

Item1 IRM10_D28_FNE_R00_09.txt

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PROGRAM

MULTI -AREA RELI ABILITY SIMULATION

VERSION 2.98

OUTPUT SECTION 9

COMPANY

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ENGINEERING

ENERGY APPLICATIONS & SYSTEMS

GE ENERGY

Version 2.98

Run Date: 03172010

MULTI -AREA RELI ABILITY SIMULATION

COMPANY

Job Number: 171208

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Output Section 9

Page 1

PROGRAM OPTION SUMMARY FOR 2010

CONVERGENCE INDEX -- INTERCONNECTED DAILY LOLE FOR POOL _NYCA_

CONVERGENCE TOLERANCE -- 0.0500 PER UNIT

MARGIN STATE FOR CALCULATING CONVERGENCE -- 10

HOUR OF DAILY PEAK LOAD BASED ON LOADS FOR EACH AREA

FIRST 0 NUMBER OF REPLICATIONS -- MINIMUM 1500 MAXIMUM 1500

RANDOM NUMBER GENERATOR SEED -- 73951247

ITERATIONS -- 15) NON-FIRM ASSISTANCE BASED ON RESERVE SHARING (ADDITIONAL

ASSISTANCE PRIORITY TO AREAS WITHIN A POOL -- YES

ALLOW FLOW THROUGH OUTSIDE POOLS IN POOL-PRIORITY PASS -- NO

PRIORITY ORDER FOR ALLOCATING ASSISTANCE AMONG AREAS

		AREA_A	AREA_B	AREA_C	AREA_D	AREA_E
AREA_F	AREA_F1	AREA_G				
		AREA_H	AREA_I	AREA_J	AREA_J1	AREA_J2
AREA_J3	AREA_K	AREA_K1				
		AREA_K2	HYDQUE	CEDARS	PJM_CENT	PJM_EAST
PJM_WEST	PJM_REC0	BHE				
		ME	S-ME	NH	VT	BOSTON
CMA-NEMA	W-MA	SEMA				
		RI	CT	SWCT	NOR	ONTARIO

NUMBER OF RESERVE SHARING ARRANGEMENTS BETWEEN POOLS -- 11

MODELING FORCED OUTAGES ON INTERFACE TIES -- YES

-- NO ZERO SPECIFIED TIE LIMITS BEFORE SCHEDULING NON-FIRM ASSISTANCE

TYPE 2 ENERGY-LIMITED UNITS DISPATCHED DETERMINISTICALLY

UNIT FORCED OUTAGE RATES SPECIFIED THROUGH STATE TRANSITION RATES

UNIT MAINTENANCE SCHEDULED BY POOL AGAINST ORIGINAL LOAD MODEL

NUMBER OF CONDITION SETS FOR DYNAMIC TRANSFER LIMITS -- 17

NUMBER OF CLOSED INTERFACE GROUPS -- 5

NUMBER OF UNITS WITH DERATION OPTION -- 231

LAST EOP FOR WHICH TIE LIMITS ARE ZEROED FOR THE INITIAL NON-FIRM

AND EOP CALCULATIONS -- 9

MONTHS SIMULATED -- JAN THROUGH DEC
MULTI-AREA RELIABILITY SIMULATION

Version 2.98

Run Date: 03172010

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COMPANY

Job Number: 171208

D28 is IRM Base Case with revised load forecast (12-18-09)

Output Section 9

Page 2

INTERFACE RATING DATA FOR 2010

*** TIES ZEROED FOR ***

NEGATIVE INTERFACE OR DIRECTION (MW)	NON-FIRM INTERFACE GROUP ASSISTANCE	INITIAL FROM AREA EOPS	TO AREA	POSITIVE DIRECTION (MW)
DYSINGER EAST 1999.00	N	N	AREA_A AREA_B	2200.00
WEST CENTRAL 1300.00	N	N	AREA_B AREA_C	1770.00
VOLNEY EAST 1999.00	N	N	AREA_C AREA_E	4270.00
MOSES SOUTH 1600.00	N	N	AREA_D AREA_E	2600.00
CENTRAL EAST 1999.00	N	N	AREA_E AREA_F	3150.00
MARCY SOUTH 1600.00	N	N	AREA_E AREA_G	1700.00
AREA F TO AREA G 1999.00	N	N	AREA_F AREA_G	3450.00
UPNY - CONED 1999.00	N	N	AREA_G AREA_H	5000.00
MILLWOOD SOUTH 1999.00	N	N	AREA_H AREA_I	8450.00
DUNWOODIE SOUTH 1999.00	N	N	AREA_I AREA_J	4000.00
CONED LILCO 508.00	N	N	AREA_J AREA_K	175.00
AREA I TO AREA K 530.00	N	N	AREA_I AREA_K	1290.00
ORRINGTON SOUTH 9999.00	N	N	BHE ME	1200.00
SUROWIEC SOUTH 9999.00	N	N	ME S-ME	1150.00
MAINE TO NH 9999.00	N	N	S-ME NH	1600.00
NH TO BOSTON 9999.00	N	N	NH BOSTON	9999.00
NH TO CMA-NEMA 9999.00	N	N	NH CMA-NEMA	9999.00
NH TO VT/SWNH 9999.00	N	N	NH VT	9999.00

Item1	IRM10_D28_FNE_ROO_09.txt			
VT TO W-MA 9999.00	N	N	VT	W-MA 9999.00
CMA-NEMA TO BOSTON 9999.00	N	N	CMA-NEMA	BOSTON 9999.00
RI TO BOSTON 9999.00	N	N	RI	BOSTON 9999.00
SEMA TO BOSTON 9999.00	N	N	SEMA	BOSTON 9999.00
SEMA TO RI 9999.00	N	N	SEMA	RI 9999.00
RI TO CMA-NEMA 9999.00	N	N	RI	CMA-NEMA 9999.00
RI TO CT 9999.00	N	N	RI	CT 9999.00
CMA-NEMA TO W-MA 9999.00	N	N	CMA-NEMA	W-MA 9999.00
W-MA TO CT 9999.00	N	N	W-MA	CT 9999.00
CT TO SWCT 9999.00	N	N	CT	SWCT 9999.00
SWCT TO NORWALK 9999.00	N	N	SWCT	NOR 9999.00
AREA-F - W-MA 771.40	N	Y	AREA_F	W-MA 479.50
AREA-G - CT 578.60	N	Y	AREA_G	CT 405.60
AREA-D - VT 0.00	N	Y	AREA_D	VT 133.60
AREA-K - NOR 286.00	N	Y	AREA_K	NOR 286.00
CROSS SOUND CABLE 330.00	N	Y	CT	AREA_K1 330.00
AREA-K1 TO WESTERN MA 0.00	N	Y	AREA_K1	W-MA 100.00
AREA-K1 TO AREA K 330.00	N	Y	AREA_K1	AREA_K 330.00
HQ TO VT - HIGHGATE 1.00	N	Y	HYDQUE	VT 1.00
HQ TO CMA-NEMA PHASE II 1.00	N	Y	HYDQUE	CMA-NEMA 1.00
AREA_A TO ONTARIO 1325.00	N	Y	AREA_A	ONTARIO 1550.00
AREA_D TO ONTARIO 400.00	N	Y	AREA_D	ONTARIO 400.00
AREA_D TO HQ 410.00	N	Y	AREA_D	HYDQUE 1000.00
AREA_D TO CEDARS 167.00	N	Y	AREA_D	CEDARS 1.00
AREA_A TO PJM WEST 166.80	N	Y	AREA_A	PJM_WEST 374.10
AREA_C TO PJM WEST 242.60	N	Y	AREA_C	PJM_WEST 200.00
AREA_C TO PJM CENTRAL 60.60	N	Y	AREA_C	PJM_CENT 300.00
AREA_G TO PJM EAST 500.00	N	Y	AREA_G	PJM_EAST 981.10
AREA_G TO PJM RECO 0.00	N	Y	AREA_G	PJM_RECO 500.00
AREA_J2 TO AREA_G 1000.00	N	Y	AREA_J2	AREA_G 0.00
AREA_J2 TO PJM EAST 400.00	N	Y	AREA_J2	PJM_EAST 1000.00
AREA_J2 TO AREA_J	N	Y	AREA_J2	AREA_J 1000.00

	Item1	IRM10_D28_FNE_ROO_09.txt	
0.00	N		
AREA_J3 TO AREA_J	Y	AREA_J3	AREA_J 800.00
500.00	N		
AREA_J3 TO PJM EAST	Y	AREA_J3	PJM_EAST 500.00
800.00	N		
ONTARIO - HYDRO QUEBEC	Y	ONTARIO	HYDQUE 900.00
900.00	N		
CENTRAL TO EAST	N	PJM_CENT	PJM_EAST 6500.00
6500.00	N		
WEST TO CENTRAL	N	PJM_WEST	PJM_CENT 4000.00
4000.00	N		
AREA_F1 TO AREA G	N	AREA_F1	AREA_G 99999.00
99999.00	N		
AREA_J1 TO AREA J	N	AREA_J1	AREA_J 1344.00
99999.00	N		
AREA_K2 TO PJME	Y	AREA_K2	PJM_EAST 1320.00
660.00	N		
AREA_K2 TO AREA K	N	AREA_K2	AREA_K 660.00
660.00	N		
TOTAL EAST GROUP			6000.00
1999.00			
UPSTATE TO DOWNSTATE			5250.00
1999.00			
CE AND MARCY GROUP			4550.00
3400.00			
NEW YORK IMPORTS			99999.00
99999.00			
NE to F + F to G			99999.00
99999.00			
PJM TO G+PJM TO J			1500.00
2000.00			
LONG ISLAND GROUP			1465.00
535.00			
LI GRP + NEPTUNE			99999.00
448.00			
NYC IMPORTS			99999.00
99999.00			
G TO J2 TO J			99999.00
99999.00			
DS plus Y49Y50			99999.00
99999.00			
NORTH TO SOUTH			2700.00
9999.00			
BOSTON IMPORT			3900.00
9999.00			
SEMA EXPORT			9999.00
9999.00			
SEMA-RI EXPORT			3000.00
9999.00			
EAST TO WEST			2800.00
9999.00			
CT IMPORT-EXPORT			2500.00
9999.00			
SWCT IMPORT			3200.00
9999.00			
NORWALK-STAMFORD IMPORT			1650.00
9999.00			
NEW YORK - NEW ENGLAND			1875.00
1400.00			
HYDRO QUEBEC IMPORTS			99999.00
99999.00			
NEW ENGLAND IMPORTS			1200.00

1525.00

Version 2.98

MULTI-AREA RELIABILITY SIMULATION
 Run Date: 03172010
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 Job Number: 171208

D28 is IRM Base Case with revised load forecast (12-18-09)
 Output Section 9

Page 3

AREA CAPACITIES AND LOADS FOR 2010

AREA	INSTALLED CAPACITY (MW)	PEAK ORIGINAL	LOAD (MW) MODIFIED
AREA_A	4976.12	2724.90	3218.96
AREA_B	760.84	2130.80	2135.09
AREA_C	6588.88	2949.60	3430.83
AREA_D	1181.64	577.10	740.93
AREA_E	363.77	1421.60	1431.58
AREA_F	2262.51	2271.30	2314.01
AREA_F1	1741.70	1.00	1.00
AREA_G	3002.00	2476.80	2505.70
AREA_H	2129.80	682.60	682.60
AREA_I	1.70	1563.20	1563.20
AREA_J	9011.50	11725.00	12314.94
AREA_J1	1872.60	0.10	0.10
AREA_J2	0.00	0.10	0.10
AREA_J3	300.00	0.10	0.10
AREA_K	6014.80	5368.00	6377.05
AREA_K1	100.00	0.10	0.10
AREA_K2	660.00	0.10	0.10
HYDQUE	38487.40	36880.00	36176.60
CEDARS	167.00	1.00	1.00
PJM_CENT	26736.00	24476.00	24476.00
PJM_EAST	34216.00	32921.00	32921.00
PJM_WEST	7110.00	2806.70	2806.70
PJM_RECO	0.00	441.00	441.00
BHE	1078.84	335.00	335.00
ME	1016.40	1169.00	1169.00
S-ME	1560.21	591.00	591.00
NH	4375.06	2052.00	2052.00
VT	1060.89	1291.00	1291.00
BOSTON	3866.07	5735.00	5735.00
CMA-NEMA	198.71	1857.00	1857.00
W-MA	3735.98	2099.00	2099.00
SEMA	3785.78	2974.00	2974.00
RI	5868.89	2584.00	2584.00
CT	4790.32	3600.00	3600.00
SWCT	2454.11	2425.00	2425.00
NOR	529.99	1375.00	1375.00
ONTARIO	26811.66	29213.00	22157.94

NOTE: The installed capacity on this summary includes only the thermal units (which include EL1 and cogeneration) that are in service at some time during the year. It is based on the unit ratings as of the first month of the year,

Item1 IRM10_D28_FNE_R00_09.txt
 and does not reflect subsequent monthly overrides to the
 unit ratings.

Version 2.98 Run Date: 03172010
 COMPANY Job Number: 171208
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 Output Section 9
 Page 4

CALCULATED INDICES FOR 2010

AREA OR POOL	INTERCONNECTED LOLE (days/yr)
AREA_A	0.000
AREA_B	0.033
AREA_C	0.000
AREA_D	0.000
AREA_E	0.010
AREA_F	0.000
AREA_F1	0.000
AREA_G	0.001
AREA_H	0.000
AREA_I	0.083
AREA_J	0.097
AREA_J1	0.000
AREA_J2	0.000
AREA_J3	0.000
AREA_K	0.023
AREA_K1	0.000
AREA_K2	0.000
HYDQUE	0.110
CEDARS	0.000
PJM_CENT	0.233
PJM_EAST	0.241
PJM_WEST	0.000
PJM_RECO	0.268
BHE	0.000
ME	0.016
S-ME	0.000
NH	0.000
VT	0.017
BOSTON	0.058
CMA-NEMA	0.022
W-MA	0.000
SEMA	0.014
RI	0.000
CT	0.008
SWCT	0.037
NOR	0.038
ONTARIO	0.106
NYCA	0.101
_PJM_MA_	0.306
ISONNE	0.061

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Item1  IRM10_D28_FNE_R00_09.txt
_IESO_      0.106
_HQ_        0.110

UPSTATE     0.034
REGION      0.475
GROUP_F     0.000
GROUP_J     0.097
GROUP_K     0.023

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NOTE: Daily LOLE is calculated for margin state 10.
All other indices are calculated for the zero margin state.
Isolated indices include firm contracts.
Only interconnected daily indices were calculated in this run.

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Version  2.98          Run Date:  03172010
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COMPANY          Job Number:  171208

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Output Section  9
Page           5

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STATES FOR 2010

EXPECTED NUMBER OF DAYS PER YEAR AT SPECIFIED MARGIN
ON AN INTERCONNECTED BASIS

7	AREA OR POOL 8	MARGIN STATE							
		9	10	1	2	3	4	5	6
	AREA_A	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000						
	AREA_B	15.924	6.383	6.283	5.746	5.413	3.758		
2.721	2.501	2.327	0.033						
	AREA_C	0.068	0.001	0.001	0.001	0.001	0.001		
0.000	0.000	0.000	0.000						
	AREA_D	0.000	0.000	0.000	0.000	0.000	0.000		
0.000	0.000	0.000	0.000						
	AREA_E	13.957	5.207	5.124	4.586	4.264	2.908		
2.021	1.918	1.793	0.010						
	AREA_F	15.952	4.787	4.756	3.550	3.421	3.108		
2.244	2.192	2.129	0.000						
	AREA_F1	0.000	0.000	0.000	0.000	0.000	0.000		
0.000	0.000	0.000	0.000						
	AREA_G	12.831	5.235	4.293	3.674	3.270	2.957		
2.052	1.068	1.066	0.001						
	AREA_H	0.011	0.008	0.008	0.008	0.008	0.007		
0.006	0.005	0.005	0.000						
	AREA_I	16.933	8.679	8.501	7.910	7.692	5.319		
3.816	3.647	3.376	0.083						
	AREA_J	17.727	9.430	9.216	8.597	8.421	6.354		
4.467	4.331	4.096	0.097						
	AREA_J1	0.000	0.000	0.000	0.000	0.000	0.000		
0.000	0.000	0.000	0.000						
	AREA_J2	365.000	365.000	365.000	365.000	365.000	365.000		
365.000	365.000	365.000	0.000						

		Item1 IRM10_D28_FNE_R00_09.txt							
32.791	AREA_J3	32.791	32.791	32.791	32.791	32.791	32.791	32.791	32.791
0.696	AREA_K	16.690	0.000	8.354	8.140	7.104	6.866	0.897	
37.427	AREA_K1	37.427	37.427	37.427	37.427	37.427	37.427	37.427	37.427
0.003	AREA_K2	0.003	0.000	0.003	0.003	0.003	0.003	0.003	0.003
0.347	HYDQUE	0.347	0.110	0.347	0.347	0.347	0.347	0.347	0.347
33.412	CEDARS	33.412	33.412	33.412	33.412	33.412	33.412	33.412	33.412
0.330	PJM_CENT	0.330	0.233	0.330	0.330	0.330	0.330	0.330	0.330
0.338	PJM_EAST	0.338	0.241	0.338	0.338	0.338	0.338	0.338	0.338
0.000	PJM_WEST	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
365.000	PJM_REC0	365.000	0.268	365.000	365.000	365.000	365.000	365.000	365.000
0.000	BHE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.094	ME	0.094	0.016	0.094	0.094	0.094	0.094	0.094	0.094
0.000	S-ME	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	NH	0.001	0.000	0.001	0.001	0.001	0.001	0.001	0.001
0.097	VT	0.097	0.017	0.097	0.097	0.097	0.097	0.097	0.097
0.174	BOSTON	0.174	0.058	0.174	0.174	0.174	0.174	0.174	0.174
0.142	CMA-NEMA	0.142	0.022	0.142	0.142	0.142	0.142	0.142	0.142
0.000	W-MA	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.066	SEMA	0.066	0.014	0.066	0.066	0.066	0.066	0.066	0.066
0.000	RI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.034	CT	0.034	0.008	0.034	0.034	0.034	0.034	0.034	0.034
0.150	SWCT	0.150	0.037	0.150	0.150	0.150	0.150	0.150	0.150
0.155	NOR	0.155	0.038	0.155	0.155	0.155	0.155	0.155	0.155
1.327	ONTARIO	1.327	0.106	1.327	1.327	1.327	1.327	1.327	1.327
365.000	_NYCA_	365.000	0.101	365.000	365.000	365.000	365.000	365.000	365.000
365.000	_PJM_MA_	365.000	0.306	365.000	365.000	365.000	365.000	365.000	365.000
0.181	_ISON_	0.181	0.061	0.181	0.181	0.181	0.181	0.181	0.181
1.327	_IESO_	1.327	0.106	1.327	1.327	1.327	1.327	1.327	1.327
33.722	_HQ_	33.722	0.110	33.722	33.722	33.722	33.722	33.722	33.722
3.462	UPSTATE	17.404	7.844	7.431	6.697	6.294	4.775		
	REGI ON	2.845	0.034	365.000	365.000	365.000	365.000	365.000	365.000

Item1 IRM10_D28_FNE_R00_09.txt

365.000	365.000	365.000	0.475					
2.244	2.192	2.129	0.000	15.952	4.787	4.756	3.550	3.421
4.467	4.331	4.096	0.097	17.727	9.430	9.216	8.597	8.421
38.091	38.083	37.885	0.023	53.316	45.386	45.182	44.194	43.966
								38.282

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 Version 2.98 Run Date: 03172010
 COMPANY Job Number: 171208
 MULTI-AREA RELIABILITY SIMULATION
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D28 is IRM Base Case with revised load forecast (12-18-09)
 Output Section 9

Page 6

INTERFACE FLOWS FOR 2010

***** NEGATIVE DIRECTION *****			***** POSITIVE DIRECTION *****				
INTERFACE OR LIMIT	GROUP	AT LIMIT	HOURS LIMIT	MW MAXIMUM	AVERAGE	HOURS AT LIMIT	TOTAL
DYSINGER EAST			2200.0	2199.5	703.8	7.6	2235.9
1999.0	298.6	112.3	0.0	0.0			
WEST CENTRAL			1770.0	1564.6	576.2	0.0	110.2
1300.0	1286.5	181.3	0.1	17.7			
VOLNEY EAST			4270.0	4270.0	785.1	1.0	2162.5
1999.0	702.2	149.3	0.0	0.1			
MOSES SOUTH			2600.0	1726.2	298.2	0.0	2235.4
1600.0	1160.3	521.5	0.0	0.6			
CENTRAL EAST			3150.0	2850.8	582.6	0.0	851.3
1999.0	750.8	79.1	0.0	7.8			
MARCY SOUTH			1700.0	1700.0	387.0	145.1	2233.5
1600.0	535.1	61.5	0.0	2.5			
AREA F TO AREA G			3450.0	2645.1	597.4	0.0	280.6
1999.0	1411.5	216.2	0.0	775.9			
UPNY - CONED			5000.0	5000.0	1426.0	0.5	791.6
1999.0	1314.3	222.0	0.0	147.2			
MILLWOOD SOUTH			8450.0	6571.1	1611.1	0.0	2234.5
1999.0	0.0	0.0	0.0	0.0			
DUNWOODIE SOUTH			4000.0	4000.0	1435.5	22.9	1221.0
1999.0	873.7	120.9	0.0	20.0			
CONED LI LCO			175.0	175.0	93.4	3.8	16.1
508.0	508.0	326.0	495.8	1622.8			
AREA I TO AREA K			1290.0	1290.0	218.1	2.2	548.9
530.0	530.0	62.5	0.4	88.6			
ORRINGTON SOUTH			1200.0	657.8	143.6	0.0	1101.4
9999.0	78.8	24.9	0.0	0.0			
SUROWIEC SOUTH			1150.0	390.6	121.6	0.0	2.0
9999.0	484.2	121.0	0.0	5.6			
MAINE TO NH			1600.0	1289.0	413.7	0.0	6.4
9999.0	328.2	45.9	0.0	2.1			
NH TO BOSTON			9999.0	2639.9	614.9	0.0	1437.0
9999.0	195.1	66.0	0.0	0.0			

			Item1	IRM10_D28_FNE_ROO_09.txt			
NH TO CMA-NEMA			9999.0	2119.9	944.1	0.0	2235.9
9999.0	3.3	31.7	0.0	0.0			
NH TO VT/SWNH			9999.0	885.6	118.9	0.0	651.1
9999.0	147.4	83.9	0.0	0.4			
VT TO W-MA			9999.0	160.5	15.1	0.0	0.7
9999.0	1034.5	218.3	0.0	325.9			
CMA-NEMA TO BOSTON			9999.0	355.7	114.5	0.0	0.4
9999.0	764.5	187.4	0.0	6.0			
RI TO BOSTON			9999.0	2885.7	760.5	0.0	356.8
9999.0	64.2	112.9	0.0	0.0			
SEMA TO BOSTON			9999.0	1008.2	281.2	0.0	19.2
9999.0	655.9	71.9	0.0	1.9			
SEMA TO RI			9999.0	414.0	175.1	0.0	0.5
9999.0	1822.3	225.7	0.0	23.5			
RI TO CMA-NEMA			9999.0	1205.5	191.2	0.0	79.2
9999.0	67.9	1.2	0.0	7.1			
RI TO CT			9999.0	2540.7	345.5	0.0	72.6
9999.0	258.3	28.0	0.0	0.1			
CMA-NEMA TO W-MA			9999.0	522.3	19.7	0.0	2.7
9999.0	1566.5	322.4	0.0	15.0			
W-MA TO CT			9999.0	802.7	87.9	0.0	23.6
9999.0	80.1	29.5	0.0	0.0			
CT TO SWCT			9999.0	2453.8	445.1	0.0	696.9
9999.0	0.0	0.0	0.0	0.0			
SWCT TO NORWALK			9999.0	1333.3	350.9	0.0	2192.0
9999.0	48.8	43.7	0.0	0.0			
AREA-F - W-MA			479.5	454.9	182.0	0.1	2.3
771.4	771.4	317.0	1.0	6.2			
AREA-G - CT			405.6	351.7	13.7	0.0	3.4
578.6	575.3	103.2	0.7	13.1			
AREA-D - VT			133.6	130.2	57.7	2.4	7.8
0.0	0.0	0.0	0.0	0.0			
AREA-K - NOR			286.0	136.4	30.7	0.0	0.2
286.0	266.9	204.1	1.9	3.3			
CROSS SOUND CABLE			330.0	283.9	82.4	0.2	15.2
330.0	282.7	128.2	0.0	0.1			
AREA-K1 TO WESTERN MA			100.0	69.2	57.7	0.0	0.0
0.0	0.0	0.0	0.0	0.0			
AREA-K1 TO AREA K			330.0	314.8	100.5	3.8	2024.0
330.0	243.2	0.1	0.0	183.8			
HQ TO VT - HIGHGATE			1.0	1.0	1.0	20.2	20.2
1.0	0.9	1.0	0.4	0.4			
HQ TO CMA-NEMA PHASE II			1.0	1.0	1.0	19.7	19.7
1.0	0.9	1.0	0.4	0.4			
AREA_A TO ONTARIO			1550.0	1519.8	575.7	0.2	2.9
1325.0	1127.5	111.9	0.0	74.6			
AREA_D TO ONTARIO			400.0	400.0	267.2	2.8	6.1
400.0	400.0	261.8	56.4	2219.7			
AREA_D TO HQ			1000.0	956.1	647.3	0.3	0.8
410.0	410.0	279.5	12.3	29.9			
AREA_D TO CEDARS			1.0	1.0	1.0	204.3	204.4
167.0	166.0	130.8	0.0	10.3			
AREA_A TO PJM WEST			374.1	365.9	96.1	8.5	74.0
166.8	155.7	112.7	0.4	0.8			
AREA_C TO PJM WEST			200.0	186.6	152.0	2.0	3.9
242.6	177.7	109.7	0.5	1.9			
AREA_C TO PJM CENTRAL			300.0	300.0	213.1	18.2	36.6
60.6	41.9	45.4	0.2	0.4			
AREA_G TO PJM EAST			981.1	265.4	111.1	0.0	0.8
500.0	492.7	169.6	1.2	75.9			
AREA_G TO PJM RECO			500.0	440.2	264.8	0.0	2235.9
0.0	0.0	0.0	0.0	0.0			
AREA_J2 TO AREA_G			0.0	0.0	0.0	0.0	0.0

			Item1	IRM10_D28_FNE_ROO_09.txt				
1000.0	966.1	0.8	0.0	2234.6				
AREA_J2	TO PJM EAST		1000.0	52.8	131.0	0.0	0.2	
400.0	374.1	250.7	2.7	9.1				
AREA_J2	TO AREA_J		1000.0	966.1	336.8	0.6	11.4	
0.0	0.0	0.0	0.0	0.0				
AREA_J3	TO AREA_J		800.0	710.3	184.6	833.3	2039.6	
500.0	73.2	0.1	0.0	196.4				
AREA_J3	TO PJM EAST		500.0	265.5	96.5	0.0	1.6	
800.0	565.9	66.8	0.0	5.6				
ONTARIO	- HYDRO QUEBEC		900.0	900.0	203.5	0.7	10.2	
900.0	900.0	570.1	5.8	15.8				
CENTRAL	TO EAST		6500.0	3163.8	381.5	0.0	77.1	
6500.0	1366.6	345.8	0.0	1.5				
WEST	TO CENTRAL		4000.0	2135.1	273.0	0.7	75.6	
4000.0	235.9	91.2	0.0	0.2				
AREA_F1	TO AREA G		99999.0	1756.2	968.2	0.0	640.3	
99999.0	1.0	0.8	0.0	0.2				
AREA_J1	TO AREA J		1344.0	1344.0	1099.5	904.0	1837.0	
99999.0	0.0	0.0	0.0	0.0				
AREA_K2	TO PJME		1320.0	543.3	189.0	0.0	0.9	
660.0	276.4	21.5	0.0	10.4				
AREA_K2	TO AREA K		660.0	660.0	564.2	3.0	1829.5	
660.0	101.0	1.9	0.0	1.2				
TOTAL EAST GROUP			6000.0	5721.9	616.6	0.0	2233.2	
1999.0	1212.3	90.6	0.0	2.8				
UPSTATE	TO DOWNSTATE		5250.0	5252.5	899.9	34.0	1975.9	
1999.0	1181.0	172.1	0.0	260.1				
CE AND MARCY GROUP			4550.0	4549.9	609.0	0.2	2233.2	
3400.0	1217.1	92.1	0.0	2.8				
NEW YORK IMPORTS			99999.0	3129.1	436.2	0.0	2235.9	
99999.0	660.0	287.2	0.0	0.1				
NE to F + F to G			99999.0	2997.1	601.8	0.0	281.0	
99999.0	1411.5	216.2	0.0	775.9				
PJM TO G+PJM TO J			1500.0	1453.1	192.6	0.4	2042.4	
2000.0	213.8	0.3	0.0	193.6				
LONG ISLAND GROUP			1465.0	1465.0	372.8	0.2	216.0	
535.0	468.6	314.0	161.7	1572.7				
LI GRP + NEPTUNE			99999.0	1465.5	354.7	0.0	184.3	
448.0	499.2	299.2	782.0	2048.2				
NYC IMPORTS			99999.0	5699.3	1220.1	0.0	2179.9	
99999.0	859.9	24.0	0.0	56.1				
G TO J2 TO J			99999.0	1932.3	2.5	0.0	2236.0	
99999.0	0.0	0.0	0.0	0.0				
DS plus Y49Y50			99999.0	5290.0	1527.5	0.0	1223.3	
99999.0	882.1	114.3	0.0	35.0				
NORTH TO SOUTH			2700.0	2700.0	1308.7	4.3	2234.1	
9999.0	680.5	134.8	0.0	1.8				
BOSTON IMPORT			3900.0	3900.0	799.7	0.1	1451.1	
9999.0	764.5	172.7	0.0	7.2				
SEMA EXPORT			9999.0	1008.2	282.7	0.0	19.4	
9999.0	1822.3	225.2	0.0	24.2				
SEMA-RI EXPORT			3000.0	3000.0	848.9	2.2	373.3	
9999.0	655.9	97.6	0.0	1.1				
EAST TO WEST			2800.0	2203.7	137.7	0.0	717.5	
9999.0	1607.9	218.5	0.0	5.1				
CT IMPORT-EXPORT			2500.0	2498.4	366.3	0.0	70.2	
9999.0	656.5	256.8	0.0	2.2				
SWCT IMPORT			3200.0	2445.8	444.1	0.0	696.9	
9999.0	34.6	38.8	0.0	0.0				
NORWALK-STAMFORD IMPORT			1650.0	1290.1	350.6	0.0	2192.0	
9999.0	48.8	43.7	0.0	0.0				
NEW YORK - NEW ENGLAND			1875.0	1009.2	68.7	0.0	8.3	

			Item1 IRM10_D28_FNE_ROO_09.txt					
1400.0	1393.4	230.1	0.5	15.8				
HYDRO QUEBEC IMPORTS			99999.0	1858.0	945.0	0.0	1.6	
99999.0	1312.0	726.0	0.0	22.5				
NEW ENGLAND IMPORTS			1200.0	1034.6	52.3	0.0	11.2	
1525.0	1394.1	583.2	0.0	6.2				

NOTE: Limits shown are as of the beginning of the year.
 Because all load levels and/or margin states may not have been calculated, (since the isolated area indices were not computed), the quantities in this summary may not be completely accurate.

♀
 Version 2.98 Run Date: 03172010
 COMPANY Job Number: 171208
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D28 is IRM Base Case with revised load forecast (12-18-09)
 Output Section 9
 Page 7

ANNUAL CONTRACT CURTAILMENTS FOR

2010

***** CURTAILMENT *****		CONTRACT			
HOURS	ENERGY (MWH)	CONTRACT	FROM AREA	TO AREA	ENERGY (MWH)
-----	-----	-----	-----	-----	-----
0.0	0.00	CSC_CRCT	AREA_K1	AREA_K	876000.00
0.0	0.00	NEPT-CNT	AREA_K2	AREA_K	5781600.00
0.0	0.00	VFT - J	AREA_J3	AREA_J	2628000.00
0.0	0.00	NY-PUR	AREA_F	W-MA	0.00
0.0	0.00	NE-NY	W-MA	AREA_F	0.00
0.0	0.00	HQ-NE-II	HYDQUE	CMA-NEMA	0.00
0.0	0.00	HQ-HIGT	HYDQUE	VT	0.00
0.0	0.00	DERBY-LN	HYDQUE	VT	0.00
0.0	0.00	CSC-CRCT	AREA_K1	AREA_K	0.00

NOTE: Because all load levels and/or margin states may not have been calculated, (since the isolated area indices were not computed), the quantities in this summary may not be completely accurate.

♀
 Curtailments calculated at time of daily peak for margin state 10.
 Version 2.98 Run Date: 03172010
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COMPANY

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 Output Section 9

Page 8

FOR 2010

ANNUAL EOP USAGE ON INTERCONNECTED BASIS

(EXPECTED NUMBER OF TIMES PER YEAR)

		EMERGENCY OPERATING PROCEDURE						
8	AREA 9	10	2	3	4	5	6	7
-----		-----	-----	-----	-----	-----	-----	-----
	AREA_A	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	47.222	17.790	25.184	25.858	24.831	12.252
9.074	9.089	0.911	0.000	0.001	0.001	0.001	0.001	0.023
0.039	0.019	0.701	15.924	3.568	5.553	5.746	5.413	3.758
2.721	AREA_B 2.501	0.112	0.000	0.809	0.425	0.227	0.999	0.226
0.020	0.379	0.632	0.000	0.000	0.000	0.001	0.001	0.001
0.002	0.006	0.812	0.068	0.000	0.001	0.001	0.001	0.001
0.000	AREA_C 0.000	0.000	60.086	23.274	24.949	26.362	25.571	14.964
12.103	12.051	1.013	0.000	0.000	0.000	0.000	0.001	0.001
0.005	0.001	0.822	0.000	0.000	0.000	0.000	0.000	0.000
0.000	AREA_D 0.000	0.000	46.947	21.859	23.884	25.987	25.769	25.769
25.769	25.769	1.099	0.000	0.000	0.000	0.001	0.001	0.000
0.000	0.000	0.958	13.957	1.946	4.055	4.586	4.264	2.908
2.021	AREA_E 1.918	0.060	0.000	14.825	2.956	0.532	1.512	0.309
0.207	0.627	0.646	0.000	0.000	0.000	0.000	0.001	0.001
0.004	0.003	0.831	15.952	2.541	4.162	3.550	3.421	3.108
2.244	AREA_F 2.192	0.106	0.005	7.168	8.210	11.652	11.773	2.252
2.882	3.051	0.233	0.000	0.000	0.000	0.001	0.001	0.001
0.006	0.002	0.225	0.000	0.000	0.000	0.000	0.000	0.000
0.000	AREA_F1 0.000	0.000	314.998	314.998	314.998	314.998	314.998	314.998
314.998	314.998	1.205	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	1.173						

		Item1	IRM10_D28_FNE_R00_09.txt				
2.052	AREA_G 1.068	12.831 0.204	2.642	3.457	3.674	3.270	2.957
7.910	11.273	13.084 0.390	8.304	14.750	19.225	20.840	6.833
0.041	0.008	0.000 0.928	0.002	0.004	0.007	0.009	0.009
0.006	AREA_H 0.005	0.011 0.001	0.004	0.008	0.008	0.008	0.007
19.867	19.866	70.951 1.169	29.184	30.371	35.092	35.077	20.313
0.001	0.000	0.000 1.047	0.001	0.001	0.003	0.006	0.014
3.816	AREA_I 3.647	16.933 0.313	3.365	6.988	7.910	7.692	5.319
4.163	4.936	0.000 0.074	14.596	0.002	4.423	5.478	0.002
0.006	0.000	0.000 1.049	0.000	0.000	0.003	0.003	0.008
4.467	AREA_J 4.331	17.727 0.367	4.778	7.500	8.597	8.421	6.354
1.208	1.818	0.000 0.001	0.027	0.051	2.420	3.314	0.000
0.007	0.000	0.000 0.469	0.000	0.001	0.001	0.001	0.004
0.000	AREA_J1 0.000	0.000 0.000	0.000	0.000	0.000	0.000	0.000
329.172	329.172	329.172 0.258	329.172	329.172	329.172	329.172	329.172
0.000	0.000	0.000 0.245	0.000	0.000	0.000	0.000	0.000
365.000	AREA_J2 365.000	365.000 0.000	365.000	365.000	365.000	365.000	365.000
0.000	0.000	0.000 0.549	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000 1.493	0.000	0.000	0.000	0.000	0.000
32.791	AREA_J3 32.791	32.791 0.000	32.791	32.791	32.791	32.791	32.791
0.000	0.000	0.715 0.031	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.994 0.069	0.000	0.000	0.000	0.000	0.000
0.696	AREA_K 0.688	16.690 0.132	4.190	6.579	7.104	6.866	0.897
14.036	13.249	0.069 0.480	1.224	1.865	4.809	5.045	14.664
0.014	0.022	0.000 0.299	0.000	0.001	0.002	0.002	0.005
37.427	AREA_K1 37.427	37.427 0.000	37.427	37.427	37.427	37.427	37.427
0.000	0.000	1.062 0.001	0.000	0.000	0.000	0.000	0.000
0.000	0.000	1.399 0.076	0.000	0.000	0.000	0.000	0.000
0.003	AREA_K2 0.003	0.003 0.000	0.003	0.003	0.003	0.003	0.003
351.431	351.431	351.441 1.003	351.431	351.431	351.431	351.431	351.431
0.000	0.000	0.152 1.256	0.000	0.000	0.000	0.000	0.000
0.347	HYDQUE 0.347	0.347 0.110	0.347	0.347	0.347	0.347	0.347
		0.081	0.081	0.081	0.081	0.081	0.081

		Item1	IRM10_D28_FNE_R00_09.txt					
0.081	0.081	0.000						
		0.724	0.724	0.724	0.724	0.724	0.724	0.724
0.724	0.724	0.002						
	CEDARS	33.412	33.412	33.412	33.412	33.412	33.412	33.412
33.412	33.412	0.000						
		0.060	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.033						
		1.740	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.170						
	PJM_CENT	0.330	0.330	0.330	0.330	0.330	0.330	0.330
0.330	0.330	0.285						
		8.623	8.591	8.591	8.591	8.591	8.591	8.591
8.592	8.592	0.801						
		0.010	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.119						
	PJM_EAST	0.338	0.338	0.338	0.338	0.338	0.338	0.338
0.338	0.338	0.293						
		12.901	12.872	12.872	12.872	12.872	12.872	12.872
12.872	12.872	0.984						
		0.006	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.154						
	PJM_WEST	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000						
		0.748	0.529	0.529	0.529	0.529	0.529	0.529
0.529	0.529	0.428						
		0.006	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001						
	PJM_REC0	365.000	365.000	365.000	365.000	365.000	365.000	365.000
365.000	365.000	0.564						
		0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000						
		0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.571						
	BHE	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000						
		0.397	0.396	0.396	0.396	0.396	0.396	0.396
0.396	0.396	0.187						
		5.814	5.595	5.595	5.595	5.595	5.595	5.595
5.595	5.595	0.087						
	ME	0.094	0.094	0.094	0.094	0.094	0.094	0.094
0.094	0.094	0.036						
		0.195	0.195	0.195	0.195	0.195	0.195	0.195
0.195	0.195	0.115						
		1101.049	1101.049	1101.049	1101.049	1101.049	1101.049	1101.049
1101.049	1101.049	2.308						
	S-ME	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000						
		0.501	0.499	0.499	0.499	0.499	0.499	0.499
0.499	0.499	0.219						
		3.147	2.777	2.777	2.777	2.777	2.777	2.777
2.777	2.777	0.080						
	NH	0.001	0.001	0.001	0.001	0.001	0.001	0.001
0.001	0.001	0.000						
		0.587	0.587	0.587	0.587	0.587	0.587	0.587
0.587	0.587	0.287						
		409.849	409.849	409.849	409.849	409.849	409.849	409.849
409.849	409.849	2.113						
	VT	0.097	0.097	0.097	0.097	0.097	0.097	0.097
0.097	0.097	0.037						
		0.195	0.195	0.195	0.195	0.195	0.195	0.195
0.195	0.195	0.115						
		921.765	921.765	921.765	921.765	921.765	921.765	921.765
921.765	921.765	2.329						

		Item1	IRM10_D28_FNE_R00_09.txt					
BOSTON		0.174	0.174	0.174	0.174	0.174	0.174	0.174
0.174	0.174	0.085	0.006	0.006	0.006	0.006	0.006	0.006
0.006	0.006	0.002	1453.174	1453.174	1453.174	1453.174	1453.174	1453.174
1453.174	1453.174	2.332	0.142	0.142	0.142	0.142	0.142	0.142
CMA-NEMA		0.050	0.075	0.075	0.075	0.075	0.075	0.075
0.142	0.142	0.085	2235.411	2235.411	2235.411	2235.411	2235.411	2235.411
0.075	0.075	2.340	0.000	0.000	0.000	0.000	0.000	0.000
2235.411	2235.411	0.000	0.549	0.548	0.548	0.548	0.548	0.548
W-MA		0.247	2.632	2.063	2.063	2.063	2.063	2.063
0.000	0.000	0.409	0.066	0.066	0.066	0.066	0.066	0.066
0.548	0.548	0.025	0.307	0.307	0.307	0.307	0.307	0.307
2.063	2.063	0.171	29.049	28.968	28.968	28.968	28.968	28.968
SEMA		0.864	0.000	0.000	0.000	0.000	0.000	0.000
0.066	0.066	0.000	0.533	0.533	0.533	0.533	0.533	0.533
0.307	0.307	0.252	13.064	12.929	12.929	12.929	12.929	12.929
28.968	28.968	0.979	0.034	0.034	0.034	0.034	0.034	0.034
RI		0.012	0.450	0.450	0.450	0.450	0.451	0.451
0.000	0.000	0.230	65.495	65.391	65.391	65.391	65.391	65.391
0.533	0.533	1.872	0.150	0.150	0.150	0.150	0.150	0.150
12.929	12.929	0.064	0.069	0.070	0.070	0.070	0.070	0.070
CT		0.084	696.315	696.313	696.313	696.313	696.313	696.313
0.034	0.034	2.220	0.155	0.155	0.155	0.155	0.155	0.155
0.451	0.451	0.065	0.069	0.069	0.069	0.069	0.069	0.069
65.391	65.391	0.084	2191.363	2191.363	2191.363	2191.363	2191.363	2191.363
SWCT		2.340	1.327	1.327	1.327	1.327	1.327	1.327
0.150	0.150	0.142	0.000	0.000	0.000	0.000	0.000	0.000
0.070	0.070	0.000	9.924	9.377	9.377	9.377	9.377	9.377
696.313	696.313	0.657						
NOR								
0.155	0.155							
0.069	0.069							
2191.363	2191.363							
ONTARIO								
1.327	1.327							
0.000	0.000							
9.377	9.377							

NOTE: Line 1 - Number of times EOP initiated by area to meet its own deficiency.
Line 2 - Number of times EOP initiated to assist other areas in the same pool.
Line 3 - Number of times EOP initiated to assist areas in other pools.