1.45	1.17	1.55	1.20	1.55	1.27
3-Ph bus	Norwalk	30%	East Devon-Besek		1.78	1.27	ROCK115	1.56	1.19	1.44	1.21	1.75	1.24	1.47	1.25	1.78	1.26	1.36	1.16	1.53	1.19	1.37	1.17	1.43	1.26	1.44	1.27
3-Ph bus	Plumtree	30%	East Devon-Besek		1.90	1.38	STONY115	1.50	1.24	1.53	1.35	1.53	1.22	1.33	1.28	1.59	1.23	1.40	1.17	1.33	1.16	1.38	1.18	1.76	1.38	1.90	1.33
3-Ph line	Plumtree (PT-LM)	30%	Norwalk H-Nport		1.67	1.65	STONY115	1.56	1.39	1.50	1.47	1.48	1.32	1.50	1.36	1.46	1.29	1.41	1.22	1.34	1.23	1.25	1.21	1.67	1.65	1.66	1.65
3-Ph line	East Devon (ED-BK)	30%	Norwalk H-Nport		1.66	1.41	ESHR115	1.57	1.25	1.48	1.33	1.63	1.26	1.57	1.38	1.66	1.29	1.52	1.16	1.48	1.41	1.34	1.21	1.44	1.30	1.50	1.29
1-Ph line	East Devon (ED-BK)	30%	Norwalk H-Nport		1.54	1.13	EDVN345	1.36	1.10	1.32	1.09	1.44	1.12	1.54	1.10	1.46	1.13	1.19	1.05	1.27	1.08	1.26	1.05	1.34	1.08	1.35	1.07
3-Ph line	Norwalk (NW-PT)	30%	Norwalk H-Nport		1.61	1.33	NRWK345	1.47	1.15	1.53	1.26	1.54	1.33	1.50	1.31	1.54	1.32	1.37	1.21	1.43	1.21	1.30	1.18	1.61	1.25	1.58	1.33
3-Ph line	Singer (SI-ED)	30%	Norwalk H-Nport		1.54	1.41	NRWK115	1.46	1.20	1.37	1.30	1.54	1.22	1.53	1.41	1.50	1.18	1.44	1.20	1.38	1.20	1.36	1.17	1.44	1.38	1.48	1.38
3-Ph bus	Norwalk	30%	Norwalk H-Nport		1.65	1.31	ROCK115	1.47	1.20	1.55	1.25	1.52	1.20	1.65	1.27	1.49	1.20	1.46	1.18	1.40	1.19	1.39	1.18	1.52	1.30	1.54	1.31
3-Ph bus	Plumtree	30%	Norwalk H-Nport		1.69	1.36	ROCK115	1.45	1.18	1.40	1.28	1.39	1.18	1.39	1.22	1.41	1.18	1.40	1.16	1.34	1.17	1.33	1.15	1.63	1.33	1.69	1.36
3-Ph line	Plumtree (PT-LM)	30%	LM-Pleasant V		1.62	1.60	STONY115	1.61	1.40	1.54	1.47	1.53	1.32	1.39	1.36	1.53	1.31	1.34	1.17	1.31	1.26	1.33	1.18	1.62	1.60	1.59	1.57
3-Ph line	East Devon (ED-BK)	30%	LM-Pleasant V		1.81	1.66	ROCK115	1.67	1.46	1.61	1.44	1.74	1.46	1.63	1.52	1.76	1.56	1.38	1.32	1.54	1.38	1.49	1.36	1.61	1.60	1.81	1.66
1-Ph line	East Devon (ED-BK)	30%	LM-Pleasant V		1.52	1.16	EDVN345	1.43	1.14	1.45	1.12	1.48	1.15	1.39	1.11	1.52	1.16	1.24	1.06	1.34	1.09	1.32	1.07	1.47	1.11	1.49	1.09
3-Ph line	Norwalk (NW-PT)	30%	LM-Pleasant V		1.85	1.46	ROCK115	1.77	1.22	1.76	1.25	1.74	1.29	1.49	1.27	1.86	1.28	1.49	1.21	1.57	1.29	1.46	1.24	1.85	1.32	1.72	1.46
3-Ph line	Singer (SI-ED)	30%	LM-Pleasant V		1.63	1.48	STONY115	1.59	1.37	1.56	1.44	1.61	1.38	1.48	1.46	1.60	1.41	1.52	1.26	1.46	1.26	1.47	1.22	1.59	1.48	1.63	1.42
3-Ph bus	Norwalk	30%	LM-Pleasant V		1.78	1.36	PLUM115	1.71	1.33	1.77	1.36	1.72	1.34	1.59	1.34	1.69	1.35	1.52	1.23	1.46	1.26	1.62	1.24	1.72	1.32	1.78	1.30
3-Ph bus	Plumtree	30%	LM-Pleasant V		1.74	1.47	STONY115	1.53	1.29	1.48	1.41	1.48	1.29	1.35	1.34	1.47	1.30	1.43	1.19	1.37	1.22	1.36	1.21	1.66	1.47	1.74	1.42

CASE #: case 5, Case 5 + 10 miles, Case 5 + 20 miles at 30% load

DATE:

DONE BY: PB POWER

PLUM345 PLUM345 PLUM115 PLUM115 NRWK345 NRWK345 NRWK115 NRWK115 EDVN345 EDVN345 BSCK345 BSCK345 ESHR115 ESHR115 FRBG115 FRBG115 STONY115 STONY115 ROCK115 ROCK115

SWITCHING EVENT	SYSTEM CONDITIONS		MAXIMUM TOV		TOV PLUM345		PLUM115		NRWK345		NRWK115		EDVN345		BSCK345		ESHR115		FRBG115		STONY115		ROCK115				
	LOCATION	LOAD LEVEL	SHUNT LINE CAPS	REACTS OUT	2C	6C	LOCATION (6C2C)	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C			
Case 5 + 20 miles																											
3-Ph line	Plumtree (PT-LM)	30%			1.56	1.44	STONY115	1.56	1.30	1.48	1.34	1.44	1.25	1.36	1.22	1.47	1.23	1.37	1.18	1.32	1.18	1.26	1.14	1.47	1.44	1.53	1.44
3-Ph line	East Devon (ED-BK)	30%			1.70	1.32	ESHR115	1.50	1.21	1.43	1.26	1.67	1.26	1.46	1.27	1.70	1.29	1.46	1.18	1.47	1.32	1.35	1.23	1.44	1.23	1.56	1.25
1-Ph line	East Devon (ED-BK)	30%			1.61	1.13	EDVN345	1.44	1.10	1.44	1.08	1.55	1.12	1.50	1.09	1.61	1.13	1.23	1.05	1.28	1.07	1.28	1.05	1.43	1.08	1.36	1.06
3-Ph line	Norwalk (NW-PT)	30%			1.71	1.35	ROCK115	1.69	1.16	1.64	1.17	1.62	1.22	1.45	1.18	1.58	1.21	1.40	1.16	1.56	1.22	1.30	1.14	1.71	1.21	1.67	1.35
3-Ph line	Singer (SI-ED)	30%			1.54	1.41	ROCK115	1.43	1.15	1.41	1.26	1.53	1.13	1.47	1.31	1.54	1.16	1.39	1.15	1.40	1.14	1.39	1.15	1.44	1.36	1.46	1.41
3-Ph bus	Norwalk	30%			1.68	1.27	ROCK115	1.52	1.14	1.55	1.18	1.50	1.13	1.52	1.21	1.50	1.14	1.41	1.14	1.43	1.14	1.38	1.15	1.64	1.26	1.68	1.27
3-Ph bus	Plumtree	30%			1.78	1.31	STONY115	1.52	1.13	1.36	1.26	1.36	1.13	1.30	1.14	1.41	1.12	1.36	1.13	1.33	1.13	1.34	1.12	1.60	1.31	1.78	1.31
3-Ph line	East Devon (ED-BK)	30%	Plum-LM		2.25	1.38	STONY115	1.89	1.34	2.05	1.30	1.86	1.33	1.84	1.27	1.92	1.36	1.43	1.20	1.90	1.20	1.51	1.23	2.08	1.38	2.25	1.36
1-Ph line	East Devon (ED-BK)	30%	Plum-LM		1.59	1.19	PLUM345	1.57	1.19	1.53	1.17	1.59	1.18	1.45	1.13	1.59	1.19	1.14	1.06	1.23	1.08	1.22	1.06	1.58	1.15	1.49	1.11
3-Ph line	Norwalk (NW-PT)	30%	Plum-LM		1.65	1.51	ROCK115	1.61	1.42	1.59	1.40	1.65	1.23	1.47	1.18	1.61	1.22	1.44	1.16	1.39	1.21	1.37	1.16	1.57	1.42	1.59	1.51
3-Ph line	Singer (SI-ED)	30%	Plum-LM		1.86	1.34	ROCK115	1.86	1.29	1.70	1.29	1.74	1.27	1.62	1.33	1.64	1.27	1.42	1.17	1.41	1.19	1.42	1.17	1.74	1.33	1.74	1.34
3-Ph bus	Norwalk	30%	Plum-LM		1.65	1.32	NRWK115	1.77	1.29	1.69	1.25	1.64	1.28	1.58	1.32	1.62	1.29	1.47	1.21	1.43	1.21	1.38	1.18	1.79	1.24	1.85	1.23
3-Ph bus	Plumtree	30%	Plum-LM		1.83	1.43	STONY115	1.66	1.32	1.66	1.34	1.50	1.27	1.36	1.21	1.55	1.24	1.33	1.16	1.36	1.18	1.29	1.15	1.80	1.43	1.83	1.41
3-Ph line	Plumtree (PT-LM)	30%	East Devon-Besek		1.98	1.43	ROCK115	1.86	1.39	1.91	1.35	1.75	1.36	1.69	1.26	1.82	1.34	1.31	1.17	1.51	1.17	1.42	1.14	1.98	1.41	1.86	1.43
3-Ph line	Norwalk (NW-PT)	30%	East Devon-Besek		2.06	1.60	ROCK115	1.50	1.30	1.66	1.41	2.04	1.47	1.84	1.49	2.06	1.49	1.27	1.19	1.36	1.25	1.42	1.32	1.79	1.53	1.73	1.60
3-Ph line	Singer (SI-ED)	30%	East Devon-Besek		1.88	1.30	EDVN345	1.64	1.24	1.62	1.27	1.81	1.28	1.52	1.23	1.88	1.30	1.50	1.15	1.52	1.18	1.45	1.21	1.66	1.24	1.63	1.23
3-Ph bus	Norwalk	30%	East Devon-Besek		1.87	1.33	EDVN345	1.69	1.23	1.65	1.28	1.87	1.29	1.85	1.32	1.85	1.33	1.26	1.13	1.36	1.20	1.42	1.22	1.72	1.27	1.65	1.26
3-Ph bus	Plumtree	30%	East Devon-Besek		1.82	1.42	STONY115	1.69	1.26	1.60	1.37	1.66	1.30	1.44	1.27	1.72	1.30	1.36	1.13	1.32	1.17	1.33	1.22	1.80	1.42	1.82	1.37
3-Ph line	Plumtree (PT-LM)	30%	Norwalk H-Nport		1.74	1.58	ROCK115	1.74	1.40	1.58	1.40	1.49	1.36	1.54	1.33	1.49	1.32	1.39	1.23	1.36	1.23	1.27	1.20	1.68	1.55	1.73	1.58
3-Ph line	East Devon (ED-BK)	30%	Norwalk H-Nport		1.70	1.46	ROCK115	1.56	1.34	1.49	1.33	1.65	1.39	1.66	1.36	1.70	1.41	1.40	1.21	1.61	1.37	1.38	1.21	1.63	1.41	1.66	1.46
1-Ph line	East Devon (ED-BK)	30%	Norwalk H-Nport		1.58	1.13	EDVN345	1.45	1.10	1.41	1.09	1.53	1.12	1.54	1.11	1.58	1.13	1.16	1.05	1.30	1.07	1.27	1.05	1.39	1.08	1.38	1.07
3-Ph line	Norwalk (NW-PT)	30%	Norwalk H-Nport		1.74	1.31	NRWK345	1.65	1.18	1.67	1.26	1.67	1.31	1.54	1.27	1.61	1.31	1.46	1.19	1.54	1.26	1.40	1.15	1.74	1.24	1.72	1.31
3-Ph line	Singer (SI-ED)	30%	Norwalk H-Nport		1.62	1.30	ROCK115	1.43	1.17	1.41	1.21	1.59	1.18	1.52	1.24	1.59	1.19	1.62	1.19	1.41	1.17	1.51	1.17	1.52	1.27	1.61	1.30
3-Ph bus	Norwalk	30%	Norwalk H-Nport		1.65	1.31	STONY115	1.53	1.17	1.50	1.28	1.55	1.21	1.65	1.25	1.60	1.21	1.36	1.17	1.36	1.18	1.35	1.17	1.50	1.31	1.57	1.27
3-Ph bus	Plumtree	30%	Norwalk H-Nport		1.92	1.37	STONY115	1.60	1.18	1.56	1.33	1.46	1.19	1.42	1.22	1.49	1.18	1.41	1.15	1.41	1.17	1.34	1.13	1.80	1.37	1.92	1.36
3-Ph line	Plumtree (PT-LM)	30%	LM-Pleasant V		1.68	1.39	STONY115	1.68	1.36	1.58	1.39	1.47	1.28	1.44	1.37	1.47	1.25	1.32	1.19	1.34	1.19	1.28	1.21	1.59	1.39	1.54	1.38
3-Ph line	East Devon (ED-BK)	30%	LM-Pleasant V		1.87	1.52	ROCK115	1.69	1.37	1.65	1.42	1.66	1.35	1.74	1.47	1.71	1.35	1.48	1.22	1.85	1.41	1.56	1.31	1.81	1.46	1.87	1.52
1-Ph line	East Devon (ED-BK)	30%	LM-Pleasant V		1.60	1.16	EDVN345	1.53	1.14	1.48	1.11	1.56	1.15	1.43	1.11	1.60	1.16	1.20	1.07	1.33	1.08	1.34	1.07	1.52	1.11	1.49	1.09
3-Ph line	Norwalk (NW-PT)	30%	LM-Pleasant V		1.69	1.38	ROCK115	1.69	1.22	1.68	1.26	1.68	1.30	1.48	1.26	1.61	1.30	1.46	1.20	1.43	1.35	1.53	1.20	1.64	1.25	1.62	1.38
3-Ph line	Singer (SI-ED)	30%	LM-Pleasant V		1.59	1.36	NRWK115	1.54	1.28	1.55	1.30	1.57	1.30	1.44	1.36	1.59	1.31	1.46	1.24	1.49	1.22	1.50	1.26	1.54	1.34	1.57	1.31
3-Ph bus	Norwalk	30%	LM-Pleasant V		1.87	1.50	STONY115	1.68	1.35	1.59	1.46	1.66	1.31	1.51	1.41	1.61	1.27	1.47	1.20	1.46	1.23	1.51	1.27	1.71	1.50	1.87	1.44
3-Ph bus	Plumtree	30%	LM-Pleasant V		1.85	1.55	STONY115	1.67	1.30	1.54	1.43	1.50	1.25	1.43	1.35	1.52	1.27	1.48	1.18	1.38	1.20	1.38	1.23	1.71	1.55	1.85	1.47

CASE #: OLD CASE 5

DATE: 09-Dec-04

DONE BY: PB POWER

SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV				TOV																		
TYPE	LOCATION	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION (6C)	PLUM345		PLUM115		NRWK345		NRWK115		EDVN345		BSCK345		ESHR115		FRBG115		STONY115		ROCK115	
									2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
3-Ph line	Plumtree (PT-LM)	40%				1.50	1.27	PLUM345	1.46	1.27	1.38	1.22	1.50	1.27	1.31	1.18	1.50	1.27	1.28	1.16	1.16	1.12	1.34	1.12	1.37	1.21	1.33	1.15
3-Ph line	East Devon (ED-BK)	40%				1.79	1.40	EDVN345	1.55	1.30	1.43	1.26	1.78	1.38	1.45	1.26	1.79	1.40	1.21	1.10	1.23	1.12	1.21	1.09	1.41	1.24	1.36	1.19
1-Ph line	East Devon (ED-BK)	40%				1.42	1.07	EDVN345	1.27	1.06	1.17	1.04	1.40	1.06	1.15	1.04	1.42	1.07	1.12	1.04	1.11	1.03	1.09	1.02	1.15	1.04	1.10	1.03
3-Ph line	Norwalk (NW-PT)	40%				1.67	1.36	EDVN345	1.37	1.21	1.26	1.22	1.67	1.36	1.50	1.31	1.66	1.36	1.30	1.21	1.28	1.15	1.21	1.10	1.27	1.17	1.28	1.14
3-Ph line	Singer (SI-ED)	40%				1.57	1.34	NRWK345	1.43	1.25	1.38	1.22	1.56	1.34	1.44	1.30	1.57	1.33	1.30	1.18	1.22	1.13	1.21	1.12	1.38	1.21	1.35	1.16
3-Ph bus	Norwalk	40%				1.72	1.34	NRWK345	1.57	1.28	1.39	1.29	1.69	1.34	1.48	1.30	1.72	1.33	1.35	1.19	1.25	1.15	1.22	1.15	1.38	1.26	1.34	1.23
3-Ph bus	Plumtree	40%				1.64	1.26	NRWK345	1.52	1.25	1.43	1.18	1.59	1.26	1.40	1.17	1.64	1.25	1.33	1.13	1.23	1.11	1.21	1.10	1.39	1.17	1.33	1.16
3-Ph line	East Devon (ED-BK)	40%			Plum-LM	1.54	1.25	NRWK345	1.45	1.25	1.36	1.18	1.51	1.25	1.28	1.15	1.54	1.24	1.22	1.05	1.27	1.06	1.19	1.06	1.33	1.15	1.31	1.09
1-Ph line	East Devon (ED-BK)	40%			Plum-LM	1.21	1.07	EDVN345	1.19	1.06	1.17	1.04	1.21	1.07	1.11	1.04	1.21	1.07	1.19	1.03	1.16	1.03	1.13	1.01	1.17	1.04	1.16	1.02
3-Ph line	Norwalk (NW-PT)	40%			Plum-LM	1.64	1.56	PLUM345	1.64	1.56	1.28	1.20	1.63	1.34	1.47	1.27	1.64	1.34	1.33	1.15	1.24	1.14	1.15	1.08	1.26	1.20	1.21	1.17
3-Ph line	Singer (SI-ED)	40%			Plum-LM	1.74	1.31	PLUM345	1.68	1.31	1.60	1.23	1.74	1.30	1.52	1.22	1.72	1.30	1.32	1.17	1.21	1.13	1.23	1.10	1.55	1.23	1.45	1.16
3-Ph bus	Norwalk	40%			Plum-LM	1.83	1.34	PLUM345	1.80	1.34	1.57	1.29	1.83	1.34	1.49	1.23	1.83	1.33	1.38	1.18	1.31	1.15	1.22	1.14	1.55	1.26	1.42	1.20
3-Ph bus	Plumtree	40%			Plum-LM	1.59	1.26	PLUM345	1.57	1.26	1.38	1.25	1.59	1.26	1.36	1.19	1.55	1.25	1.26	1.15	1.17	1.11	1.18	1.10	1.35	1.22	1.31	1.16
3-Ph line	Plumtree (PT-LM)	40%			East Devon-Besek	1.42	1.24	EDVN345	1.40	1.22	1.35	1.20	1.42	1.22	1.24	1.13	1.42	1.24	1.20	1.04	1.15	1.07	1.35	1.06	1.33	1.18	1.35	1.12
3-Ph line	Norwalk (NW-PT)	40%			East Devon-Besek	1.79	1.47	EDVN345	1.33	1.13	1.48	1.15	1.78	1.47	1.39	1.31	1.79	1.47	1.13	1.07	1.19	1.12	1.18	1.07	1.46	1.13	1.37	1.11
3-Ph line	Singer (SI-ED)	40%			East Devon-Besek	1.79	1.37	EDVN345	1.65	1.27	1.49	1.24	1.75	1.35	1.52	1.27	1.79	1.37	1.14	1.08	1.21	1.08	1.22	1.10	1.46	1.22	1.41	1.18
3-Ph bus	Norwalk	40%			East Devon-Besek	1.89	1.46	EDVN345	1.66	1.35	1.50	1.25	1.84	1.45	1.52	1.33	1.89	1.46	1.15	1.09	1.21	1.12	1.24	1.11	1.50	1.24	1.40	1.19
3-Ph bus	Plumtree	40%			East Devon-Besek	1.75	1.39	EDVN345	1.54	1.28	1.46	1.26	1.71	1.37	1.45	1.20	1.75	1.39	1.18	1.10	1.20	1.11	1.21	1.08	1.42	1.23	1.33	1.18
3-Ph line	Plumtree (PT-LM)	40%			Norwalk H-Nport	1.38	1.24	PLUM345	1.38	1.24	1.33	1.22	1.36	1.20	1.27	1.16	1.33	1.20	1.20	1.10	1.14	1.09	1.34	1.08	1.32	1.20	1.35	1.15
3-Ph line	East Devon (ED-BK)	40%			Norwalk H-Nport	1.57	1.27	PLUM345	1.44	1.27	1.54	1.24	1.56	1.27	1.44	1.18	1.57	1.26	1.20	1.07	1.13	1.07	1.22	1.06	1.56	1.22	1.46	1.19
1-Ph line	East Devon (ED-BK)	40%			Norwalk H-Nport	1.29	1.05	EDVN345	1.14	1.04	1.13	1.04	1.28	1.05	1.12	1.04	1.29	1.05	1.13	1.03	1.10	1.03	1.07	1.01	1.12	1.03	1.10	1.02
3-Ph line	Norwalk (NW-PT)	40%			Norwalk H-Nport	1.63	1.33	EDVN345	1.27	1.18	1.19	1.19	1.63	1.32	1.48	1.21	1.63	1.33	1.29	1.16	1.19	1.10	1.13	1.07	1.19	1.20	1.20	1.15
3-Ph line	Singer (SI-ED)	40%			Norwalk H-Nport	1.51	1.30	EDVN345	1.43	1.24	1.32	1.20	1.51	1.30	1.34	1.22	1.50	1.30	1.33	1.13	1.14	1.08	1.17	1.09	1.32	1.19	1.28	1.16
3-Ph bus	Norwalk	40%			Norwalk H-Nport	1.65	1.32	EDVN345	1.52	1.24	1.44	1.22	1.65	1.32	1.51	1.22	1.65	1.32	1.31	1.16	1.21	1.11	1.20	1.11	1.43	1.23	1.33	1.17
3-Ph bus	Plumtree	40%			Norwalk H-Nport	1.56	1.26	EDVN345	1.45	1.23	1.37	1.23	1.56	1.24	1.44	1.20	1.54	1.26	1.31	1.12	1.17	1.10	1.17	1.10	1.37	1.21	1.40	1.17
3-Ph line	Plumtree (PT-LM)	40%			LM-Pleasant V	1.55	1.27	PLUM345	1.49	1.27	1.40	1.20	1.55	1.25	1.41	1.18	1.54	1.25	1.28	1.13	1.20	1.11	1.21	1.10	1.40	1.18	1.37	1.14
3-Ph line	East Devon (ED-BK)	40%			LM-Pleasant V	1.68	1.31	EDVN345	1.54	1.25	1.42	1.19	1.68	1.30	1.35	1.19	1.67	1.31	1.25	1.09	1.21	1.10	1.20	1.10	1.39	1.18	1.39	1.17
1-Ph line	East Devon (ED-BK)	40%			LM-Pleasant V	1.25	1.06	NRWK345	1.17	1.05	1.16	1.04	1.25	1.06	1.12	1.03	1.25	1.06	1.17	1.03	1.11	1.03	1.11	1.01	1.15	1.03	1.14	1.02
3-Ph line	Norwalk (NW-PT)	40%			LM-Pleasant V	1.67	1.31	NRWK345	1.35	1.15	1.23	1.14	1.67	1.31	1.46	1.25	1.65	1.29	1.37	1.15	1.25	1.13	1.17	1.08	1.22	1.14	1.20	1.12
3-Ph line	Singer (SI-ED)	40%			LM-Pleasant V	1.66	1.28	NRWK345	1.53	1.26	1.43	1.20	1.66	1.28	1.39	1.19	1.63	1.28	1.36	1.18	1.21	1.12	1.25	1.12	1.41	1.19	1.42	1.16
3-Ph bus	Norwalk	40%			LM-Pleasant V	1.78	1.30	NRWK345	1.63	1.30	1.48	1.23	1.77	1.30	1.49	1.21	1.78	1.30	1.38	1.18	1.29	1.13	1.26	1.13	1.44	1.21	1.47	1.18
3-Ph bus	Plumtree	40%			LM-Pleasant V	1.59	1.26	NRWK345	1.50	1.24	1.50	1.21	1.59	1.26	1.44	1.14	1.59	1.25	1.30	1.13	1.23	1.11	1.21	1.09	1.46	1.19	1.31	1.14

CASE #: OLD CASE 5

DATE: 09-Dec-04

DONE BY: PB POWER

SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV				TOV																		
TYPE	LOCATION	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION (6C)	PLUM345		PLUM115		NRWK345		NRWK115		EDVN345		BSCK345		ESHR115		FRBG115		STONY115		ROCK115	
									2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
3-Ph line	Plumtree (PT-LM)	50%				1.52	1.29	STONY115	1.52	1.26	1.35	1.20	1.39	1.21	1.25	1.17	1.41	1.22	1.33	1.18	1.18	1.13	1.18	1.11	1.46	1.29	1.32	1.18
3-Ph line	East Devon (ED-BK)	50%				1.75	1.31	EDVN345	1.52	1.24	1.41	1.26	1.74	1.29	1.44	1.19	1.75	1.31	1.27	1.16	1.23	1.13	1.20	1.11	1.44	1.25	1.30	1.17
1-Ph line	East Devon (ED-BK)	50%				1.36	1.09	BSCK345	1.25	1.06	1.15	1.05	1.32	1.06	1.14	1.05	1.36	1.06	1.16	1.09	1.15	1.06	1.13	1.03	1.17	1.04	1.14	1.03
3-Ph line	Norwalk (NW-PT)	50%				1.57	1.38	NRWK345	1.41	1.20	1.26	1.20	1.57	1.38	1.32	1.29	1.54	1.38	1.32	1.23	1.25	1.18	1.20	1.12	1.27	1.20	1.17	1.14
3-Ph line	Singer (SI-ED)	50%				1.49	1.37	NRWK345	1.43	1.33	1.35	1.34	1.47	1.37	1.31	1.25	1.49	1.37	1.31	1.21	1.24	1.19	1.21	1.17	1.40	1.35	1.31	1.28
3-Ph bus	Norwalk	50%				1.53	1.36	NRWK345	1.50	1.31	1.31	1.26	1.53	1.36	1.34	1.30	1.53	1.35	1.28	1.22	1.23	1.19	1.20	1.17	1.38	1.28	1.29	1.25
3-Ph bus	Plumtree	50%				1.70	1.30	STONY115	1.61	1.24	1.52	1.25	1.49	1.23	1.35	1.17	1.53	1.22	1.43	1.17	1.20	1.13	1.25	1.13	1.70	1.30	1.51	1.24
3-Ph line	East Devon (ED-BK)	50%			Plum-LM	1.52	1.17	NRWK345	1.49	1.15	1.38	1.12	1.50	1.17	1.31	1.11	1.52	1.17	1.28	1.11	1.29	1.06	1.19	1.04	1.34	1.10	1.26	1.06
1-Ph line	East Devon (ED-BK)	50%			Plum-LM	1.21	1.08	BSCK345	1.19	1.03	1.12	1.02	1.19	1.04	1.08	1.02	1.18	1.04	1.21	1.08	1.13	1.04	1.08	1.01	1.11	1.02	1.09	1.01
3-Ph line	Norwalk (NW-PT)	50%			Plum-LM	1.50	1.35	EDVN345	1.30	1.18	1.26	1.16	1.50	1.35	1.32	1.24	1.50	1.35	1.32	1.20	1.24	1.15	1.13	1.07	1.26	1.19	1.19	1.13
3-Ph line	Singer (SI-ED)	50%			Plum-LM	1.50	1.30	EDVN345	1.45	1.29	1.40	1.25	1.50	1.30	1.34	1.21	1.47	1.30	1.29	1.18	1.21	1.15	1.18	1.10	1.41	1.28	1.32	1.20
3-Ph bus	Norwalk	50%			Plum-LM	1.66	1.28	EDVN345	1.62	1.27	1.53	1.21	1.63	1.27	1.44	1.18	1.66	1.28	1.37	1.19	1.24	1.15	1.19	1.12	1.46	1.21	1.35	1.16
3-Ph bus	Plumtree	50%			Plum-LM	1.52	1.27	STONY115	1.52	1.21	1.36	1.19	1.38	1.21	1.25	1.16	1.38	1.20	1.26	1.16	1.17	1.13	1.16	1.11	1.46	1.27	1.32	1.13
3-Ph line	Plumtree (PT-LM)	50%			East Devon-Besek	1.48	1.19	STONY115	1.44	1.18	1.33	1.19	1.45	1.17	1.25	1.10	1.48	1.17	1.29	1.13	1.13	1.07	1.14	1.06	1.36	1.19	1.24	1.11
3-Ph line	Norwalk (NW-PT)	50%			East Devon-Besek	1.78	1.32	NRWK345	1.30	1.16	1.31	1.14	1.78	1.32	1.40	1.20	1.74	1.31	1.21	1.14	1.22	1.17	1.14	1.07	1.37	1.21	1.24	1.11
3-Ph line	Singer (SI-ED)	50%			East Devon-Besek	1.62	1.30	EDVN345	1.43	1.24	1.34	1.25	1.50	1.29	1.31	1.18	1.62	1.30	1.20	1.13	1.15	1.13	1.16	1.11	1.37	1.25	1.27	1.18
3-Ph bus	Norwalk	50%			East Devon-Besek	1.73	1.31	NRWK345	1.50	1.25	1.41	1.27	1.71	1.31	1.46	1.22	1.73	1.31	1.19	1.14	1.21	1.13	1.21	1.11	1.40	1.23	1.30	1.17
3-Ph bus	Plumtree	50%			East Devon-Besek	1.73	1.27	STONY115	1.73	1.22	1.37	1.19	1.54	1.22	1.28	1.18	1.58	1.22	1.32	1.14	1.18	1.12	1.15	1.10	1.55	1.27	1.37	1.17
3-Ph line	Plumtree (PT-LM)	50%			Norwalk H-Nport	1.42	1.19	STONY115	1.42	1.16	1.26	1.15	1.28	1.12	1.21	1.07	1.30	1.11	1.30	1.11	1.13	1.08	1.13	1.05	1.29	1.19	1.24	1.09
3-Ph line	East Devon (ED-BK)	50%			Norwalk H-Nport	1.57	1.16	EDVN345	1.33	1.14	1.29	1.10	1.55	1.16	1.30	1.10	1.57	1.16	1.31	1.12	1.17	1.08	1.12	1.05	1.28	1.09	1.18	1.07
1-Ph line	East Devon (ED-BK)	50%			Norwalk H-Nport	1.19	1.08	BSCK345	1.12	1.03	1.09	1.02	1.19	1.03	1.08	1.01	1.19	1.03	1.14	1.08	1.08	1.04	1.07	1.01	1.09	1.02	1.07	1.01
3-Ph line	Norwalk (NW-PT)	50%			Norwalk H-Nport	1.42	1.25	NRWK345	1.35	1.17	1.20	1.14	1.41	1.25	1.35	1.22	1.42	1.24	1.27	1.15	1.18	1.12	1.13	1.09	1.26	1.18	1.19	1.12
3-Ph line	Singer (SI-ED)	50%			Norwalk H-Nport	1.38	1.30	PLUM115	1.36	1.23	1.31	1.30	1.38	1.26	1.29	1.20	1.37	1.26	1.29	1.15	1.18	1.14	1.14	1.11	1.28	1.25	1.25	1.18
3-Ph bus	Norwalk	50%			Norwalk H-Nport	1.50	1.24	NRWK345	1.40	1.21	1.26	1.23	1.47	1.24	1.39	1.21	1.50	1.23	1.28	1.16	1.19	1.12	1.14	1.10	1.28	1.23	1.21	1.18
3-Ph bus	Plumtree	50%			Norwalk H-Nport	1.52	1.21	STONY115	1.43	1.16	1.31	1.21	1.44	1.17	1.31	1.12	1.46	1.17	1.34	1.17	1.17	1.10	1.17	1.10	1.52	1.21	1.39	1.12
3-Ph line	Plumtree (PT-LM)	50%			LM-Pleasant V	1.46	1.27	STONY115	1.46	1.22	1.38	1.21	1.40	1.21	1.27	1.16	1.40	1.21	1.27	1.17	1.18	1.12	1.22	1.11	1.38	1.27	1.28	1.16
3-Ph line	East Devon (ED-BK)	50%			LM-Pleasant V	1.67	1.23	EDVN345	1.50	1.19	1.41	1.18	1.64	1.22	1.38	1.15	1.67	1.23	1.27	1.14	1.21	1.11	1.24	1.08	1.41	1.20	1.32	1.12
1-Ph line	East Devon (ED-BK)	50%			LM-Pleasant V	1.20	1.09	BSCK345	1.19	1.05	1.15	1.04	1.19	1.06	1.11	1.04	1.20	1.06	1.18	1.09	1.10	1.05	1.09	1.02	1.14	1.04	1.11	1.03
3-Ph line	Norwalk (NW-PT)	50%			LM-Pleasant V	1.50	1.35	NRWK345	1.41	1.22	1.34	1.21	1.48	1.35	1.31	1.24	1.50	1.33	1.31	1.21	1.25	1.14	1.26	1.20	1.27	1.24	1.24	1.23
3-Ph line	Singer (SI-ED)	50%			LM-Pleasant V	1.54	1.27	EDVN345	1.45	1.27	1.35	1.25	1.52	1.26	1.34	1.20	1.54	1.27	1.33	1.21	1.24	1.15	1.22	1.14	1.43	1.26	1.31	1.20
3-Ph bus	Norwalk	50%			LM-Pleasant V	1.62	1.27	EDVN345	1.54	1.26	1.47	1.21	1.59	1.26	1.39	1.17	1.62	1.27	1.36	1.21	1.26	1.15	1.24	1.15	1.43	1.21	1.34	1.18
3-Ph bus	Plumtree	50%			LM-Pleasant V	1.54	1.25	STONY115	1.54	1.23	1.34	1.19	1.39	1.22	1.26	1.16	1.41	1.21	1.32	1.18	1.18	1.14	1.20	1.10	1.51	1.25	1.35	1.17

CASE #: OLD CASE 5

DATE: 09-Dec-04

DONE BY: PB POWER

SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV				TOV																		
TYPE	LOCATION	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION (6C)	PLUM345		PLUM115		NRWK345		NRWK115		EDVN345		BSCK345		ESHR115		FRBG115		STONY115		ROCK115	
									2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
3-Ph line	Plumtree (PT-LM)	70%				1.45	1.30	ROCK115	1.31	1.14	1.23	1.15	1.28	1.13	1.22	1.11	1.27	1.13	1.27	1.12	1.14	1.12	1.20	1.10	1.26	1.17	1.45	1.30
3-Ph line	East Devon (ED-BK)	70%				1.46	1.19	ROCK115	1.35	1.13	1.30	1.14	1.41	1.16	1.31	1.15	1.43	1.16	1.23	1.11	1.15	1.10	1.21	1.13	1.28	1.13	1.46	1.19
1-Ph line	East Devon (ED-BK)	70%				1.18	1.08	FRBG115	1.14	1.04	1.12	1.05	1.16	1.04	1.08	1.04	1.18	1.04	1.14	1.07	1.13	1.07	1.16	1.08	1.15	1.05	1.14	1.07
3-Ph line	Norwalk (NW-PT)	70%				1.41	1.32	ROCK115	1.32	1.12	1.22	1.11	1.38	1.28	1.33	1.26	1.39	1.27	1.27	1.14	1.20	1.16	1.23	1.14	1.25	1.21	1.41	1.32
3-Ph line	Singer (SI-ED)	70%				1.58	1.32	ROCK115	1.35	1.22	1.36	1.23	1.35	1.22	1.26	1.20	1.39	1.22	1.23	1.13	1.17	1.13	1.21	1.18	1.39	1.29	1.58	1.32
3-Ph bus	Norwalk	70%				1.59	1.29	STONY115	1.37	1.21	1.33	1.27	1.37	1.21	1.28	1.20	1.36	1.21	1.27	1.13	1.18	1.14	1.22	1.16	1.40	1.29	1.59	1.29
3-Ph bus	Plumtree	70%				1.48	1.27	ROCK115	1.45	1.19	1.31	1.18	1.35	1.16	1.26	1.13	1.39	1.17	1.30	1.14	1.16	1.13	1.24	1.13	1.40	1.16	1.48	1.27
3-Ph line	East Devon (ED-BK)	70%			Plum-LM	1.31	1.06	BSCK345	1.31	1.06	1.22	1.04	1.29	1.05	1.19	1.03	1.28	1.06	1.20	1.06	1.16	1.04	1.18	1.06	1.20	1.05	1.30	1.06
1-Ph line	East Devon (ED-BK)	70%			Plum-LM	1.14	1.05	FRBG115	1.10	1.01	1.09	1.01	1.13	1.01	1.04	1.00	1.13	1.01	1.10	1.05	1.12	1.04	1.14	1.05	1.08	1.02	1.09	1.03
3-Ph line	Norwalk (NW-PT)	70%			Plum-LM	1.79	1.38	ROCK115	1.55	1.36	1.23	1.18	1.37	1.25	1.25	1.19	1.38	1.26	1.25	1.12	1.16	1.11	1.20	1.13	1.20	1.18	1.79	1.38
3-Ph line	Singer (SI-ED)	70%			Plum-LM	1.58	1.29	ROCK115	1.38	1.19	1.29	1.21	1.32	1.14	1.28	1.15	1.38	1.16	1.34	1.12	1.18	1.12	1.22	1.13	1.33	1.25	1.58	1.29
3-Ph bus	Norwalk	70%			Plum-LM	1.53	1.27	ROCK115	1.42	1.18	1.34	1.23	1.37	1.14	1.26	1.14	1.39	1.16	1.30	1.10	1.18	1.11	1.20	1.12	1.31	1.23	1.53	1.27
3-Ph bus	Plumtree	70%			Plum-LM	1.57	1.29	ROCK115	1.57	1.18	1.29	1.15	1.29	1.11	1.17	1.09	1.33	1.12	1.26	1.10	1.12	1.10	1.16	1.12	1.36	1.16	1.38	1.29
3-Ph line	Plumtree (PT-LM)	70%			East Devon-Besek	1.41	1.25	ROCK115	1.41	1.12	1.23	1.07	1.24	1.09	1.10	1.03	1.29	1.12	1.30	1.11	1.08	1.06	1.15	1.07	1.23	1.08	1.38	1.25
3-Ph line	Norwalk (NW-PT)	70%			East Devon-Besek	1.44	1.26	ROCK115	1.38	1.13	1.25	1.10	1.39	1.17	1.26	1.14	1.40	1.17	1.18	1.09	1.18	1.10	1.14	1.09	1.44	1.19	1.40	1.26
3-Ph line	Singer (SI-ED)	70%			East Devon-Besek	1.56	1.21	ROCK115	1.33	1.18	1.30	1.15	1.39	1.20	1.28	1.17	1.42	1.20	1.17	1.10	1.14	1.11	1.22	1.16	1.32	1.18	1.56	1.21
3-Ph bus	Norwalk	70%			East Devon-Besek	1.55	1.22	ROCK115	1.44	1.17	1.33	1.19	1.45	1.19	1.30	1.17	1.47	1.20	1.15	1.09	1.14	1.11	1.22	1.14	1.32	1.18	1.55	1.22
3-Ph bus	Plumtree	70%			East Devon-Besek	1.56	1.35	ROCK115	1.47	1.15	1.37	1.17	1.38	1.14	1.33	1.13	1.42	1.15	1.24	1.11	1.14	1.11	1.21	1.12	1.50	1.18	1.56	1.35
3-Ph line	Plumtree (PT-LM)	70%			Norwalk H-Nport	1.37	1.16	ROCK115	1.34	1.06	1.16	1.05	1.13	1.02	1.10	1.02	1.17	1.03	1.30	1.05	1.06	1.04	1.09	1.04	1.15	1.06	1.37	1.16
3-Ph line	East Devon (ED-BK)	70%			Norwalk H-Nport	1.27	1.07	BSCK345	1.18	1.03	1.15	1.03	1.20	1.04	1.19	1.04	1.20	1.05	1.25	1.07	1.12	1.05	1.10	1.07	1.24	1.04	1.27	1.04
1-Ph line	East Devon (ED-BK)	70%			Norwalk H-Nport	1.09	1.04	BSCK345	1.05	1.00	1.04	1.01	1.06	1.00	1.05	1.00	1.08	1.00	1.09	1.04	1.07	1.03	1.07	1.04	1.04	1.01	1.09	1.03
3-Ph line	Norwalk (NW-PT)	70%			Norwalk H-Nport	1.41	1.26	ROCK115	1.32	1.11	1.16	1.08	1.26	1.15	1.24	1.15	1.27	1.14	1.24	1.09	1.12	1.08	1.16	1.09	1.18	1.13	1.41	1.26
3-Ph line	Singer (SI-ED)	70%			Norwalk H-Nport	1.45	1.19	ROCK115	1.25	1.12	1.27	1.13	1.30	1.13	1.24	1.15	1.32	1.14	1.23	1.09	1.12	1.08	1.17	1.10	1.32	1.16	1.45	1.19
3-Ph bus	Norwalk	70%			Norwalk H-Nport	1.41	1.20	ROCK115	1.27	1.12	1.26	1.15	1.25	1.13	1.22	1.14	1.27	1.13	1.27	1.11	1.12	1.08	1.16	1.10	1.24	1.17	1.41	1.20
3-Ph bus	Plumtree	70%			Norwalk H-Nport	1.45	1.28	ROCK115	1.45	1.11	1.26	1.12	1.28	1.08	1.26	1.08	1.29	1.09	1.32	1.09	1.11	1.09	1.18	1.09	1.41	1.13	1.37	1.28
3-Ph line	Plumtree (PT-LM)	70%			LM-Pleasant V	1.61	1.26	ROCK115	1.44	1.18	1.22	1.13	1.27	1.10	1.17	1.07	1.31	1.10	1.29	1.10	1.11	1.09	1.15	1.09	1.29	1.13	1.61	1.26
3-Ph line	East Devon (ED-BK)	70%			LM-Pleasant V	1.36	1.10	STONY115	1.29	1.08	1.19	1.07	1.29	1.07	1.20	1.05	1.31	1.08	1.25	1.07	1.17	1.07	1.16	1.08	1.19	1.10	1.36	1.08
1-Ph line	East Devon (ED-BK)	70%			LM-Pleasant V	1.14	1.05	FRBG115	1.12	1.02	1.10	1.03	1.12	1.02	1.08	1.01	1.14	1.02	1.14	1.05	1.09	1.04	1.10	1.05	1.08	1.03	1.13	1.04
3-Ph line	Norwalk (NW-PT)	70%			LM-Pleasant V	1.50	1.30	ROCK115	1.37	1.19	1.23	1.11	1.36	1.20	1.27	1.15	1.40	1.20	1.25	1.11	1.15	1.11	1.24	1.12	1.31	1.18	1.50	1.30
3-Ph line	Singer (SI-ED)	70%			LM-Pleasant V	1.46	1.24	ROCK115	1.32	1.13	1.28	1.14	1.36	1.13	1.25	1.12	1.40	1.12	1.35	1.09	1.16	1.09	1.21	1.11	1.26	1.19	1.46	1.24
3-Ph bus	Norwalk	70%			LM-Pleasant V	1.45	1.21	ROCK115	1.45	1.13	1.28	1.18	1.34	1.12	1.26	1.11	1.36	1.13	1.26	1.10	1.16	1.09	1.21	1.11	1.27	1.19	1.41	1.21
3-Ph bus	Plumtree	70%			LM-Pleasant V	1.57	1.30	ROCK115	1.57	1.14	1.29	1.14	1.30	1.10	1.23	1.08	1.31	1.11	1.26	1.09	1.14	1.09	1.22	1.09	1.42	1.17	1.50	1.30

CASE #: OLD CASE 5 SENSITIVITY TEST 2
 CAPACITOR DISPATCH INCREASED BY 50%
 DONE BY: PB POWER

DATE: 08-Dec-04

SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV				TOV																		
TYPE	LOCATION	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION (6C)	PLUM345		PLUM115		NRWK345		NRWK115		EDVN345		BSCK345		ESHR115		FRBG115		STONY115		ROCK115	
									2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
3-Ph line	Plumtree (PT-LM)	50%				1.78	1.26	PLUM345	1.78	1.26	1.30	1.22	1.41	1.20	1.28	1.15	1.42	1.19	1.34	1.14	1.17	1.14	1.21	1.14	1.42	1.25	1.25	1.19
3-Ph line	East Devon (ED-BK)	50%				1.57	1.30	EDVN345	1.51	1.24	1.35	1.20	1.56	1.28	1.33	1.18	1.57	1.30	1.35	1.13	1.21	1.16	1.17	1.11	1.46	1.24	1.34	1.17
1-Ph line	East Devon (ED-BK)	50%				1.27	1.09	BSCK345	1.20	1.06	1.13	1.04	1.27	1.05	1.12	1.04	1.27	1.06	1.17	1.09	1.17	1.07	1.13	1.03	1.13	1.05	1.12	1.04
3-Ph line	Norwalk (NW-PT)	50%				1.55	1.39	NRWK345	1.47	1.22	1.24	1.19	1.55	1.39	1.36	1.26	1.54	1.38	1.33	1.21	1.26	1.20	1.12	1.12	1.26	1.19	1.21	1.18
3-Ph line	Singer (SI-ED)	50%				1.55	1.34	STONY115	1.51	1.30	1.34	1.26	1.55	1.33	1.35	1.20	1.54	1.31	1.33	1.19	1.30	1.24	1.19	1.19	1.44	1.34	1.30	1.27
3-Ph bus	Norwalk	50%				1.54	1.31	NRWK345	1.49	1.27	1.31	1.22	1.54	1.31	1.33	1.25	1.52	1.31	1.31	1.19	1.27	1.20	1.19	1.18	1.37	1.28	1.29	1.23
3-Ph bus	Plumtree	50%				1.66	1.21	EDVN345	1.66	1.19	1.29	1.17	1.42	1.20	1.25	1.15	1.41	1.21	1.33	1.18	1.17	1.14	1.16	1.11	1.40	1.20	1.27	1.15
3-Ph line	East Devon (ED-BK)	50%			Plum-LM	1.54	1.19	NRWK345	1.54	1.17	1.37	1.12	1.50	1.19	1.28	1.11	1.48	1.18	1.19	1.09	1.14	1.09	1.19	1.04	1.36	1.12	1.25	1.08
1-Ph line	East Devon (ED-BK)	50%			Plum-LM	1.18	1.07	BSCK345	1.18	1.04	1.13	1.02	1.17	1.04	1.08	1.02	1.16	1.04	1.15	1.07	1.08	1.05	1.08	1.02	1.13	1.02	1.10	1.02
3-Ph line	Norwalk (NW-PT)	50%			Plum-LM	1.49	1.29	NRWK345	1.26	1.22	1.23	1.21	1.49	1.29	1.29	1.23	1.48	1.27	1.29	1.17	1.18	1.17	1.11	1.07	1.15	1.17	1.18	1.11
3-Ph line	Singer (SI-ED)	50%			Plum-LM	1.54	1.30	EDVN345	1.54	1.26	1.36	1.21	1.49	1.28	1.29	1.19	1.48	1.30	1.35	1.18	1.23	1.15	1.17	1.12	1.39	1.26	1.30	1.19
3-Ph bus	Norwalk	50%			Plum-LM	1.56	1.27	PLUM345	1.50	1.27	1.39	1.20	1.56	1.26	1.35	1.20	1.53	1.26	1.41	1.17	1.22	1.15	1.18	1.11	1.39	1.23	1.32	1.18
3-Ph bus	Plumtree	50%			Plum-LM	1.74	1.25	PLUM345	1.74	1.25	1.26	1.21	1.38	1.19	1.26	1.14	1.37	1.19	1.29	1.13	1.17	1.13	1.13	1.10	1.40	1.24	1.26	1.17
3-Ph line	Plumtree (PT-LM)	50%			East Devon-Besek	1.61	1.19	PLUM345	1.61	1.19	1.31	1.14	1.42	1.17	1.22	1.10	1.53	1.19	1.25	1.11	1.13	1.08	1.12	1.07	1.46	1.14	1.25	1.08
3-Ph line	Norwalk (NW-PT)	50%			East Devon-Besek	1.70	1.32	EDVN345	1.23	1.17	1.24	1.16	1.65	1.31	1.36	1.19	1.70	1.32	1.16	1.12	1.21	1.13	1.15	1.09	1.30	1.21	1.20	1.16
3-Ph line	Singer (SI-ED)	50%			East Devon-Besek	1.59	1.29	NRWK345	1.41	1.25	1.28	1.21	1.56	1.29	1.29	1.18	1.59	1.28	1.32	1.14	1.18	1.14	1.15	1.14	1.37	1.21	1.27	1.18
3-Ph bus	Norwalk	50%			East Devon-Besek	1.64	1.29	NRWK345	1.54	1.24	1.39	1.19	1.61	1.29	1.38	1.20	1.64	1.28	1.24	1.11	1.18	1.14	1.16	1.11	1.40	1.27	1.28	1.20
3-Ph bus	Plumtree	50%			East Devon-Besek	1.59	1.23	NRWK345	1.51	1.22	1.31	1.20	1.48	1.23	1.30	1.16	1.59	1.22	1.30	1.12	1.19	1.12	1.17	1.09	1.38	1.21	1.28	1.15
3-Ph line	Plumtree (PT-LM)	50%			Norwalk H-Nport	1.42	1.16	STONY115	1.42	1.15	1.21	1.13	1.30	1.11	1.19	1.09	1.33	1.11	1.23	1.09	1.16	1.07	1.09	1.07	1.35	1.16	1.18	1.11
3-Ph line	East Devon (ED-BK)	50%			Norwalk H-Nport	1.41	1.17	EDVN345	1.33	1.12	1.25	1.10	1.40	1.16	1.27	1.10	1.41	1.17	1.32	1.10	1.14	1.08	1.12	1.05	1.38	1.09	1.25	1.07
1-Ph line	East Devon (ED-BK)	50%			Norwalk H-Nport	1.15	1.07	BSCK345	1.10	1.03	1.09	1.02	1.15	1.02	1.10	1.01	1.13	1.03	1.14	1.07	1.09	1.04	1.08	1.01	1.09	1.02	1.07	1.01
3-Ph line	Norwalk (NW-PT)	50%			Norwalk H-Nport	1.41	1.22	EDVN345	1.41	1.18	1.23	1.17	1.39	1.22	1.25	1.16	1.39	1.22	1.29	1.14	1.17	1.12	1.11	1.07	1.19	1.15	1.15	1.12
3-Ph line	Singer (SI-ED)	50%			Norwalk H-Nport	1.45	1.21	NRWK345	1.39	1.19	1.25	1.17	1.45	1.21	1.31	1.16	1.44	1.21	1.28	1.16	1.20	1.12	1.13	1.12	1.33	1.20	1.21	1.17
3-Ph bus	Norwalk	50%			Norwalk H-Nport	1.41	1.22	EDVN345	1.41	1.19	1.27	1.17	1.40	1.20	1.29	1.16	1.40	1.22	1.29	1.15	1.18	1.12	1.16	1.10	1.31	1.21	1.23	1.16
3-Ph bus	Plumtree	50%			Norwalk H-Nport	1.50	1.18	STONY115	1.50	1.17	1.22	1.16	1.32	1.16	1.25	1.13	1.37	1.17	1.28	1.13	1.13	1.11	1.14	1.08	1.34	1.18	1.21	1.13
3-Ph line	Plumtree (PT-LM)	50%			LM-Pleasant V	1.67	1.25	PLUM345	1.67	1.25	1.30	1.21	1.40	1.19	1.28	1.15	1.43	1.20	1.32	1.14	1.16	1.13	1.22	1.11	1.40	1.24	1.30	1.17
3-Ph line	East Devon (ED-BK)	50%			LM-Pleasant V	1.54	1.24	NRWK345	1.46	1.20	1.34	1.16	1.54	1.24	1.29	1.14	1.53	1.23	1.24	1.10	1.18	1.12	1.21	1.11	1.34	1.16	1.28	1.13
1-Ph line	East Devon (ED-BK)	50%			LM-Pleasant V	1.19	1.07	BSCK345	1.19	1.05	1.17	1.04	1.18	1.05	1.11	1.03	1.18	1.05	1.16	1.07	1.12	1.05	1.12	1.02	1.17	1.04	1.11	1.03
3-Ph line	Norwalk (NW-PT)	50%			LM-Pleasant V	1.47	1.28	NRWK345	1.40	1.22	1.28	1.19	1.44	1.28	1.29	1.20	1.47	1.27	1.35	1.21	1.22	1.16	1.18	1.14	1.25	1.16	1.20	1.15
3-Ph line	Singer (SI-ED)	50%			LM-Pleasant V	1.45	1.27	STONY115	1.45	1.24	1.35	1.21	1.45	1.27	1.30	1.20	1.45	1.27	1.40	1.20	1.23	1.16	1.23	1.17	1.40	1.27	1.32	1.23
3-Ph bus	Norwalk	50%			LM-Pleasant V	1.49	1.25	NRWK345	1.49	1.25	1.36	1.20	1.44	1.25	1.30	1.19	1.47	1.25	1.37	1.20	1.23	1.15	1.28	1.15	1.39	1.24	1.30	1.20
3-Ph bus	Plumtree	50%			LM-Pleasant V	1.47	1.24	STONY115	1.47	1.23	1.33	1.22	1.41	1.20	1.27	1.15	1.39	1.20	1.31	1.15	1.18	1.13	1.23	1.13	1.41	1.24	1.31	1.18

CASE #: OLD CASE 5 SENSITIVITY TEST
 NORWALK 1 & MILFORD 1 IN SERVICE
 DONE BY: PB POWER

DATE: 07-Dec-04

PLUM PLUM PLUM PLUM NRW NRW NRW NRW EDV EDV BSC BSC ESH ESH FRB FRB STO STO ROC ROC K115

SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV		TOV																				
TYPE	LOCATION	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION (6C)	PLUM345		PLUM115		NRWK345		NRWK115		EDVN345		BSC345		ESHR115		FRBG115		STONY115		ROCK115	
									2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
3-Ph line	Plumtree (PT-LM)	50%				1.95	1.26	PLUM345	1.95	1.26	1.44	1.21	1.42	1.21	1.24	1.15	1.43	1.22	1.36	1.19	1.19	1.12	1.16	1.13	1.52	1.20	1.31	1.15
3-Ph line	East Devon (ED-BK)	50%				1.61	1.34	EDVN345	1.50	1.28	1.35	1.28	1.60	1.31	1.34	1.20	1.61	1.34	1.33	1.14	1.17	1.13	1.16	1.13	1.38	1.26	1.30	1.20
1-Ph line	East Devon (ED-BK)	50%				1.34	1.09	BSC345	1.23	1.06	1.15	1.05	1.32	1.06	1.13	1.04	1.34	1.06	1.19	1.09	1.18	1.06	1.13	1.03	1.18	1.05	1.15	1.03
3-Ph line	Norwalk (NW-PT)	50%				1.55	1.41	NRWK345	1.40	1.18	1.24	1.20	1.55	1.41	1.33	1.29	1.55	1.39	1.35	1.25	1.23	1.18	1.14	1.12	1.38	1.17	1.23	1.14
3-Ph line	Singer (SI-ED)	50%				1.64	1.40	PLUM345	1.64	1.40	1.41	1.36	1.62	1.39	1.33	1.27	1.58	1.38	1.37	1.23	1.26	1.23	1.23	1.23	1.43	1.33	1.31	1.30
3-Ph bus	Norwalk	50%				1.56	1.33	NRWK345	1.51	1.30	1.35	1.26	1.55	1.33	1.29	1.27	1.56	1.32	1.32	1.20	1.22	1.18	1.19	1.17	1.40	1.28	1.28	1.23
3-Ph bus	Plumtree	50%				1.70	1.30	PLUM115	1.70	1.24	1.44	1.30	1.44	1.25	1.27	1.17	1.46	1.24	1.38	1.17	1.20	1.15	1.17	1.16	1.58	1.29	1.40	1.22
3-Ph line	East Devon (ED-BK)	50%			Plum-LM	1.52	1.21	NRWK345	1.51	1.18	1.40	1.14	1.52	1.21	1.31	1.11	1.52	1.20	1.26	1.11	1.21	1.10	1.16	1.06	1.37	1.13	1.28	1.09
1-Ph line	East Devon (ED-BK)	50%			Plum-LM	1.22	1.09	BSC345	1.22	1.04	1.14	1.03	1.22	1.04	1.09	1.02	1.20	1.04	1.19	1.09	1.11	1.05	1.08	1.02	1.15	1.02	1.12	1.02
3-Ph line	Norwalk (NW-PT)	50%			Plum-LM	1.59	1.35	NRWK345	1.23	1.20	1.22	1.19	1.55	1.35	1.28	1.24	1.59	1.34	1.32	1.19	1.21	1.16	1.10	1.07	1.23	1.14	1.15	1.12
3-Ph line	Singer (SI-ED)	50%			Plum-LM	1.57	1.36	PLUM345	1.57	1.36	1.38	1.28	1.54	1.31	1.33	1.19	1.53	1.29	1.41	1.19	1.20	1.16	1.16	1.13	1.39	1.29	1.30	1.22
3-Ph bus	Norwalk	50%			Plum-LM	1.56	1.27	EDVN345	1.53	1.27	1.44	1.20	1.56	1.27	1.34	1.18	1.54	1.27	1.40	1.19	1.21	1.15	1.17	1.12	1.40	1.19	1.31	1.16
3-Ph bus	Plumtree	50%			Plum-LM	1.94	1.26	PLUM345	1.94	1.26	1.36	1.20	1.37	1.20	1.22	1.14	1.41	1.21	1.32	1.16	1.18	1.13	1.13	1.10	1.54	1.24	1.33	1.14
3-Ph line	Plumtree (PT-LM)	50%			East Devon-Besek	1.62	1.23	PLUM345	1.62	1.23	1.40	1.20	1.49	1.20	1.26	1.13	1.51	1.19	1.25	1.12	1.22	1.09	1.26	1.08	1.43	1.19	1.32	1.13
3-Ph line	Norwalk (NW-PT)	50%			East Devon-Besek	1.71	1.33	NRWK345	1.28	1.16	1.19	1.17	1.71	1.33	1.37	1.22	1.65	1.32	1.19	1.15	1.22	1.17	1.15	1.10	1.35	1.19	1.21	1.15
3-Ph line	Singer (SI-ED)	50%			East Devon-Besek	1.73	1.34	EDVN345	1.42	1.30	1.36	1.30	1.61	1.33	1.34	1.22	1.73	1.34	1.29	1.15	1.19	1.15	1.18	1.15	1.39	1.31	1.33	1.21
3-Ph bus	Norwalk	50%			East Devon-Besek	1.67	1.32	NRWK345	1.52	1.28	1.38	1.26	1.67	1.32	1.38	1.27	1.67	1.31	1.21	1.15	1.17	1.12	1.16	1.12	1.43	1.28	1.29	1.21
3-Ph bus	Plumtree	50%			East Devon-Besek	1.60	1.28	STONY115	1.60	1.20	1.38	1.24	1.49	1.24	1.28	1.14	1.56	1.24	1.28	1.16	1.15	1.12	1.15	1.10	1.54	1.28	1.38	1.21
3-Ph line	Plumtree (PT-LM)	50%			Norwalk H-Nport	1.59	1.20	STONY115	1.59	1.19	1.38	1.14	1.36	1.17	1.22	1.11	1.35	1.17	1.27	1.15	1.20	1.09	1.22	1.07	1.44	1.20	1.34	1.12
3-Ph line	East Devon (ED-BK)	50%			Norwalk H-Nport	1.52	1.19	EDVN345	1.39	1.16	1.32	1.14	1.51	1.19	1.31	1.11	1.52	1.19	1.33	1.14	1.15	1.09	1.13	1.06	1.37	1.12	1.24	1.08
1-Ph line	East Devon (ED-BK)	50%			Norwalk H-Nport	1.22	1.08	BSC345	1.16	1.04	1.10	1.03	1.22	1.04	1.11	1.02	1.22	1.04	1.17	1.08	1.12	1.05	1.09	1.02	1.12	1.03	1.10	1.02
3-Ph line	Norwalk (NW-PT)	50%			Norwalk H-Nport	1.44	1.27	NRWK345	1.38	1.18	1.20	1.15	1.44	1.27	1.29	1.24	1.44	1.27	1.31	1.16	1.17	1.13	1.12	1.08	1.35	1.18	1.20	1.12
3-Ph line	Singer (SI-ED)	50%			Norwalk H-Nport	1.54	1.31	PLUM115	1.51	1.27	1.33	1.31	1.54	1.29	1.31	1.22	1.51	1.27	1.31	1.17	1.21	1.17	1.19	1.16	1.35	1.30	1.27	1.23
3-Ph bus	Norwalk	50%			Norwalk H-Nport	1.49	1.26	STONY115	1.43	1.22	1.26	1.25	1.48	1.25	1.30	1.24	1.49	1.24	1.28	1.17	1.17	1.14	1.15	1.10	1.34	1.26	1.20	1.20
3-Ph bus	Plumtree	50%			Norwalk H-Nport	1.47	1.23	STONY115	1.47	1.17	1.25	1.18	1.36	1.15	1.24	1.11	1.38	1.15	1.26	1.14	1.18	1.10	1.15	1.08	1.46	1.23	1.28	1.15
3-Ph line	Plumtree (PT-LM)	50%			LM-Pleasant V	1.42	1.25	STONY115	1.42	1.21	1.34	1.20	1.40	1.22	1.25	1.16	1.41	1.21	1.24	1.16	1.18	1.13	1.22	1.12	1.37	1.25	1.28	1.17
3-Ph line	East Devon (ED-BK)	50%			LM-Pleasant V	1.60	1.23	EDVN345	1.45	1.21	1.36	1.19	1.60	1.23	1.33	1.16	1.60	1.23	1.35	1.14	1.22	1.11	1.22	1.09	1.34	1.22	1.30	1.13
1-Ph line	East Devon (ED-BK)	50%			LM-Pleasant V	1.22	1.09	BSC345	1.21	1.06	1.16	1.04	1.22	1.06	1.12	1.04	1.22	1.06	1.19	1.09	1.12	1.06	1.11	1.03	1.16	1.04	1.13	1.03
3-Ph line	Norwalk (NW-PT)	50%			LM-Pleasant V	1.52	1.37	NRWK345	1.35	1.23	1.33	1.24	1.52	1.37	1.32	1.25	1.50	1.35	1.35	1.21	1.22	1.14	1.24	1.19	1.31	1.23	1.25	1.22
3-Ph line	Singer (SI-ED)	50%			LM-Pleasant V	1.54	1.29	NRWK345	1.49	1.29	1.34	1.27	1.54	1.29	1.32	1.21	1.51	1.29	1.35	1.22	1.21	1.17	1.22	1.15	1.36	1.25	1.27	1.22
3-Ph bus	Norwalk	50%			LM-Pleasant V	1.50	1.27	EDVN345	1.48	1.27	1.37	1.21	1.46	1.27	1.30	1.17	1.50	1.27	1.36	1.20	1.23	1.16	1.21	1.15	1.34	1.20	1.30	1.17
3-Ph bus	Plumtree	50%			LM-Pleasant V	1.46	1.24	STONY115	1.40	1.22	1.32	1.21	1.38	1.22	1.23	1.15	1.37	1.22	1.30	1.19	1.17	1.14	1.19	1.10	1.46	1.24	1.32	1.18

CASE #5C OLD CASE 5 + 10 MILE CABLES

DATE: 07-Dec-04

DONE BY: PB POWER

PLUM PLUM PLUM PLUM NRW NRW NRW NRW EDV EDV BSC BSC ESH ESH FRB FRB STO STO ROCI ROCK115

SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV		TOV																				
TYPE	LOCATION	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION (6C)	PLUM345		PLUM115		NRWK345		NRWK115		EDVN345		BSCK345		ESHR115		FRBG115		STONY115		ROCK115	
									2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
3-Ph line	Plumtree (PT-LM)	50%				1.59	1.33	STONY115	1.59	1.19	1.40	1.18	1.29	1.16	1.20	1.14	1.27	1.16	1.27	1.15	1.19	1.12	1.14	1.10	1.42	1.33	1.31	1.20
3-Ph line	East Devon TP (ED-B OHL)	50%				1.46	1.15	BSCK345	1.30	1.10	1.21	1.14	1.46	1.12	1.19	1.13	1.46	1.13	1.39	1.15	1.27	1.11	1.15	1.09	1.24	1.12	1.20	1.08
1-Ph line	East Devon TP (ED-B OHL)	50%				1.31	1.10	BSCK345	1.16	1.09	1.13	1.07	1.29	1.10	1.21	1.07	1.31	1.10	1.17	1.10	1.14	1.08	1.13	1.05	1.17	1.07	1.15	1.06
3-Ph line	Norwalk (NW-PT)	50%				1.60	1.41	EDVN345	1.41	1.20	1.30	1.18	1.60	1.40	1.36	1.22	1.58	1.41	1.36	1.19	1.28	1.19	1.20	1.12	1.56	1.26	1.38	1.14
3-Ph line	Singer (SI-ED)	50%				1.81	1.48	EDVN345	1.62	1.35	1.44	1.27	1.81	1.46	1.50	1.31	1.79	1.48	1.50	1.26	1.33	1.19	1.28	1.16	1.63	1.26	1.45	1.23
3-Ph bus	Norwalk	50%				1.67	1.45	NRWK345	1.54	1.34	1.41	1.22	1.67	1.45	1.39	1.28	1.66	1.43	1.37	1.20	1.30	1.16	1.19	1.14	1.56	1.34	1.44	1.26
3-Ph bus	Plumtree	50%				1.65	1.40	STONY115	1.52	1.28	1.38	1.22	1.45	1.28	1.26	1.15	1.45	1.30	1.26	1.16	1.21	1.14	1.19	1.16	1.65	1.40	1.44	1.27
3-Ph line	East Devon TP (ED-B OHL)	50%			Plum-LM	1.48	1.20	STONY115	1.44	1.18	1.40	1.18	1.35	1.16	1.23	1.11	1.35	1.17	1.27	1.13	1.30	1.15	1.15	1.07	1.48	1.20	1.37	1.14
1-Ph line	East Devon TP (ED-B OHL)	50%			Plum-LM	1.28	1.11	EDVN345	1.28	1.09	1.23	1.07	1.24	1.10	1.19	1.07	1.26	1.11	1.19	1.09	1.22	1.07	1.15	1.04	1.25	1.07	1.24	1.06
3-Ph line	Norwalk (NW-PT)	50%			Plum-LM	1.69	1.38	NRWK345	1.27	1.20	1.26	1.20	1.69	1.38	1.32	1.22	1.63	1.36	1.33	1.17	1.24	1.14	1.17	1.10	1.32	1.20	1.30	1.16
3-Ph line	Singer (SI-ED)	50%			Plum-LM	1.75	1.42	EDVN345	1.67	1.38	1.50	1.27	1.75	1.41	1.40	1.23	1.69	1.42	1.37	1.19	1.29	1.17	1.21	1.12	1.51	1.29	1.33	1.23
3-Ph bus	Norwalk	50%			Plum-LM	1.60	1.26	NRWK345	1.54	1.21	1.40	1.22	1.60	1.26	1.28	1.15	1.57	1.23	1.43	1.16	1.24	1.13	1.20	1.12	1.37	1.26	1.33	1.15
3-Ph bus	Plumtree	50%			Plum-LM	1.74	1.32	STONY115	1.74	1.17	1.40	1.16	1.36	1.15	1.18	1.13	1.27	1.15	1.22	1.12	1.17	1.11	1.15	1.09	1.60	1.32	1.40	1.17
3-Ph line	Plumtree (PT-LM)	50%			East Dev-Besek OHL	1.71	1.27	STONY115	1.52	1.21	1.43	1.22	1.30	1.16	1.18	1.13	1.30	1.18	1.31	1.16	1.15	1.11	1.16	1.12	1.71	1.27	1.48	1.17
3-Ph line	Norwalk (NW-PT)	50%			East Dev-Besek OHL	1.61	1.25	STONY115	1.30	1.16	1.32	1.16	1.61	1.21	1.25	1.16	1.50	1.21	1.19	1.14	1.16	1.13	1.21	1.10	1.43	1.25	1.30	1.14
3-Ph line	Singer (SI-ED)	50%			East Dev-Besek OHL	1.69	1.28	EDVN345	1.45	1.17	1.33	1.16	1.53	1.23	1.27	1.12	1.69	1.28	1.28	1.15	1.21	1.11	1.22	1.10	1.48	1.16	1.35	1.14
3-Ph bus	Norwalk	50%			East Dev-Besek OHL	1.52	1.14	PLUM115	1.33	1.11	1.26	1.14	1.52	1.12	1.27	1.11	1.52	1.14	1.24	1.14	1.22	1.12	1.18	1.10	1.35	1.13	1.22	1.12
3-Ph bus	Plumtree	50%			East Dev-Besek OHL	1.67	1.25	STONY115	1.57	1.10	1.37	1.14	1.34	1.12	1.20	1.14	1.28	1.13	1.34	1.13	1.21	1.12	1.21	1.09	1.67	1.25	1.45	1.16
3-Ph line	Plumtree (PT-LM)	50%			Norwk H-Nport	1.46	1.22	STONY115	1.46	1.10	1.20	1.10	1.17	1.07	1.18	1.06	1.16	1.08	1.28	1.12	1.12	1.08	1.12	1.07	1.34	1.22	1.24	1.13
3-Ph line	East Devon TP (ED-B OHL)	50%			Norwk H-Nport	1.34	1.12	BSCK345	1.30	1.08	1.21	1.11	1.32	1.08	1.23	1.06	1.30	1.08	1.31	1.12	1.25	1.10	1.13	1.04	1.34	1.11	1.26	1.07
1-Ph line	East Devon TP (ED-B OHL)	50%			Norwk H-Nport	1.21	1.08	BSCK345	1.16	1.06	1.14	1.05	1.17	1.07	1.13	1.05	1.19	1.08	1.21	1.08	1.18	1.06	1.11	1.03	1.18	1.05	1.15	1.04
3-Ph line	Norwalk (NW-PT)	50%			Norwk H-Nport	1.46	1.16	PLUM345	1.33	1.16	1.19	1.12	1.46	1.15	1.26	1.12	1.41	1.14	1.20	1.10	1.19	1.12	1.14	1.07	1.23	1.15	1.14	1.08
3-Ph line	Singer (SI-ED)	50%			Norwk H-Nport	1.61	1.35	EDVN345	1.43	1.24	1.35	1.21	1.61	1.33	1.37	1.23	1.59	1.35	1.38	1.19	1.27	1.14	1.18	1.12	1.50	1.19	1.30	1.15
3-Ph bus	Norwalk	50%			Norwk H-Nport	1.47	1.23	EDVN345	1.37	1.13	1.24	1.12	1.44	1.21	1.29	1.15	1.47	1.23	1.25	1.12	1.22	1.12	1.15	1.08	1.42	1.20	1.28	1.14
3-Ph bus	Plumtree	50%			Norwk H-Nport	1.58	1.33	STONY115	1.43	1.16	1.27	1.14	1.29	1.13	1.19	1.10	1.28	1.15	1.28	1.12	1.17	1.11	1.14	1.09	1.58	1.33	1.38	1.21
3-Ph line	Plumtree (PT-LM)	50%			LM-Pleasant V	1.65	1.33	STONY115	1.65	1.19	1.27	1.19	1.29	1.16	1.20	1.13	1.32	1.16	1.22	1.16	1.19	1.11	1.24	1.10	1.44	1.33	1.36	1.20
3-Ph line	East Devon TP (ED-B OHL)	50%			LM-Pleasant V	1.40	1.21	BSCK345	1.28	1.13	1.25	1.15	1.35	1.12	1.16	1.10	1.37	1.13	1.40	1.21	1.26	1.13	1.19	1.09	1.29	1.15	1.24	1.12
1-Ph line	East Devon TP (ED-B OHL)	50%			LM-Pleasant V	1.26	1.11	EDVN345	1.22	1.10	1.23	1.08	1.21	1.11	1.16	1.07	1.23	1.11	1.26	1.10	1.23	1.08	1.17	1.05	1.25	1.08	1.22	1.06
3-Ph line	Norwalk (NW-PT)	50%			LM-Pleasant V	1.66	1.34	EDVN345	1.42	1.22	1.33	1.23	1.66	1.33	1.30	1.17	1.62	1.34	1.34	1.17	1.24	1.17	1.27	1.13	1.44	1.20	1.35	1.16
3-Ph line	Singer (SI-ED)	50%			LM-Pleasant V	1.71	1.38	EDVN345	1.61	1.33	1.47	1.26	1.71	1.37	1.40	1.23	1.67	1.38	1.45	1.28	1.31	1.18	1.37	1.16	1.55	1.27	1.42	1.23
3-Ph bus	Norwalk	50%			LM-Pleasant V	1.55	1.27	STONY115	1.48	1.24	1.38	1.24	1.53	1.26	1.31	1.17	1.55	1.26	1.32	1.18	1.23	1.14	1.32	1.14	1.42	1.27	1.36	1.19
3-Ph bus	Plumtree	50%			LM-Pleasant V	1.55	1.34	STONY115	1.55	1.20	1.40	1.20	1.31	1.21	1.22	1.14	1.31	1.19	1.27	1.16	1.17	1.13	1.21	1.15	1.45	1.34	1.32	1.22

CASE #5C OLD CASE 5 + 10 MILE CABLES

DATE: 07-Dec-04

DONE BY: PB POWER

PLUM PLUM PLUM PLUM NRW NRW NRW NRW EDV EDV BSC BSC ESHF ESHF FRBC FRBC STO STO ROCI ROCK115

SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV			TOV																			
TYPE	LOCATION	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION (6C)	PLUM345		PLUM115		NRWK345		NRWK115		EDVN345		BSCK345		ESHR115		FRBG115		STONY115		ROCK115	
									2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
3-Ph line	Plumtree (PT-LM)	70%				1.48	1.24	ROCK115	1.48	1.12	1.33	1.12	1.18	1.08	1.15	1.08	1.16	1.08	1.24	1.10	1.14	1.11	1.19	1.15	1.30	1.17	1.34	1.24
3-Ph line	East Devon TP (ED-B OHL)	70%				1.40	1.17	ROCK115	1.26	1.10	1.20	1.10	1.40	1.07	1.16	1.08	1.32	1.07	1.38	1.12	1.27	1.11	1.27	1.12	1.21	1.14	1.35	1.17
1-Ph line	East Devon TP (ED-B OHL)	70%				1.19	1.10	FRBG115	1.11	1.07	1.11	1.08	1.15	1.07	1.09	1.07	1.16	1.08	1.18	1.08	1.19	1.09	1.17	1.10	1.12	1.08	1.12	1.09
3-Ph line	Norwalk (NW-PT)	70%				1.55	1.33	ROCK115	1.31	1.13	1.21	1.13	1.51	1.22	1.29	1.22	1.44	1.21	1.24	1.13	1.20	1.13	1.25	1.14	1.26	1.17	1.55	1.33
3-Ph line	Singer (SI-ED)	70%				1.49	1.27	ROCK115	1.45	1.21	1.29	1.24	1.49	1.26	1.34	1.26	1.47	1.24	1.35	1.16	1.21	1.13	1.26	1.16	1.32	1.25	1.39	1.27
3-Ph bus	Norwalk	70%				1.46	1.30	ROCK115	1.37	1.20	1.25	1.24	1.40	1.20	1.28	1.19	1.46	1.20	1.25	1.12	1.20	1.12	1.21	1.15	1.26	1.21	1.40	1.30
3-Ph bus	Plumtree	70%				1.49	1.26	ROCK115	1.38	1.17	1.31	1.21	1.32	1.15	1.22	1.12	1.29	1.13	1.27	1.13	1.17	1.14	1.22	1.13	1.37	1.24	1.49	1.26
3-Ph line	East Devon TP (ED-B OHL)	70%			Plum-LM	1.33	1.12	STONY115	1.32	1.10	1.22	1.11	1.33	1.10	1.25	1.07	1.26	1.11	1.29	1.09	1.20	1.08	1.17	1.09	1.25	1.12	1.33	1.10
1-Ph line	East Devon TP (ED-B OHL)	70%			Plum-LM	1.20	1.08	FRBG115	1.16	1.06	1.13	1.07	1.12	1.07	1.10	1.04	1.14	1.07	1.11	1.06	1.15	1.06	1.20	1.08	1.13	1.07	1.16	1.07
3-Ph line	Norwalk (NW-PT)	70%			Plum-LM	1.72	1.39	PLUM345	1.50	1.39	1.22	1.20	1.40	1.20	1.21	1.15	1.38	1.20	1.29	1.11	1.19	1.11	1.21	1.11	1.30	1.17	1.72	1.39
3-Ph line	Singer (SI-ED)	70%			Plum-LM	1.45	1.26	ROCK115	1.45	1.23	1.30	1.21	1.43	1.19	1.31	1.19	1.39	1.18	1.26	1.10	1.21	1.10	1.24	1.13	1.34	1.23	1.39	1.26
3-Ph bus	Norwalk	70%			Plum-LM	1.42	1.20	ROCK115	1.42	1.14	1.24	1.19	1.35	1.10	1.22	1.15	1.33	1.11	1.29	1.12	1.23	1.10	1.25	1.12	1.24	1.18	1.42	1.20
3-Ph bus	Plumtree	70%			Plum-LM	1.49	1.26	ROCK115	1.49	1.12	1.25	1.13	1.34	1.08	1.13	1.08	1.29	1.07	1.27	1.09	1.17	1.10	1.26	1.15	1.32	1.16	1.48	1.26
3-Ph line	Plumtree (PT-LM)	70%			East Dev-Besek OHL	1.41	1.20	ROCK115	1.41	1.16	1.28	1.12	1.24	1.13	1.18	1.09	1.25	1.12	1.35	1.11	1.15	1.09	1.19	1.13	1.25	1.15	1.34	1.20
3-Ph line	Norwalk (NW-PT)	70%			East Dev-Besek OHL	1.54	1.35	ROCK115	1.30	1.13	1.39	1.14	1.46	1.16	1.22	1.13	1.39	1.17	1.24	1.10	1.21	1.11	1.26	1.15	1.51	1.24	1.54	1.35
3-Ph line	Singer (SI-ED)	70%			East Dev-Besek OHL	1.66	1.16	NRWK115	1.39	1.10	1.41	1.09	1.49	1.14	1.28	1.16	1.58	1.13	1.24	1.10	1.29	1.11	1.27	1.14	1.47	1.14	1.66	1.16
3-Ph bus	Norwalk	70%			East Dev-Besek OHL	1.48	1.22	ROCK115	1.28	1.09	1.25	1.11	1.47	1.07	1.23	1.11	1.48	1.07	1.24	1.10	1.23	1.10	1.33	1.13	1.32	1.11	1.34	1.22
3-Ph bus	Plumtree	70%			East Dev-Besek OHL	1.52	1.25	ROCK115	1.45	1.16	1.27	1.12	1.28	1.07	1.17	1.08	1.33	1.07	1.39	1.13	1.22	1.11	1.30	1.15	1.36	1.16	1.52	1.25
3-Ph line	Plumtree (PT-LM)	70%			Norwk H-Nport	1.37	1.17	ROCK115	1.37	1.07	1.17	1.07	1.13	1.04	1.10	1.04	1.10	1.04	1.23	1.09	1.11	1.07	1.13	1.09	1.27	1.09	1.26	1.17
3-Ph line	East Devon TP (ED-B OHL)	70%			Norwk H-Nport	1.35	1.11	BSCK345	1.23	1.07	1.12	1.08	1.24	1.07	1.14	1.08	1.25	1.07	1.35	1.11	1.17	1.10	1.14	1.11	1.16	1.11	1.24	1.09
1-Ph line	East Devon TP (ED-B OHL)	70%			Norwk H-Nport	1.15	1.07	FRBG115	1.07	1.04	1.07	1.04	1.07	1.04	1.07	1.04	1.07	1.04	1.14	1.05	1.14	1.05	1.15	1.07	1.08	1.05	1.12	1.06
3-Ph line	Norwalk (NW-PT)	70%			Norwk H-Nport	1.50	1.26	ROCK115	1.37	1.12	1.21	1.07	1.27	1.06	1.18	1.10	1.20	1.06	1.21	1.09	1.18	1.10	1.23	1.12	1.21	1.17	1.50	1.26
3-Ph line	Singer (SI-ED)	70%			Norwk H-Nport	1.42	1.21	ROCK115	1.35	1.10	1.18	1.13	1.42	1.12	1.32	1.15	1.31	1.14	1.26	1.10	1.14	1.09	1.18	1.10	1.27	1.14	1.35	1.21
3-Ph bus	Norwalk	70%			Norwk H-Nport	1.31	1.20	ROCK115	1.22	1.09	1.15	1.10	1.31	1.08	1.20	1.13	1.27	1.07	1.22	1.10	1.16	1.09	1.19	1.10	1.19	1.10	1.28	1.20
3-Ph bus	Plumtree	70%			Norwk H-Nport	1.44	1.23	ROCK115	1.34	1.13	1.22	1.11	1.22	1.05	1.16	1.07	1.23	1.07	1.25	1.11	1.16	1.10	1.20	1.12	1.23	1.13	1.44	1.23
3-Ph line	Plumtree (PT-LM)	70%			LM-Pleasant V	1.53	1.24	ROCK115	1.53	1.10	1.30	1.11	1.24	1.07	1.14	1.07	1.18	1.08	1.27	1.11	1.22	1.12	1.20	1.13	1.33	1.10	1.36	1.24
3-Ph line	East Devon TP (ED-B OHL)	70%			LM-Pleasant V	1.44	1.16	ROCK115	1.29	1.12	1.19	1.10	1.35	1.11	1.16	1.08	1.22	1.10	1.44	1.13	1.21	1.10	1.18	1.12	1.27	1.14	1.31	1.16
1-Ph line	East Devon TP (ED-B OHL)	70%			LM-Pleasant V	1.18	1.08	FRBG115	1.11	1.06	1.12	1.07	1.10	1.07	1.09	1.05	1.11	1.07	1.16	1.05	1.15	1.06	1.18	1.08	1.13	1.07	1.16	1.08
3-Ph line	Norwalk (NW-PT)	70%			LM-Pleasant V	1.58	1.32	ROCK115	1.37	1.18	1.26	1.14	1.35	1.14	1.18	1.14	1.31	1.14	1.25	1.12	1.18	1.10	1.27	1.14	1.28	1.18	1.58	1.32
3-Ph line	Singer (SI-ED)	70%			LM-Pleasant V	1.40	1.27	ROCK115	1.36	1.14	1.24	1.15	1.34	1.16	1.22	1.14	1.37	1.17	1.35	1.14	1.21	1.11	1.24	1.12	1.30	1.16	1.40	1.27
3-Ph bus	Norwalk	70%			LM-Pleasant V	1.40	1.23	ROCK115	1.26	1.10	1.20	1.14	1.29	1.10	1.17	1.11	1.36	1.10	1.33	1.11	1.21	1.10	1.19	1.12	1.26	1.13	1.40	1.23
3-Ph bus	Plumtree	70%			LM-Pleasant V	1.48	1.25	ROCK115	1.34	1.14	1.33	1.12	1.22	1.08	1.13	1.08	1.17	1.09	1.32	1.11	1.21	1.12	1.22	1.14	1.34	1.14	1.48	1.25

CASE #5A OLD CASE 5 + 20 MILE CABLES + C FILTERS

DATE: 09-Dec-04

DONE BY: PB POWER

SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV				TOV																		
TYPE	LOCATION	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION (6C)	PLUM345		PLUM115		NRWK345		NRWK115		EDVN345		BSCK345		ESHR115		FRBG115		STONY115		ROCK115	
									2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
3-Ph line	Plumtree (PT-LM)	50%				1.53	1.21	STONY115	1.49	1.17	1.26	1.18	1.22	1.12	1.17	1.13	1.21	1.12	1.21	1.11	1.21	1.12	1.23	1.08	1.53	1.21	1.38	1.15
3-Ph line	East Devon TP (ED-B OHL)	50%				1.54	1.15	ESHR115	1.41	1.10	1.26	1.12	1.49	1.12	1.43	1.10	1.54	1.13	1.28	1.14	1.27	1.15	1.20	1.09	1.32	1.13	1.28	1.12
1-Ph line	East Devon TP (ED-B OHL)	50%				1.37	1.10	EDVN345	1.27	1.08	1.22	1.08	1.34	1.09	1.24	1.07	1.37	1.10	1.28	1.09	1.27	1.08	1.22	1.05	1.24	1.07	1.25	1.06
3-Ph line	Norwalk (NW-PT)	50%				1.45	1.19	STONY115	1.33	1.18	1.24	1.16	1.45	1.13	1.23	1.16	1.42	1.14	1.30	1.13	1.22	1.14	1.22	1.10	1.36	1.19	1.34	1.15
3-Ph line	Singer (SI-ED)	50%				1.54	1.27	NRWK345	1.31	1.18	1.27	1.15	1.54	1.27	1.24	1.13	1.52	1.27	1.27	1.14	1.22	1.14	1.23	1.09	1.26	1.17	1.23	1.15
3-Ph bus	Norwalk	50%				1.48	1.20	STONY115	1.27	1.13	1.22	1.12	1.45	1.18	1.23	1.10	1.48	1.18	1.19	1.11	1.18	1.13	1.22	1.10	1.24	1.20	1.20	1.13
3-Ph bus	Plumtree	50%				1.86	1.21	STONY115	1.42	1.13	1.37	1.16	1.29	1.14	1.18	1.11	1.21	1.11	1.21	1.12	1.18	1.12	1.23	1.09	1.86	1.21	1.55	1.14
3-Ph line	East Devon TP (ED-B OHL)	50%			Plum-LM	1.49	1.19	ESHR115	1.43	1.18	1.33	1.17	1.49	1.18	1.29	1.12	1.42	1.19	1.27	1.13	1.34	1.19	1.16	1.06	1.41	1.17	1.34	1.13
1-Ph line	East Devon TP (ED-B OHL)	50%			Plum-LM	1.35	1.11	EDVN345	1.32	1.09	1.29	1.08	1.33	1.10	1.24	1.07	1.35	1.11	1.18	1.09	1.23	1.07	1.15	1.04	1.29	1.07	1.24	1.05
3-Ph line	Norwalk (NW-PT)	50%			Plum-LM	1.43	1.16	STONY115	1.33	1.16	1.32	1.15	1.43	1.11	1.22	1.11	1.43	1.11	1.26	1.12	1.20	1.12	1.18	1.08	1.25	1.16	1.24	1.13
3-Ph line	Singer (SI-ED)	50%			Plum-LM	1.42	1.16	EDVN345	1.33	1.13	1.26	1.15	1.42	1.16	1.20	1.11	1.39	1.16	1.21	1.11	1.18	1.12	1.21	1.08	1.34	1.12	1.32	1.11
3-Ph bus	Norwalk	50%			Plum-LM	1.51	1.16	PLUM115	1.51	1.14	1.37	1.16	1.37	1.12	1.28	1.11	1.40	1.11	1.26	1.12	1.17	1.12	1.19	1.10	1.36	1.12	1.27	1.11
3-Ph bus	Plumtree	50%			Plum-LM	1.57	1.21	STONY115	1.43	1.15	1.30	1.19	1.23	1.11	1.23	1.13	1.25	1.11	1.17	1.11	1.19	1.12	1.20	1.08	1.57	1.21	1.39	1.15
3-Ph line	Plumtree (PT-LM)	50%			East Dev-Besek OHL	1.63	1.26	PLUM345	1.63	1.26	1.35	1.17	1.42	1.21	1.28	1.12	1.44	1.19	1.20	1.11	1.19	1.10	1.20	1.08	1.63	1.21	1.41	1.14
3-Ph line	Norwalk (NW-PT)	50%			East Dev-Besek OHL	1.57	1.34	EDVN345	1.29	1.18	1.36	1.18	1.57	1.32	1.32	1.23	1.57	1.34	1.19	1.12	1.22	1.15	1.15	1.09	1.50	1.22	1.34	1.15
3-Ph line	Singer (SI-ED)	50%			East Dev-Besek OHL	1.55	1.15	EDVN345	1.39	1.10	1.39	1.11	1.50	1.13	1.45	1.10	1.55	1.15	1.29	1.11	1.33	1.12	1.35	1.08	1.47	1.10	1.44	1.10
3-Ph bus	Norwalk	50%			East Dev-Besek OHL	1.58	1.16	STONY115	1.48	1.11	1.41	1.14	1.58	1.13	1.40	1.10	1.57	1.14	1.19	1.11	1.30	1.11	1.22	1.09	1.54	1.16	1.45	1.15
3-Ph bus	Plumtree	50%			East Dev-Besek OHL	1.82	1.19	STONY115	1.51	1.13	1.41	1.16	1.37	1.11	1.38	1.12	1.37	1.14	1.33	1.12	1.30	1.11	1.28	1.09	1.82	1.19	1.61	1.15
3-Ph line	Plumtree (PT-LM)	50%			Norwk H-Nport	1.39	1.20	STONY115	1.39	1.13	1.20	1.11	1.17	1.11	1.18	1.08	1.18	1.10	1.20	1.11	1.17	1.09	1.15	1.05	1.38	1.20	1.25	1.11
3-Ph line	East Devon TP (ED-B OHL)	50%			Norwk H-Nport	1.46	1.14	ESHR115	1.36	1.09	1.36	1.09	1.42	1.12	1.37	1.08	1.46	1.13	1.28	1.11	1.32	1.14	1.20	1.06	1.32	1.11	1.30	1.09
1-Ph line	East Devon TP (ED-B OHL)	50%			Norwk H-Nport	1.29	1.08	BSCK345	1.24	1.06	1.23	1.05	1.28	1.07	1.25	1.05	1.29	1.08	1.22	1.08	1.24	1.06	1.19	1.03	1.24	1.05	1.23	1.04
3-Ph line	Norwalk (NW-PT)	50%			Norwk H-Nport	1.39	1.16	PLUM345	1.33	1.16	1.26	1.13	1.39	1.10	1.27	1.11	1.36	1.10	1.32	1.11	1.21	1.11	1.16	1.07	1.30	1.15	1.25	1.10
3-Ph line	Singer (SI-ED)	50%			Norwk H-Nport	1.42	1.15	EDVN345	1.25	1.08	1.20	1.10	1.40	1.14	1.22	1.09	1.42	1.15	1.16	1.09	1.13	1.09	1.17	1.06	1.23	1.10	1.19	1.10
3-Ph bus	Norwalk	50%			Norwk H-Nport	1.38	1.10	PLUM115	1.23	1.09	1.14	1.10	1.34	1.07	1.23	1.08	1.38	1.09	1.22	1.10	1.15	1.10	1.15	1.06	1.22	1.09	1.18	1.09
3-Ph bus	Plumtree	50%			Norwk H-Nport	1.55	1.19	STONY115	1.42	1.09	1.26	1.15	1.29	1.08	1.16	1.09	1.22	1.08	1.22	1.12	1.15	1.11	1.15	1.07	1.55	1.19	1.47	1.11
3-Ph line	Plumtree (PT-LM)	50%			LM-Pleasant V	1.43	1.22	STONY115	1.39	1.15	1.22	1.15	1.23	1.12	1.13	1.11	1.21	1.11	1.20	1.12	1.17	1.11	1.15	1.09	1.43	1.22	1.30	1.16
3-Ph line	East Devon TP (ED-B OHL)	50%			LM-Pleasant V	1.35	1.24	ESHR115	1.29	1.19	1.25	1.19	1.33	1.20	1.22	1.15	1.35	1.21	1.32	1.14	1.33	1.24	1.21	1.10	1.29	1.18	1.35	1.16
1-Ph line	East Devon TP (ED-B OHL)	50%			LM-Pleasant V	1.33	1.11	EDVN345	1.29	1.10	1.30	1.09	1.31	1.11	1.24	1.07	1.33	1.11	1.23	1.09	1.26	1.08	1.23	1.05	1.30	1.08	1.27	1.07
3-Ph line	Norwalk (NW-PT)	50%			LM-Pleasant V	1.45	1.21	PLUM115	1.36	1.20	1.32	1.21	1.41	1.12	1.24	1.12	1.45	1.12	1.27	1.12	1.22	1.13	1.22	1.11	1.33	1.19	1.28	1.13
3-Ph line	Singer (SI-ED)	50%			LM-Pleasant V	1.42	1.18	EDVN345	1.34	1.15	1.29	1.15	1.42	1.17	1.19	1.09	1.42	1.18	1.22	1.12	1.21	1.11	1.20	1.09	1.30	1.16	1.26	1.13
3-Ph bus	Norwalk	50%			LM-Pleasant V	1.41	1.14	PLUM115	1.33	1.13	1.31	1.14	1.39	1.11	1.23	1.09	1.41	1.11	1.27	1.12	1.19	1.14	1.20	1.10	1.34	1.13	1.31	1.14
3-Ph bus	Plumtree	50%			LM-Pleasant V	1.64	1.21	STONY115	1.42	1.14	1.40	1.15	1.22	1.11	1.21	1.11	1.22	1.12	1.32	1.12	1.21	1.13	1.26	1.09	1.64	1.21	1.43	1.14

CASE #5A OLD CASE 5 + 20 MILE CABLES + C FILTERS

DATE: 09-Dec-04

DONE BY: PB POWER

SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV				TOV																		
TYPE	LOCATION	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION (6C)	PLUM345		PLUM115		NRWK345		NRWK115		EDVN345		BSCK345		ESHR115		FRBG115		STONY115		ROCK115	
									2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
3-Ph line	Plumtree (PT-LM)	70%				1.56	1.41	ROCK115	1.39	1.17	1.18	1.16	1.21	1.11	1.17	1.10	1.21	1.11	1.23	1.11	1.18	1.13	1.25	1.16	1.31	1.20	1.56	1.41
3-Ph line	East Devon TP (ED-B OHL)	70%				1.37	1.17	ESHR115	1.23	1.12	1.18	1.11	1.27	1.13	1.23	1.10	1.26	1.14	1.35	1.10	1.24	1.17	1.32	1.16	1.22	1.13	1.37	1.15
1-Ph line	East Devon TP (ED-B OHL)	70%				1.31	1.10	FRBG115	1.16	1.07	1.17	1.08	1.19	1.07	1.18	1.07	1.19	1.08	1.15	1.07	1.19	1.09	1.31	1.10	1.20	1.08	1.29	1.09
3-Ph line	Norwalk (NW-PT)	70%				1.64	1.44	ROCK115	1.31	1.14	1.21	1.14	1.34	1.13	1.28	1.10	1.33	1.12	1.24	1.11	1.19	1.13	1.31	1.19	1.26	1.21	1.64	1.44
3-Ph line	Singer (SI-ED)	70%				1.47	1.30	ROCK115	1.29	1.15	1.25	1.22	1.46	1.19	1.16	1.12	1.41	1.17	1.20	1.12	1.18	1.14	1.30	1.16	1.27	1.27	1.47	1.30
3-Ph bus	Norwalk	70%				1.41	1.31	ROCK115	1.28	1.14	1.23	1.20	1.35	1.14	1.18	1.09	1.41	1.13	1.18	1.12	1.16	1.13	1.30	1.16	1.34	1.20	1.38	1.31
3-Ph bus	Plumtree	70%				1.75	1.35	ROCK115	1.37	1.19	1.33	1.20	1.20	1.14	1.18	1.10	1.29	1.13	1.29	1.11	1.21	1.13	1.31	1.17	1.57	1.27	1.75	1.35
3-Ph line	East Devon TP (ED-B OHL)	70%			Plum-LM	1.46	1.13	ESHR115	1.46	1.11	1.27	1.08	1.40	1.12	1.28	1.07	1.37	1.11	1.25	1.08	1.20	1.13	1.25	1.09	1.39	1.08	1.41	1.10
1-Ph line	East Devon TP (ED-B OHL)	70%			Plum-LM	1.22	1.08	FRBG115	1.18	1.07	1.19	1.07	1.21	1.07	1.15	1.05	1.22	1.07	1.10	1.06	1.10	1.06	1.16	1.08	1.22	1.07	1.22	1.07
3-Ph line	Norwalk (NW-PT)	70%			Plum-LM	1.77	1.44	ROCK115	1.57	1.40	1.29	1.16	1.31	1.09	1.23	1.08	1.33	1.10	1.18	1.11	1.16	1.11	1.28	1.14	1.28	1.18	1.77	1.44
3-Ph line	Singer (SI-ED)	70%			Plum-LM	1.38	1.27	ROCK115	1.32	1.15	1.29	1.22	1.30	1.13	1.18	1.10	1.28	1.13	1.19	1.10	1.20	1.11	1.29	1.14	1.32	1.23	1.38	1.27
3-Ph bus	Norwalk	70%			Plum-LM	1.48	1.30	ROCK115	1.38	1.14	1.38	1.16	1.27	1.10	1.24	1.10	1.31	1.10	1.21	1.13	1.18	1.13	1.28	1.15	1.37	1.19	1.48	1.30
3-Ph bus	Plumtree	70%			Plum-LM	1.54	1.41	ROCK115	1.44	1.16	1.19	1.16	1.18	1.10	1.13	1.09	1.19	1.10	1.21	1.10	1.15	1.13	1.24	1.15	1.40	1.16	1.54	1.41
3-Ph line	Plumtree (PT-LM)	70%			East Dev-Besek OHL	1.52	1.37	ROCK115	1.52	1.13	1.33	1.13	1.41	1.14	1.26	1.08	1.38	1.14	1.24	1.06	1.16	1.09	1.23	1.12	1.50	1.18	1.48	1.37
3-Ph line	Norwalk (NW-PT)	70%			East Dev-Besek OHL	1.67	1.41	ROCK115	1.30	1.22	1.28	1.19	1.39	1.23	1.27	1.16	1.40	1.24	1.14	1.10	1.18	1.12	1.22	1.15	1.49	1.37	1.67	1.41
3-Ph line	Singer (SI-ED)	70%			East Dev-Besek OHL	1.64	1.23	ROCK115	1.29	1.11	1.28	1.12	1.50	1.12	1.19	1.11	1.43	1.14	1.19	1.11	1.21	1.12	1.38	1.15	1.33	1.14	1.64	1.23
3-Ph bus	Norwalk	70%			East Dev-Besek OHL	1.49	1.31	ROCK115	1.37	1.14	1.37	1.12	1.43	1.13	1.39	1.11	1.39	1.15	1.20	1.11	1.22	1.12	1.31	1.16	1.49	1.17	1.45	1.31
3-Ph bus	Plumtree	70%			East Dev-Besek OHL	1.79	1.35	ROCK115	1.59	1.15	1.36	1.16	1.38	1.12	1.30	1.10	1.39	1.14	1.24	1.10	1.23	1.12	1.32	1.16	1.54	1.22	1.79	1.35
3-Ph line	Plumtree (PT-LM)	70%			Norwk H-Nport	1.41	1.35	ROCK115	1.39	1.11	1.17	1.11	1.21	1.06	1.16	1.06	1.17	1.07	1.19	1.06	1.13	1.08	1.19	1.10	1.32	1.10	1.41	1.35
3-Ph line	East Devon TP (ED-B OHL)	70%			Norwk H-Nport	1.29	1.10	ESHR115	1.24	1.06	1.16	1.06	1.25	1.09	1.19	1.07	1.22	1.09	1.27	1.07	1.16	1.10	1.22	1.09	1.18	1.07	1.29	1.09
1-Ph line	East Devon TP (ED-B OHL)	70%			Norwk H-Nport	1.23	1.07	FRBG115	1.10	1.03	1.12	1.04	1.12	1.04	1.13	1.04	1.14	1.05	1.10	1.05	1.11	1.05	1.23	1.07	1.15	1.05	1.20	1.06
3-Ph line	Norwalk (NW-PT)	70%			Norwk H-Nport	1.64	1.40	ROCK115	1.28	1.10	1.21	1.11	1.19	1.10	1.24	1.12	1.21	1.10	1.16	1.10	1.15	1.10	1.27	1.14	1.23	1.19	1.64	1.40
3-Ph line	Singer (SI-ED)	70%			Norwk H-Nport	1.40	1.24	ROCK115	1.17	1.10	1.18	1.13	1.32	1.12	1.12	1.09	1.29	1.12	1.16	1.09	1.15	1.11	1.28	1.13	1.26	1.13	1.40	1.24
3-Ph bus	Norwalk	70%			Norwk H-Nport	1.35	1.30	ROCK115	1.17	1.09	1.15	1.11	1.24	1.08	1.20	1.09	1.27	1.10	1.14	1.09	1.13	1.09	1.27	1.14	1.20	1.12	1.35	1.30
3-Ph bus	Plumtree	70%			Norwk H-Nport	1.61	1.33	ROCK115	1.28	1.15	1.31	1.18	1.13	1.10	1.14	1.08	1.15	1.08	1.26	1.09	1.18	1.10	1.25	1.13	1.53	1.16	1.61	1.33
3-Ph line	Plumtree (PT-LM)	70%			LM-Pleasant V	1.55	1.44	ROCK115	1.46	1.15	1.20	1.15	1.23	1.12	1.21	1.09	1.23	1.12	1.22	1.11	1.19	1.13	1.26	1.16	1.40	1.18	1.55	1.44
3-Ph line	East Devon TP (ED-B OHL)	70%			LM-Pleasant V	1.40	1.14	ROCK115	1.33	1.11	1.21	1.09	1.33	1.12	1.23	1.07	1.33	1.12	1.25	1.07	1.21	1.12	1.24	1.11	1.28	1.12	1.40	1.14
1-Ph line	East Devon TP (ED-B OHL)	70%			LM-Pleasant V	1.25	1.08	FRBG115	1.14	1.06	1.14	1.07	1.15	1.06	1.11	1.05	1.17	1.07	1.11	1.05	1.12	1.06	1.25	1.08	1.18	1.07	1.24	1.08
3-Ph line	Norwalk (NW-PT)	70%			LM-Pleasant V	1.84	1.51	ROCK115	1.41	1.18	1.33	1.17	1.23	1.11	1.19	1.11	1.24	1.10	1.15	1.12	1.14	1.12	1.30	1.16	1.42	1.21	1.84	1.51
3-Ph line	Singer (SI-ED)	70%			LM-Pleasant V	1.45	1.34	ROCK115	1.21	1.14	1.21	1.18	1.30	1.14	1.14	1.10	1.27	1.14	1.19	1.10	1.20	1.12	1.32	1.15	1.30	1.18	1.45	1.34
3-Ph bus	Norwalk	70%			LM-Pleasant V	1.46	1.33	ROCK115	1.19	1.12	1.23	1.17	1.21	1.11	1.17	1.11	1.28	1.10	1.17	1.12	1.16	1.11	1.29	1.15	1.35	1.19	1.46	1.33
3-Ph bus	Plumtree	70%			LM-Pleasant V	1.61	1.41	ROCK115	1.39	1.15	1.40	1.20	1.17	1.11	1.17	1.09	1.18	1.12	1.32	1.11	1.19	1.12	1.31	1.16	1.40	1.21	1.61	1.41

CASE #5A OLD CASE 5 + 20 MILE CABLES

DATE: 08-Dec-04

DONE BY: PB POWER

SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV				TOV																		
TYPE	LOCATION	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION (6C)	PLUM345		PLUM115		NRWK345		NRWK115		EDVN345		BSCK345		ESHR115		FRBG115		STONY115		ROCK115	
									2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
3-Ph line	Plumtree (PT-LM)	50%				1.58	1.25	STONY115	1.43	1.17	1.37	1.19	1.23	1.13	1.16	1.13	1.22	1.13	1.25	1.13	1.19	1.14	1.16	1.09	1.58	1.25	1.42	1.20
3-Ph line	East Devon TP (ED-B OHL)	50%				1.66	1.17	BSCK345	1.27	1.12	1.22	1.11	1.41	1.13	1.24	1.12	1.42	1.13	1.66	1.17	1.37	1.13	1.24	1.09	1.26	1.13	1.18	1.10
1-Ph line	East Devon TP (ED-B OHL)	50%				1.41	1.10	EDVN345	1.30	1.09	1.24	1.08	1.37	1.09	1.30	1.07	1.41	1.10	1.27	1.10	1.24	1.08	1.20	1.05	1.23	1.07	1.23	1.06
3-Ph line	Norwalk (NW-PT)	50%				1.48	1.24	STONY115	1.33	1.18	1.24	1.17	1.48	1.15	1.30	1.14	1.46	1.15	1.32	1.17	1.28	1.17	1.22	1.12	1.31	1.24	1.25	1.14
3-Ph line	Singer (SI-ED)	50%				1.55	1.25	EDVN345	1.41	1.18	1.29	1.17	1.55	1.21	1.28	1.11	1.53	1.25	1.34	1.16	1.24	1.15	1.20	1.11	1.41	1.22	1.29	1.16
3-Ph bus	Norwalk	50%				1.50	1.18	STONY115	1.35	1.11	1.24	1.12	1.46	1.13	1.33	1.14	1.50	1.12	1.28	1.14	1.25	1.15	1.19	1.12	1.27	1.18	1.23	1.14
3-Ph bus	Plumtree	50%				1.81	1.22	STONY115	1.45	1.15	1.32	1.17	1.29	1.11	1.19	1.12	1.21	1.11	1.33	1.14	1.23	1.13	1.20	1.13	1.81	1.22	1.46	1.14
3-Ph line	East Devon TP (ED-B OHL)	50%			Plum-LM	1.59	1.19	ESHR115	1.59	1.17	1.33	1.13	1.45	1.17	1.28	1.11	1.44	1.18	1.30	1.16	1.30	1.19	1.19	1.10	1.43	1.15	1.32	1.10
1-Ph line	East Devon TP (ED-B OHL)	50%			Plum-LM	1.35	1.11	EDVN345	1.32	1.09	1.28	1.07	1.32	1.10	1.22	1.07	1.35	1.11	1.21	1.10	1.23	1.07	1.14	1.04	1.29	1.07	1.22	1.05
3-Ph line	Norwalk (NW-PT)	50%			Plum-LM	1.46	1.17	PLUM345	1.33	1.17	1.31	1.17	1.41	1.14	1.27	1.10	1.46	1.12	1.32	1.14	1.23	1.13	1.18	1.09	1.30	1.12	1.26	1.12
3-Ph line	Singer (SI-ED)	50%			Plum-LM	1.42	1.16	STONY115	1.42	1.14	1.31	1.15	1.42	1.14	1.25	1.12	1.40	1.13	1.24	1.13	1.25	1.13	1.18	1.09	1.38	1.16	1.29	1.14
3-Ph bus	Norwalk	50%			Plum-LM	1.50	1.15	PLUM115	1.50	1.14	1.39	1.15	1.39	1.12	1.38	1.12	1.43	1.12	1.31	1.13	1.22	1.13	1.18	1.09	1.41	1.12	1.32	1.10
3-Ph bus	Plumtree	50%			Plum-LM	1.64	1.25	STONY115	1.50	1.16	1.37	1.20	1.28	1.12	1.19	1.14	1.22	1.13	1.25	1.12	1.21	1.13	1.20	1.08	1.64	1.25	1.41	1.17
3-Ph line	Plumtree (PT-LM)	50%			East Dev-Besek OHL	1.66	1.27	PLUM345	1.66	1.27	1.39	1.18	1.42	1.20	1.26	1.13	1.44	1.18	1.38	1.16	1.19	1.11	1.16	1.10	1.65	1.21	1.42	1.12
3-Ph line	Norwalk (NW-PT)	50%			East Dev-Besek OHL	1.69	1.34	EDVN345	1.28	1.20	1.30	1.20	1.69	1.34	1.42	1.21	1.61	1.34	1.22	1.15	1.20	1.16	1.19	1.10	1.41	1.31	1.30	1.17
3-Ph line	Singer (SI-ED)	50%			East Dev-Besek OHL	1.64	1.14	EDVN345	1.54	1.12	1.42	1.12	1.58	1.14	1.50	1.12	1.64	1.14	1.47	1.13	1.41	1.12	1.29	1.09	1.40	1.12	1.37	1.11
3-Ph bus	Norwalk	50%			East Dev-Besek OHL	1.52	1.15	PLUM115	1.34	1.12	1.33	1.15	1.50	1.13	1.29	1.11	1.52	1.13	1.26	1.12	1.25	1.11	1.24	1.09	1.29	1.14	1.22	1.12
3-Ph bus	Plumtree	50%			East Dev-Besek OHL	1.74	1.20	STONY115	1.54	1.15	1.51	1.16	1.45	1.12	1.27	1.14	1.39	1.15	1.36	1.13	1.33	1.11	1.22	1.08	1.74	1.20	1.53	1.15
3-Ph line	Plumtree (PT-LM)	50%			Norwk H-Nport	1.42	1.21	STONY115	1.34	1.16	1.25	1.11	1.19	1.10	1.19	1.09	1.16	1.09	1.27	1.10	1.14	1.09	1.13	1.06	1.42	1.21	1.31	1.14
3-Ph line	East Devon TP (ED-B OHL)	50%			Norwk H-Nport	1.43	1.17	BSCK345	1.24	1.09	1.17	1.11	1.30	1.11	1.21	1.07	1.29	1.11	1.43	1.17	1.31	1.13	1.18	1.06	1.21	1.10	1.16	1.08
1-Ph line	East Devon TP (ED-B OHL)	50%			Norwk H-Nport	1.33	1.09	BSCK345	1.25	1.06	1.26	1.05	1.31	1.07	1.22	1.05	1.33	1.07	1.26	1.09	1.23	1.06	1.15	1.03	1.25	1.05	1.21	1.03
3-Ph line	Norwalk (NW-PT)	50%			Norwk H-Nport	1.42	1.20	PLUM345	1.36	1.20	1.29	1.11	1.42	1.10	1.35	1.10	1.36	1.10	1.28	1.13	1.21	1.11	1.13	1.07	1.27	1.19	1.16	1.08
3-Ph line	Singer (SI-ED)	50%			Norwk H-Nport	1.39	1.13	BSCK345	1.28	1.11	1.24	1.11	1.36	1.10	1.20	1.09	1.39	1.10	1.29	1.13	1.20	1.11	1.14	1.08	1.26	1.10	1.22	1.09
3-Ph bus	Norwalk	50%			Norwk H-Nport	1.39	1.12	STONY115	1.31	1.09	1.23	1.11	1.36	1.08	1.32	1.10	1.39	1.08	1.24	1.11	1.21	1.11	1.18	1.08	1.32	1.12	1.25	1.11
3-Ph bus	Plumtree	50%			Norwk H-Nport	1.63	1.17	STONY115	1.44	1.09	1.27	1.13	1.32	1.09	1.17	1.11	1.25	1.09	1.26	1.11	1.18	1.11	1.17	1.08	1.63	1.17	1.37	1.11
3-Ph line	Plumtree (PT-LM)	50%			LM-Pleasant V	1.54	1.23	STONY115	1.40	1.17	1.31	1.16	1.23	1.11	1.16	1.12	1.23	1.12	1.23	1.15	1.17	1.12	1.19	1.12	1.54	1.23	1.35	1.17
3-Ph line	East Devon TP (ED-B OHL)	50%			LM-Pleasant V	1.36	1.23	ESHR115	1.35	1.18	1.29	1.15	1.36	1.18	1.23	1.12	1.36	1.19	1.31	1.17	1.30	1.23	1.23	1.11	1.32	1.18	1.27	1.13
1-Ph line	East Devon TP (ED-B OHL)	50%			LM-Pleasant V	1.36	1.11	EDVN345	1.34	1.10	1.32	1.08	1.34	1.10	1.24	1.07	1.36	1.11	1.31	1.11	1.26	1.08	1.21	1.05	1.33	1.08	1.28	1.06
3-Ph line	Norwalk (NW-PT)	50%			LM-Pleasant V	1.45	1.20	PLUM345	1.38	1.20	1.31	1.20	1.43	1.15	1.36	1.11	1.45	1.13	1.32	1.16	1.23	1.14	1.32	1.13	1.40	1.16	1.33	1.14
3-Ph line	Singer (SI-ED)	50%			LM-Pleasant V	1.48	1.17	STONY115	1.39	1.15	1.32	1.16	1.43	1.15	1.31	1.10	1.46	1.14	1.33	1.15	1.22	1.13	1.24	1.10	1.48	1.17	1.38	1.15
3-Ph bus	Norwalk	50%			LM-Pleasant V	1.43	1.16	STONY115	1.42	1.14	1.35	1.15	1.38	1.12	1.33	1.10	1.42	1.11	1.43	1.14	1.24	1.12	1.29	1.10	1.32	1.16	1.25	1.12
3-Ph bus	Plumtree	50%			LM-Pleasant V	1.70	1.23	STONY115	1.44	1.16	1.45	1.17	1.25	1.12	1.22	1.12	1.24	1.13	1.37	1.15	1.20	1.12	1.21	1.10	1.70	1.23	1.47	1.16

CASE #:5A OLD CASE 5 + 20 MILE CABLES

DATE: 08-Dec-04

DONE BY: PB POWER

SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV				TOV																		
TYPE	LOCATION	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION (6C)	PLUM345		PLUM115		NRWK345		NRWK115		EDVN345		BSCK345		ESHR115		FRBG115		STONY115		ROCK115	
									2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
3-Ph line	Plumtree (PT-LM)	70%				1.50	1.26	ROCK115	1.36	1.12	1.18	1.13	1.17	1.08	1.10	1.07	1.17	1.09	1.26	1.10	1.14	1.12	1.20	1.17	1.27	1.15	1.50	1.26
3-Ph line	East Devon TP (ED-B OHL)	70%				1.68	1.18	ROCK115	1.24	1.12	1.20	1.12	1.37	1.12	1.18	1.10	1.43	1.11	1.68	1.14	1.29	1.11	1.26	1.13	1.29	1.15	1.33	1.18
1-Ph line	East Devon TP (ED-B OHL)	70%				1.26	1.10	FRBG115	1.22	1.07	1.20	1.08	1.26	1.07	1.18	1.07	1.26	1.08	1.21	1.07	1.25	1.09	1.25	1.10	1.21	1.08	1.23	1.09
3-Ph line	Norwalk (NW-PT)	70%				1.54	1.32	ROCK115	1.38	1.16	1.23	1.12	1.34	1.08	1.25	1.09	1.32	1.08	1.24	1.12	1.23	1.13	1.29	1.14	1.28	1.16	1.54	1.32
3-Ph line	Singer (SI-ED)	70%				1.45	1.26	ROCK115	1.33	1.11	1.22	1.14	1.43	1.15	1.22	1.14	1.45	1.13	1.34	1.13	1.18	1.12	1.24	1.14	1.25	1.16	1.26	1.26
3-Ph bus	Norwalk	70%				1.43	1.24	ROCK115	1.33	1.12	1.20	1.14	1.39	1.10	1.17	1.11	1.43	1.07	1.22	1.12	1.20	1.12	1.22	1.15	1.24	1.14	1.30	1.24
3-Ph bus	Plumtree	70%				1.60	1.30	ROCK115	1.41	1.12	1.34	1.15	1.21	1.07	1.13	1.08	1.26	1.07	1.21	1.10	1.21	1.13	1.26	1.15	1.50	1.20	1.60	1.30
3-Ph line	East Devon TP (ED-B OHL)	70%			Plum-LM	1.51	1.12	ROCK115	1.51	1.11	1.29	1.10	1.39	1.12	1.21	1.07	1.34	1.11	1.30	1.08	1.24	1.08	1.20	1.09	1.32	1.10	1.46	1.12
1-Ph line	East Devon TP (ED-B OHL)	70%			Plum-LM	1.23	1.08	FRBG115	1.19	1.07	1.18	1.07	1.22	1.07	1.15	1.04	1.23	1.07	1.14	1.06	1.15	1.06	1.20	1.08	1.18	1.07	1.18	1.07
3-Ph line	Norwalk (NW-PT)	70%			Plum-LM	1.74	1.41	PLUM345	1.51	1.41	1.21	1.19	1.35	1.05	1.19	1.08	1.34	1.07	1.28	1.11	1.24	1.11	1.24	1.12	1.34	1.23	1.74	1.38
3-Ph line	Singer (SI-ED)	70%			Plum-LM	1.38	1.24	ROCK115	1.38	1.08	1.25	1.11	1.37	1.07	1.21	1.09	1.38	1.07	1.21	1.10	1.24	1.10	1.27	1.12	1.24	1.12	1.37	1.24
3-Ph bus	Norwalk	70%			Plum-LM	1.44	1.23	ROCK115	1.44	1.10	1.20	1.13	1.31	1.06	1.19	1.09	1.31	1.06	1.30	1.11	1.26	1.11	1.30	1.11	1.31	1.12	1.41	1.23
3-Ph bus	Plumtree	70%			Plum-LM	1.69	1.29	ROCK115	1.68	1.13	1.28	1.10	1.20	1.07	1.15	1.07	1.21	1.08	1.28	1.10	1.21	1.11	1.30	1.18	1.41	1.15	1.69	1.29
3-Ph line	Plumtree (PT-LM)	70%			East Dev-Besek OHL	1.57	1.22	ROCK115	1.57	1.16	1.27	1.13	1.41	1.14	1.23	1.09	1.34	1.14	1.36	1.10	1.18	1.09	1.18	1.12	1.47	1.15	1.45	1.22
3-Ph line	Norwalk (NW-PT)	70%			East Dev-Besek OHL	1.53	1.35	ROCK115	1.28	1.17	1.29	1.19	1.46	1.23	1.29	1.16	1.41	1.24	1.22	1.10	1.18	1.12	1.22	1.20	1.42	1.30	1.53	1.35
3-Ph line	Singer (SI-ED)	70%			East Dev-Besek OHL	1.72	1.18	ROCK115	1.37	1.09	1.30	1.10	1.38	1.09	1.34	1.09	1.47	1.10	1.27	1.11	1.37	1.10	1.36	1.12	1.35	1.11	1.72	1.18
3-Ph bus	Norwalk	70%			East Dev-Besek OHL	1.58	1.25	ROCK115	1.41	1.13	1.38	1.12	1.43	1.10	1.39	1.13	1.39	1.11	1.27	1.09	1.29	1.11	1.36	1.12	1.58	1.17	1.35	1.25
3-Ph bus	Plumtree	70%			East Dev-Besek OHL	1.84	1.25	ROCK115	1.64	1.17	1.35	1.15	1.37	1.10	1.31	1.09	1.39	1.12	1.28	1.11	1.25	1.11	1.32	1.18	1.57	1.19	1.84	1.25
3-Ph line	Plumtree (PT-LM)	70%			Norwk H-Nport	1.41	1.21	ROCK115	1.41	1.08	1.15	1.08	1.16	1.06	1.10	1.05	1.13	1.06	1.28	1.09	1.13	1.08	1.14	1.10	1.27	1.10	1.37	1.21
3-Ph line	East Devon TP (ED-B OHL)	70%			Norwk H-Nport	1.39	1.10	BSCK345	1.31	1.07	1.23	1.07	1.27	1.09	1.27	1.06	1.29	1.09	1.39	1.10	1.30	1.09	1.24	1.10	1.32	1.08	1.35	1.09
1-Ph line	East Devon TP (ED-B OHL)	70%			Norwk H-Nport	1.19	1.07	FRBG115	1.16	1.04	1.11	1.04	1.15	1.04	1.13	1.04	1.16	1.05	1.18	1.05	1.17	1.05	1.19	1.07	1.14	1.05	1.17	1.06
3-Ph line	Norwalk (NW-PT)	70%			Norwk H-Nport	1.52	1.26	ROCK115	1.43	1.13	1.24	1.09	1.25	1.10	1.19	1.08	1.22	1.09	1.30	1.11	1.22	1.11	1.24	1.12	1.24	1.19	1.52	1.26
3-Ph line	Singer (SI-ED)	70%			Norwk H-Nport	1.36	1.21	ROCK115	1.28	1.07	1.13	1.08	1.36	1.05	1.25	1.06	1.34	1.06	1.23	1.11	1.18	1.09	1.23	1.10	1.16	1.11	1.28	1.21
3-Ph bus	Norwalk	70%			Norwk H-Nport	1.31	1.21	ROCK115	1.29	1.08	1.19	1.08	1.26	1.06	1.16	1.07	1.27	1.05	1.28	1.12	1.20	1.10	1.25	1.10	1.26	1.13	1.31	1.21
3-Ph bus	Plumtree	70%			Norwk H-Nport	1.69	1.24	ROCK115	1.38	1.15	1.24	1.12	1.15	1.06	1.15	1.06	1.18	1.07	1.24	1.08	1.19	1.10	1.23	1.14	1.32	1.14	1.69	1.24
3-Ph line	Plumtree (PT-LM)	70%			LM-Pleasant V	1.61	1.28	ROCK115	1.61	1.16	1.25	1.14	1.23	1.10	1.17	1.08	1.25	1.10	1.31	1.11	1.25	1.13	1.22	1.15	1.32	1.13	1.50	1.28
3-Ph line	East Devon TP (ED-B OHL)	70%			LM-Pleasant V	1.42	1.16	ROCK115	1.42	1.13	1.23	1.12	1.33	1.12	1.19	1.07	1.27	1.12	1.38	1.12	1.26	1.09	1.17	1.11	1.31	1.14	1.28	1.16
1-Ph line	East Devon TP (ED-B OHL)	70%			LM-Pleasant V	1.21	1.08	FRBG115	1.17	1.06	1.16	1.07	1.16	1.06	1.13	1.05	1.17	1.07	1.14	1.06	1.17	1.06	1.21	1.08	1.18	1.07	1.20	1.08
3-Ph line	Norwalk (NW-PT)	70%			LM-Pleasant V	1.63	1.31	ROCK115	1.39	1.17	1.29	1.13	1.31	1.09	1.15	1.08	1.30	1.10	1.27	1.13	1.24	1.12	1.28	1.15	1.31	1.19	1.63	1.31
3-Ph line	Singer (SI-ED)	70%			LM-Pleasant V	1.30	1.28	ROCK115	1.29	1.12	1.19	1.11	1.29	1.08	1.15	1.09	1.30	1.08	1.24	1.10	1.24	1.10	1.21	1.12	1.28	1.12	1.29	1.28
3-Ph bus	Norwalk	70%			LM-Pleasant V	1.35	1.24	ROCK115	1.24	1.12	1.21	1.11	1.25	1.08	1.16	1.09	1.29	1.08	1.28	1.11	1.25	1.12	1.23	1.13	1.26	1.16	1.35	1.24
3-Ph bus	Plumtree	70%			LM-Pleasant V	1.64	1.27	ROCK115	1.51	1.14	1.29	1.15	1.21	1.11	1.17	1.09	1.21	1.10	1.38	1.12	1.24	1.13	1.26	1.16	1.32	1.15	1.64	1.27

CASE #: OLD CASE 5 + C FILTERS

DATE: 10-Dec-04

DONE BY: PB POWER

SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV				TOV																		
TYPE	LOCATION	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION (6C)	PLUM345		PLUM115		NRWK345		NRWK115		EDVN345		BSCK345		ESHR115		FRBG115		STONY115		ROCK115	
									2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
3-Ph line	Plumtree (PT-LM)	50%				1.53	1.23	STONY115	1.53	1.17	1.29	1.15	1.33	1.15	1.18	1.09	1.35	1.16	1.30	1.11	1.20	1.10	1.31	1.06	1.43	1.23	1.34	1.13
3-Ph line	East Devon TP (ED-B OHL)	50%				1.60	1.27	EDVN345	1.45	1.19	1.33	1.20	1.58	1.26	1.33	1.13	1.60	1.27	1.25	1.13	1.22	1.09	1.13	1.06	1.39	1.18	1.23	1.12
1-Ph line	East Devon TP (ED-B OHL)	50%				1.35	1.08	BSCK345	1.23	1.06	1.14	1.05	1.33	1.06	1.11	1.05	1.35	1.06	1.16	1.08	1.15	1.06	1.13	1.03	1.15	1.05	1.13	1.03
3-Ph line	Norwalk (NW-PT)	50%				1.53	1.36	EDVN345	1.30	1.19	1.23	1.22	1.51	1.36	1.32	1.24	1.53	1.36	1.34	1.21	1.23	1.16	1.16	1.08	1.36	1.19	1.25	1.16
3-Ph line	Singer (SI-ED)	50%				1.51	1.41	NRWK345	1.37	1.35	1.38	1.38	1.50	1.41	1.30	1.26	1.51	1.40	1.32	1.21	1.31	1.20	1.17	1.11	1.43	1.37	1.36	1.32
3-Ph bus	Norwalk	50%				1.56	1.29	NRWK345	1.48	1.27	1.31	1.27	1.56	1.29	1.29	1.21	1.54	1.29	1.31	1.17	1.24	1.15	1.16	1.08	1.39	1.27	1.28	1.22
3-Ph bus	Plumtree	50%				1.78	1.28	STONY115	1.78	1.19	1.40	1.27	1.40	1.22	1.25	1.14	1.48	1.22	1.33	1.14	1.19	1.12	1.21	1.07	1.64	1.28	1.38	1.18
3-Ph line	East Devon TP (ED-B OHL)	50%			Plum-LM	1.45	1.13	EDVN345	1.43	1.11	1.34	1.09	1.44	1.12	1.26	1.06	1.45	1.13	1.21	1.10	1.30	1.06	1.12	1.03	1.32	1.06	1.23	1.05
1-Ph line	East Devon TP (ED-B OHL)	50%			Plum-LM	1.20	1.08	BSCK345	1.17	1.03	1.11	1.02	1.16	1.03	1.08	1.02	1.17	1.04	1.20	1.08	1.15	1.05	1.10	1.02	1.12	1.02	1.10	1.01
3-Ph line	Norwalk (NW-PT)	50%			Plum-LM	1.48	1.34	NRWK345	1.20	1.16	1.18	1.14	1.46	1.34	1.27	1.20	1.48	1.33	1.31	1.17	1.26	1.14	1.13	1.05	1.27	1.19	1.22	1.16
3-Ph line	Singer (SI-ED)	50%			Plum-LM	1.47	1.28	PLUM345	1.41	1.28	1.34	1.27	1.45	1.27	1.29	1.16	1.47	1.27	1.29	1.14	1.21	1.11	1.13	1.06	1.39	1.28	1.29	1.21
3-Ph bus	Norwalk	50%			Plum-LM	1.53	1.23	NRWK345	1.47	1.23	1.40	1.19	1.53	1.23	1.35	1.16	1.51	1.22	1.28	1.12	1.21	1.11	1.16	1.06	1.33	1.19	1.29	1.14
3-Ph bus	Plumtree	50%			Plum-LM	1.49	1.22	STONY115	1.48	1.16	1.30	1.17	1.38	1.14	1.18	1.10	1.41	1.16	1.22	1.11	1.16	1.09	1.13	1.05	1.49	1.22	1.30	1.12
3-Ph line	Plumtree (PT-LM)	50%			East Dev-Besek OHL	1.46	1.14	PLUM115	1.46	1.14	1.32	1.14	1.37	1.12	1.22	1.07	1.41	1.11	1.18	1.10	1.16	1.08	1.27	1.03	1.29	1.11	1.29	1.07
3-Ph line	Norwalk (NW-PT)	50%			East Dev-Besek OHL	1.61	1.22	EDVN345	1.30	1.14	1.38	1.13	1.61	1.22	1.30	1.14	1.61	1.22	1.14	1.12	1.17	1.11	1.17	1.07	1.42	1.18	1.33	1.10
3-Ph line	Singer (SI-ED)	50%			East Dev-Besek OHL	1.52	1.28	EDVN345	1.43	1.23	1.34	1.22	1.50	1.28	1.28	1.16	1.52	1.28	1.16	1.11	1.17	1.12	1.13	1.06	1.33	1.21	1.23	1.14
3-Ph bus	Norwalk	50%			East Dev-Besek OHL	1.58	1.26	NRWK345	1.40	1.21	1.30	1.22	1.56	1.26	1.36	1.19	1.58	1.26	1.16	1.11	1.17	1.11	1.13	1.06	1.33	1.19	1.22	1.16
3-Ph bus	Plumtree	50%			East Dev-Besek OHL	1.71	1.21	STONY115	1.71	1.17	1.38	1.18	1.44	1.19	1.24	1.10	1.51	1.20	1.28	1.11	1.15	1.09	1.16	1.06	1.57	1.21	1.39	1.12
3-Ph line	Plumtree (PT-LM)	50%			Norwk H-Nport	1.40	1.13	STONY115	1.40	1.11	1.22	1.13	1.24	1.07	1.15	1.04	1.24	1.08	1.23	1.07	1.16	1.05	1.17	1.01	1.24	1.13	1.24	1.06
3-Ph line	East Devon TP (ED-B OHL)	50%			Norwk H-Nport	1.47	1.13	NRWK345	1.28	1.08	1.27	1.09	1.47	1.13	1.24	1.07	1.44	1.11	1.20	1.09	1.18	1.07	1.10	1.02	1.32	1.06	1.18	1.04
1-Ph line	East Devon TP (ED-B OHL)	50%			Norwk H-Nport	1.19	1.07	BSCK345	1.10	1.02	1.08	1.02	1.18	1.02	1.07	1.01	1.19	1.03	1.15	1.07	1.08	1.04	1.08	1.01	1.09	1.02	1.10	1.01
3-Ph line	Norwalk (NW-PT)	50%			Norwk H-Nport	1.33	1.22	EDVN345	1.31	1.14	1.19	1.15	1.32	1.22	1.22	1.15	1.33	1.22	1.21	1.10	1.18	1.09	1.10	1.05	1.22	1.22	1.17	1.14
3-Ph line	Singer (SI-ED)	50%			Norwk H-Nport	1.42	1.31	PLUM115	1.31	1.23	1.32	1.31	1.41	1.26	1.26	1.17	1.42	1.25	1.23	1.13	1.22	1.12	1.13	1.05	1.35	1.26	1.25	1.22
3-Ph bus	Norwalk	50%			Norwk H-Nport	1.41	1.23	PLUM115	1.28	1.18	1.23	1.23	1.36	1.21	1.21	1.16	1.41	1.20	1.21	1.11	1.20	1.10	1.14	1.04	1.27	1.22	1.23	1.15
3-Ph bus	Plumtree	50%			Norwk H-Nport	1.51	1.20	PLUM115	1.40	1.14	1.30	1.20	1.30	1.14	1.19	1.11	1.33	1.14	1.29	1.10	1.19	1.07	1.11	1.04	1.51	1.19	1.43	1.11
3-Ph line	Plumtree (PT-LM)	50%			LM-Pleasant V	1.48	1.20	STONY115	1.48	1.15	1.28	1.15	1.30	1.13	1.15	1.09	1.31	1.15	1.25	1.12	1.17	1.09	1.13	1.06	1.38	1.20	1.27	1.14
3-Ph line	East Devon TP (ED-B OHL)	50%			LM-Pleasant V	1.55	1.16	NRWK345	1.39	1.15	1.28	1.13	1.55	1.16	1.31	1.09	1.54	1.15	1.21	1.12	1.26	1.08	1.16	1.04	1.29	1.14	1.23	1.10
1-Ph line	East Devon TP (ED-B OHL)	50%			LM-Pleasant V	1.18	1.08	BSCK345	1.18	1.05	1.15	1.04	1.18	1.05	1.11	1.03	1.18	1.05	1.17	1.08	1.12	1.05	1.10	1.02	1.15	1.04	1.12	1.03
3-Ph line	Norwalk (NW-PT)	50%			LM-Pleasant V	1.47	1.31	NRWK345	1.34	1.17	1.27	1.21	1.45	1.31	1.28	1.18	1.47	1.30	1.29	1.20	1.25	1.13	1.16	1.08	1.25	1.20	1.23	1.13
3-Ph line	Singer (SI-ED)	50%			LM-Pleasant V	1.46	1.29	PLUM115	1.39	1.26	1.35	1.29	1.46	1.27	1.28	1.15	1.46	1.27	1.27	1.14	1.24	1.14	1.18	1.07	1.38	1.28	1.29	1.23
3-Ph bus	Norwalk	50%			LM-Pleasant V	1.49	1.21	PLUM345	1.42	1.21	1.33	1.19	1.45	1.21	1.27	1.13	1.49	1.19	1.28	1.12	1.22	1.11	1.19	1.08	1.33	1.20	1.26	1.16
3-Ph bus	Plumtree	50%			LM-Pleasant V	1.49	1.21	STONY115	1.49	1.15	1.35	1.17	1.41	1.14	1.24	1.09	1.44	1.16	1.32	1.12	1.21	1.10	1.23	1.06	1.44	1.21	1.37	1.13

CASE #: OLD CASE 5 + C FILTERS

DATE: 10-Dec-04

DONE BY: PB POWER

SWITCHING EVENT		SYSTEM CONDITIONS				MAXIMUM TOV				TOV																		
TYPE	LOCATION	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	2C	6C	LOCATION (6C)	PLUM345		PLUM115		NRWK345		NRWK115		EDVN345		BSCK345		ESHR115		FRBG115		STONY115		ROCK115	
									2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C	2C	6C
3-Ph line	Plumtree (PT-LM)	70%				1.35	1.22	ROCK115	1.35	1.13	1.25	1.14	1.30	1.11	1.13	1.07	1.30	1.11	1.25	1.08	1.13	1.10	1.20	1.12	1.33	1.15	1.35	1.22
3-Ph line	East Devon TP (ED-B OHL)	70%				1.46	1.16	PLUM115	1.35	1.11	1.36	1.16	1.40	1.13	1.16	1.10	1.41	1.14	1.18	1.09	1.19	1.11	1.22	1.12	1.33	1.13	1.46	1.16
1-Ph line	East Devon TP (ED-B OHL)	70%				1.25	1.08	FRBG115	1.18	1.04	1.17	1.05	1.20	1.04	1.09	1.04	1.20	1.04	1.13	1.06	1.13	1.07	1.23	1.08	1.18	1.05	1.25	1.07
3-Ph line	Norwalk (NW-PT)	70%				1.51	1.37	ROCK115	1.27	1.13	1.24	1.13	1.38	1.24	1.18	1.15	1.35	1.26	1.24	1.14	1.23	1.17	1.24	1.15	1.28	1.16	1.51	1.37
3-Ph line	Singer (SI-ED)	70%				1.63	1.39	ROCK115	1.32	1.21	1.38	1.33	1.35	1.22	1.16	1.15	1.33	1.21	1.21	1.12	1.20	1.17	1.25	1.13	1.44	1.38	1.63	1.39
3-Ph bus	Norwalk	70%				1.46	1.36	STONY115	1.31	1.19	1.32	1.30	1.35	1.16	1.16	1.11	1.35	1.16	1.24	1.11	1.21	1.15	1.26	1.13	1.40	1.36	1.46	1.34
3-Ph bus	Plumtree	70%				1.55	1.33	ROCK115	1.45	1.13	1.29	1.16	1.32	1.17	1.16	1.11	1.31	1.19	1.30	1.11	1.19	1.11	1.24	1.14	1.38	1.18	1.55	1.33
3-Ph line	East Devon TP (ED-B OHL)	70%			Plum-LM	1.36	1.08	ROCK115	1.35	1.05	1.22	1.04	1.31	1.05	1.12	1.02	1.30	1.06	1.17	1.07	1.10	1.05	1.19	1.07	1.25	1.05	1.36	1.08
1-Ph line	East Devon TP (ED-B OHL)	70%			Plum-LM	1.18	1.06	FRBG115	1.12	1.01	1.09	1.02	1.10	1.01	1.04	1.00	1.11	1.01	1.11	1.05	1.07	1.04	1.18	1.06	1.11	1.02	1.15	1.04
3-Ph line	Norwalk (NW-PT)	70%			Plum-LM	1.66	1.41	ROCK115	1.57	1.35	1.28	1.11	1.32	1.21	1.15	1.12	1.36	1.22	1.19	1.11	1.15	1.13	1.23	1.12	1.20	1.18	1.66	1.41
3-Ph line	Singer (SI-ED)	70%			Plum-LM	1.44	1.33	ROCK115	1.39	1.17	1.31	1.24	1.34	1.11	1.18	1.10	1.39	1.13	1.24	1.11	1.18	1.11	1.22	1.12	1.34	1.28	1.44	1.33
3-Ph bus	Norwalk	70%			Plum-LM	1.44	1.28	ROCK115	1.36	1.14	1.25	1.23	1.40	1.11	1.15	1.09	1.43	1.12	1.18	1.09	1.17	1.11	1.21	1.11	1.26	1.27	1.44	1.28
3-Ph bus	Plumtree	70%			Plum-LM	1.56	1.22	ROCK115	1.56	1.14	1.31	1.14	1.30	1.12	1.17	1.06	1.35	1.14	1.25	1.08	1.13	1.09	1.21	1.11	1.39	1.17	1.40	1.22
3-Ph line	Plumtree (PT-LM)	70%			East Dev-Besek OHL	1.41	1.22	ROCK115	1.41	1.09	1.19	1.07	1.24	1.09	1.11	1.03	1.29	1.10	1.21	1.06	1.09	1.06	1.15	1.08	1.19	1.11	1.30	1.22
3-Ph line	Norwalk (NW-PT)	70%			East Dev-Besek OHL	1.49	1.31	ROCK115	1.27	1.11	1.25	1.11	1.33	1.11	1.18	1.08	1.35	1.12	1.16	1.09	1.14	1.09	1.18	1.12	1.44	1.25	1.49	1.31
3-Ph line	Singer (SI-ED)	70%			East Dev-Besek OHL	1.52	1.23	ROCK115	1.30	1.15	1.34	1.17	1.36	1.16	1.17	1.13	1.44	1.16	1.14	1.08	1.17	1.10	1.19	1.12	1.34	1.19	1.52	1.23
3-Ph bus	Norwalk	70%			East Dev-Besek OHL	1.42	1.22	ROCK115	1.32	1.13	1.30	1.20	1.41	1.13	1.15	1.11	1.41	1.13	1.13	1.08	1.17	1.10	1.24	1.11	1.31	1.21	1.42	1.22
3-Ph bus	Plumtree	70%			East Dev-Besek OHL	1.72	1.36	ROCK115	1.50	1.12	1.41	1.17	1.36	1.15	1.16	1.08	1.41	1.16	1.26	1.09	1.17	1.11	1.24	1.14	1.63	1.17	1.72	1.36
3-Ph line	Plumtree (PT-LM)	70%			Norwk H-Nport	1.40	1.16	ROCK115	1.40	1.05	1.16	1.05	1.15	1.02	1.09	1.01	1.18	1.03	1.24	1.04	1.09	1.04	1.12	1.05	1.26	1.08	1.30	1.16
3-Ph line	East Devon TP (ED-B OHL)	70%			Norwk H-Nport	1.36	1.07	ROCK115	1.19	1.03	1.23	1.04	1.21	1.04	1.10	1.03	1.19	1.04	1.15	1.06	1.11	1.05	1.17	1.07	1.31	1.05	1.36	1.07
1-Ph line	East Devon TP (ED-B OHL)	70%			Norwk H-Nport	1.18	1.05	FRBG115	1.13	1.00	1.12	1.01	1.14	1.00	1.08	1.00	1.14	1.00	1.09	1.04	1.09	1.03	1.17	1.05	1.12	1.01	1.18	1.03
3-Ph line	Norwalk (NW-PT)	70%			Norwk H-Nport	1.54	1.32	ROCK115	1.24	1.08	1.14	1.11	1.23	1.10	1.15	1.06	1.22	1.10	1.19	1.07	1.15	1.08	1.20	1.11	1.17	1.16	1.54	1.32
3-Ph line	Singer (SI-ED)	70%			Norwk H-Nport	1.42	1.23	ROCK115	1.24	1.09	1.28	1.18	1.24	1.11	1.16	1.09	1.25	1.11	1.20	1.07	1.16	1.10	1.21	1.10	1.33	1.21	1.42	1.23
3-Ph bus	Norwalk	70%			Norwk H-Nport	1.38	1.23	ROCK115	1.21	1.08	1.23	1.19	1.22	1.08	1.15	1.06	1.26	1.08	1.17	1.08	1.14	1.09	1.21	1.10	1.28	1.22	1.38	1.23
3-Ph bus	Plumtree	70%			Norwk H-Nport	1.47	1.24	ROCK115	1.44	1.08	1.29	1.12	1.25	1.10	1.17	1.06	1.28	1.12	1.30	1.07	1.15	1.08	1.25	1.10	1.47	1.14	1.40	1.24
3-Ph line	Plumtree (PT-LM)	70%			LM-Pleasant V	1.49	1.21	ROCK115	1.49	1.14	1.24	1.11	1.25	1.09	1.15	1.05	1.29	1.09	1.27	1.08	1.14	1.08	1.22	1.12	1.29	1.12	1.40	1.21
3-Ph line	East Devon TP (ED-B OHL)	70%			LM-Pleasant V	1.42	1.10	ROCK115	1.23	1.07	1.27	1.08	1.31	1.07	1.12	1.05	1.31	1.07	1.13	1.07	1.11	1.06	1.21	1.08	1.27	1.08	1.42	1.10
1-Ph line	East Devon TP (ED-B OHL)	70%			LM-Pleasant V	1.19	1.05	FRBG115	1.17	1.02	1.13	1.03	1.16	1.02	1.07	1.01	1.15	1.02	1.08	1.04	1.08	1.04	1.19	1.05	1.13	1.03	1.18	1.04
3-Ph line	Norwalk (NW-PT)	70%			LM-Pleasant V	1.61	1.41	ROCK115	1.24	1.12	1.17	1.10	1.31	1.20	1.19	1.13	1.30	1.21	1.19	1.09	1.16	1.10	1.25	1.12	1.23	1.15	1.61	1.41
3-Ph line	Singer (SI-ED)	70%			LM-Pleasant V	1.48	1.29	ROCK115	1.31	1.12	1.30	1.23	1.27	1.10	1.14	1.10	1.30	1.10	1.23	1.08	1.16	1.09	1.26	1.11	1.33	1.25	1.48	1.29
3-Ph bus	Norwalk	70%			LM-Pleasant V	1.45	1.25	ROCK115	1.32	1.11	1.23	1.20	1.30	1.10	1.15	1.08	1.29	1.10	1.20	1.08	1.16	1.10	1.24	1.10	1.26	1.25	1.45	1.25
3-Ph bus	Plumtree	70%			LM-Pleasant V	1.49	1.24	ROCK115	1.49	1.11	1.35	1.13	1.26	1.08	1.17	1.06	1.36	1.10	1.32	1.08	1.16	1.09	1.28	1.11	1.49	1.13	1.46	1.24