

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

DATE: 12/15/2004
Rev. 1 (added Sngr-Nrwk)

DONE BY: E. R. PRATICO, GE ENERGY

SWITCHING EVENT		SYSTEM CONDITIONS						MAXIMUM BREAKER TRV	
TYPE	LOCATION	SIM. CASE	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	FAULT CLEAR	TRV	LOCATION
3ph fault Plum	Trip Plum-Lmtn	1	40%	40%	40%	ALL IN	4.0 CY	439.1	LMTN PHC
3ph fault Plum	Trip Plum-Lmtn	2	40%	40%	40%	ED-BS	4.0 CY	479.9	LMTN PHC
3ph fault Plum	Trip Plum-Lmtn	3	40%	40%	40%	LM-PV	4.0 CY	415.2	PLUM PHC
3ph fault Plum	Trip Plum-Lmtn	4	40%	40%	40%	NH-LI	4.0 CY	438.4	LMTN PHC
3ph fault Plum	Trip Plum-Lmtn	5	50%	50%	50%	ALL IN	4.0 CY	524.6	LMTN PHC
3ph fault Plum	Trip Plum-Lmtn	6	50%	50%	50%	ED-BS	4.0 CY	540.3	LMTN PHC
3ph fault Plum	Trip Plum-Lmtn	7	50%	50%	50%	LM-PV	4.0 CY	388.2	PLUM PHC
3ph fault Plum	Trip Plum-Lmtn	8	50%	50%	50%	NH-LI	4.0 CY	520.2	LMTN PHC
3ph fault Plum	Trip Plum-Lmtn	9	70%	70%	70%	ALL IN	4.0 CY	515.1	LMTN PHC
3ph fault Plum	Trip Plum-Lmtn	10	70%	70%	70%	ED-BS	4.0 CY	557.8	LMTN PHC
3ph fault Plum	Trip Plum-Lmtn	11	70%	70%	70%	LM-PV	4.0 CY	402.1	LMTN PHC
3ph fault Plum	Trip Plum-Lmtn	12	70%	70%	70%	NH-LI	4.0 CY	513.0	LMTN PHC
3ph fault Plum	Trip Plum-Lmtn	13	40%	40%	40%	ALL IN	3.5 CY	444.5	LMTN PHA
3ph fault Plum	Trip Plum-Lmtn	14	40%	40%	40%	ED-BS	3.5 CY	465.7	LMTN PHA
3ph fault Plum	Trip Plum-Lmtn	15	40%	40%	40%	LM-PV	3.5 CY	427.5	PLUM PHC
3ph fault Plum	Trip Plum-Lmtn	16	40%	40%	40%	NH-LI	3.5 CY	437.3	LMTN PHA
3ph fault Plum	Trip Plum-Lmtn	17	50%	50%	50%	ALL IN	3.5 CY	497.9	LMTN PHA
3ph fault Plum	Trip Plum-Lmtn	18	50%	50%	50%	ED-BS	3.5 CY	524.9	LMTN PHA
3ph fault Plum	Trip Plum-Lmtn	19	50%	50%	50%	LM-PV	3.5 CY	447.7	PLUM PHC
3ph fault Plum	Trip Plum-Lmtn	20	50%	50%	50%	NH-LI	3.5 CY	490.1	LMTN PHA
3ph fault Plum	Trip Plum-Lmtn	21	70%	70%	70%	ALL IN	3.5 CY	510.0	LMTN PHA
3ph fault Plum	Trip Plum-Lmtn	22	70%	70%	70%	ED-BS	3.5 CY	530.4	LMTN PHA
3ph fault Plum	Trip Plum-Lmtn	23	70%	70%	70%	LM-PV	3.5 CY	400.4	PLUM PHC
3ph fault Plum	Trip Plum-Lmtn	24	70%	70%	70%	NH-LI	3.5 CY	497.1	LMTN PHA
2ph fault Plum	Trip Plum-Lmtn	1	40%	40%	40%	ALL IN	4.0 CY	414.8	PLUM PHC
2ph fault Plum	Trip Plum-Lmtn	2	40%	40%	40%	ED-BS	4.0 CY	451.6	PLUM PHB
2ph fault Plum	Trip Plum-Lmtn	3	40%	40%	40%	LM-PV	4.0 CY	431.2	PLUM PHB
2ph fault Plum	Trip Plum-Lmtn	4	40%	40%	40%	NH-LI	4.0 CY	427.5	PLUM PHB
2ph fault Plum	Trip Plum-Lmtn	5	50%	50%	50%	ALL IN	4.0 CY	472.6	PLUM PHB
2ph fault Plum	Trip Plum-Lmtn	6	50%	50%	50%	ED-BS	4.0 CY	460.8	LMTN PHA
2ph fault Plum	Trip Plum-Lmtn	7	50%	50%	50%	LM-PV	4.0 CY	396.1	PLUM PHB
2ph fault Plum	Trip Plum-Lmtn	8	50%	50%	50%	NH-LI	4.0 CY	445.1	PLUM PHB
2ph fault Plum	Trip Plum-Lmtn	9	70%	70%	70%	ALL IN	4.0 CY	445.1	PLUM PHB
2ph fault Plum	Trip Plum-Lmtn	10	70%	70%	70%	ED-BS	4.0 CY	490.2	PLUM PHB
2ph fault Plum	Trip Plum-Lmtn	11	70%	70%	70%	LM-PV	4.0 CY	380.0	PLUM PHC
2ph fault Plum	Trip Plum-Lmtn	12	70%	70%	70%	NH-LI	4.0 CY	438.2	LMTN PHA
2ph fault Plum	Trip Plum-Lmtn	13	40%	40%	40%	ALL IN	3.5 CY	591.7	PLUM PHB
2ph fault Plum	Trip Plum-Lmtn	14	40%	40%	40%	ED-BS	3.5 CY	642.0	PLUM PHB
2ph fault Plum	Trip Plum-Lmtn	15	40%	40%	40%	LM-PV	3.5 CY	615.0	PLUM PHB
2ph fault Plum	Trip Plum-Lmtn	16	40%	40%	40%	NH-LI	3.5 CY	638.3	PLUM PHB
2ph fault Plum	Trip Plum-Lmtn	17	50%	50%	50%	ALL IN	3.5 CY	671.8	PLUM PHB
2ph fault Plum	Trip Plum-Lmtn	18	50%	50%	50%	ED-BS	3.5 CY	611.1	PLUM PHB
2ph fault Plum	Trip Plum-Lmtn	19	50%	50%	50%	LM-PV	3.5 CY	609.3	PLUM PHB
2ph fault Plum	Trip Plum-Lmtn	20	50%	50%	50%	NH-LI	3.5 CY	547.0	PLUM PHB
2ph fault Plum	Trip Plum-Lmtn	21	70%	70%	70%	ALL IN	3.5 CY	650.0	PLUM PHB

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SWITCHING EVENT		SYSTEM CONDITIONS						MAXIMUM BREAKER TRV	
TYPE	LOCATION	SIM. CASE	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	FAULT CLEAR	TRV	LOCATION
2ph fault Plum	Trip Plum-Lmnt	22	70%	70%	70%	ED-BS	3.5 CY	586.8	PLUM PHB
2ph fault Plum	Trip Plum-Lmnt	23	70%	70%	70%	LM-PV	3.5 CY	620.9	PLUM PHB
2ph fault Plum	Trip Plum-Lmnt	24	70%	70%	70%	NH-LI	3.5 CY	534.6	PLUM PHB
1ph fault Plum	Trip Plum-Lmnt	1	40%	40%	40%	ALL IN	4.0 CY	657.5	PLUM PHB
1ph fault Plum	Trip Plum-Lmnt	2	40%	40%	40%	ED-BS	4.0 CY	643.6	PLUM PHB
1ph fault Plum	Trip Plum-Lmnt	3	40%	40%	40%	LM-PV	4.0 CY	654.6	PLUM PHB
1ph fault Plum	Trip Plum-Lmnt	4	40%	40%	40%	NH-LI	4.0 CY	669.3	PLUM PHB
1ph fault Plum	Trip Plum-Lmnt	5	50%	50%	50%	ALL IN	4.0 CY	718.0	PLUM PHB
1ph fault Plum	Trip Plum-Lmnt	6	50%	50%	50%	ED-BS	4.0 CY	612.5	LMTN PHB
1ph fault Plum	Trip Plum-Lmnt	7	50%	50%	50%	LM-PV	4.0 CY	650.2	PLUM PHC
1ph fault Plum	Trip Plum-Lmnt	8	50%	50%	50%	NH-LI	4.0 CY	625.3	PLUM PHB
1ph fault Plum	Trip Plum-Lmnt	9	70%	70%	70%	ALL IN	4.0 CY	665.3	PLUM PHB
1ph fault Plum	Trip Plum-Lmnt	10	70%	70%	70%	ED-BS	4.0 CY	646.8	LMTN PHB
1ph fault Plum	Trip Plum-Lmnt	11	70%	70%	70%	LM-PV	4.0 CY	625.5	LMTN PHC
1ph fault Plum	Trip Plum-Lmnt	12	70%	70%	70%	NH-LI	4.0 CY	633.7	LMTN PHB
1ph fault Plum	Trip Plum-Lmnt	13	40%	40%	40%	ALL IN	3.5 CY	596.0	PLUM PHB
1ph fault Plum	Trip Plum-Lmnt	14	40%	40%	40%	ED-BS	3.5 CY	660.8	LMTN PHB
1ph fault Plum	Trip Plum-Lmnt	15	40%	40%	40%	LM-PV	3.5 CY	680.8	PLUM PHC
1ph fault Plum	Trip Plum-Lmnt	16	40%	40%	40%	NH-LI	3.5 CY	667.6	LMTN PHB
1ph fault Plum	Trip Plum-Lmnt	17	50%	50%	50%	ALL IN	3.5 CY	630.1	PLUM PHB
1ph fault Plum	Trip Plum-Lmnt	18	50%	50%	50%	ED-BS	3.5 CY	626.7	LMTN PHB
1ph fault Plum	Trip Plum-Lmnt	19	50%	50%	50%	LM-PV	3.5 CY	599.9	PLUM PHC
1ph fault Plum	Trip Plum-Lmnt	20	50%	50%	50%	NH-LI	3.5 CY	664.6	LMTN PHB
1ph fault Plum	Trip Plum-Lmnt	21	70%	70%	70%	ALL IN	3.5 CY	700.5	LMTN PHB
1ph fault Plum	Trip Plum-Lmnt	22	70%	70%	70%	ED-BS	3.5 CY	635.9	LMTN PHB
1ph fault Plum	Trip Plum-Lmnt	23	70%	70%	70%	LM-PV	3.5 CY	560.7	LMTN PHC
1ph fault Plum	Trip Plum-Lmnt	24	70%	70%	70%	NH-LI	3.5 CY	635.1	LMTN PHB
3ph fault Edvn	Trip Edvn-Bsck	1	40%	40%	40%	ALL IN	4.0 CY	499.0	BSCK PHB
3ph fault Edvn	Trip Edvn-Bsck	2	40%	40%	40%	PL-LM	4.0 CY	511.9	BSCK PHC
3ph fault Edvn	Trip Edvn-Bsck	3	40%	40%	40%	LM-PV	4.0 CY	491.0	BSCK PHB
3ph fault Edvn	Trip Edvn-Bsck	4	40%	40%	40%	NH-LI	4.0 CY	492.4	BSCK PHB
3ph fault Edvn	Trip Edvn-Bsck	5	50%	50%	50%	ALL IN	4.0 CY	518.6	BSCK PHB
3ph fault Edvn	Trip Edvn-Bsck	6	50%	50%	50%	PL-LM	4.0 CY	532.9	BSCK PHC
3ph fault Edvn	Trip Edvn-Bsck	7	50%	50%	50%	LM-PV	4.0 CY	510.3	BSCK PHB
3ph fault Edvn	Trip Edvn-Bsck	8	50%	50%	50%	NH-LI	4.0 CY	508.1	BSCK PHB
3ph fault Edvn	Trip Edvn-Bsck	9	70%	70%	70%	ALL IN	4.0 CY	498.3	BSCK PHB
3ph fault Edvn	Trip Edvn-Bsck	10	70%	70%	70%	PL-LM	4.0 CY	520.1	BSCK PHC
3ph fault Edvn	Trip Edvn-Bsck	11	70%	70%	70%	LM-PV	4.0 CY	482.8	BSCK PHB
3ph fault Edvn	Trip Edvn-Bsck	12	70%	70%	70%	NH-LI	4.0 CY	487.9	BSCK PHB
3ph fault Edvn	Trip Edvn-Bsck	13	40%	40%	40%	ALL IN	3.5 CY	462.4	BSCK PHC
3ph fault Edvn	Trip Edvn-Bsck	14	40%	40%	40%	PL-LM	3.5 CY	479.0	BSCK PHA
3ph fault Edvn	Trip Edvn-Bsck	15	40%	40%	40%	LM-PV	3.5 CY	418.9	BSCK PHA
3ph fault Edvn	Trip Edvn-Bsck	16	40%	40%	40%	NH-LI	3.5 CY	443.7	BSCK PHC
3ph fault Edvn	Trip Edvn-Bsck	17	50%	50%	50%	ALL IN	3.5 CY	474.3	BSCK PHC
3ph fault Edvn	Trip Edvn-Bsck	18	50%	50%	50%	PL-LM	3.5 CY	494.9	BSCK PHA

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

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SWITCHING EVENT		SYSTEM CONDITIONS						MAXIMUM BREAKER TRV	
TYPE	LOCATION	SIM. CASE	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	FAULT CLEAR	TRV	LOCATION
3ph fault Edvn	Trip Edvn-Bsck	19	50%	50%	50%	LM-PV	3.5 CY	424.2	BSCK PHA
3ph fault Edvn	Trip Edvn-Bsck	20	50%	50%	50%	NH-LI	3.5 CY	452.2	BSCK PHA
3ph fault Edvn	Trip Edvn-Bsck	21	70%	70%	70%	ALL IN	3.5 CY	471.2	BSCK PHA
3ph fault Edvn	Trip Edvn-Bsck	22	70%	70%	70%	PL-LM	3.5 CY	496.0	BSCK PHA
3ph fault Edvn	Trip Edvn-Bsck	23	70%	70%	70%	LM-PV	3.5 CY	434.5	BSCK PHA
3ph fault Edvn	Trip Edvn-Bsck	24	70%	70%	70%	NH-LI	3.5 CY	458.9	BSCK PHA
2ph fault Edvn	Trip Edvn-Bsck	1	40%	40%	40%	ALL IN	4.0 CY	511.8	EDVN PHB
2ph fault Edvn	Trip Edvn-Bsck	2	40%	40%	40%	PL-LM	4.0 CY	686.0	EDVN PHB
2ph fault Edvn	Trip Edvn-Bsck	3	40%	40%	40%	LM-PV	4.0 CY	615.6	EDVN PHB
2ph fault Edvn	Trip Edvn-Bsck	4	40%	40%	40%	NH-LI	4.0 CY	617.3	EDVN PHB
2ph fault Edvn	Trip Edvn-Bsck	5	50%	50%	50%	ALL IN	4.0 CY	485.5	BSCK PHC
2ph fault Edvn	Trip Edvn-Bsck	6	50%	50%	50%	PL-LM	4.0 CY	573.7	EDVN PHB
2ph fault Edvn	Trip Edvn-Bsck	7	50%	50%	50%	LM-PV	4.0 CY	597.1	EDVN PHB
2ph fault Edvn	Trip Edvn-Bsck	8	50%	50%	50%	NH-LI	4.0 CY	588.7	EDVN PHB
2ph fault Edvn	Trip Edvn-Bsck	9	70%	70%	70%	ALL IN	4.0 CY	482.8	EDVN PHB
2ph fault Edvn	Trip Edvn-Bsck	10	70%	70%	70%	PL-LM	4.0 CY	673.3	EDVN PHB
2ph fault Edvn	Trip Edvn-Bsck	11	70%	70%	70%	LM-PV	4.0 CY	461.0	EDVN PHB
2ph fault Edvn	Trip Edvn-Bsck	12	70%	70%	70%	NH-LI	4.0 CY	469.8	BSCK PHC
2ph fault Edvn	Trip Edvn-Bsck	13	40%	40%	40%	ALL IN	3.5 CY	707.7	EDVN PHB
2ph fault Edvn	Trip Edvn-Bsck	14	40%	40%	40%	PL-LM	3.5 CY	697.5	EDVN PHB
2ph fault Edvn	Trip Edvn-Bsck	15	40%	40%	40%	LM-PV	3.5 CY	665.4	EDVN PHB
2ph fault Edvn	Trip Edvn-Bsck	16	40%	40%	40%	NH-LI	3.5 CY	673.6	EDVN PHB
2ph fault Edvn	Trip Edvn-Bsck	17	50%	50%	50%	ALL IN	3.5 CY	698.9	EDVN PHB
2ph fault Edvn	Trip Edvn-Bsck	18	50%	50%	50%	PL-LM	3.5 CY	641.8	EDVN PHB
2ph fault Edvn	Trip Edvn-Bsck	19	50%	50%	50%	LM-PV	3.5 CY	659.1	EDVN PHB
2ph fault Edvn	Trip Edvn-Bsck	20	50%	50%	50%	NH-LI	3.5 CY	656.4	EDVN PHB
2ph fault Edvn	Trip Edvn-Bsck	21	70%	70%	70%	ALL IN	3.5 CY	657.5	EDVN PHB
2ph fault Edvn	Trip Edvn-Bsck	22	70%	70%	70%	PL-LM	3.5 CY	599.1	EDVN PHB
2ph fault Edvn	Trip Edvn-Bsck	23	70%	70%	70%	LM-PV	3.5 CY	573.5	EDVN PHB
2ph fault Edvn	Trip Edvn-Bsck	24	70%	70%	70%	NH-LI	3.5 CY	569.1	EDVN PHB
1ph fault Edvn	Trip Edvn-Bsck	1	40%	40%	40%	ALL IN	4.0 CY	650.1	EDVN PHC
1ph fault Edvn	Trip Edvn-Bsck	2	40%	40%	40%	PL-LM	4.0 CY	564.9	EDVN PHC
1ph fault Edvn	Trip Edvn-Bsck	3	40%	40%	40%	LM-PV	4.0 CY	591.2	EDVN PHC
1ph fault Edvn	Trip Edvn-Bsck	4	40%	40%	40%	NH-LI	4.0 CY	625.1	EDVN PHC
1ph fault Edvn	Trip Edvn-Bsck	5	50%	50%	50%	ALL IN	4.0 CY	656.1	BSCK PHC
1ph fault Edvn	Trip Edvn-Bsck	6	50%	50%	50%	PL-LM	4.0 CY	451.0	BSCK PHB
1ph fault Edvn	Trip Edvn-Bsck	7	50%	50%	50%	LM-PV	4.0 CY	434.4	EDVN PHB
1ph fault Edvn	Trip Edvn-Bsck	8	50%	50%	50%	NH-LI	4.0 CY	435.9	BSCK PHB
1ph fault Edvn	Trip Edvn-Bsck	9	70%	70%	70%	ALL IN	4.0 CY	556.7	EDVN PHB
1ph fault Edvn	Trip Edvn-Bsck	10	70%	70%	70%	PL-LM	4.0 CY	441.8	BSCK PHC
1ph fault Edvn	Trip Edvn-Bsck	11	70%	70%	70%	LM-PV	4.0 CY	413.9	BSCK PHC
1ph fault Edvn	Trip Edvn-Bsck	12	70%	70%	70%	NH-LI	4.0 CY	437.7	BSCK PHC
1ph fault Edvn	Trip Edvn-Bsck	13	40%	40%	40%	ALL IN	3.5 CY	717.2	EDVN PHC
1ph fault Edvn	Trip Edvn-Bsck	14	40%	40%	40%	PL-LM	3.5 CY	563.7	EDVN PHB
1ph fault Edvn	Trip Edvn-Bsck	15	40%	40%	40%	LM-PV	3.5 CY	608.8	EDVN PHC

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

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SWITCHING EVENT		SYSTEM CONDITIONS						MAXIMUM BREAKER TRV	
TYPE	LOCATION	SIM. CASE	LOAD LEVEL	CAPS	SHUNT REACTS	LINE OUT	FAULT CLEAR	TRV	LOCATION
1ph fault Edvn	Trip Edvn-Bsck	16	40%	40%	40%	NH-LI	3.5 CY	618.1	EDVN PHC
1ph fault Edvn	Trip Edvn-Bsck	17	50%	50%	50%	ALL IN	3.5 CY	704.4	EDVN PHC
1ph fault Edvn	Trip Edvn-Bsck	18	50%	50%	50%	PL-LM	3.5 CY	599.8	EDVN PHC
1ph fault Edvn	Trip Edvn-Bsck	19	50%	50%	50%	LM-PV	3.5 CY	602.3	EDVN PHC
1ph fault Edvn	Trip Edvn-Bsck	20	50%	50%	50%	NH-LI	3.5 CY	627.6	EDVN PHC
1ph fault Edvn	Trip Edvn-Bsck	21	70%	70%	70%	ALL IN	3.5 CY	656.1	EDVN PHC
1ph fault Edvn	Trip Edvn-Bsck	22	70%	70%	70%	PL-LM	3.5 CY	538.8	BSCK PHC
1ph fault Edvn	Trip Edvn-Bsck	23	70%	70%	70%	LM-PV	3.5 CY	552.5	EDVN PHC
1ph fault Edvn	Trip Edvn-Bsck	24	70%	70%	70%	NH-LI	3.5 CY	566.1	BSCK PHC
3ph fault Nrwk	Trip Nrwk-Plum	1	40%	40%	40%	ALL IN	4.0 CY	433.1	NRWK PHC
3ph fault Nrwk	Trip Nrwk-Plum	2	40%	40%	40%	ED-BS	4.0 CY	430.1	NRWK PHC
3ph fault Nrwk	Trip Nrwk-Plum	3	40%	40%	40%	PL-LM	4.0 CY	424.8	NRWK PHC
3ph fault Nrwk	Trip Nrwk-Plum	4	40%	40%	40%	LM-PV	4.0 CY	421.4	NRWK PHC
3ph fault Nrwk	Trip Nrwk-Plum	5	40%	40%	40%	NH-LI	4.0 CY	396.2	NRWK PHC
3ph fault Nrwk	Trip Nrwk-Plum	6	50%	50%	50%	ALL IN	4.0 CY	415.9	PLUM PHB
3ph fault Nrwk	Trip Nrwk-Plum	7	50%	50%	50%	ED-BS	4.0 CY	417.2	PLUM PHB
3ph fault Nrwk	Trip Nrwk-Plum	8	50%	50%	50%	PL-LM	4.0 CY	399.6	NRWK PHC
3ph fault Nrwk	Trip Nrwk-Plum	9	50%	50%	50%	LM-PV	4.0 CY	393.4	NRWK PHC
3ph fault Nrwk	Trip Nrwk-Plum	10	50%	50%	50%	NH-LI	4.0 CY	406.2	PLUM PHB
3ph fault Nrwk	Trip Nrwk-Plum	11	70%	70%	70%	ALL IN	4.0 CY	413.6	PLUM PHC
3ph fault Nrwk	Trip Nrwk-Plum	12	70%	70%	70%	ED-BS	4.0 CY	415.7	PLUM PHC
3ph fault Nrwk	Trip Nrwk-Plum	13	70%	70%	70%	PL-LM	4.0 CY	394.7	PLUM PHC
3ph fault Nrwk	Trip Nrwk-Plum	14	70%	70%	70%	LM-PV	4.0 CY	384.3	PLUM PHC
3ph fault Nrwk	Trip Nrwk-Plum	15	70%	70%	70%	NH-LI	4.0 CY	387.5	PLUM PHB
3ph fault Nrwk	Trip Nrwk-Plum	16	40%	40%	40%	ALL IN	3.5 CY	430.6	NRWK PHA
3ph fault Nrwk	Trip Nrwk-Plum	17	40%	40%	40%	ED-BS	3.5 CY	402.3	NRWK PHC
3ph fault Nrwk	Trip Nrwk-Plum	18	40%	40%	40%	PL-LM	3.5 CY	432.0	NRWK PHA
3ph fault Nrwk	Trip Nrwk-Plum	19	40%	40%	40%	LM-PV	3.5 CY	409.5	NRWK PHA
3ph fault Nrwk	Trip Nrwk-Plum	20	40%	40%	40%	NH-LI	3.5 CY	377.0	NRWK PHA
3ph fault Nrwk	Trip Nrwk-Plum	21	50%	50%	50%	ALL IN	3.5 CY	397.1	NRWK PHA
3ph fault Nrwk	Trip Nrwk-Plum	22	50%	50%	50%	ED-BS	3.5 CY	401.0	NRWK PHC
3ph fault Nrwk	Trip Nrwk-Plum	23	50%	50%	50%	PL-LM	3.5 CY	404.1	NRWK PHA
3ph fault Nrwk	Trip Nrwk-Plum	24	50%	50%	50%	LM-PV	3.5 CY	378.7	NRWK PHA
3ph fault Nrwk	Trip Nrwk-Plum	25	50%	50%	50%	NH-LI	3.5 CY	356.4	NRWK PHA
3ph fault Nrwk	Trip Nrwk-Plum	26	70%	70%	70%	ALL IN	3.5 CY	383.6	PLUM PHC
3ph fault Nrwk	Trip Nrwk-Plum	27	70%	70%	70%	ED-BS	3.5 CY	392.1	NRWK PHA
3ph fault Nrwk	Trip Nrwk-Plum	28	70%	70%	70%	PL-LM	3.5 CY	378.7	PLUM PHA
3ph fault Nrwk	Trip Nrwk-Plum	29	70%	70%	70%	LM-PV	3.5 CY	389.1	PLUM PHA
3ph fault Nrwk	Trip Nrwk-Plum	30	70%	70%	70%	NH-LI	3.5 CY	367.9	PLUM PHC
2ph fault Nrwk	Trip Nrwk-Plum	1	40%	40%	40%	ALL IN	4.0 CY	552.9	NRWK PHB
2ph fault Nrwk	Trip Nrwk-Plum	2	40%	40%	40%	ED-BS	4.0 CY	672.5	NRWK PHB
2ph fault Nrwk	Trip Nrwk-Plum	3	40%	40%	40%	PL-LM	4.0 CY	542.8	NRWK PHB
2ph fault Nrwk	Trip Nrwk-Plum	4	40%	40%	40%	LM-PV	4.0 CY	534.8	NRWK PHB
2ph fault Nrwk	Trip Nrwk-Plum	5	40%	40%	40%	NH-LI	4.0 CY	564.9	NRWK PHB
2ph fault Nrwk	Trip Nrwk-Plum	6	50%	50%	50%	ALL IN	4.0 CY	413.7	NRWK PHC

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

DATE: 12/15/2004
Rev. 1 (added Sngr-Nrwk)

DONE BY: E. R. PRATICO, GE ENERGY

SWITCHING EVENT		SYSTEM CONDITIONS						MAXIMUM BREAKER TRV	
TYPE	LOCATION	SIM. CASE	LOAD LEVEL	CAPS	SHUNT REACTS	LINE OUT	FAULT CLEAR	TRV	LOCATION
2ph fault Nrwk	Trip Nrwk-Plum	7	50%	50%	50%	ED-BS	4.0 CY	397.3	NRWK PHA
2ph fault Nrwk	Trip Nrwk-Plum	8	50%	50%	50%	PL-LM	4.0 CY	391.0	NRWK PHC
2ph fault Nrwk	Trip Nrwk-Plum	9	50%	50%	50%	LM-PV	4.0 CY	371.8	NRWK PHC
2ph fault Nrwk	Trip Nrwk-Plum	10	50%	50%	50%	NH-LI	4.0 CY	359.2	NRWK PHC
2ph fault Nrwk	Trip Nrwk-Plum	11	70%	70%	70%	ALL IN	4.0 CY	622.7	PLUM PHB
2ph fault Nrwk	Trip Nrwk-Plum	12	70%	70%	70%	ED-BS	4.0 CY	542.0	NRWK PHB
2ph fault Nrwk	Trip Nrwk-Plum	13	70%	70%	70%	PL-LM	4.0 CY	581.0	PLUM PHB
2ph fault Nrwk	Trip Nrwk-Plum	14	70%	70%	70%	LM-PV	4.0 CY	578.8	PLUM PHB
2ph fault Nrwk	Trip Nrwk-Plum	15	70%	70%	70%	NH-LI	4.0 CY	573.6	PLUM PHB
2ph fault Nrwk	Trip Nrwk-Plum	16	40%	40%	40%	ALL IN	3.5 CY	591.9	NRWK PHB
2ph fault Nrwk	Trip Nrwk-Plum	17	40%	40%	40%	ED-BS	3.5 CY	651.1	NRWK PHB
2ph fault Nrwk	Trip Nrwk-Plum	18	40%	40%	40%	PL-LM	3.5 CY	530.7	NRWK PHB
2ph fault Nrwk	Trip Nrwk-Plum	19	40%	40%	40%	LM-PV	3.5 CY	663.8	NRWK PHB
2ph fault Nrwk	Trip Nrwk-Plum	20	40%	40%	40%	NH-LI	3.5 CY	567.2	NRWK PHB
2ph fault Nrwk	Trip Nrwk-Plum	21	50%	50%	50%	ALL IN	3.5 CY	403.5	NRWK PHB
2ph fault Nrwk	Trip Nrwk-Plum	22	50%	50%	50%	ED-BS	3.5 CY	406.7	NRWK PHA
2ph fault Nrwk	Trip Nrwk-Plum	23	50%	50%	50%	PL-LM	3.5 CY	369.0	NRWK PHA
2ph fault Nrwk	Trip Nrwk-Plum	24	50%	50%	50%	LM-PV	3.5 CY	387.4	NRWK PHB
2ph fault Nrwk	Trip Nrwk-Plum	25	50%	50%	50%	NH-LI	3.5 CY	351.8	NRWK PHA
2ph fault Nrwk	Trip Nrwk-Plum	26	70%	70%	70%	ALL IN	3.5 CY	611.2	PLUM PHB
2ph fault Nrwk	Trip Nrwk-Plum	27	70%	70%	70%	ED-BS	3.5 CY	554.4	NRWK PHB
2ph fault Nrwk	Trip Nrwk-Plum	28	70%	70%	70%	PL-LM	3.5 CY	580.3	PLUM PHB
2ph fault Nrwk	Trip Nrwk-Plum	29	70%	70%	70%	LM-PV	3.5 CY	550.4	PLUM PHB
2ph fault Nrwk	Trip Nrwk-Plum	30	70%	70%	70%	NH-LI	3.5 CY	564.0	PLUM PHB
1ph fault Nrwk	Trip Nrwk-Plum	1	40%	40%	40%	ALL IN	4.0 CY	541.7	PLUM PHC
1ph fault Nrwk	Trip Nrwk-Plum	2	40%	40%	40%	ED-BS	4.0 CY	708.9	NRWK PHC
1ph fault Nrwk	Trip Nrwk-Plum	3	40%	40%	40%	PL-LM	4.0 CY	557.8	NRWK PHB
1ph fault Nrwk	Trip Nrwk-Plum	4	40%	40%	40%	LM-PV	4.0 CY	529.9	NRWK PHC
1ph fault Nrwk	Trip Nrwk-Plum	5	40%	40%	40%	NH-LI	4.0 CY	546.6	NRWK PHC
1ph fault Nrwk	Trip Nrwk-Plum	6	50%	50%	50%	ALL IN	4.0 CY	359.4	NRWK PHA
1ph fault Nrwk	Trip Nrwk-Plum	7	50%	50%	50%	ED-BS	4.0 CY	353.0	NRWK PHA
1ph fault Nrwk	Trip Nrwk-Plum	8	50%	50%	50%	PL-LM	4.0 CY	354.8	NRWK PHC
1ph fault Nrwk	Trip Nrwk-Plum	9	50%	50%	50%	LM-PV	4.0 CY	338.8	NRWK PHC
1ph fault Nrwk	Trip Nrwk-Plum	10	50%	50%	50%	NH-LI	4.0 CY	330.4	PLUM PHC
1ph fault Nrwk	Trip Nrwk-Plum	11	70%	70%	70%	ALL IN	4.0 CY	636.1	PLUM PHB
1ph fault Nrwk	Trip Nrwk-Plum	12	70%	70%	70%	ED-BS	4.0 CY	624.1	PLUM PHB
1ph fault Nrwk	Trip Nrwk-Plum	13	70%	70%	70%	PL-LM	4.0 CY	570.5	PLUM PHC
1ph fault Nrwk	Trip Nrwk-Plum	14	70%	70%	70%	LM-PV	4.0 CY	579.3	PLUM PHB
1ph fault Nrwk	Trip Nrwk-Plum	15	70%	70%	70%	NH-LI	4.0 CY	608.7	PLUM PHB
1ph fault Nrwk	Trip Nrwk-Plum	16	40%	40%	40%	ALL IN	3.5 CY	544.5	NRWK PHB
1ph fault Nrwk	Trip Nrwk-Plum	17	40%	40%	40%	ED-BS	3.5 CY	591.1	NRWK PHB
1ph fault Nrwk	Trip Nrwk-Plum	18	40%	40%	40%	PL-LM	3.5 CY	586.3	NRWK PHC
1ph fault Nrwk	Trip Nrwk-Plum	19	40%	40%	40%	LM-PV	3.5 CY	650.3	NRWK PHB
1ph fault Nrwk	Trip Nrwk-Plum	20	40%	40%	40%	NH-LI	3.5 CY	551.4	NRWK PHB
1ph fault Nrwk	Trip Nrwk-Plum	21	50%	50%	50%	ALL IN	3.5 CY	407.0	PLUM PHB

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

DATE: 12/15/2004
 Rev. 1 (added Sngr-Nrwk)

DONE BY: E. R. PRATICO, GE ENERGY

SWITCHING EVENT		SYSTEM CONDITIONS						MAXIMUM BREAKER TRV	
TYPE	LOCATION	SIM. CASE	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	FAULT CLEAR	TRV	LOCATION
1ph fault Nrwk	Trip Nrwk-Plum	22	50%	50%	50%	ED-BS	3.5 CY	373.3	PLUM PHA
1ph fault Nrwk	Trip Nrwk-Plum	23	50%	50%	50%	PL-LM	3.5 CY	349.8	NRWK PHB
1ph fault Nrwk	Trip Nrwk-Plum	24	50%	50%	50%	LM-PV	3.5 CY	341.5	NRWK PHB
1ph fault Nrwk	Trip Nrwk-Plum	25	50%	50%	50%	NH-LI	3.5 CY	365.4	PLUM PHA
1ph fault Nrwk	Trip Nrwk-Plum	26	70%	70%	70%	ALL IN	3.5 CY	623.4	PLUM PHB
1ph fault Nrwk	Trip Nrwk-Plum	27	70%	70%	70%	ED-BS	3.5 CY	621.3	PLUM PHB
1ph fault Nrwk	Trip Nrwk-Plum	28	70%	70%	70%	PL-LM	3.5 CY	555.4	NRWK PHB
1ph fault Nrwk	Trip Nrwk-Plum	29	70%	70%	70%	LM-PV	3.5 CY	611.5	PLUM PHB
1ph fault Nrwk	Trip Nrwk-Plum	30	70%	70%	70%	NH-LI	3.5 CY	616.0	PLUM PHB
3ph fault Sngr	Trip Sngr-Edvn	1	40%	40%	40%	ALL IN	4.0 CY	431.6	EDVN PHB
3ph fault Sngr	Trip Sngr-Edvn	2	40%	40%	40%	ED-BS	4.0 CY	426.4	EDVN PHB
3ph fault Sngr	Trip Sngr-Edvn	3	40%	40%	40%	PL-LM	4.0 CY	405.9	EDVN PHC
3ph fault Sngr	Trip Sngr-Edvn	4	40%	40%	40%	LM-PV	4.0 CY	406.7	EDVN PHC
3ph fault Sngr	Trip Sngr-Edvn	5	40%	40%	40%	NH-LI	4.0 CY	405.8	EDVN PHB
3ph fault Sngr	Trip Sngr-Edvn	6	50%	50%	50%	ALL IN	4.0 CY	422.5	EDVN PHB
3ph fault Sngr	Trip Sngr-Edvn	7	50%	50%	50%	ED-BS	4.0 CY	417.9	SNGR PHB
3ph fault Sngr	Trip Sngr-Edvn	8	50%	50%	50%	PL-LM	4.0 CY	402.3	EDVN PHC
3ph fault Sngr	Trip Sngr-Edvn	9	50%	50%	50%	LM-PV	4.0 CY	399.5	EDVN PHC
3ph fault Sngr	Trip Sngr-Edvn	10	50%	50%	50%	NH-LI	4.0 CY	396.0	EDVN PHB
3ph fault Sngr	Trip Sngr-Edvn	11	70%	70%	70%	ALL IN	4.0 CY	406.5	EDVN PHB
3ph fault Sngr	Trip Sngr-Edvn	12	70%	70%	70%	ED-BS	4.0 CY	396.1	EDVN PHB
3ph fault Sngr	Trip Sngr-Edvn	13	70%	70%	70%	PL-LM	4.0 CY	372.7	EDVN PHB
3ph fault Sngr	Trip Sngr-Edvn	14	70%	70%	70%	LM-PV	4.0 CY	372.8	EDVN PHA
3ph fault Sngr	Trip Sngr-Edvn	15	70%	70%	70%	NH-LI	4.0 CY	374.7	EDVN PHB
3ph fault Sngr	Trip Sngr-Edvn	16	40%	40%	40%	ALL IN	3.5 CY	430.5	EDVN PHA
3ph fault Sngr	Trip Sngr-Edvn	17	40%	40%	40%	ED-BS	3.5 CY	435.9	SNGR PHA
3ph fault Sngr	Trip Sngr-Edvn	18	40%	40%	40%	PL-LM	3.5 CY	420.1	EDVN PHA
3ph fault Sngr	Trip Sngr-Edvn	19	40%	40%	40%	LM-PV	3.5 CY	398.3	EDVN PHA
3ph fault Sngr	Trip Sngr-Edvn	20	40%	40%	40%	NH-LI	3.5 CY	412.2	EDVN PHA
3ph fault Sngr	Trip Sngr-Edvn	21	50%	50%	50%	ALL IN	3.5 CY	411.3	EDVN PHA
3ph fault Sngr	Trip Sngr-Edvn	22	50%	50%	50%	ED-BS	3.5 CY	396.6	SNGR PHA
3ph fault Sngr	Trip Sngr-Edvn	23	50%	50%	50%	PL-LM	3.5 CY	386.9	EDVN PHA
3ph fault Sngr	Trip Sngr-Edvn	24	50%	50%	50%	LM-PV	3.5 CY	367.6	EDVN PHC
3ph fault Sngr	Trip Sngr-Edvn	25	50%	50%	50%	NH-LI	3.5 CY	374.8	EDVN PHA
3ph fault Sngr	Trip Sngr-Edvn	26	70%	70%	70%	ALL IN	3.5 CY	393.4	SNGR PHC
3ph fault Sngr	Trip Sngr-Edvn	27	70%	70%	70%	ED-BS	3.5 CY	401.4	EDVN PHB
3ph fault Sngr	Trip Sngr-Edvn	28	70%	70%	70%	PL-LM	3.5 CY	379.1	SNGR PHB
3ph fault Sngr	Trip Sngr-Edvn	29	70%	70%	70%	LM-PV	3.5 CY	368.8	SNGR PHB
3ph fault Sngr	Trip Sngr-Edvn	30	70%	70%	70%	NH-LI	3.5 CY	370.1	EDVN PHB
2ph fault Sngr	Trip Sngr-Edvn	1	40%	40%	40%	ALL IN	4.0 CY	486.3	SNGR PHB
2ph fault Sngr	Trip Sngr-Edvn	2	40%	40%	40%	ED-BS	4.0 CY	577.2	SNGR PHB
2ph fault Sngr	Trip Sngr-Edvn	3	40%	40%	40%	PL-LM	4.0 CY	595.1	SNGR PHB
2ph fault Sngr	Trip Sngr-Edvn	4	40%	40%	40%	LM-PV	4.0 CY	560.5	SNGR PHB
2ph fault Sngr	Trip Sngr-Edvn	5	40%	40%	40%	NH-LI	4.0 CY	506.0	SNGR PHB
2ph fault Sngr	Trip Sngr-Edvn	6	50%	50%	50%	ALL IN	4.0 CY	402.1	SNGR PHC

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

DATE: 12/15/2004
 Rev. 1 (added Sngr-Nrwk)

DONE BY: E. R. PRATICO, GE ENERGY

SWITCHING EVENT		SYSTEM CONDITIONS						MAXIMUM BREAKER TRV	
TYPE	LOCATION	SIM. CASE	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	FAULT CLEAR	TRV	LOCATION
2ph fault Sngr	Trip Sngr-Edvn	7	50%	50%	50%	ED-BS	4.0 CY	381.5	SNGR PHC
2ph fault Sngr	Trip Sngr-Edvn	8	50%	50%	50%	PL-LM	4.0 CY	365.6	SNGR PHC
2ph fault Sngr	Trip Sngr-Edvn	9	50%	50%	50%	LM-PV	4.0 CY	363.0	SNGR PHA
2ph fault Sngr	Trip Sngr-Edvn	10	50%	50%	50%	NH-LI	4.0 CY	360.2	SNGR PHA
2ph fault Sngr	Trip Sngr-Edvn	11	70%	70%	70%	ALL IN	4.0 CY	368.6	SNGR PHC
2ph fault Sngr	Trip Sngr-Edvn	12	70%	70%	70%	ED-BS	4.0 CY	356.4	EDVN PHC
2ph fault Sngr	Trip Sngr-Edvn	13	70%	70%	70%	PL-LM	4.0 CY	356.3	EDVN PHC
2ph fault Sngr	Trip Sngr-Edvn	14	70%	70%	70%	LM-PV	4.0 CY	362.3	EDVN PHA
2ph fault Sngr	Trip Sngr-Edvn	15	70%	70%	70%	NH-LI	4.0 CY	333.3	EDVN PHA
2ph fault Sngr	Trip Sngr-Edvn	16	40%	40%	40%	ALL IN	3.5 CY	533.4	SNGR PHB
2ph fault Sngr	Trip Sngr-Edvn	17	40%	40%	40%	ED-BS	3.5 CY	597.4	SNGR PHB
2ph fault Sngr	Trip Sngr-Edvn	18	40%	40%	40%	PL-LM	3.5 CY	613.1	SNGR PHB
2ph fault Sngr	Trip Sngr-Edvn	19	40%	40%	40%	LM-PV	3.5 CY	692.4	SNGR PHB
2ph fault Sngr	Trip Sngr-Edvn	20	40%	40%	40%	NH-LI	3.5 CY	542.1	SNGR PHB
2ph fault Sngr	Trip Sngr-Edvn	21	50%	50%	50%	ALL IN	3.5 CY	396.1	EDVN PHA
2ph fault Sngr	Trip Sngr-Edvn	22	50%	50%	50%	ED-BS	3.5 CY	404.8	EDVN PHA
2ph fault Sngr	Trip Sngr-Edvn	23	50%	50%	50%	PL-LM	3.5 CY	400.4	SNGR PHA
2ph fault Sngr	Trip Sngr-Edvn	24	50%	50%	50%	LM-PV	3.5 CY	395.0	SNGR PHA
2ph fault Sngr	Trip Sngr-Edvn	25	50%	50%	50%	NH-LI	3.5 CY	369.8	SNGR PHA
2ph fault Sngr	Trip Sngr-Edvn	26	70%	70%	70%	ALL IN	3.5 CY	372.6	EDVN PHA
2ph fault Sngr	Trip Sngr-Edvn	27	70%	70%	70%	ED-BS	3.5 CY	363.8	EDVN PHC
2ph fault Sngr	Trip Sngr-Edvn	28	70%	70%	70%	PL-LM	3.5 CY	348.4	EDVN PHC
2ph fault Sngr	Trip Sngr-Edvn	29	70%	70%	70%	LM-PV	3.5 CY	343.7	EDVN PHA
2ph fault Sngr	Trip Sngr-Edvn	30	70%	70%	70%	NH-LI	3.5 CY	351.9	EDVN PHA
1ph fault Sngr	Trip Sngr-Edvn	1	40%	40%	40%	ALL IN	4.0 CY	628.5	EDVN PHB
1ph fault Sngr	Trip Sngr-Edvn	2	40%	40%	40%	ED-BS	4.0 CY	589.5	SNGR PHC
1ph fault Sngr	Trip Sngr-Edvn	3	40%	40%	40%	PL-LM	4.0 CY	543.8	SNGR PHB
1ph fault Sngr	Trip Sngr-Edvn	4	40%	40%	40%	LM-PV	4.0 CY	543.2	SNGR PHC
1ph fault Sngr	Trip Sngr-Edvn	5	40%	40%	40%	NH-LI	4.0 CY	623.2	SNGR PHC
1ph fault Sngr	Trip Sngr-Edvn	6	50%	50%	50%	ALL IN	4.0 CY	363.9	SNGR PHA
1ph fault Sngr	Trip Sngr-Edvn	7	50%	50%	50%	ED-BS	4.0 CY	385.0	EDVN PHA
1ph fault Sngr	Trip Sngr-Edvn	8	50%	50%	50%	PL-LM	4.0 CY	371.1	SNGR PHA
1ph fault Sngr	Trip Sngr-Edvn	9	50%	50%	50%	LM-PV	4.0 CY	354.2	SNGR PHA
1ph fault Sngr	Trip Sngr-Edvn	10	50%	50%	50%	NH-LI	4.0 CY	336.3	SNGR PHA
1ph fault Sngr	Trip Sngr-Edvn	11	70%	70%	70%	ALL IN	4.0 CY	323.5	EDVN PHA
1ph fault Sngr	Trip Sngr-Edvn	12	70%	70%	70%	ED-BS	4.0 CY	328.2	EDVN PHA
1ph fault Sngr	Trip Sngr-Edvn	13	70%	70%	70%	PL-LM	4.0 CY	321.4	EDVN PHA
1ph fault Sngr	Trip Sngr-Edvn	14	70%	70%	70%	LM-PV	4.0 CY	333.8	SNGR PHA
1ph fault Sngr	Trip Sngr-Edvn	15	70%	70%	70%	NH-LI	4.0 CY	321.1	EDVN PHA
1ph fault Sngr	Trip Sngr-Edvn	16	40%	40%	40%	ALL IN	3.5 CY	634.0	EDVN PHB
1ph fault Sngr	Trip Sngr-Edvn	17	40%	40%	40%	ED-BS	3.5 CY	548.8	SNGR PHC
1ph fault Sngr	Trip Sngr-Edvn	18	40%	40%	40%	PL-LM	3.5 CY	549.6	SNGR PHC
1ph fault Sngr	Trip Sngr-Edvn	19	40%	40%	40%	LM-PV	3.5 CY	559.6	SNGR PHC
1ph fault Sngr	Trip Sngr-Edvn	20	40%	40%	40%	NH-LI	3.5 CY	632.0	SNGR PHC
1ph fault Sngr	Trip Sngr-Edvn	21	50%	50%	50%	ALL IN	3.5 CY	379.1	SNGR PHA

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

DATE: 12/15/2004
 Rev. 1 (added Sngr-Nrwk)

DONE BY: E. R. PRATICO, GE ENERGY

SWITCHING EVENT		SYSTEM CONDITIONS						MAXIMUM BREAKER TRV	
TYPE	LOCATION	SIM. CASE	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	FAULT CLEAR	TRV	LOCATION
1ph fault Sngr	Trip Sngr-Edvn	22	50%	50%	50%	ED-BS	3.5 CY	392.2	EDVN PHA
1ph fault Sngr	Trip Sngr-Edvn	23	50%	50%	50%	PL-LM	3.5 CY	374.0	SNGR PHA
1ph fault Sngr	Trip Sngr-Edvn	24	50%	50%	50%	LM-PV	3.5 CY	360.8	SNGR PHA
1ph fault Sngr	Trip Sngr-Edvn	25	50%	50%	50%	NH-LI	3.5 CY	348.2	SNGR PHA
1ph fault Sngr	Trip Sngr-Edvn	26	70%	70%	70%	ALL IN	3.5 CY	328.6	EDVN PHA
1ph fault Sngr	Trip Sngr-Edvn	27	70%	70%	70%	ED-BS	3.5 CY	336.2	SNGR PHA
1ph fault Sngr	Trip Sngr-Edvn	28	70%	70%	70%	PL-LM	3.5 CY	320.5	EDVN PHA
1ph fault Sngr	Trip Sngr-Edvn	29	70%	70%	70%	LM-PV	3.5 CY	332.1	EDVN PHA
1ph fault Sngr	Trip Sngr-Edvn	30	70%	70%	70%	NH-LI	3.5 CY	318.2	EDVN PHA
3ph fault Sngr	Trip Sngr-Nrwk	1	40%	40%	40%	ALL IN	4.0 CY	423.0	NRWK PHB
3ph fault Sngr	Trip Sngr-Nrwk	2	40%	40%	40%	ED-BS	4.0 CY	421.5	NRWK PHB
3ph fault Sngr	Trip Sngr-Nrwk	3	40%	40%	40%	PL-LM	4.0 CY	407.5	SNGR PHB
3ph fault Sngr	Trip Sngr-Nrwk	4	40%	40%	40%	LM-PV	4.0 CY	402.4	NRWK PHC
3ph fault Sngr	Trip Sngr-Nrwk	5	40%	40%	40%	NH-LI	4.0 CY	395.8	NRWK PHB
3ph fault Sngr	Trip Sngr-Nrwk	6	50%	50%	50%	ALL IN	4.0 CY	416.0	NRWK PHB
3ph fault Sngr	Trip Sngr-Nrwk	7	50%	50%	50%	ED-BS	4.0 CY	416.0	NRWK PHB
3ph fault Sngr	Trip Sngr-Nrwk	8	50%	50%	50%	PL-LM	4.0 CY	395.6	SNGR PHB
3ph fault Sngr	Trip Sngr-Nrwk	9	50%	50%	50%	LM-PV	4.0 CY	387.5	NRWK PHC
3ph fault Sngr	Trip Sngr-Nrwk	10	50%	50%	50%	NH-LI	4.0 CY	386.7	NRWK PHB
3ph fault Sngr	Trip Sngr-Nrwk	11	70%	70%	70%	ALL IN	4.0 CY	407.6	NRWK PHB
3ph fault Sngr	Trip Sngr-Nrwk	12	70%	70%	70%	ED-BS	4.0 CY	396.0	NRWK PHB
3ph fault Sngr	Trip Sngr-Nrwk	13	70%	70%	70%	PL-LM	4.0 CY	367.1	SNGR PHB
3ph fault Sngr	Trip Sngr-Nrwk	14	70%	70%	70%	LM-PV	4.0 CY	368.3	NRWK PHA
3ph fault Sngr	Trip Sngr-Nrwk	15	70%	70%	70%	NH-LI	4.0 CY	371.2	NRWK PHB
3ph fault Sngr	Trip Sngr-Nrwk	16	40%	40%	40%	ALL IN	3.5 CY	402.3	SNGR PHA
3ph fault Sngr	Trip Sngr-Nrwk	17	40%	40%	40%	ED-BS	3.5 CY	431.9	NRWK PHA
3ph fault Sngr	Trip Sngr-Nrwk	18	40%	40%	40%	PL-LM	3.5 CY	413.2	NRWK PHA
3ph fault Sngr	Trip Sngr-Nrwk	19	40%	40%	40%	LM-PV	3.5 CY	391.4	NRWK PHA
3ph fault Sngr	Trip Sngr-Nrwk	20	40%	40%	40%	NH-LI	3.5 CY	387.4	NRWK PHA
3ph fault Sngr	Trip Sngr-Nrwk	21	50%	50%	50%	ALL IN	3.5 CY	389.2	NRWK PHA
3ph fault Sngr	Trip Sngr-Nrwk	22	50%	50%	50%	ED-BS	3.5 CY	399.2	NRWK PHA
3ph fault Sngr	Trip Sngr-Nrwk	23	50%	50%	50%	PL-LM	3.5 CY	385.0	NRWK PHA
3ph fault Sngr	Trip Sngr-Nrwk	24	50%	50%	50%	LM-PV	3.5 CY	353.3	NRWK PHA
3ph fault Sngr	Trip Sngr-Nrwk	25	50%	50%	50%	NH-LI	3.5 CY	364.8	NRWK PHA
3ph fault Sngr	Trip Sngr-Nrwk	26	70%	70%	70%	ALL IN	3.5 CY	387.2	NRWK PHB
3ph fault Sngr	Trip Sngr-Nrwk	27	70%	70%	70%	ED-BS	3.5 CY	386.0	SNGR PHB
3ph fault Sngr	Trip Sngr-Nrwk	28	70%	70%	70%	PL-LM	3.5 CY	371.0	NRWK PHB
3ph fault Sngr	Trip Sngr-Nrwk	29	70%	70%	70%	LM-PV	3.5 CY	374.9	NRWK PHB
3ph fault Sngr	Trip Sngr-Nrwk	30	70%	70%	70%	NH-LI	3.5 CY	374.9	NRWK PHB
2ph fault Sngr	Trip Sngr-Nrwk	1	40%	40%	40%	ALL IN	4.0 CY	656.6	NRWK PHB
2ph fault Sngr	Trip Sngr-Nrwk	2	40%	40%	40%	ED-BS	4.0 CY	704.3	SNGR PHB
2ph fault Sngr	Trip Sngr-Nrwk	3	40%	40%	40%	PL-LM	4.0 CY	691.5	NRWK PHB
2ph fault Sngr	Trip Sngr-Nrwk	4	40%	40%	40%	LM-PV	4.0 CY	668.7	NRWK PHB
2ph fault Sngr	Trip Sngr-Nrwk	5	40%	40%	40%	NH-LI	4.0 CY	647.5	NRWK PHB
2ph fault Sngr	Trip Sngr-Nrwk	6	50%	50%	50%	ALL IN	4.0 CY	657.4	NRWK PHB

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

DATE: 12/15/2004
Rev. 1 (added Sngr-Nrwk)

DONE BY: E. R. PRATICO, GE ENERGY

SWITCHING EVENT		SYSTEM CONDITIONS						MAXIMUM BREAKER TRV	
TYPE	LOCATION	SIM. CASE	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	FAULT CLEAR	TRV	LOCATION
2ph fault Sngr	Trip Sngr-Nrwk	7	50%	50%	50%	ED-BS	4.0 CY	700.1	NRWK PHB
2ph fault Sngr	Trip Sngr-Nrwk	8	50%	50%	50%	PL-LM	4.0 CY	676.3	NRWK PHB
2ph fault Sngr	Trip Sngr-Nrwk	9	50%	50%	50%	LM-PV	4.0 CY	657.6	SNGR PHB
2ph fault Sngr	Trip Sngr-Nrwk	10	50%	50%	50%	NH-LI	4.0 CY	530.7	SNGR PHB
2ph fault Sngr	Trip Sngr-Nrwk	11	70%	70%	70%	ALL IN	4.0 CY	365.9	NRWK PHC
2ph fault Sngr	Trip Sngr-Nrwk	12	70%	70%	70%	ED-BS	4.0 CY	362.4	NRWK PHC
2ph fault Sngr	Trip Sngr-Nrwk	13	70%	70%	70%	PL-LM	4.0 CY	337.6	NRWK PHC
2ph fault Sngr	Trip Sngr-Nrwk	14	70%	70%	70%	LM-PV	4.0 CY	345.9	NRWK PHA
2ph fault Sngr	Trip Sngr-Nrwk	15	70%	70%	70%	NH-LI	4.0 CY	326.2	NRWK PHA
2ph fault Sngr	Trip Sngr-Nrwk	16	40%	40%	40%	ALL IN	3.5 CY	515.9	SNGR PHB
2ph fault Sngr	Trip Sngr-Nrwk	17	40%	40%	40%	ED-BS	3.5 CY	658.5	SNGR PHB
2ph fault Sngr	Trip Sngr-Nrwk	18	40%	40%	40%	PL-LM	3.5 CY	663.7	NRWK PHB
2ph fault Sngr	Trip Sngr-Nrwk	19	40%	40%	40%	LM-PV	3.5 CY	632.8	NRWK PHB
2ph fault Sngr	Trip Sngr-Nrwk	20	40%	40%	40%	NH-LI	3.5 CY	479.6	NRWK PHB
2ph fault Sngr	Trip Sngr-Nrwk	21	50%	50%	50%	ALL IN	3.5 CY	535.3	NRWK PHB
2ph fault Sngr	Trip Sngr-Nrwk	22	50%	50%	50%	ED-BS	3.5 CY	661.8	NRWK PHB
2ph fault Sngr	Trip Sngr-Nrwk	23	50%	50%	50%	PL-LM	3.5 CY	670.5	NRWK PHB
2ph fault Sngr	Trip Sngr-Nrwk	24	50%	50%	50%	LM-PV	3.5 CY	523.6	NRWK PHB
2ph fault Sngr	Trip Sngr-Nrwk	25	50%	50%	50%	NH-LI	3.5 CY	511.9	NRWK PHB
2ph fault Sngr	Trip Sngr-Nrwk	26	70%	70%	70%	ALL IN	3.5 CY	373.7	NRWK PHA
2ph fault Sngr	Trip Sngr-Nrwk	27	70%	70%	70%	ED-BS	3.5 CY	354.4	NRWK PHC
2ph fault Sngr	Trip Sngr-Nrwk	28	70%	70%	70%	PL-LM	3.5 CY	349.1	NRWK PHA
2ph fault Sngr	Trip Sngr-Nrwk	29	70%	70%	70%	LM-PV	3.5 CY	337.5	NRWK PHA
2ph fault Sngr	Trip Sngr-Nrwk	30	70%	70%	70%	NH-LI	3.5 CY	337.2	NRWK PHA
1ph fault Sngr	Trip Sngr-Nrwk	1	40%	40%	40%	ALL IN	4.0 CY	582.7	NRWK PHC
1ph fault Sngr	Trip Sngr-Nrwk	2	40%	40%	40%	ED-BS	4.0 CY	607.9	SNGR PHC
1ph fault Sngr	Trip Sngr-Nrwk	3	40%	40%	40%	PL-LM	4.0 CY	577.5	NRWK PHC
1ph fault Sngr	Trip Sngr-Nrwk	4	40%	40%	40%	LM-PV	4.0 CY	613.7	NRWK PHC
1ph fault Sngr	Trip Sngr-Nrwk	5	40%	40%	40%	NH-LI	4.0 CY	577.2	NRWK PHC
1ph fault Sngr	Trip Sngr-Nrwk	6	50%	50%	50%	ALL IN	4.0 CY	592.2	NRWK PHB
1ph fault Sngr	Trip Sngr-Nrwk	7	50%	50%	50%	ED-BS	4.0 CY	611.4	NRWK PHB
1ph fault Sngr	Trip Sngr-Nrwk	8	50%	50%	50%	PL-LM	4.0 CY	597.1	NRWK PHC
1ph fault Sngr	Trip Sngr-Nrwk	9	50%	50%	50%	LM-PV	4.0 CY	666.4	NRWK PHC
1ph fault Sngr	Trip Sngr-Nrwk	10	50%	50%	50%	NH-LI	4.0 CY	598.3	SNGR PHC
1ph fault Sngr	Trip Sngr-Nrwk	11	70%	70%	70%	ALL IN	4.0 CY	329.0	NRWK PHA
1ph fault Sngr	Trip Sngr-Nrwk	12	70%	70%	70%	ED-BS	4.0 CY	323.1	NRWK PHA
1ph fault Sngr	Trip Sngr-Nrwk	13	70%	70%	70%	PL-LM	4.0 CY	308.3	NRWK PHA
1ph fault Sngr	Trip Sngr-Nrwk	14	70%	70%	70%	LM-PV	4.0 CY	327.5	SNGR PHA
1ph fault Sngr	Trip Sngr-Nrwk	15	70%	70%	70%	NH-LI	4.0 CY	311.3	NRWK PHA
1ph fault Sngr	Trip Sngr-Nrwk	16	40%	40%	40%	ALL IN	3.5 CY	575.8	SNGR PHC
1ph fault Sngr	Trip Sngr-Nrwk	17	40%	40%	40%	ED-BS	3.5 CY	613.2	SNGR PHC
1ph fault Sngr	Trip Sngr-Nrwk	18	40%	40%	40%	PL-LM	3.5 CY	684.3	SNGR PHC
1ph fault Sngr	Trip Sngr-Nrwk	19	40%	40%	40%	LM-PV	3.5 CY	659.8	NRWK PHC
1ph fault Sngr	Trip Sngr-Nrwk	20	40%	40%	40%	NH-LI	3.5 CY	617.3	NRWK PHB
1ph fault Sngr	Trip Sngr-Nrwk	21	50%	50%	50%	ALL IN	3.5 CY	604.8	SNGR PHC

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

DATE: 12/15/2004
Rev. 1 (added Sngr-Nrwk)

DONE BY: E. R. PRATICO, GE ENERGY

SWITCHING EVENT		SYSTEM CONDITIONS						MAXIMUM BREAKER TRV	
TYPE	LOCATION	SIM. CASE	LOAD LEVEL	CAPS	SHUNT REACS	LINE OUT	FAULT CLEAR	TRV	LOCATION
1ph fault Sngr	Trip Sngr-Nrwk	22	50%	50%	50%	ED-BS	3.5 CY	608.2	NRWK PHC
1ph fault Sngr	Trip Sngr-Nrwk	23	50%	50%	50%	PL-LM	3.5 CY	703.0	NRWK PHC
1ph fault Sngr	Trip Sngr-Nrwk	24	50%	50%	50%	LM-PV	3.5 CY	680.4	NRWK PHC
1ph fault Sngr	Trip Sngr-Nrwk	25	50%	50%	50%	NH-LI	3.5 CY	660.2	NRWK PHC
1ph fault Sngr	Trip Sngr-Nrwk	26	70%	70%	70%	ALL IN	3.5 CY	333.7	NRWK PHA
1ph fault Sngr	Trip Sngr-Nrwk	27	70%	70%	70%	ED-BS	3.5 CY	336.6	NRWK PHA
1ph fault Sngr	Trip Sngr-Nrwk	28	70%	70%	70%	PL-LM	3.5 CY	318.0	NRWK PHA
1ph fault Sngr	Trip Sngr-Nrwk	29	70%	70%	70%	LM-PV	3.5 CY	325.5	NRWK PHA
1ph fault Sngr	Trip Sngr-Nrwk	30	70%	70%	70%	NH-LI	3.5 CY	317.6	NRWK PHA