

APPENDIX A

**SCHEDULE OF SIGNIFICANT INTERCHANGES
ASSUMED FOR TRANSFER LIMITS STUDIES**

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SCHEDULE OF NET INTERCHANGES

TO FROM	NYISO	PJM	PJM- WEST	IMO	ISONE	NB/NS	Trans Énergie	Other Control Areas	TOTAL EXPORT+ IMPORT-
NYISO		50	0	0	126	0	-1200	82	-942
PJM	-50		-894	0	0	0	0	-681	-1625
PJM- WEST	0	894		0	0	0	0	-827	67
IMO	0	0	0		0	0	0	0	0
ISONE	-126	0	0	0		-700	-1770	0	-2596
NB/NS	0	0	0	0	700		0	0	700
Trans Énergie	1200	0	0	0	1770	0		45	3015

APPENDIX A
SUMMARY OF SUMMER 2003 BASE TRANSFERS

NEW BRUNSWICK/NOVA SCOTIA	
New Brunswick to TransÉnergie: Madawaska and Eel River HVdc	0
New Brunswick to New England	700
Total Export (+) / Import (-)	700

NEW ENGLAND	
New England to New Brunswick	-700
New England to TransÉnergie: Sandy Pond and Highgate HVdc	-1770
New England to New York	-126
Total Export (+) / Import (-)	-2596

NEW YORK ISO	
New York to TransÉnergie	-1200
New York to New England: NYPA to VELCO	126
New York to PJM: NYPA to PA-RECS	94
New York to PJM: Sithe Allegheny	-36
New York to PJM: Non-Firm Energy	-8
New York to ECAR: NYPA to AMP- Ohio	82
New York to IMO (Ontario)	0
Total Export (+) / Import (-)	-942

IMO (Ontario)	
IMO to TransÉnergie	0
IMO to New York	0
IMO to ECAR: ITC & METC	0
IMO to MAPP	0
Total Export (+) / Import (-)	0

APPENDIX A
SUMMARY OF SUMMER 2002 BASE TRANSFERS

PJM and PJM West	
PJM to New York: NYPA to PA-RECS	-94
PJM to New York: Sithe Allegheny	36
PJM to New York: Non Firm Energy	-50
PJM to VACAR	-640
PJM to ECAR	-356
Miscellaneous Transfers to Other Areas	-454
Total Export (+) / Import (-)	-1558

TRANSÉNERGIE	
TransÉnergie to New Brunswick: Madawaska and Eel River HVdc	0
TransÉnergie to New England: Sandy Pond and Highgate HVdc	1770
TransÉnergie to New York	1200
TransÉnergie to IMO (Ontario)	0
TransÉnergie to Cornwall	45
Total Export (+) / Import (-)	3015

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APPENDIX B

SUMMER 2004 BASE CASE CONDITIONS

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SUMMER 2004 Conditions

GENERATION FACILITIES (LEVEL OF GENERATION IN CASE)

The status and dispatch of EHV-connected generation represented in this analysis is listed below.

NYISO

Huntley	365 MW	In Service
Dunkirk	365 MW	In Service
Niagara (1-13)	2635 MW	In Service
AES/Somerset	597 MW	In Service
GINNA	509 MW	In Service
Sithe/Independence	900 MW	In Service
Oswego #5	0 MW	Out of Service
Oswego #6	881 MW	In Service
Nine Mile Pt #1	617 MW	In Service
Nine Mile Pt #2	1212 MW	In Service
J.A. Fitzpatrick	849 MW	In Service
St. Lawrence/FDR (17-32)	852 MW	In Service
Roseton 1	599 MW	In Service
Roseton 2	585 MW	In Service
Gilboa (1&3)	460MW	In Service
Saranac Energy	239 MW	In Service
Selkirk Cogen	339 MW	In Service
Indian Pt #2	928 MW	In Service
Indian Pt #3	1042 MW	In Service
Bowline Pt 1	592 MW	In Service
Bowline Pt 2	0 MW	Out of Service
Poletti	825 MW	In Service
Ravenswood #3	966 MW	In Service
ECP/Linden Cogen	644 MW	In Service
Arthur Kill #3	285 MW	In Service

ISO-NE

Millstone Point #2	871 MW	In Service
Millstone Point #3	1137 MW	In Service
Vermont Yankee	506 MW	In Service
Northfield 1 & 3	750 MW	In Service
Bear Swamp 1 & 2	440 MW	In Service
Norwalk Harbor 1 & 2	159/168 MW	In Service
Seabrook	1150 MW	In Service

IMO (Ontario)

Darlington (4 Units)	3434 MW	In Service
Beck 1 & 2	162/1119 MW	In Service
Bruce B (4 Units)	3162 MW	In Service
Lambton (4 Units)	1855 MW	In Service
Pickering (A & B, 5 Units)	521/2105 MW	In Service
Nanticoke (7 Units)	3921 MW	In Service
St. Lawrence/Saunders (1-16)	792 MW	In Service

PJM

Peach Bottom #2	1092 MW	In Service
Peach Bottom #3	1060 MW	In Service
Salem #1	0 MW	Out of Service
Salem #2	1085 MW	In Service
Limerick #1	1100 MW	In Service
Limerick #2	1115 MW	In Service
Hope Creek	1012 MW	In Service
Susquehanna #1	1106 MW	In Service
Susquehanna #2	1072 MW	In Service

TransEnergie HVdc CONVERTER SCHEDULES

Chateauguay HVdc	700 MW	In Service
Sandy Pond HVdc	1500 MW	In Service
Highgate HVdc	200 MW	In Service
Madawaska HVdc	100 MW	Out of Service
Eel River HVdc	100 MW	Out of Service

AREA LOADS & LOSSES

NYISO	32183 MW
ISO-NE	26803 MW
IMO (Ontario)	25166 MW
PJM	55730 MW

PHASE ANGLE REGULATOR SCHEDULES

Inghams (CD-ED)	120 MW
Plattsburgh-Sandbar (PV-20)	135 MW
St. Lawrence-Moses L33P	0 MW
St. Lawrence-Moses L34P	0 MW
Norwalk Harbor-Northport	100 MW
Jamaica-Valley Stream	-104 MW
Jamaica-Lake Success	-147 MW
Hudson-Farragut (B3402)	400 MW
Hudson-Farragut (C3403)	400 MW
Linden-Goethals	200 MW
Waldwick-Hinchmans	310 MW
Waldwick-Fairlawn	300 MW
Waldwick-Hillsdale	330 MW
Ramapo PAR #1 (+ to NY)	122 MW
Ramapo PAR #2 (+ to NY)	122 MW
East Garden City #1	316 MW
East Garden City #2	316 MW

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APPENDIX C

POWER FLOW TRANSCRIPTION DIAGRAMS

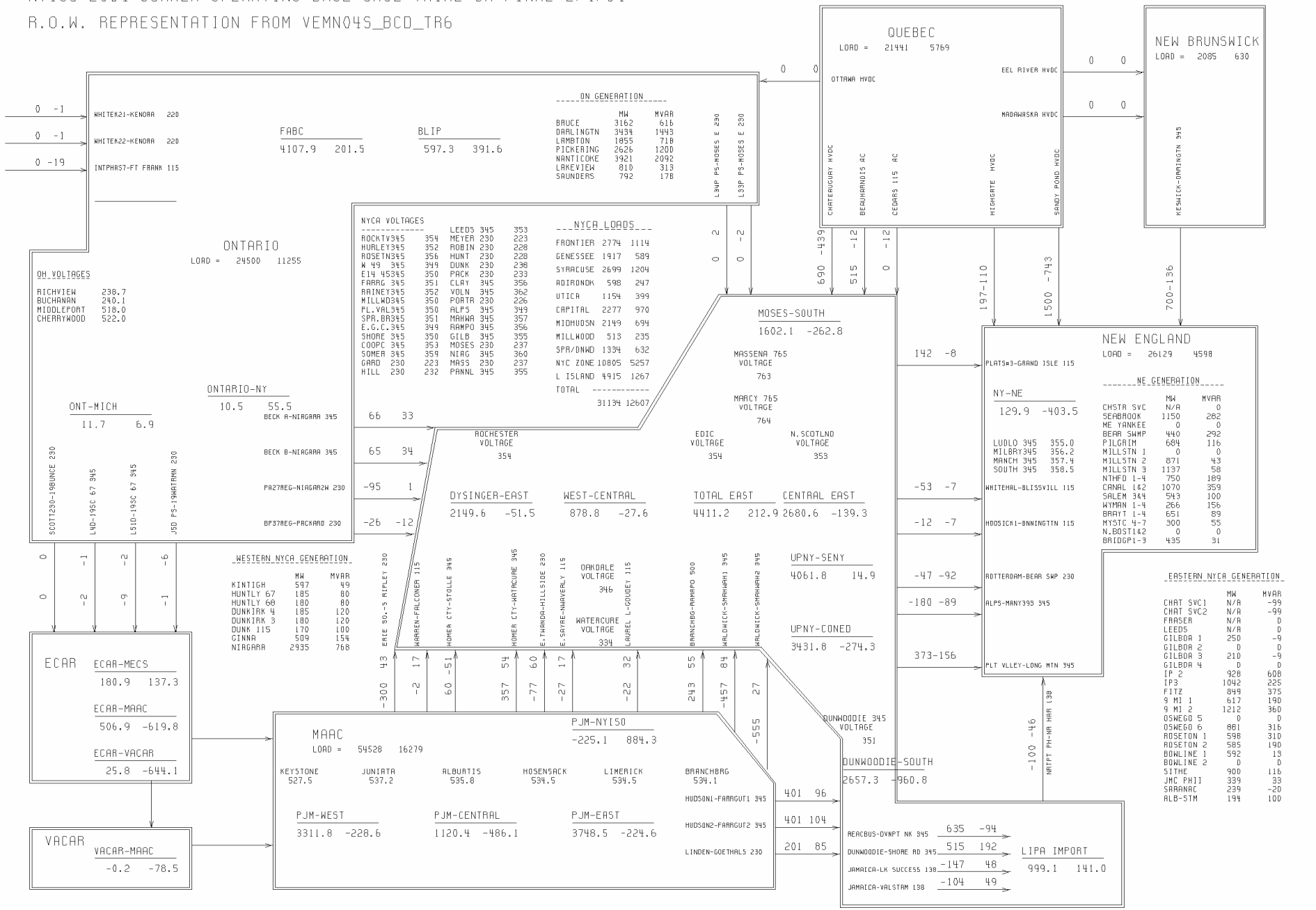
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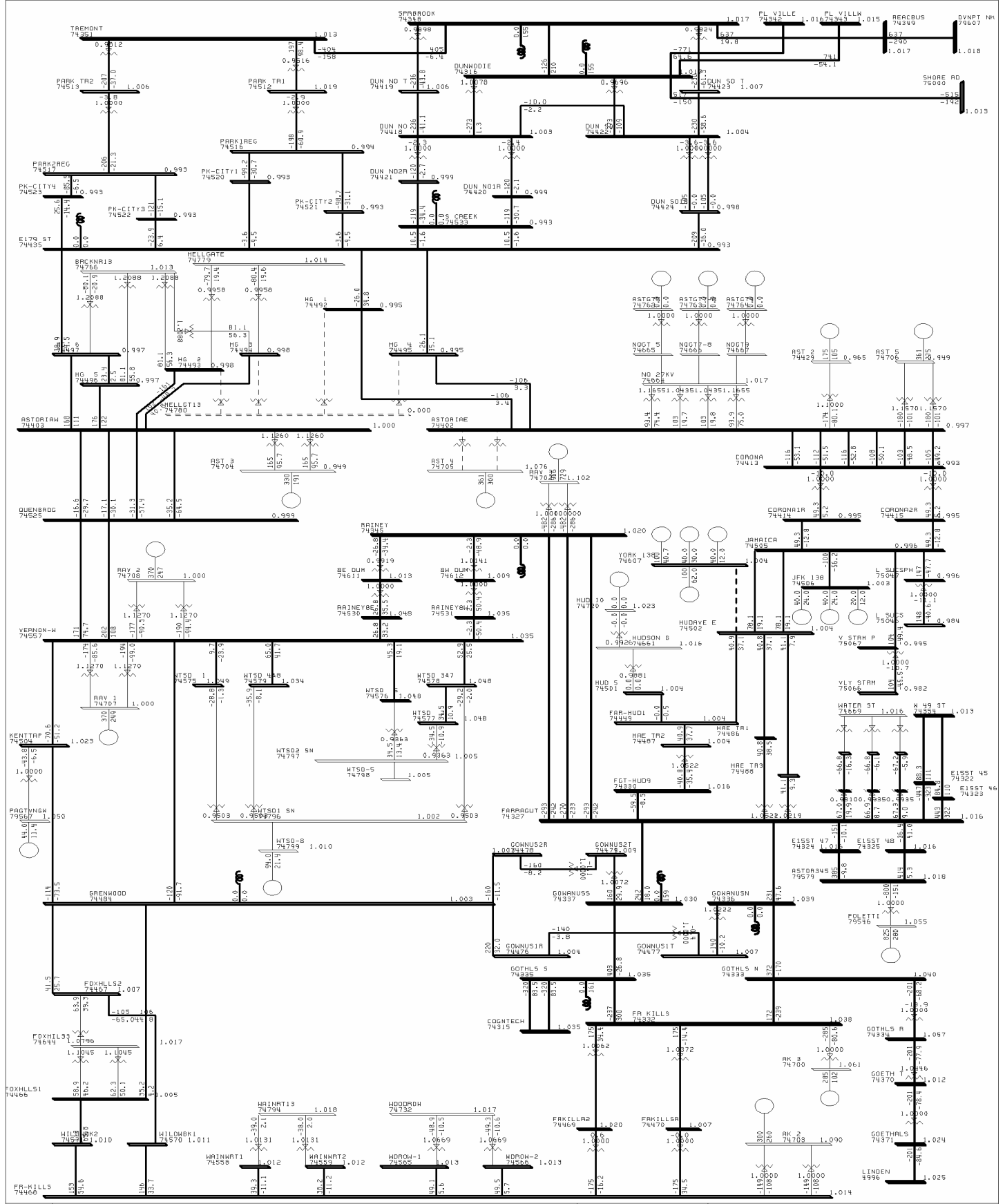
System Overview	C-3
Western NYISO	C-4
Eastern NYISO	C-5
Southern NYISO	C-6
Central Hudson	C-7
Consolidated Edison	C-8
LIPA	C-9,10
NYSEG	C-11,12
NMPC	C-13-18
Orange & Rockland	C-19
Rochester	C-20
Beauharnois	C-21
PJM	C-22
PSE&G	C-23
UPNY-ConEdison	C-24

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NYISO 2004 SUMMER OPERATING BASE CASE TRIAL 3A FINAL-2/4/04
R.O.W. REPRESENTATION FROM VEMN04S_BCD_TR6



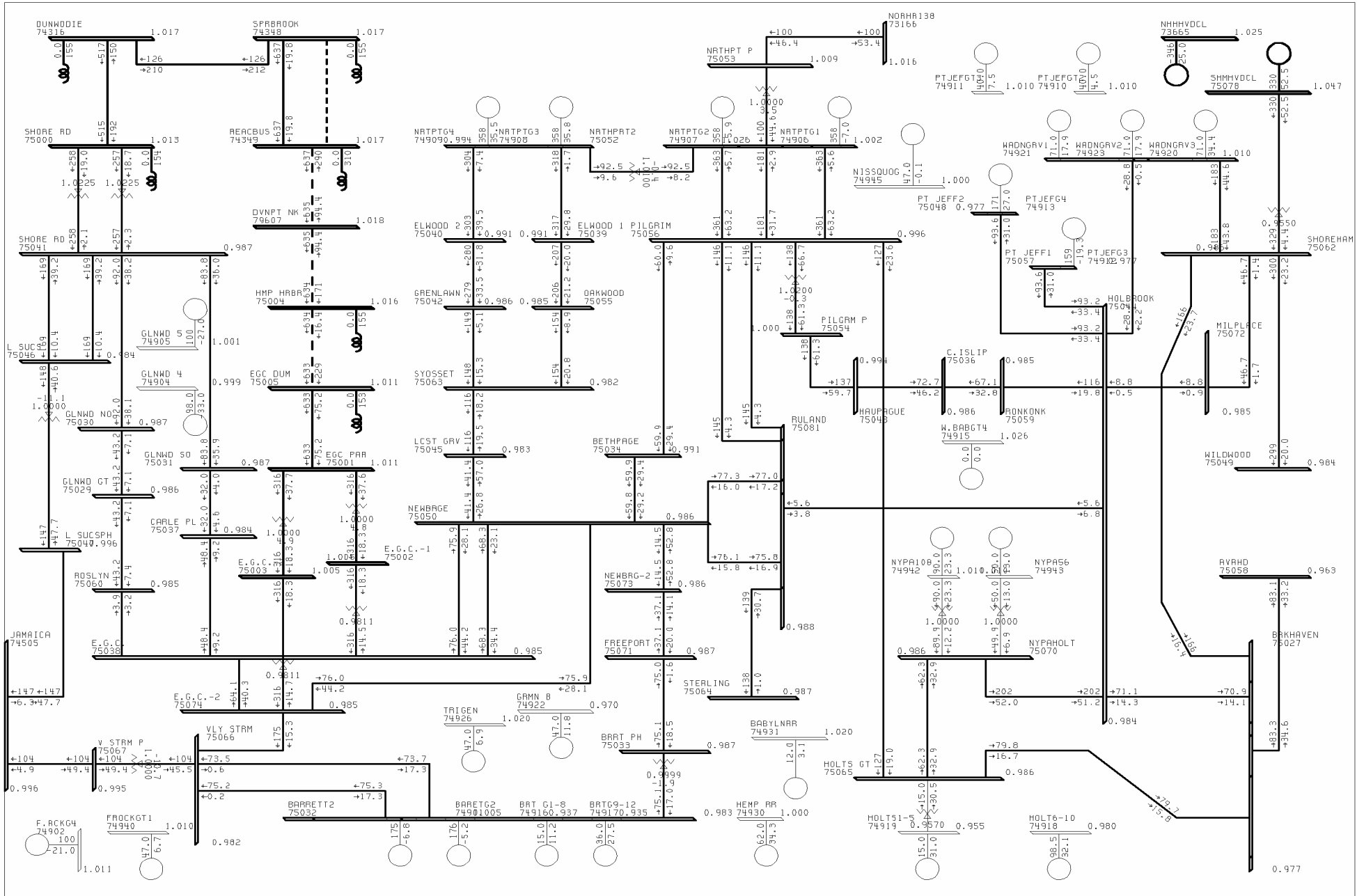
NYISO OPERATING STUDY
SUMMER 2004



NYISO 2004 SUMMER OPERATING BASE CASE TRIAL 3A FINAL-2/4/04
 R.O.W. REPRESENTATION FROM VEMN04S_BCD_TR6
 S) CON EDITION THU, MAR 25 2004 10:45

BUS - VOLTAGE (PU)
 BRANCH - MW/MVAR
 EQUIPMENT - MW/MVAR

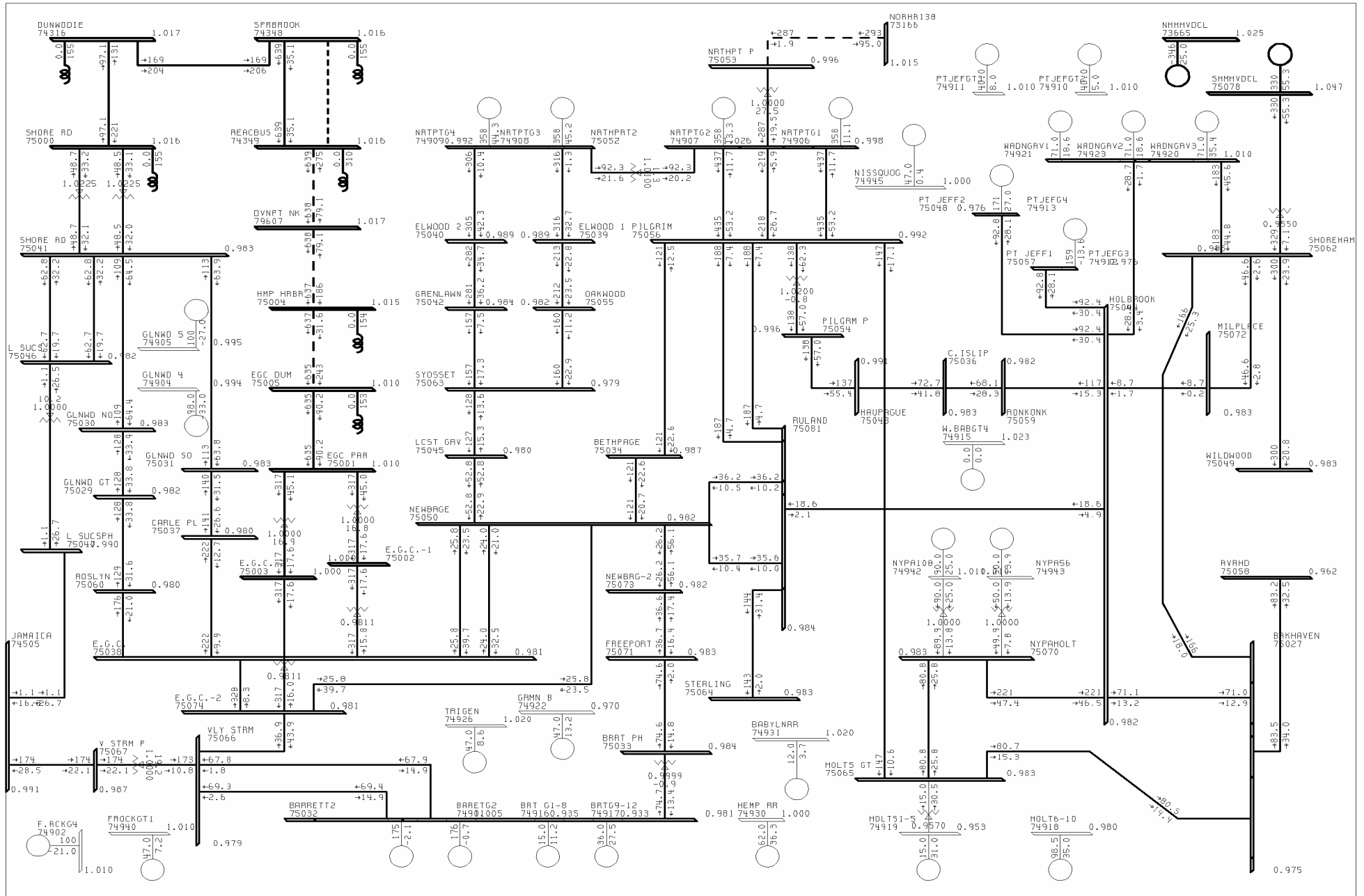
KV: $\leq 34, \leq 139, \leq 2345$



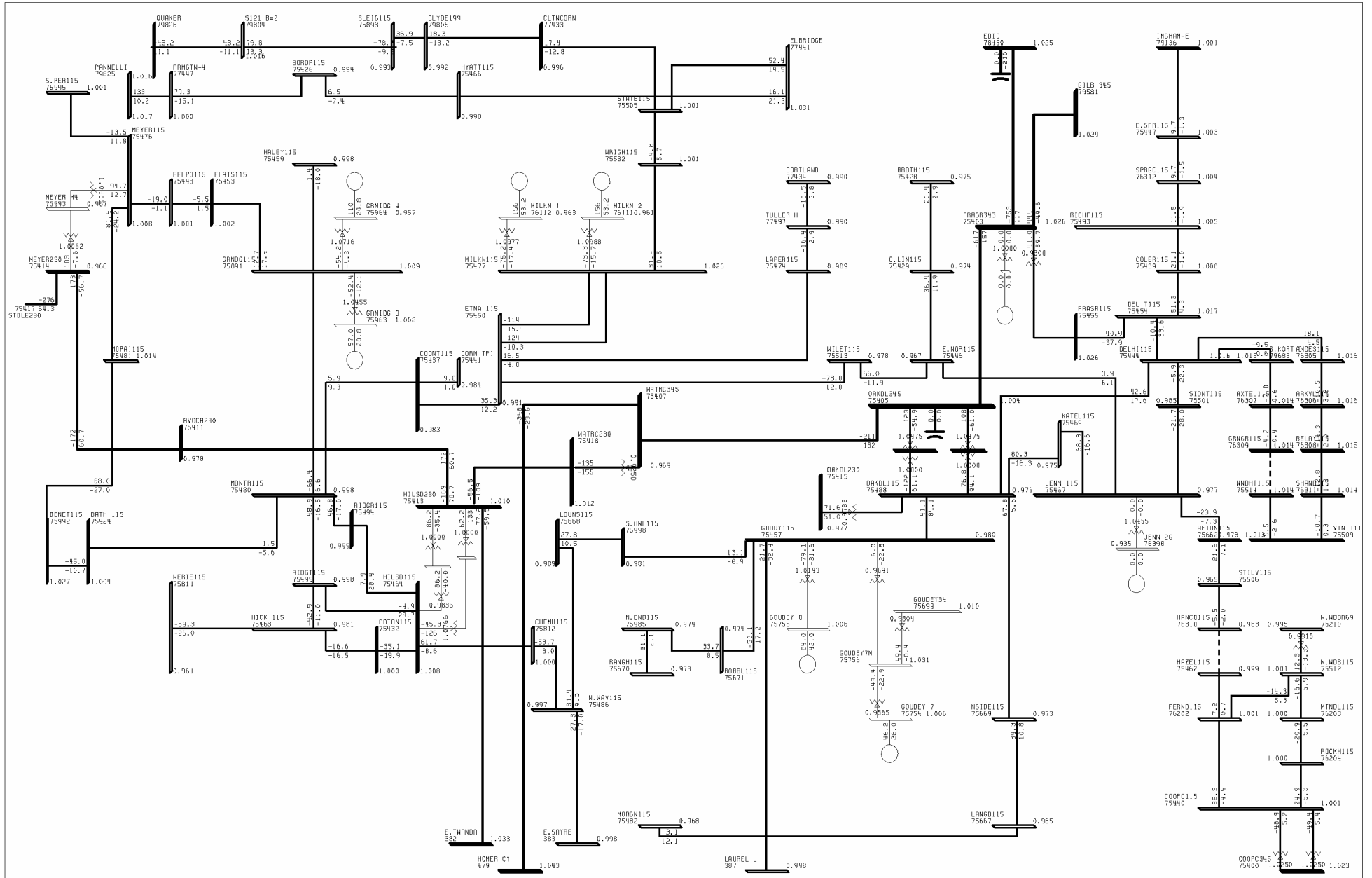
NYISO 2004 SUMMER OPERATING BASE CASE TRIAL 3A FINAL-2/4/04
R.O.W. REPRESENTATION FROM VEMN04S_BCD_TR6
6) LIPA THU, FEB 26 2004 11:04

100% RATE
0.950UV 1.050OV
KV: ≤69 . ≤138 . ≤345

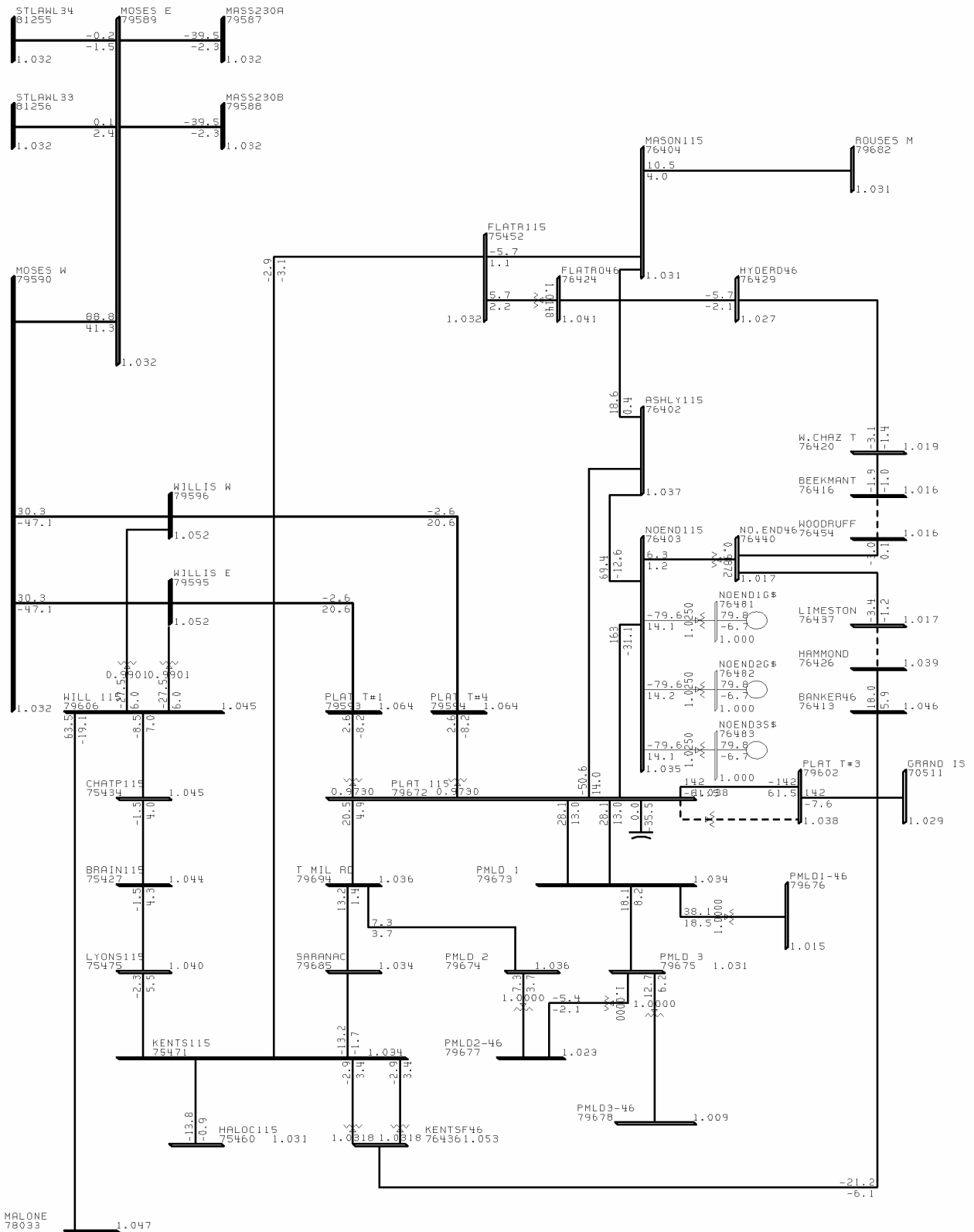
BUS - VOLTAGE (PU)
BRANCH - MW/MVAR
EQUIPMENT - MW/MVAR

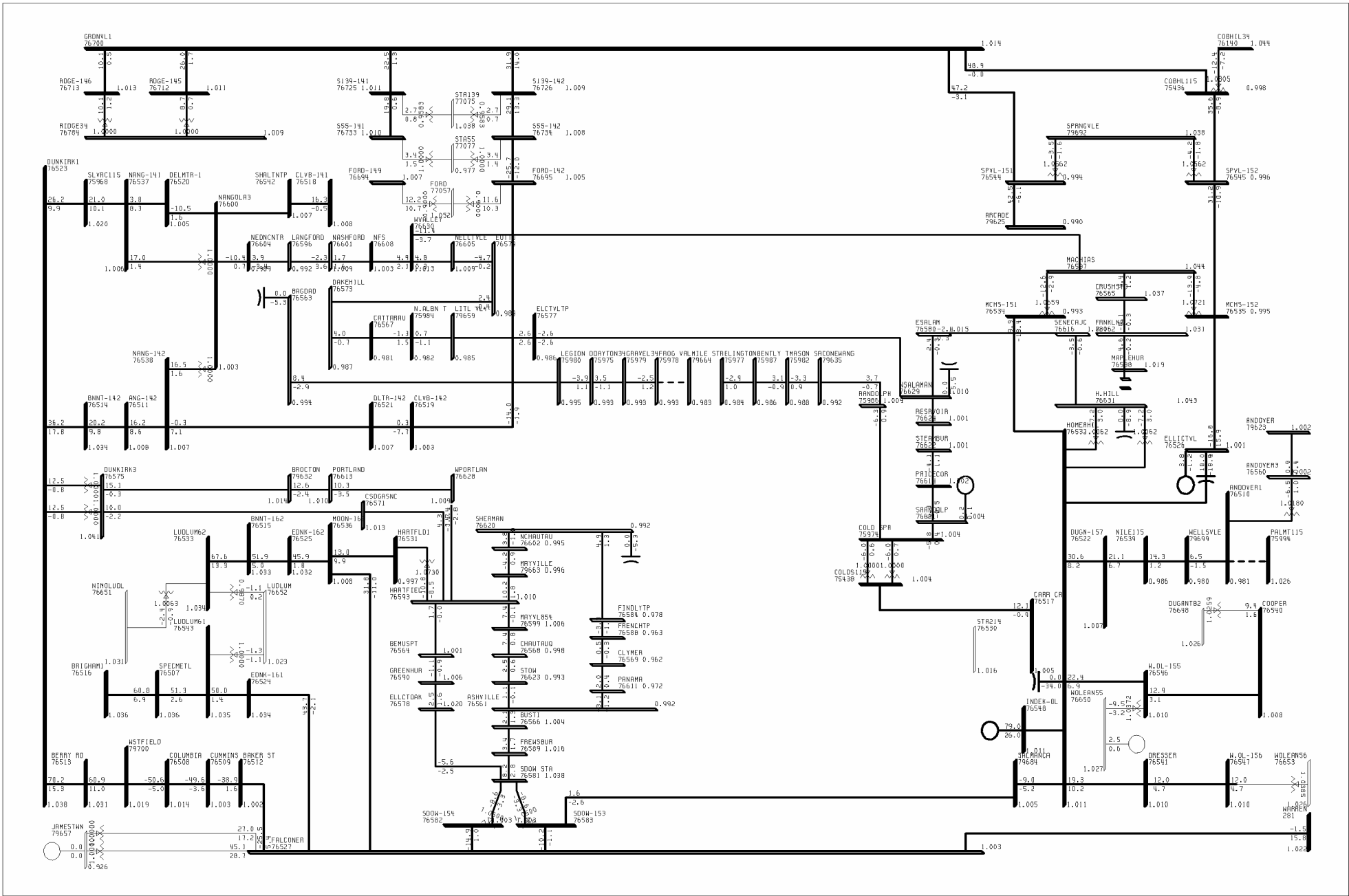


	SUMMER 2004 / LIPAEMERGENCY/ 2/23/04 R.O.W. REPRESENTATION FROM VEMN04S_BCD_TR6	100% RATEA 0.950 UV 1.050 OV KV: ≤69 . ≤138 . ≤345	BUS - VOLTAGE (PU) BRANCH - MW/MVAR EQUIPMENT - MW/MVAR
	7) LIPA EMERGENCY TRANSFER THU, FEB 26 2004 11:04		

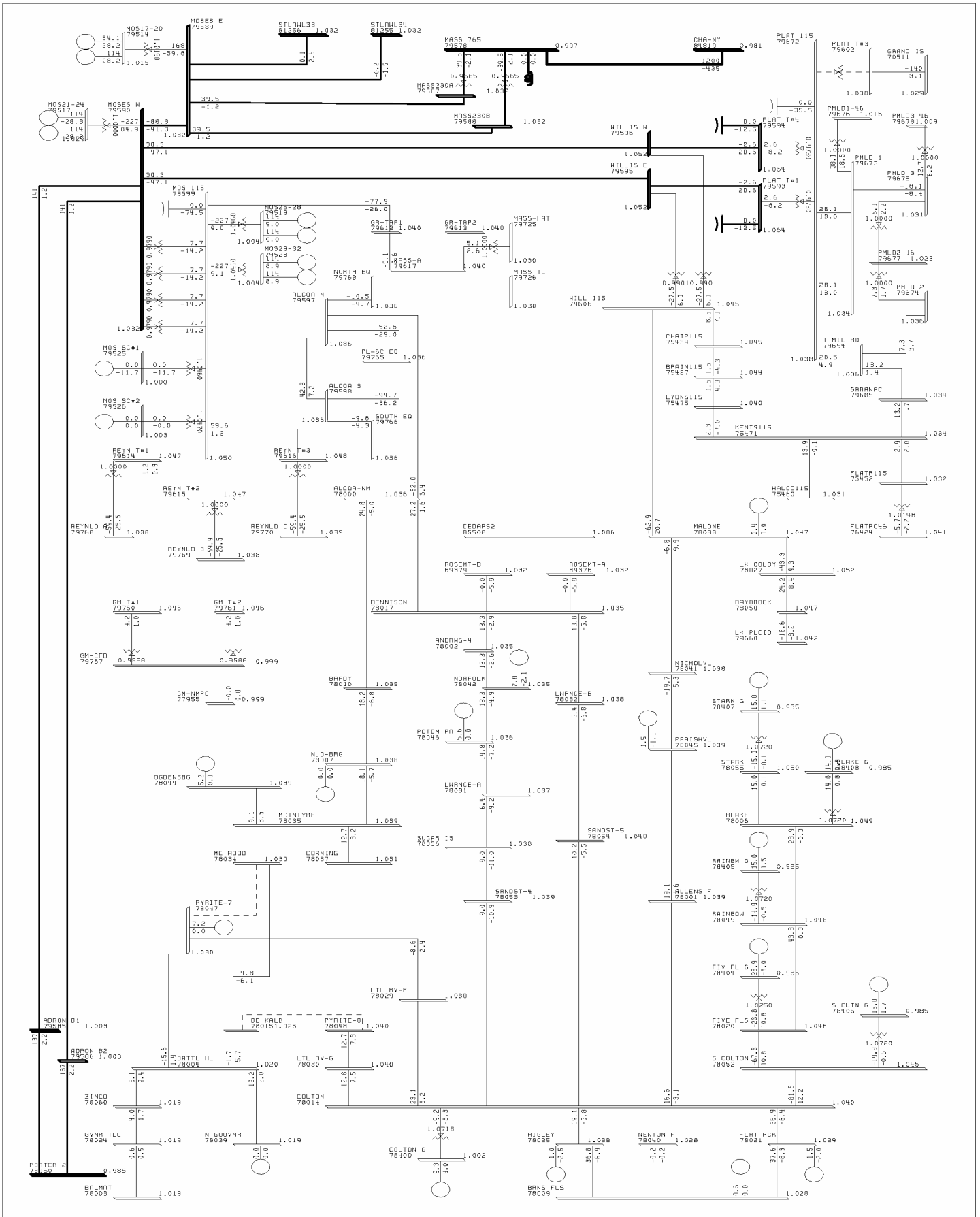


<p>NYISO 2004 SUMMER OPERATING BASE CASE TRIAL 3A FINAL-2/4/04 R.O.W. REPRESENTATION FROM VEMN04S_BCD_TR6 8) NYSEG THU, FEB 26 2004 11:05</p>	<p>KV: <math>\leq 35.0115.4230</math></p>	<p>BUS - VOLTAGE (PU) BRANCH - MW/MVAR EQUIPMENT - MW/MVAR</p>
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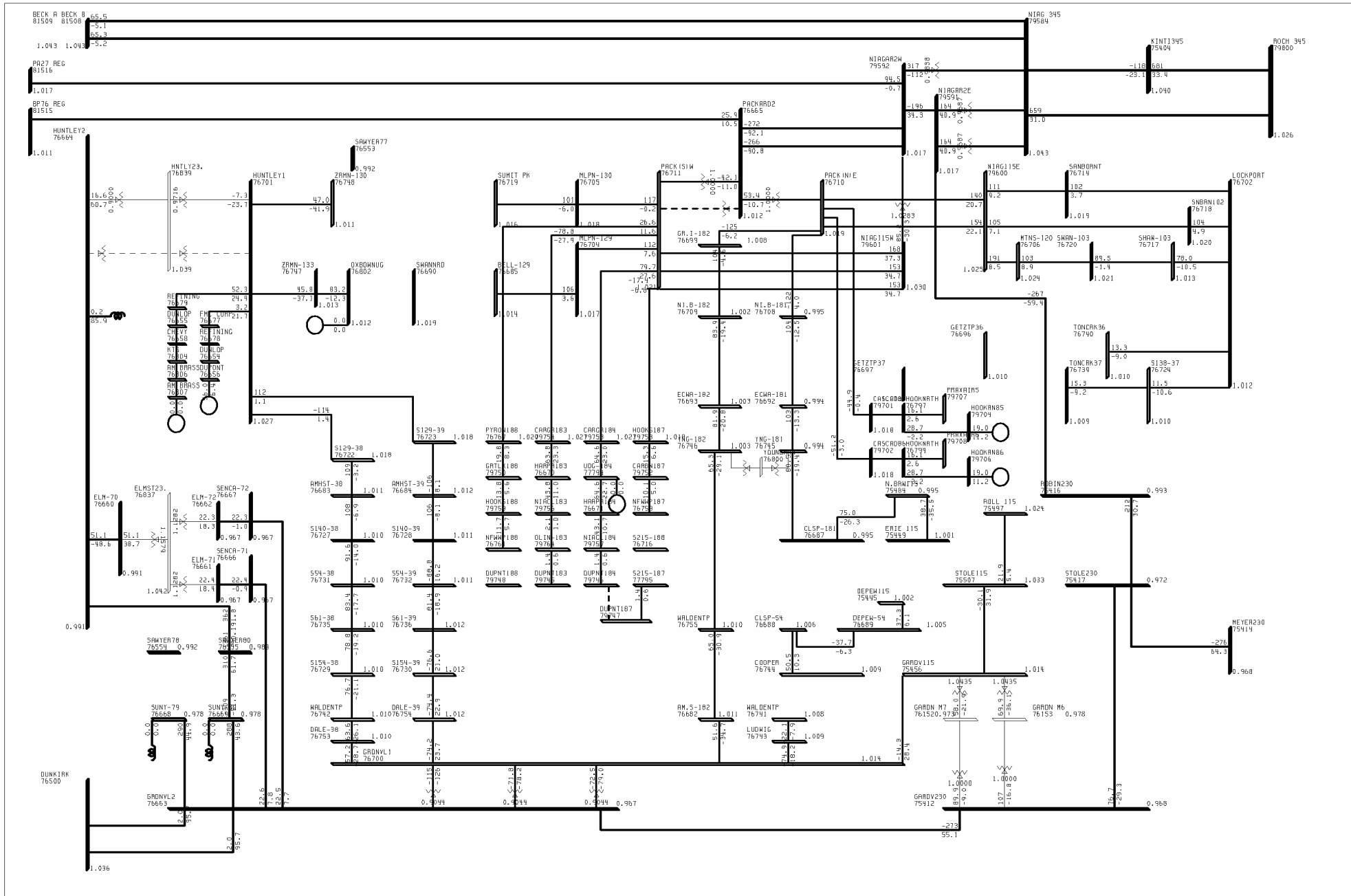




	NYISO 2004 SUMMER OPERATING BASE CASE TRIAL 3A FINAL-2/4/04 R.O.W. REPRESENTATION FROM VEMN04S_BCD_TR6 10) NMPC SOUTHWEST THU, FEB 26 2004 11:05	KV: ≤ 23 . ≤ 35 . ≤ 115	BUS - VOLTAGE (PU) BRANCH - MW/MVAR EQUIPMENT - MW/MVAR
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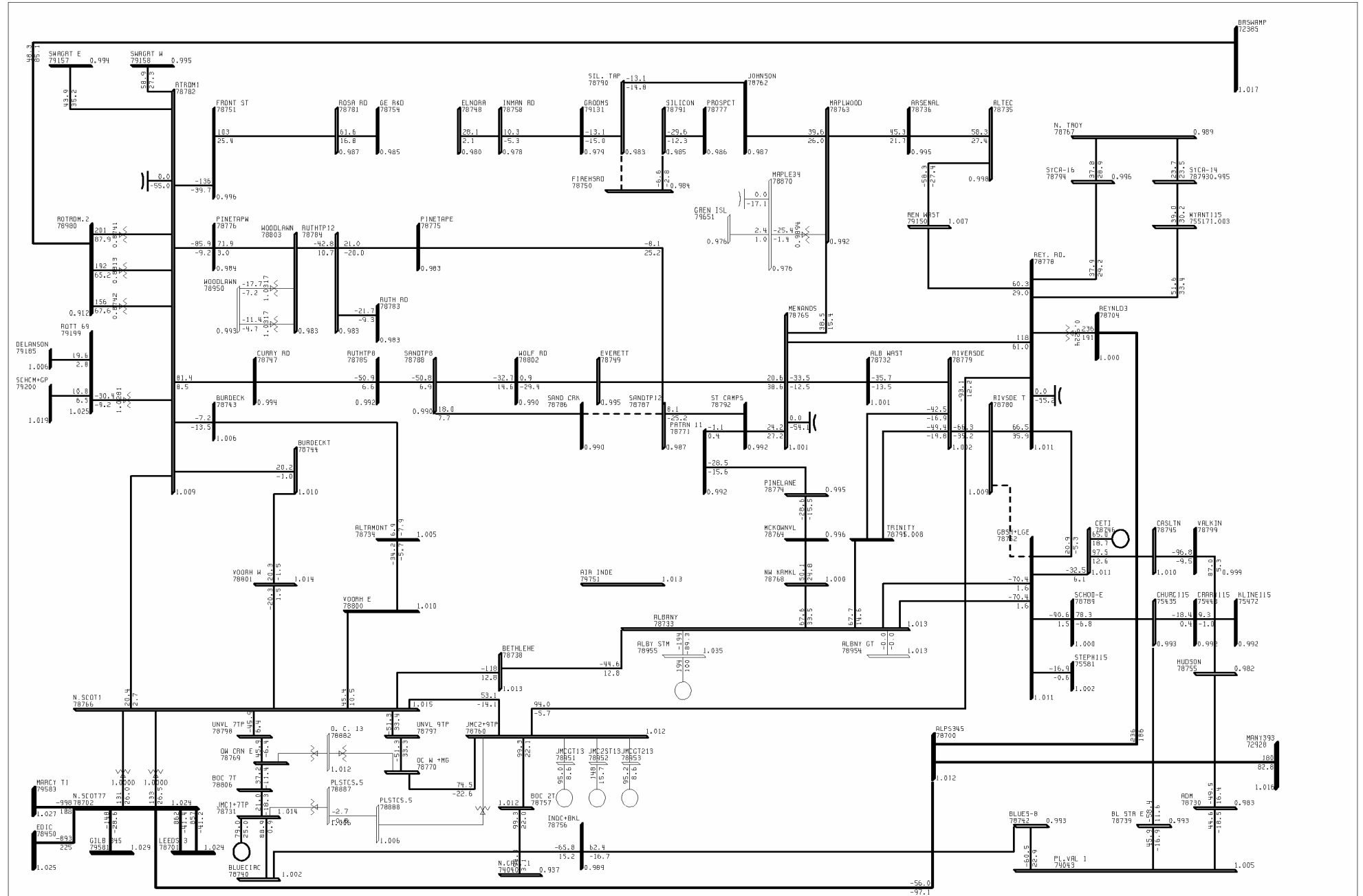
	NYISO 2004 SUMMER OPERATING BASE CASE TRIAL 3A FINAL-2/4/04 R.O.W. REPRESENTATION FROM VEMN04S_BCD_TR6 11) NMPC NORTH THU, FEB 26 2004 11:05	KV: ≤ 138 .4230 .4345	BUS - VOLTAGE (PU) BRANCH - MW/MVAR EQUIPMENT - MW/MVAR
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	NYISO 2004 SUMMER OPERATING BASE CASE TRIAL 3A FINAL-2/4/04 R.O.W. REPRESENTATION FROM VEMN04S_BCD_TR6 12) NMPC BUFFALO THU, FEB 26 2004 11:05	BUS - VOLTAGE (PU) BRANCH - MW/MVAR EQUIPMENT - MW/MVAR
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KV: <35 .5115 .4230

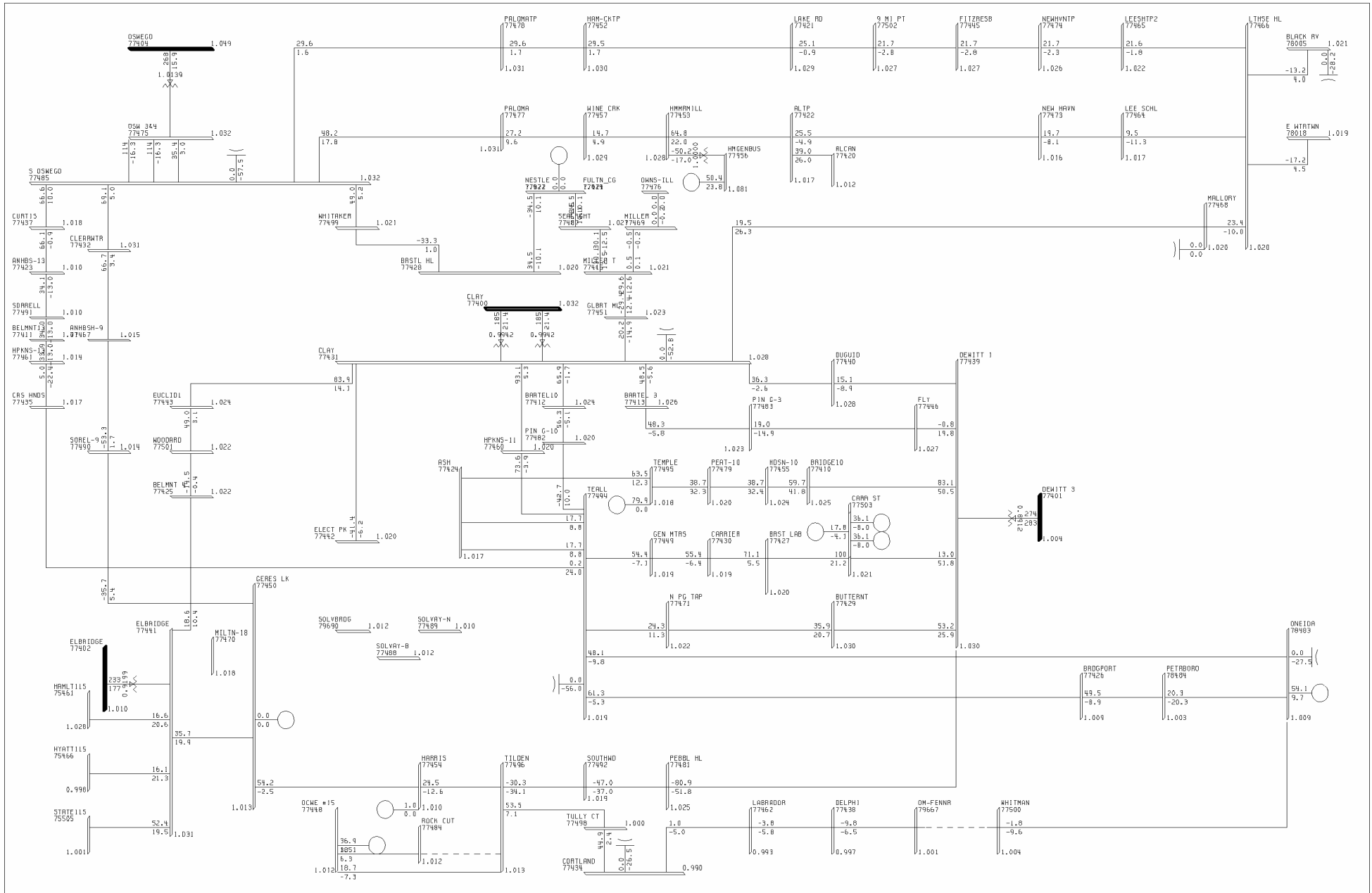
NYISO OPERATING STUDY
SUMMER 2004



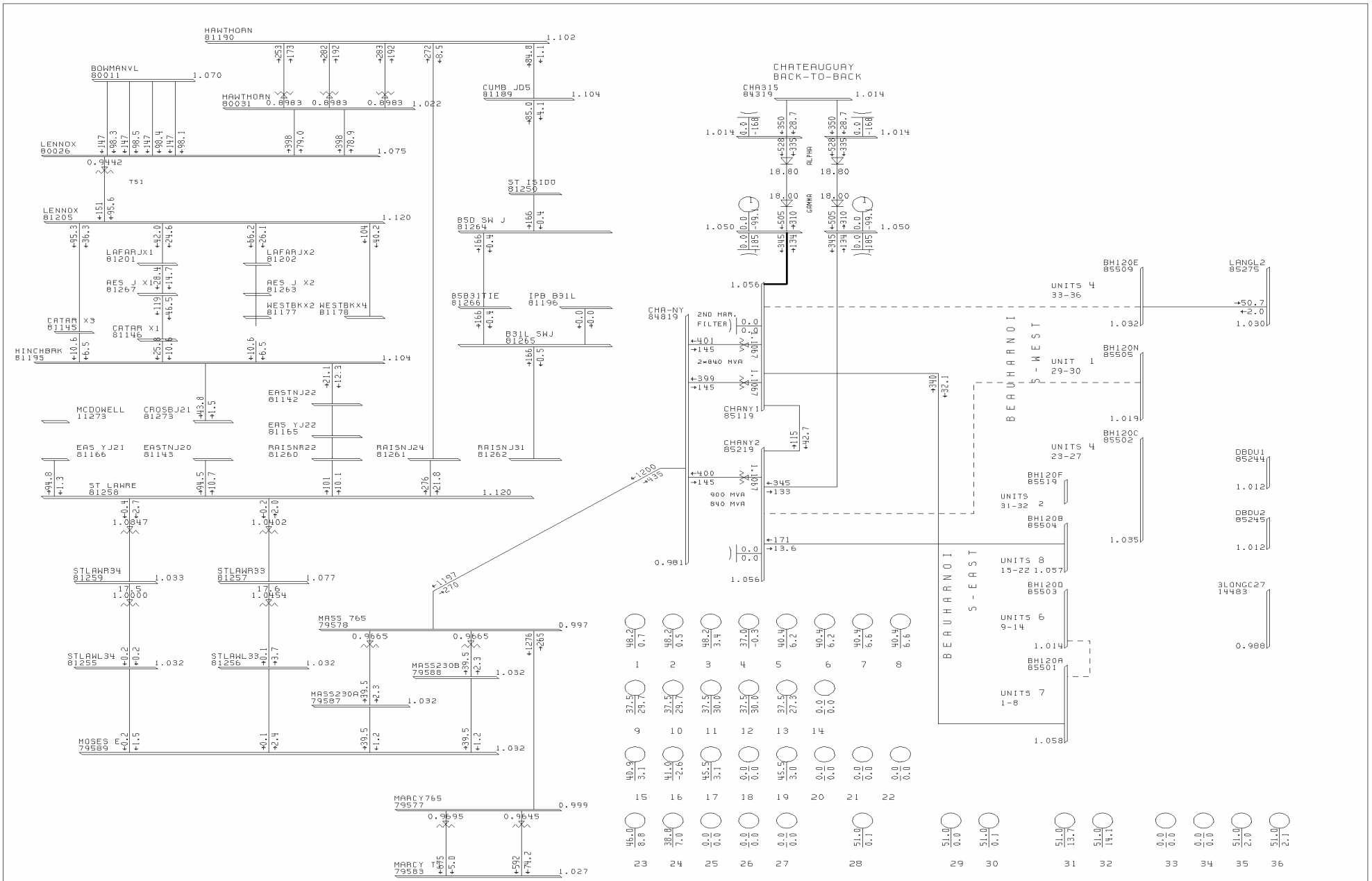
NYISO 2004 SUMMER OPERATING BASE CASE TRIAL 3A FINAL-2/4/04
R.O.W. REPRESENTATION FROM VEMN04S_BCD_TR6
1.3) NMPC ALBANY THU, FEB 26 2004 15:15

KV: ≤ 35 .5115 .4230

BUS - VOLTAGE (PU)
BRANCH - MW/MVAR
EQUIPMENT - MW/MVAR



	NYISO 2004 SUMMER OPERATING BASE CASE TRIAL 3A FINAL-2/4/04 R.O.W. REPRESENTATION FROM VEMN04S_BCD_TR6 14) NMPC SYRACUSE THU, FEB 26 2004 11:05	KV: ≤ 138 .4230 .4315	BUS - VOLTAGE (PU) BRANCH - MW/MVAR EQUIPMENT - MW/MVAR
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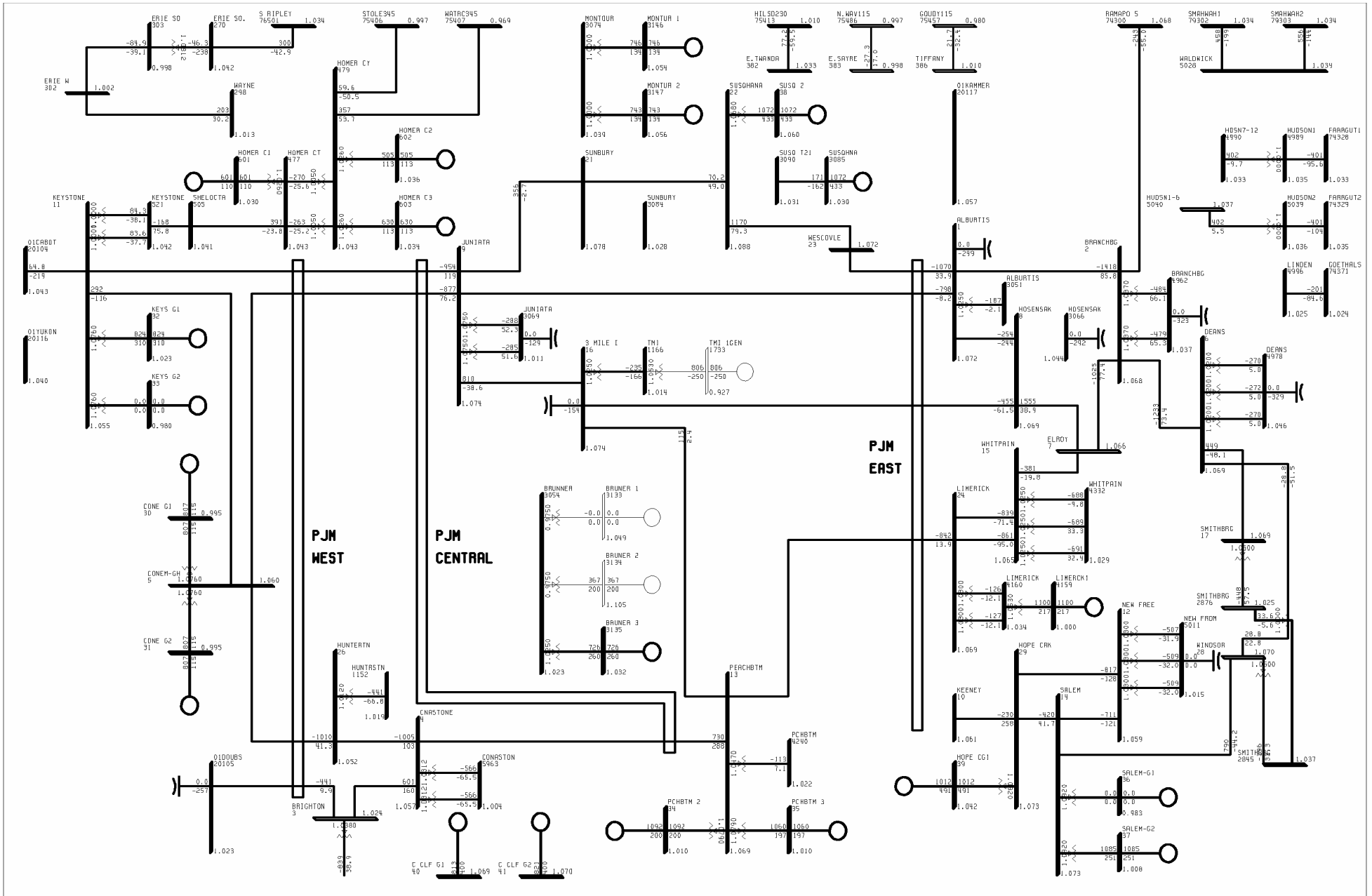


BEAUHARNOIS POWER PLANT REPRESENTATION

NYISO 2004 SUMMER OPERATING BASE CASE TRIAL 3A FINAL-2/4/04
R.O.W. REPRESENTATION FROM VEMN04S_BCD_TR6
18) BEAU THU, FEB 26 2004 11:05

BUS - VOLTAGE (PU)
BRANCH - MW/MVAR
EQUIPMENT - MW/MVAR

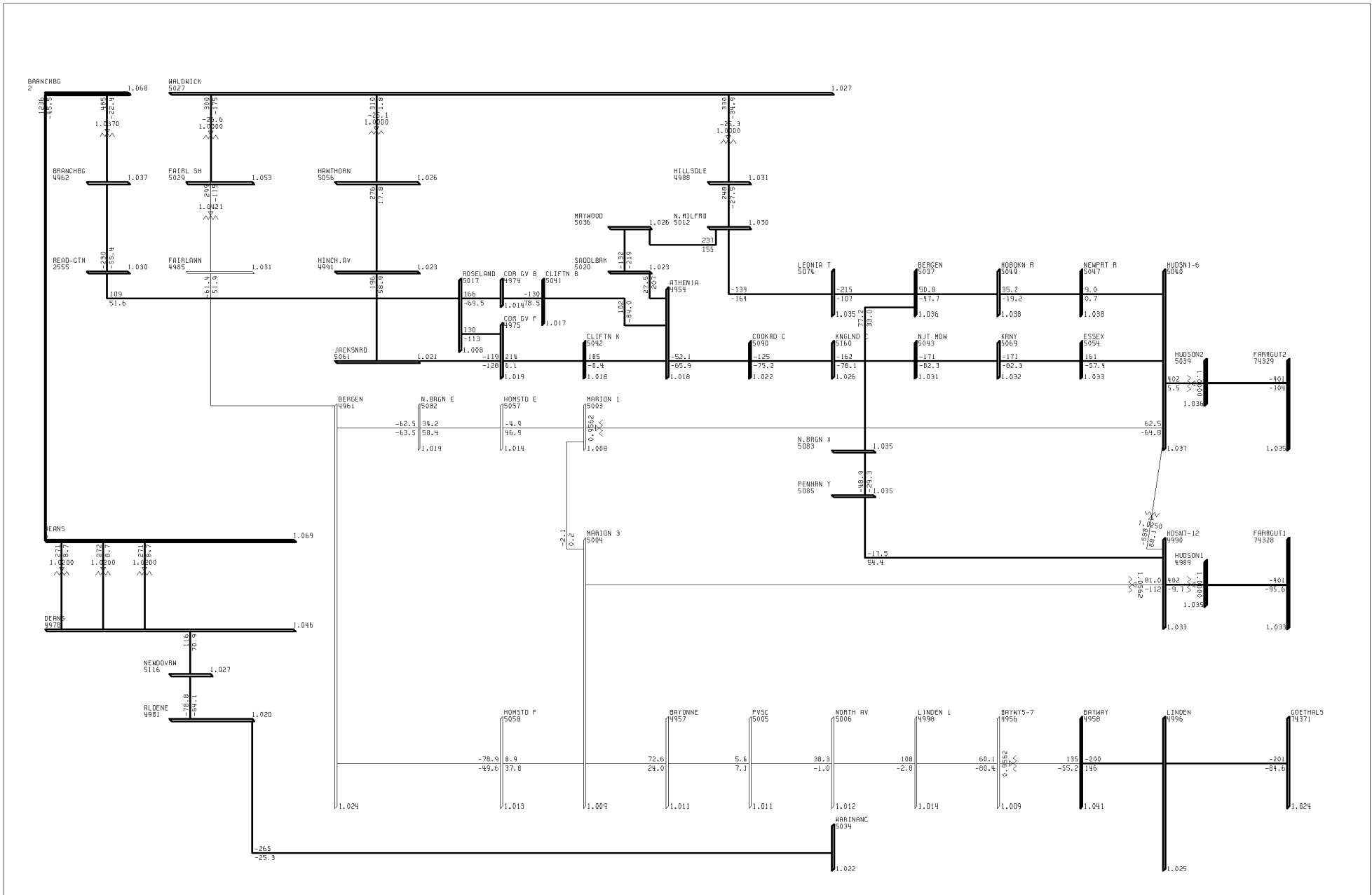
NYISO OPERATING STUDY
SUMMER 2004



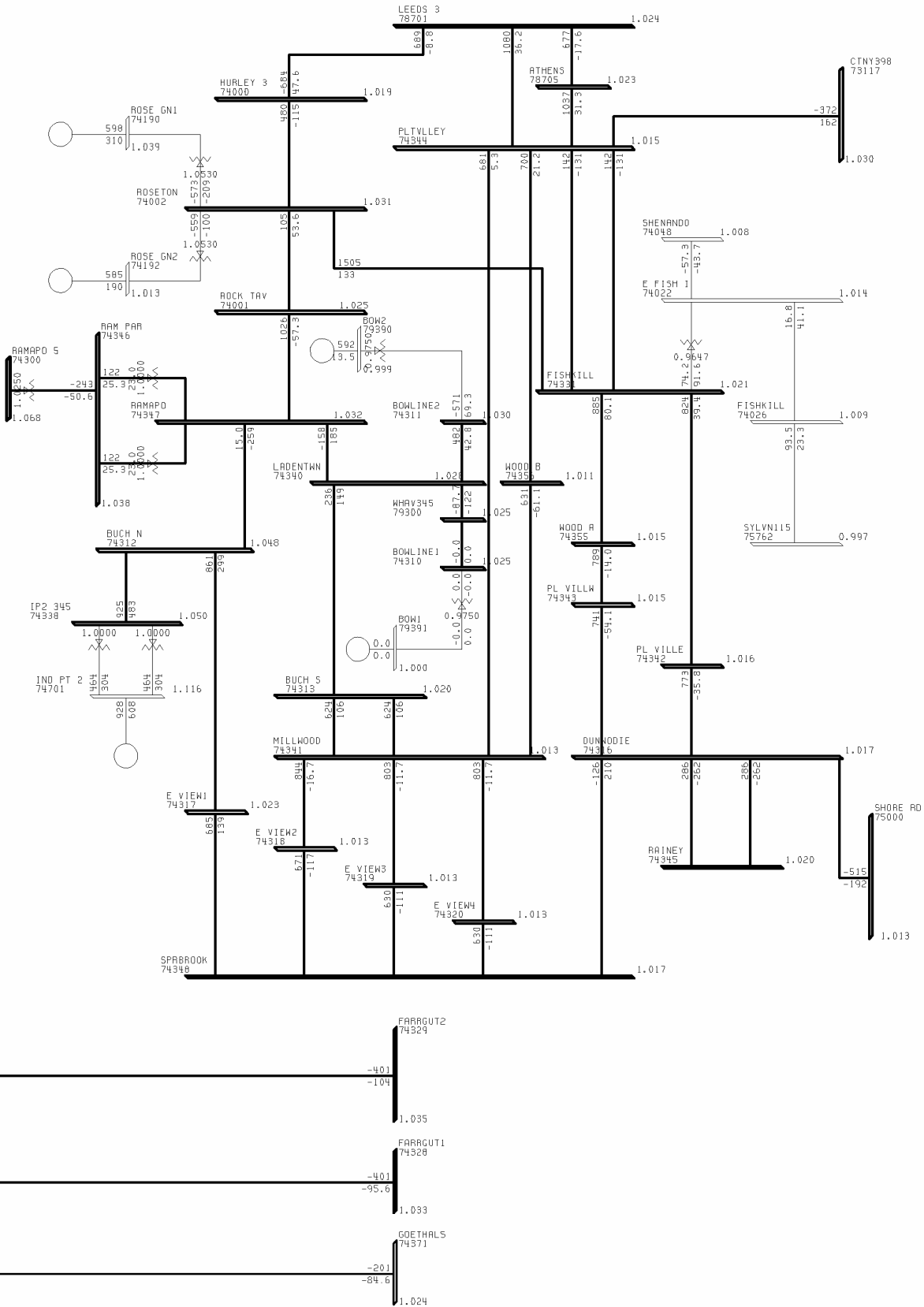
NYISO 2004 SUMMER OPERATING BASE CASE TRIAL 3A FINAL-2/4/04
R.O.W. REPRESENTATION FROM VEMN04S_BCD_TR6
POWER TECHNOLOGIES INC.
19) PJM THU, FEB 26 2004 11:05

KV: ≤20 .435 .5115

BUS - VOLTAGE (PU)
BRANCH - MW/MVAR
EQUIPMENT - MW/MVAR



NYISO 2004 SUMMER OPERATING BASE CASE TRIAL 3A FINAL-2/4/04
 R.O.W. REPRESENTATION FROM VEMN04S_BCD_TR6
 20) PSE&G THU, FEB 26 2004 11:05
 KW: ±138 .5230 .5315
 BUS - VOLTAGE (PU)
 BRANCH - MW/MVAR
 EQUIPMENT - MW/MVAR



APPENDIX D

RATINGS OF MAJOR TRANSMISSION FACILITIES
IN NEW YORK

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SUMMER ONLINE RATINGS

LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
ADRON B1 - MOSES W	MA-1	348	359	440	782	25269
ADRON B2 - MOSES W	MA-2	348	386	440	784	25270
ALBANY - AIR INDE	8	278	321	368	2817	25496
ALCOA N - GR-TAP1	MAL-6	218	253	291	792	25582
ALCOA-NM - ALCOA N	R8105	206	247	310	786	25202
ALCOA-NM - BRADY	13	128	147	159	787	25230
ALCOA-NM - BRADY	9	159	159	159	820	25230
ALCOA-NM - DENNISON	12	166	191	210	788	25227
ALLENS F - COLTON	3	119	128	152	846	25241
ALPS345 - N.SCOT77	2	1204	1326	1589	993	25217
ALPS345 - REYNLD3	1	459	562	755	994	25587
ANDRWS-4 - DENNISON	5	182	197	248	861	25226
ASTORIAE - CORONA	34186	154	239	387	133	25282
ASTORIAE - CORONA	34185	154	239	387	132	25281
ASTORIAE - CORONA	34184	154	239	387	131	25280
ASTORIAE - CORONA	34183	154	239	387	130	25279
ASTORIAE - CORONA	34182	154	239	387	129	25278
ASTORIAE - CORONA	34181	154	239	387	128	25277
ASTORIAE - HG 1	34052	161	245	393	134	25324
ASTORIAE - HG 4	34051	161	245	393	135	25323
ASTORIAW - HG 2	24054	140	186	186	146	25213
ASTORIAW - HG 3	24053	140	186	186	147	25212
ASTORIAW - HG 5	24051	177	249	480	148	25210
ASTORIAW - HG 6	24052	177	249	480	149	25211
ASTORIAW - QUENBRDG	28241	154	239	387	151	25315
ASTORIAW - QUENBRDG	28242	154	239	387	150	25316
ASTORIAW - QUENBRDG	28243	308	478	645	152	25317
ASTORIAW - QUENBRDG	28244	308	478	645	153	25318
BARRETT2 - BRRT PH	461	184	243	297	7	25155
BARRETT2 - VLY STRM	292	233	289	364	10	25313
BATAVIA1 - EBAT-107	107	119	128	152	636	25124
BATAVIA1 - NAKR-108	108	130	136	159	647	25125
BATAVIA1 - OAKFLDTP	112	128	136	159	446	25126
BELL-129 - MLPN-129	129	168	185	199	765	69854
BLISSVIL - WHITEHAL	K-37	187	217	239	1065	25028
BLUE LAK - LAKE RD	89/993	112	130	137	483	69353
BLUE LAK - RING69	89/993	112	130	137	483	69353
BNNINGTN - HOOSICK	K6	159	159	159	1022	25029
BORDR115 - FRMGTN-4	977/4	150	179	195	507	25057
BORDR115 - HYATT115	979	129	148	160	506	25106
BOWLINE1 - WHAV345	67	687	747	747	164	25567
BOWLINE2 - LADENTWN	68	687	747	747	166	25249
BRANCHBG - RAMAPO 5	5018	999	1303	1751	366	25019

SUMMER ONLINE RATINGS

LINE NAME	INE_ID	NORMAL	LTE	STE	MGF_NO	PTID	
BRDGPORT - PETRBORO	5	116	120	145		940	25896
BRDGPORT - TEALL	5	116	120	145		940	25896
BRSWAMP - ROTRDM.2	E205W	435	435	453		1063	25030
BUCH N - E VIEW1	W93	1720	1890	2401		175	25133
BUCH N - RAMAPO	Y94	1703	1890	2401		178	25184
BUCH S - LADENTWN	Y88	1703	1890	2401		180	25185
BUCH S - MILLWOOD	W98	1493	1680	1902		182	25146
BUCH S - MILLWOOD	W97	1493	1680	1902		181	25247
BUCH138 - MLWD TA	96952	275	302	384		173	25283
BUCH138 - MLWD TA	96951	275	302	384		172	25284
BURNS138 - WHAV138	530/531	224	260	274		473	68644
BURNS69 - TALLMAN	59/591	50	104	110		469	68642
CARLE PL - E.G.C.	361	250	288	322		18	25533
CARML115 - UNION115	991/992	215	247	270		190	68885
CATON115 - HICK 115	958/960	102	113	120		574	69341
CHURC115 - BL STR E	987/13	119	120	120		1002	68475
CLAY - 9MI PT1	8	1032	1271	1562		839	25167
CLAY - CLAY	BK#1	308	367	405		826	25387
CLAY - CLAY	BK#2	308	367	405		827	25421
CLAY - DEWITT 3	13	1032	1284	1434		835	25168
CLAY - DUGUID	5	193	213	240		829	25519
CLAY - HPKNS-11	11	220	239	239		831	25516
CLAY - HPKNS-11	10	116	120	145		834	25520
CLAY - PANNELL3	PC-2	1032	1284	1434		768	25050
CLAY - PANNELL3	PC-1	1032	1284	1434		769	25058
CLAY - VOLNEY	6	1032	1284	1434		838	25198
CLINTON - MARSH115	12-Nov	125	143	154		1012	68794
CLTNCORN - CLYDE199	971/3	108	128	145		510	25063
CLYDE199 - CLYDE 34	3	125	143	154		509	25221
COBHL115 - COBHIL34	906	40	41	45		513	25426
CODNT115 - ETNA 115	998	227	253	283		515	25734
CODNT115 - MONTR115	982	108	128	144		516	25728
COFFEEN - E WTRTWN	5	116	119	119		840	25504
COLDNHAM - ROCK TV1	J	232	265	311		417	69037
COOPC345 - COOPC115	#2	212	266	300		519	25433
COOPC345 - COOPC115	#3	232	296	300		520	25434
COOPC345 - FRASR345	FCC-33	1207	1404	1703		521	25236
COOPC345 - MARCY T1	UCC2-41	1345	1345	1345		2803	25113
CORONA1R - JAMAICA	18001	161	245	393		185	25285
CORONA2R - JAMAICA	18002	161	245	393		186	25286
CORTLAND - LABRADOR	3	125	143	154		855	25894
CORTLAND - TULLER H	947	108	128	143		631	25059
CROTN115 - UNION115	991/992	215	247	270		190	68885
CTNY398 - PLTVLLEY	398	1135	1317	1601		349	25033
DANSKAMA - DR CBLTP	DR	212	250	278		411	25831
DELPHI - LABRADOR	3	125	143	154		855	25894
DELPHI - OM-FENNR	3	125	143	154		855	25894
DENNISON - LWRNCE-B	4	182	197	248		796	25225

SUMMER ONLINE RATINGS

LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
DENNISON - LWRNCE-B	4	182	197	248		935 25225
DEWITT 3 - DEWITT 1	2	516	657	796	862	25418
DEWITT 3 - LAFAYTTE	22	1434	1434	1434	866	25174
DUN NO - DUN NO T	99941	295	418	472	196	25245
DUN NO - DUN SO	99997	226	317	342	194	25532
DUN NO1R - S CREEK	99031	137	231	290	197	25193
DUN NO2R - S CREEK	99032	137	231	290	198	25239
DUN SO - DUN SO T	99942	295	418	472	204	25246
DUN SO1R - E179 ST	99153LM	223	314	396	203	25287
DUNKIRK - DUNKIRK1	41	139	177	226	657	25386
DUNKIRK - DUNKIRK1	31	138	173	223	656	25430
DUNKIRK - GRDNVL2	73	556	637	637	663	25166
DUNKIRK - GRDNVL2	74	556	637	637	664	25197
DUNWODIE - DUN NO	W74	352	484	578	195	25209
DUNWODIE - DUN SO	W73	352	484	578	202	25208
DUNWODIE - PL VILLE	W89	1720	1976	2265	206	25182
DUNWODIE - PL VILLW	W90	1720	1976	2265	205	25250
DUNWODIE - RAINEY	72	715	817	1081	208	25191
DUNWODIE - RAINEY	71	715	817	1081	207	25151
DUNWODIE - SHORE RD	Y50	599	843	1397	115	25091
DUNWODIE - SPRBROOK	W75	2384	2708	3247	209	25071
E FISH I - FISHKILL	F33	412	497	531	2868	25724
E VIEW1 - EASTVIEW	87874	370	424	424	211	25471
E VIEW1 - SPRBROOK	W79	1720	2214	2657	224	25153
E VIEW2 - EASTVIEW	87873	370	424	424	210	25472
E VIEW2 - MILLWOOD	W82	2293	2708	3236	225	25147
E VIEW2 - SPRBROOK	W64	2293	2708	3236	223	25143
E VIEW3 - EASTVIEW	87872	370	424	424	212	25470
E VIEW3 - MILLWOOD	W99	2293	2708	3236	222	25255
E VIEW3 - SPRBROOK	W65	1720	2214	2657	226	25144
E VIEW4 - EASTVIEW	87871	370	424	424	2835	25373
E VIEW4 - MILLWOOD	W85	2293	2708	3236	325	25258
E VIEW4 - SPRBROOK	W78	2293	2708	3236	2834	25346
E.G.C. - NEWBRGE	462	218	280	364	24	25303
E.G.C. - NEWBRGE	465	216	311	424	26	25535
E.G.C. - ROSLYN	362	258	297	332	28	25534
E.G.C.-1 - E.G.C.	BK#2	444	556	761	2860	25552
E.NOR115 - JENN 115	946	80	110	131	530	25729
E.NOR115 - WILET115	945	108	128	145	531	25732
E.SAYRE - N.WAV115	956	90	124	124	608	25013
E.SPR115 - INGHAM-E	941	80	106	131	536	25061
E.TWANDA - HILSD230	70	483	531	554	582	25014
E.WALD 1 - ROCK TV1	D	232	265	311	416	69038
E13 ST - T11MPT	37375	273	288	315	228	25468
E13 ST - T13MPT	37377	261	288	315	233	25464
E13 ST - T14MPT	37373	251	280	305	230	25465
E15ST 45 - E13 ST	37372	274	312	343	229	25466
E15ST 45 - FARRAGUT	45	726	882	1258	234	25190

SUMMER ONLINE RATINGS

LINE NAME	INE_ID	NORMAL	LTE	STE	MGF_NO	PTID
E15ST 45 - T14MPT	37373	251	280	305	230	25465
E15ST 45 - W 49 ST	M55	774	866	1291	237	25222
E15ST 46 - E13 ST	37376	273	288	315	232	25463
E15ST 46 - FARRAGUT	46	726	882	1258	236	25251
E15ST 46 - T13MPT	37377	261	288	315	233	25464
E15ST 46 - W 49 ST	M54	774	866	1291	235	25228
E15ST 47 - ASTOR345	Q35L	538	621	1476	139	25134
E15ST 47 - E RIVER	44371	247	321	409	217	25459
E15ST 47 - E13 ST	37378	270	304	338	231	25469
E15ST 47 - FARRAGUT	B47	419	683	1124	238	25177
E15ST 48 - ASTOR345	Q35M	538	621	1476	140	25142
E15ST 48 - E13 ST	37374	251	280	305	227	25467
E15ST 48 - FARRAGUT	48	419	683	1124	239	25252
E15ST 48 - T11MPT	37375	273	288	315	228	25468
E179 ST - HG 1	15054	161	245	393	240	25290
E179 ST - HG 4	15053	161	245	393	241	25289
E179 ST - HG 6	15055	222	328	480	242	25288
E179 ST - PK-CITY1	38X01	108	151	189	243	25327
E179 ST - PK-CITY2	38X02	108	151	189	244	25328
E179 ST - PK-CITY3	38X03	108	151	189	245	25330
E179 ST - PK-CITY4	38X04	108	151	189	246	25329
E179 ST - S CREEK	15032	161	245	393	248	25156
E179 ST - S CREEK	15031	161	245	393	247	25157
EDIC - JA FITZP	FE-1	1434	1434	1912	867	25077
EDIC - MARCY T1	UE1-7	1677	1792	1792	868	25229
EDIC - N.SCOT77	14	1331	1538	1724	873	25170
EDIC - PORTER 1	BK#3/10	455	539	679	871	25424
EDIC - PORTER 1	BK#4/20	505	629	794	870	25454
EDIC - PORTER 2	BK#2/17	478	562	637	872	25422
ELBRIDGE - ELBRIDGE	BK#1	470	557	717	874	25448
ELBRIDGE - LAFAYTTE	17	940	1562	1912	880	25149
ELBRIDGE - OSWEGO	17	1206	1326	1685	881	25234
ELWOOD 1 - NRTHPRT2	681	352	504	604	33	25544
ELWOOD 2 - NRTHPRT2	678	352	504	604	2863	25543
ERIE E - S RIPLEY	69	499	607	617	665	25016
ETNA 115 - WILET115	945	108	128	145	540	25731
FARRAGUT - GOWANUSN	41	618	807	1183	260	25141
FARRAGUT - GOWANUSS	42	618	807	1183	261	25140
FARRAGUT - HAE TR1	32711	110	155	195	262	25293
FARRAGUT - RAINEY	63	661	758	1081	267	25152
FARRAGUT - RAINEY	62	694	791	1097	266	25253
FARRAGUT - RAINEY	61	661	758	1081	265	25254
FISHKILL - PL VILLE	F38/Y86	1839	2606	3105	270	25367
FISHKILL - PLTVLLEY	F36	1720	2214	2657	268	25256
FISHKILL - PLTVLLEY	F37	1720	2214	2657	269	25257
FISHKILL - SYLVN115	A/990	232	253	312	376	25066
FISHKILL - WOOD A	F39	1839	2606	3400	271	25368
FOXHLLS1 - GREWOOD	29231	154	239	387	276	25321

SUMMER ONLINE RATINGS

LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
FOXHLLS2 - GREWOOD	29232	154	239	387	278	25322
FR KILLS - FRKILLR2	TA1	275	387	486	283	25457
FR KILLS - FRKILLSR	TB1	272	372	440	284	25458
FR KILLS - GOTHLS N	22	982	1391	1624	285	25137
FR KILLS - GOTHLS S	21	920	1010	1283	286	25138
FR-KILLS - FRKILLR2	21192	275	387	486	2804	25639
FR-KILLS - FRKILLSR	21192	272	372	440	280	25640
FR-KILLS - WILOWBK1	29211-2	169	271	452	282	25319
FR-KILLS - WILOWBK2	29212-1	169	271	452	281	25320
FRASR345 - EDIC	EF24-40	1380	1380	1380	2802	25112
FRASR345 - FRASR115	BK#2	305	386	420	2851	25391
FRASR345 - GILB 345	GF5-35	1428	1524	1524	544	25060
FRASR345 - OAKDL345	32	1255	1380	1380	543	25235
FRMGTN-4 - PANNELLI	4	207	247	280	887	25080
GALEVILE - KERHNKMK	MK	33	41	44	425	69391
GALEVILE - MODENA 6	MK	33	41	44	425	69391
GARDV115 - LANGN115	903/904	139	163	183	524	68914
GARDV115 - STOLE115	925	203	226	239	547	25116
GARDV230 - GARDN M6	#6	316	409	420	545	25405
GARDV230 - GARDN M7	#7	204	246	300	546	25435
GARDV230 - GRDNVL2	T8-12	663	739	773	550	25089
GARDV230 - STOLE230	66	474	478	478	549	25180
GERES LK - SOREL-9	9	142	151	185	890	25510
GINNA115 - PANNELLI	912	207	247	285	1074	25260
GLNWD GT - ROSLYN	364	291	320	372	42	25556
GLNWD NO - SHORE RD	366	447	500	572	44	25154
GLNWD SO - CARLE PL	363	291	321	372	19	25554
GLNWD SO - SHORE RD	365	492	549	630	46	25205
GOETH T - GOETHALS	BKA2253	528	727	817	287	25642
GOTHLS N - GOWANUSN	25	460	683	1022	290	25139
GOTHLS R - GOETH T	BKA2253	528	727	817	287	25642
GOTHLS S - GOWANUSS	26	460	683	1022	291	25571
GOUDY115 - S.OWE115	961	112	131	143	555	25725
GOWANUSN - GOWNUS1T	T2	238	276	328	292	25476
GOWANUSS - GOWNUS2T	T14	238	276	328	293	25475
GOWNUS1R - GREWOOD	42232	226	301	409	301	25214
GOWNUS2R - GREWOOD	42231	226	301	409	297	25215
GRDNVL2 - GRDNVL1	2	257	280	354	677	25385
GRDNVL2 - GRDNVL1	4	141	183	250	679	25417
GRDNVL2 - GRDNVL1	3	141	182	250	678	25416
GRDNVL2 - SUNY-79	79	566	654	755	690	25165
GRDNVL2 - SUNY-80	80	566	654	755	691	25196
GREWOOD - VERNON-E	31231-2	154	239	387	305	25298
GREWOOD - VERNON-E	31232-2	154	239	387	304	25299
HAE TR1 - HUDAVE E	32077	110	155	195	264	25291
HAE TR3 - HUDAVE E	32078	110	155	195	263	25292
HAMLT115 - ELBRIDGE	983	125	143	154	878	69053
HAMLT115 - FARMGTN1	983	125	143	154	884	69138

SUMMER ONLINE RATINGS

LINE NAME	INE_ID	NORMAL	LTE	STE	MGF_NO	PTID
HAMLT115 - HAMLTN34	1	30	37	56	563	25394
HAR69 - SLOSBURG	31/311	112	130	137	479	69318
HCOR69 - WNYA69	751	65	76	79	478	69314
HILB69 - RING69	89/993	112	130	137	483	69353
HILB69 - SLOSBURG	31/311	112	130	137	479	69318
HILB69 - TALLMAN	59/591	50	104	110	469	68642
HILSD230 - HILSD M3	BK#3	231	294	336	576	25397
HILSD230 - WATRC230	69	504	584	657	581	25181
HINMN115 - LOCKPORT	100	220	252	280	585	25087
HOLBROOK - NYPAHOLT	888	703	817	935	2927	25542
HOLBROOK - PT JEFF1	886	284	312	373	61	25540
HOLBROOK - WADNGRV1	884	328	392	434	70	25341
HOMER CY - STOLE345	37	605	757	840	630	25036
HOMER CY - WATRC345	30	926	927	927	635	25018
HONK FLS - KERHNKMK	MK	33	41	44	425	69391
HUDAVE E - JAMAICA	702	129	213	366	317	25295
HUDAVE E - JAMAICA	701	129	213	366	316	25294
HUDSON1 - FARRGUT1	B3402	519	699	795	257	25020
HUDSON2 - FARRGUT2	C3403	497	705	761	259	25038
HUNT - ST.FORES	89/993	112	130	137	483	69353
HUNT - WISNER	89/993	112	130	137	483	69353
HUNTLEY1 - S129-39	38	129	151	185	703	69428
HUNTLEY1 - ZRMN-130	129	168	181	199	705	69426
HUNTLEY2 - HNTLY68G	BK455	432	558	674	2939	25664
HURLEY 3 - HURLEY 1	BK 1	419	481	488	431	25419
HURLEY 3 - LEEDS 3	301	1395	1623	1870	435	25055
HURLEY 3 - ROSETON	303	1395	1623	1870	434	25218
HYATT115 - ELBRIDGE	15	129	148	160	587	25109
INGMS-CD - INGHAM-E	2	167	197	239	898	25242
JAMAICA - L SUCSPH	903	238	341	428	78	25090
JAMAICA - V STRM P	901L+M	272	361	441	118	25048
KINTI345 - NIAG 345	NS1-38	1301	1501	1685	623	25074
KINTI345 - ROCH 345	SR1-39	1301	1501	1685	624	25073
KNAPPS 6 - LAGRANGE	G	41	44	51	438	69534
LADENTWN - RAMAPO	W72	1720	1890	2401	320	25233
LADENTWN - WHAV345	67	1720	2214	2657	321	25248
LAKE RD - ST.FORES	89/993	112	130	137	483	69353
LAUREL L - GOUDY115	952	108	128	143	556	25012
LCST GRV - NEWBRGE	558	359	466	568	2898	25158
LEEDS 3 - ATHENS	95	1331	1538	1724	2929	25789
LEEDS 3 - GILB 345	GL-3	1428	1605	1912	1017	25219
LEEDS 3 - N.SCOT77	93	1331	1538	1724	1029	25171
LEEDS 3 - N.SCOT99	94	1331	1538	1724	1028	25203
LINDEN - GOETHALS	A2253	511	708	736	288	25017
LOCKPORT - NAKR-108	108	130	136	165	712	25266
LOCKPORT - OAKFLDTP	112	131	144	159	646	25300
LOCKPORT - SHEL-113	113	143	165	180	718	25263
LOCKPORT - SOUR-111	111	131	144	159	717	25262

SUMMER ONLINE RATINGS

LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
LOCKPORT - TELRDTP1	107	199	199	199	637	25265
LOCKPORT - TELRDTP1	114	143	165	180	721	25264
LONGTAP - NIAG115E	GV-180	160	166	206	681	25104
LTHSE HL - BLACK RV	6	106	114	134	805	25506
LTHSE HL - E WTRTWN	5	116	119	119	840	25504
MACDN115 - QUAKER	930	60	75	112	594	25093
MALONE - NICHOLVL	3	119	128	152	905	25585
MALONE - WILL 115	WM-1	129	159	175	906	25586
MANY393 - ALPS345	393	1434	1649	1912	995	25034
MARCY765 - MARCY T1	MAR-AT2	1488	1793	2338	908	25456
MARCY765 - MARCY T1	MAR-AT1	1488	1654	1654	907	25455
MARCY765 - MASS 765	MSU1	3975	3975	5300	911	25224
MASS 765 - CHA-NY	MSC7040	3975	3975	5300	825	25301
MASS 765 - MASS230A	MAS-AT1	936	1151	1348	912	25665
MASS 765 - MASS230B	MAS-AT2	936	1151	1348	914	25666
MASS230A - MOSES E	MMS1	936	1151	1348	913	25274
MASS230B - MOSES E	MMS2	936	1151	1348	915	25275
MEYER230 - MEYER M4	BK#4	231	294	336	595	25398
MEYER230 - STOLE230	67	430	494	540	598	25064
MILAN - N.CAT. 1	T7	124	138	159	441	69719
MILAN - PL.VAL 1	R10	129	166	206	338	69896
MILLWOOD - MLWD TA	96922	216	307	346	323	25530
MILLWOOD - MLWD TA	96921	205	297	321	322	25531
MILLWOOD - WOOD B	W80	1720	2214	2657	326	25148
MLPN-129 - PACK(S)W	133	168	181	199	465	69854
MLPN-130 - PACK(S)W	130	168	181	206	764	69855
MLPN-130 - SUMIT PK	130	168	181	206	764	69855
MORAI115 - BENET115	966	125	152	179	503	68439
MORTIMER - PTSFD-24	NMP #24	129	148	160	728	25096
MORTIMER - S80 3TR	904	227	251	284	732	25081
MORTIMER - STA 89	NMP#25	114	123	142	729	25095
MORTIMER - SWDN-111	111	129	136	153	723	25347
MOS 115 - GR-TAP1	MAL-6	218	253	291	792	25582
MOSES W - MOS 115	SL-AT1	401	490	646	922	25411
MOSES W - MOS 115	SL-AT2	401	490	646	923	25451
MOSES W - MOS 115	SL-AT3	192	240	287	920	25452
MOSES W - MOS 115	SL-AT4	537	598	773	921	25453
MOSES W - WILLIS E	MW-2	349	418	512	927	25188
MOSES W - WILLIS W	MW-1	349	418	512	926	25271
MOSES E - STLAWL33	L33P	240	259	334	929	25026
MOSES E - STLAWL34	L34P	300	336	466	930	25037
MOUNTAIN - NIAG115E	MT-121	176	211	240	2902	25070
MOUNTAIN - NIAG115E	MT-122	176	211	240	2903	25072
MTNS-120 - NIAG115E	MT-120	176	211	239	733	25135
N.M.TAP - SHOEMTAP	BK114	448	548	600	2920	26465
N.SCOT1 - AIR INDE	8	278	321	368	2817	25496
N.SCOT1 - RTRDM1	13	241	265	318	1041	25494
N.SCOT77 - N.SCOT1	BK#1	458	474	489	1039	25445

SUMMER ONLINE RATINGS

LINE NAME	INE_ID	NORMAL	LTE	STE	MGF_NO	PTID
N.SCOT99 - GILB 345	GNS-1	1242	1386	1589	1018	25052
N.SCOT99 - MARCY T1	UNS-18	1488	1792	1792	910	25276
N.SCOT99 - N.SCOT1	BK#2	455	461	484	2816	25460
N.WAV115 - CHEMU115	962	112	131	143	577	25726
N.WAV115 - LOUNS115	962	112	131	143	607	25727
NI.B-181 - PACK(N)E	181/922	124	139	159	737	69816
NIAG 345 - BECK A	PA302	1070	1322	1714	759	25041
NIAG 345 - BECK B	PA301	1070	1322	1714	758	25040
NIAG 345 - NIAGAR2E	N-AT5	384	479	575	745	25408
NIAG 345 - NIAGAR2E	N-AT3	384	479	575	744	25450
NIAG 345 - NIAGAR2W	N-AT4	767	943	1104	752	25449
NIAG 345 - ROCH 345	NR2	1301	1501	1685	757	25084
NIAGAR2W - NIAG115E	N-AT1	192	239	288	739	25409
NIAGAR2W - NIAG115W	N-AT2	249	359	424	747	25410
NIAGAR2W - PA27 REG	PA27	400	460	558	756	25025
NORHR138 - NRTHPT P	1385A+B	271	318	428	90	25035
NRTHPRT1 - NRTHPRT2	BUS/PS2	406	505	570	91	25599
NRTHPRT1 - PILGRIM	679	409	535	604	93	25309
OAKDL230 - OAKDL115	BK#1	275	400	440	609	25400
OAKDL345 - LAFAYTTE	Apr-36	1255	1380	1380	614	25049
OAKDL345 - OAK2M115	BK#3	428	556	600	571	25399
OAKDL345 - OAK3M115	BK#2	428	556	600	610	25401
OAKDL345 - WATRC345	31	926	1076	1076	613	25178
OAKWOOD - SYOSSET	675	269	358	541	96	25547
OC W +MG - UNVL 9TP	2	116	120	145	450	25067
ONEIDA - PETRBORO	5	116	120	145	940	25896
OSW 3&4 - S OSWEGO	5	209	239	239	952	25508
OSW 3&4 - S OSWEGO	8	400	462	478	953	25509
OSWEGO - OSW 3&4	BK 7	496	552	690	966	25372
OSWEGO - VOLNEY	11	1200	1326	1685	948	25199
OSWEGO - VOLNEY	12	1200	1326	1685	949	25201
PACK(N)E - NIAG115E	PK-191	248	299	354	742	25075
PACK(N)E - NIAG115E	PK-192	248	299	354	741	25099
PACK(S)W - NIAG115W	PK-194	248	299	354	750	25100
PACK(S)W - NIAG115W	PK-193	248	299	354	749	25101
PACK(S)W - NIAG115W	PK-195	233	253	335	751	25102
PACKARD2 - BP76 REG	BP76	478	492	569	763	25024
PACKARD2 - NIAGAR2W	PK-62	620	717	841	755	25186
PACKARD2 - NIAGAR2W	PK-61	620	717	841	754	25220
PACKARD2 - PACK(N)E	3	141	182	250	760	25414
PACKARD2 - PACK(S)W	2	106	136	183	761	25383
PACKARD2 - PACK(S)W	4	141	182	250	762	25415
PALMT115 - ANDOVER1	932	78	85	98	615	25094
PALOMA - S OSWEGO	6	114	120	142	903	25513
PALOMA - S OSWEGO	6	116	120	145	954	25513
PANNELL3 - PANNELLI	122 2TR	235	280	290	771	25396
PANNELL3 - PANNELLI	122 1TR	235	280	290	770	25431
PANNELLI - QUAKER	914	207	247	285	1081	25261

SUMMER ONLINE RATINGS

LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
PANNELLI - QUAKER	883/889	468	515	654	67	25682
PANNELLI - QUAKER	925	276	306	356	136	25682
PARK TR1 - PARK1REG	R11	262	300	340	330	25649
PARK TR2 - PARK2REG	R12	262	300	340	333	25650
PAWLN115 - SYLVN115	990/994	176	179	179	188	68887
PL VILLE - PLTVILLE	1	59	67	67	345	25477
PL VILLW - PLTVILLE	2	59	67	67	344	25478
PL VILLW - WOOD A	Y87	1839	2606	3105	352	25132
PL.VAL 1 - PLTVLLEY	BK S1	415	450	450	334	25382
PLAT 115 - T MIL RD	PS-1/B	96	123	150	959	25078
PLAT T#1 - WILLIS E	WP-1	170	203	249	967	25272
PLAT T#4 - WILLIS W	WP-2	170	203	249	956	25273
PLTVLLEY - ATHENS	91	1331	1538	1724	347	25054
PLTVLLEY - LEEDS 3	92	1331	1538	1724	348	25056
PLTVLLEY - WOOD B	F30	1720	2214	2657	346	25237
PORTER 1 - ILION	5	116	120	145	896	25232
PORTER 1 - ILION	2	116	120	145	991	25232
PORTER 1 - VALLEY	4	116	120	145	973	25231
PORTER 2 - ADRON B1	AP11	321	353	449	783	25051
PORTER 2 - ADRON B2	AP12	321	353	449	785	25082
PORTER 2 - PORTER 1	2	268	320	338	972	25389
PORTER 2 - PORTER 1	1	268	320	338	971	25423
PORTER 2 - ROTRDM.2	30	440	505	560	974	25173
PORTER 2 - ROTRDM.2	31	439	505	560	975	25194
PTSFD-24 - PANNELLI	24	129	148	160	1079	69863
PTSFD-25 - PANNELLI	25	114	123	142	1080	69862
QUENBRDG - VERNON-E	31282	308	478	602	354	25159
QUENBRDG - VERNON-W	31281	312	542	602	353	25160
RAINEY - 8E DUM	36311	271	317	359	358	25296
RAINEY - 8W DUM	36312	240	281	313	359	25297
RAM PAR - RAMAPO	BK4500	545	741	999	2806	25370
RAM PAR - RAMAPO	BK3500	545	741	999	2805	25371
RAMAPO - RAMP138	1300	391	513	669	363	25441
RAMAPO - RAMP138	2300	391	513	669	362	25442
RAMAPO - SMAHWAH1	69	1226	1737	2271	364	25021
RAMAPO - SMAHWAH2	70	1720	1890	2401	365	25259
RAMAPO 5 - RAM PAR	1500	995	1304	1752	360	25656
REYNLD3 - REY. RD.	BK#2	459	562	755	1050	25403
ROBIN230 - NIAGAR2E	RR-64	496	598	704	618	25088
ROBIN230 - ROBIN M1	BK#1	297	367	420	616	25395
ROBIN230 - STOLE230	65	550	637	717	617	25065
ROCH 345 - PANNELL3	RP-1	1301	1501	1685	767	25192
ROCH 345 - PANNELL3	RP-2	1301	1501	1685	766	25172
ROCH 345 - S80 3TR	BK #3TR	245	296	360	774	25446
ROCK TAV - COOPC345	CRT-42	1554	1733	1793	2801	25111
ROCK TAV - ROCK TV1	BK TR1	396	445	446	457	25406
ROCK TAV - ROCK TV1	BK TR3	396	459	519	2930	26168
ROCK TAV - ROSETON	311	1395	1623	1870	458	25069

SUMMER ONLINE RATINGS

LINE NAME	INE_ID	NORMAL	LTE	STE	MGF_NO	PTID
ROSETON - FISHKILL	RFK-305	1935	2677	3137	272	25108
RTRDM1 - ROTRDM.2	BK#6	345	375	522	1056	25407
RTRDM1 - ROTRDM.2	BK#7	300	355	402	1057	25392
RTRDM1 - ROTRDM.2	BK#8	326	369	423	1058	25413
S.PER115 - STA 162	T224	125	152	180	625	25062
SANBORNT - NIAG115E	LK-101	233	253	318	713	25267
SARANAC - T MIL RD	PS-1/B	96	123	150	959	25078
SCRIBA - 9M PT 2G	23	1670	1931	2211	981	70513
SCRIBA - 9MI PT1	9	994	1109	1271	980	25359
SCRIBA - JA FITZP	FS-10	1434	1434	1912	900	25076
SCRIBA - VOLNEY	20	1200	1396	1686	978	25204
SCRIBA - VOLNEY	21	1670	1912	1912	979	25314
SGRLF69 - WISNER	89/993	112	130	137	483	69353
SHEL-113 - SWDN-113	113	129	149	153	724	25263
SHORE RD - L SUCS	368	228	317	518	76	25150
SHORE RD - L SUCS	367	228	317	518	75	25145
SHORE RD - SHORE RD	BK#2	457	569	731	114	25440
SHORE RD - SHORE RD	BK#1	457	569	731	113	25439
SLEIG115 - QUAKER	NMP #13	150	170	189	621	25079
SMAHWAH1 - SMAH138	258	436	528	602	496	25393
SNBRN102 - NIAG115E	LK-102	233	253	318	743	25103
SOUR-114 - MORTIMER	114	129	149	153	725	25349
SPRBROOK - REACBUS	Y49	637	900	1329	2856	25105
SPRBROOK - TREMONT	X28	452	656	879	373	25175
SPRBROOK - W 49 ST	M52	774	866	1291	375	25223
SPRBROOK - W 49 ST	M51	774	866	1291	374	25053
STATE115 - CLTNCORN	971/3	108	128	145	510	25063
STATE115 - ELBRIDGE	972/5	108	128	145	627	25107
STILV115 - HANCO115	954/955	102	113	120	565	69271
STOLE345 - STOLE115	#4	305	387	420	629	25462
STOLE345 - STOLE115	#3	300	370	420	628	25461
SUGARLF - ROCK TV1	SL/6108	159	183	195	498	25420
TEALL - ONEIDA	2	116	120	145	939	25895
TREMONT - PARK TR1	R11	215	301	379	350	25473
TREMONT - PARK TR2	R12	215	301	379	351	25474
VOLNEY - MARCY T1	VU-19	1434	1793	1912	909	25345
W.WDB115 - W.WDBR69	T152	48	50	50	467	25404
WALDWICK - SMAHWAH1	J3410	589	843	1094	2304	25032
WALDWICK - SMAHWAH2	K3411	602	881	1150	2305	25039
WARREN - FALCONER	171	82	120	136	673	25015
WATRC345 - WATRC230	BK#1	452	584	600	634	25402
WHAV345 - WHAV138	BK#194	432	558	674	382	25447
WHITMAN - ONEIDA	3	125	143	154	855	25894
WILLIS E - WILL 115	WIL-AT1	150	184	216	984	25388
WILLIS W - WILL 115	WIL-AT2	150	184	216	983	25390
WOODA345 - WOODS115	BK#1	327	409	420	384	25437
WOODB345 - WOODS115	BK#2	325	406	420	383	25438
WOODS115 - AMWLK115	996	215	247	275	327	25574

SUMMER ONLINE RATINGS

LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
WYANT115 - REY. RD.	13	186	214	237	1052	69928

APPENDIX E

**INTERFACE DEFINITIONS
AND
GENERATION CHANGES ASSUMED
FOR THERMAL ANALYSIS**

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NYISO OPERATING INTERFACES & OASIS TRANSMISSION PATHS

CENTRAL EAST		
Name	Line ID	Voltage (kV)
Edic-New Scotland*	14	345
Marcy-New Scotland*	UNS-18	345
Porter-Rotterdam*	30	230
Porter-Rotterdam*	31	230
*Plattsburgh - Grand Isle	PV-20	115
East Springfield - Inghams*	942	115
Inghams Bus Tie	PAR	115

TOTAL EAST		
Central-Capital/MidHudson		
Name	Line ID	Voltage (kV)
Coopers-Middletown*	CCRT-34	345
Coopers-Rock Tavern*	CCRT-42	345
Edic-New Scotland*	14	345
*Fraser-Gilboa	35	345
Marcy-New Scotland*	UNS-18	345
Porter-Rotterdam*	30	230
Porter-Rotterdam*	31	230
East Springfield - Inghams*	942	115
Inghams Bus Tie	PAR	115
West Woodbourne*115/69	T152	115/69
PJM East-Capital/MidHudson		
Branchburg-Ramapo*	5018	500
*Waldwick- S.Mahwah	J3410	345
* Waldwick-S.Mahwah	K3411	345
PJM East-New York City		
Hudson-Farragut*	C3403	345
Hudson-Farragut*	B3402	345
Linden-Goethals*	A2253	230
Adirondack-ISO-NE		
*Plattsburgh-Grand Isle	PV-20	115
PJM (Rockland Electric) - MidHudson		
Closter – Sparkill	751	69
Harings Corners – W. Nyack	701	69
Harings Corners – Burns	702	138
Montvale – Pearl River	491	69
Harings Corners – Pearl River	45	34
S. Mahwah – Ramapo	51	138
S. Mahwah - Hilburn	65	69
S. Mahwah 138/345		138/345

* indicates the metered end of circuit

MOSES SOUTH			
Adirondack-Central			
Name	Line ID	Voltage (kV)	
*Massena-Marcy	MSU1	765	
*Moses-Adirondack	MA-1	230	
*Moses-Adirondack	MA-2	230	
*Dennison-Colton	4	115	
*Dennison-Colton	5	115	
*Alcoa-N. Ogdensburg	13	115	
Malone-Colton*	3	115	

DYSINGER EAST			
Frontier-Genessee			
Name	Line ID	Voltage (kV)	
*AES Somerset-Rochester (Sta 80)	SR-1/39	345	
Niagara-Rochester*	NR2	345	
*Stolle-Meyer	67	230	
*Andover - Palmiter	932	115	
*Lockport-Batavia	107	115	
*Lockport-N. Akron	108	115	
*Lockport-Oakfield	112	115	
*Lockport-Sweden 1	111	115	
*Lockport-Sweden 3	113	115	
*Lockport-Telegraph	114	115	

WEST CENTRAL			
Genessee-Central			
Name	Line ID	Voltage (kV)	
Pannell Road-Clay	PC-1	345	
Pannell Road-Clay*	PC-2	345	
*Stolle-Meyer	67	230	
*Andover - Palmiter	932	115	
*QuakeMacedon	930	115	
*Mortimer-Hood Rd- Elbridge	1/7	115	
*Mortimer-Elbridge	2	115	
*Pannell-Farmington	4	115	
*Station 121-Sleight Road		115	
St. 162 - S. Perry	906	115	
*Clyde 199-Sleight Rd		115	
Clyde 199-Clinton Corn		115	
Hook Rd (RGE-NMPC)	TB#3	34.5/115	
(Farmington 34.5/115kV)	#1	34.5/115	
(Farmington 34.5/ 115kV)	#4	34.5/115	

* indicates the metered end of circuit

UPNY-CONED		
Capital/MidHudson-Westchester		
Name	Line ID	Voltage(kV)
Ladentown-Buchanan South*	Y88	345
*Pleasant Valley-Wood St.	F30	345
*Pleasant Valley-E. Fishkill	F36	345
*Pleasant Valley-E. Fishkill	F37	345
*Pleasant Valley-Millwood	F31	345
*Ramapo-Buchanan North	Y94	345
Roseton-E. Fishkill*	305	345
East Fishkill – Sylvan Lake	A/990	115
East Fishkill 115/345		115/345

SPRAINBROOK-DUNWOODIE SOUTH		
Name	Line ID	Voltage(kV)
*Dunwoodie-Rainey	71	345
*Dunwoodie-Rainey	72	345
Sprainbrook-Tremont*	28	345
*Sprainbrook-West 49th Street	M51	345
*Sprainbrook-West 49th Street	M52	345
*Lake Success-Jamaica	903	138
*Valley Stream-Jamaica	901L/M	138
*Dunwoodie-Sherman Creek	99031	138
Dunwoodie-Sherman Creek*	99032	138
*Dunwoodie-East 179th Street	99153	138

NYISO-ISO-NE		
Adirondack-ISO-NE		
Name	Line ID	Voltage (kV)
*Plattsburgh-Grand Isle	PV-20	115
Capital/MidHudson-ISO-NE		
*Alps-Berkshire	393	345
*Pleasant Valley-Long Mnt.	398	345
Rotterdam-Bear Swamp*	E205W	230
North Troy-Bennington*	6	115
*Whitehall-Rutland (Velco)	7/K37	115
*Smithfield-Salisbury		69
Long Island-ISO-NE		
*Northport-Norwalk	1385	138

* indicates the metered end of circuit

PJM-NYISO		
PJM East-New York City		
Name	Line ID	Voltage (kV)
Hudson-Farragut*	C3403	345
Hudson-Farragut*	B3402	345
Linden-Goethals*	A2253	230
PJM West-Central		
*Homer City-Watercure	30	345
E. Towanda-Hillside*	70	230
Tiffany-Goudey*	952	115
*E. Sayre-N. Waverly	956	115
PJM West-Frontier		
*Homer City-Stolle Road	37	345
Erie South-South Ripley*	69	230
*Warren-Falconer	171	115
PJM East-Capital/MidHudson		
Branchburg-Ramapo*	5018	500
*Waldwick-S.Mahwah	J3410	345
*Waldwick-S.Mahwah	K3411	345
PJM (Rockland Electric) - MidHudson		
Closter – Sparkill	751	69
Harings Corners – W. Nyak	701	69
Harings Corners – Burns	702	138
Montvale – Pearl River	491	69
Harings Corners – Pearl River	45	34
S. Mahwah – Ramapo	51	138
S. Mahwah - Hilburn	65	69
S. Mahwah 138/345		138/345
IMO (Ontario)-NYISO		
Ontario East-Adirondack		
Name	Line ID	Voltage (kV)
St. Lawrence-Moses*	L33P	240
St.Lawrence-Moses*	L34P	230
Ontario South-Frontier		
Beck-Niagara*	PA301	345
Beck-Niagara*	PA302	345
Beck-Niagara*	PA27	230
*Beck-Packard	BP76	230

* indicates the metered end of circuit

CONED - LIPA		
Westchester - Long Island		
Name	Line ID	Voltage (kV)
*Dunwoodie-Shore Road	Y50	345
*Sprainbrook-East Garden City	Y49	345
New York City - Long Island		
Jamaica-Valley Stream*	901L/M	138
Jamaica-Lake Success*	903	138

* indicates the metered end of circuit

GENERATION PARTICIPATION FOR INTERFACES

<----- STUDY SYSTEM -----> <----- OPPOSING SYSTEM ----->
<----- GENERATOR MW -----> <----- GENERATOR MW ----->

BUS NAME BASE SHIFT CHANGE BUS NAME BASE SHIFT CHANGE

DYSINGER EAST, WEST CENTRAL

80900	LAKEVWG518.0	200.5	233.9	33.3	74190	ROSE GN124.0	598.5	590.5	-8.0
81422	LENNOXG220.0	137.4	170.7	33.3	74702	RAV 3 22.0	966.0	940.0	-26.0
81425	LENNOXG420.0	498.5	531.9	33.3	74703	AK 2 20.0	300.0	292.0	-8.0
					74705	AST 4 20.0	361.0	353.0	-8.0
					79390	BOW2 20.0	592.0	580.0	-12.0
					79546	POLETTI 26.0	825.0	807.0	-18.0
					74907	NRTPTG2 22.0	358.0	348.0	-10.0
					74908	NRTPTG3 22.0	358.0	348.0	-10.0

TOTAL EAST, CENTRAL EAST

80900	LAKEVWG518.0	200.5	215.5	15.0	74302	ER G7 13.2	166.0	152.0	-14.0
81765	NANTICG622.0	492.7	507.7	15.0	74702	RAV 3 22.0	966.0	938.0	-28.0
76641	DUNKGEN413.8	185.0	190.0	5.0	74705	AST 4 20.0	361.0	351.0	-10.0
77051	HNTLY68G13.8	180.0	185.0	5.0	74706	AST 5 20.0	361.0	349.0	-12.0
77951	9M PT 1G23.0	617.4	667.4	50.0	79390	BOW2 20.0	592.0	582.0	-10.0
79515	MOS19-2013.8	114.0	124.0	10.0	79546	POLETTI 26.0	825.0	806.0	-19.0
					74906	NRTPTG1 22.0	358.0	351.0	-7.0

SPRAINBROOK/DUNWOODIE SOUTH

80900	LAKEVWG518.0	200.5	245.5	45.0	74702	RAV 3 22.0	966.0	936.0	-30.0
81422	LENNOXG220.0	137.4	192.4	55.0	74703	AK 2 20.0	300.0	290.0	-10.0
					74705	AST 4 20.0	361.0	351.0	-10.0
					79546	POLETTI 26.0	825.0	795.0	-30.0
					74907	NRTPTG2 22.0	358.0	348.0	-10.0
					74908	NRTPTG3 22.0	358.0	348.0	-10.0

UPNY - CONED

80900	LAKEVWG518.0	200.5	287	20	74302	ER G7	13.2	166.0	159.0	-7.0
81422	LENNOXG220.0	137.4	590	40	74702	RAV 3	22.0	966.0	936.0	-30.0
					74705	AST 4	20.0	361.0	341.0	-20.0
					74706	AST 5	20.0	361.0	351.0	-10.0
					74707	RAV 1	20.0	370.0	355.0	-15.0
					74907	NRTPTG2	22.0	358.0	340.0	-18.0

MOSES - SOUTH

79513	MOS17-1813.8	54.1	104.1	50.0	74702	RAV 3	22.0	966.0	956.0	-10.0
79516	MOS21-2213.8	114.0	164.0	50.0	76641	DUNKGEN413.8		185.0	175.0	-10.0
					77051	HNTLY68G13.8		180.0	170.0	-10.0
					77951	9M PT 1G23.0		617.4	567.4	-50.0
					79546	POLETTI 26.0		825.0	805.0	-20.0

CONED - LONG ISLAND POWER AUTHORITY

74190	ROSE GN124.0	598.5	613.5	15.0	74900	BARETG1	20.0	175.0	157.0	-18.0	
74302	ER G7	13.2	166.0	5.0	74907	NRTPTG2	22.0	358.0	334.0	-24.0	
74700	AK 3	22.0	285.0	295.0	10.0	74908	NRTPTG3	22.0	358.0	334.0	-24.0
74705	AST 4	20.0	361.0	366.0	5.0	74909	NRTPTG4	22.0	358.0	334.0	-24.0
74706	AST 5	20.0	361.0	371.0	10.0	74942	NYPA108	13.8	90.0	80.0	-10.0
74707	RAV 1	20.0	370.0	385.0	15.0						
79390	BOW2	20.0	592.0	617.0	25.0						
79546	POLETTI	26.0	825.0	840.0	15.0						

ONTARIO - NEW YORK

81425	LENNOXG420.0	498.5	598.5	100.0	74190	ROSE GN124.0		598.5	583.5	-15.0
					74702	RAV 3	22.0	966.0	926.0	-40.0
					76640	DUNKGEN313.8		180.0	175.0	-5.0
					77051	HNTLY68G13.8		180.0	175.0	-5.0
					78955	ALBY STM13.2		194.0	189.0	-5.0
					79547	JAFITZ1G24.0		848.8	818.8	-30.0

NEW YORK - ONTARIO

74190	ROSE GN124.0	598.5	613.5	15.0	80898	LAKEVWG216.0		304.8	279.8	-25.0	
74193	DANSK G416.1	233.0	248.0	15.0	80899	LAKEVWG116.0		304.8	279.8	-25.0	
78955	ALBY STM13.2	194.0	204.0	10.0	81764	NANTICG722.0		492.7	467.7	-25.0	
79390	BOW2	20.0	592.0	637.0	45.0	81765	NANTICG622.0		492.7	467.7	-25.0
79546	POLETTI	26.0	825.0	840.0	15.0						

PJM - NYISO

295	WRREN #112.0	39.8	41.8	2.0	74192	ROSE GN224.0	450.0	445.0	-5.0
307	WRREN #212.0	39.8	41.8	2.0	74700	AK 3 22.0	200.0	195.0	-5.0
2910	GIL 4&5 13.8	95.0	99.8	4.8	74702	RAV 3 22.0	872.0	867.0	-5.0
2918	GILCT1&213.8	46.6	47.8	1.2	74705	AST 4 20.0	261.0	256.0	-5.0
2919	GILCT3&413.8	48.5	50.9	2.4	75523	KINTIG2424.0	318.0	303.0	-15.0
2924	RR GEN4 13.8	87.3	91.7	4.4	76111	MILKN 2 18.0	106.0	103.5	-2.5
2925	RR GEN5 13.8	92.1	96.7	4.6	76112	MILKN 1 13.8	106.0	103.5	-2.5
3151	MTN CK 424.0	795.3	806.9	11.6	76641	DUNKGEN413.8	105.0	101.0	-4.0
4099	DELWARE713.8	122.2	128.3	6.1	77050	HNTLY67G13.8	105.0	101.0	-4.0
4100	DELWARE813.8	120.3	126.3	6.0	77052	HUNT115G13.8	160.0	152.0	-8.0
4112	EDDYSTN220.0	277.9	278.3	0.4	77953	OSWGO 6G22.0	601.0	590.0	-11.0
4961	BERGEN 138	20.4	21.4	1.0	77965	SITH-G1 18.0	95.0	92.0	-3.0
5064	KEARNY 713.0	15.5	22.8	7.3	77966	SITH-G2 18.0	95.0	92.0	-3.0
5134	BURLNG1013.0	202.7	212.8	10.1	77967	SITH-G3 18.0	95.0	92.0	-3.0
5906	GOULD G313.8	100.9	105.9	5.0	77968	SITH-G4 18.0	95.0	92.0	-3.0
7091	BENN U1521.2	108.9	122.3	13.3	77969	SITH-S5 18.0	130.0	127.0	-3.0
7092	BENN U1621.2	65.9	79.3	13.3	77970	SITH-S6 18.0	130.0	127.0	-3.0
7125	MCTRSH1G13.8	48.5	50.9	2.4	78706	ATHENSC116.0	181.0	177.5	-3.5
9371	MR1 12.5	3.9	4.7	0.8	78707	ATHENSS113.8	79.0	77.4	-1.6
9372	MR2 12.5	3.9	4.7	0.8	79390	BOW2 20.0	492.0	487.0	-5.0
9980	HUN GEN 13.2	43.5	43.7	0.2	79546	POLETTI 26.0	600.0	595.0	-5.0

NYISO - PJM

74308	GOWGT3A 13.8	55.0	57.8	2.7	204	C.SLOPE 115	48.5	50.2	-1.7
74339	GOWGT3B 13.8	55.0	57.8	2.7	372	SHAWVL 322.0	0.0	7.0	-7.0
74700	AK 3 22.0	450.0	460.0	10.0	1702	GLATFLTR13.2	0.0	1.4	-1.4
77450	GERES LK 115	140.0	147.0	7.0	1727	PORT2GEN15.5	235.7	238.0	-2.3
77952	OSWGO 5G22.0	520.0	546.0	26.0	1731	TITUS 2G13.8	0.0	3.2	-3.2
78708	ATHENSC216.0	220.0	231.0	11.0	2873	LKWD G1 13.8	73.7	75.7	-2.0
78709	ATHENSS213.8	95.0	99.7	4.7	2907	KITTGEN113.8	0.0	5.6	-5.6
78955	ALBY STM13.2	274.0	278.0	4.0	3147	MONTUR 224.0	742.9	756.4	-13.5
79391	BOW1 20.0	505.0	530.3	25.2	3161	SUNBRY 313.8	0.0	3.8	-3.8
79995	KAMIN 1313.8	40.0	42.0	2.0	4062	CONOW3-413.8	0.0	1.4	-1.4
74919	HOLTS1-513.8	90.0	94.5	4.5	4071	CROMBY 220.0	194.9	195.4	-0.4
					4110	EDDYSTN120.0	0.0	11.2	-11.2

5129	EAGLE PT 230	189.1	192.7	-3.5
5140	MERCER 124.0	314.2	327.2	-13.0
5901	BRANDNG124.0	571.1	578.6	-7.5
7104	CHALK U120.0	0.0	11.5	-11.5
8102	BLE#2 ST18.0	150.3	154.4	-4.1
8884	EM4 19.0	168.8	172.0	-3.2
9216	IR1 15.2	0.0	3.6	-3.6

NEW YORK - NEW ENGLAND

74190	ROSE GN124.0	598.5	628.5	30.0	71063	MYST G7 22.0	300.0	275.0	-25.0
74700	AK 3 22.0	285.0	305.0	20.0	71252	CANAL G218.0	512.0	482.0	-30.0
74702	RAV 3 22.0	966.0	976.0	10.0	72868	NWNGT G124.0	400.0	375.0	-25.0
74707	RAV 1 20.0	370.0	380.0	10.0	73563	MILL#3 24.0	1136.7	1116.7	-20.0
79391	BOW1 20.0	0.0	10.0	10.0					
79546	POLETTI 26.0	825.0	845.0	20.0					

NEW ENGLAND - NEW YORK

71063	MYST G7 22.0	300.0	325.0	25.0	74193	DANSK G416.1	233.0	213.0	-20.0
71252	CANAL G218.0	512.0	542.0	30.0	74702	RAV 3 22.0	966.0	946.0	-20.0
72868	NWNGT G124.0	400.0	425.0	25.0	78955	ALBY STM13.2	194.0	174.0	-20.0
73563	MILL#3 24.0	1136.7	1156.7	20.0	79546	POLETTI 26.0	825.0	785.0	-40.0

TABLE 1
DISTRIBUTION FACTORS FOR DYSINGER EAST CIRCUITS

FROM	TO	CK	% Pickup of Transfer	KINTI-ROCH	NIAGAR-ROCH	STOLLE-MEYER	LOCKPT-SOUR	LOCKPT-SHEL	NIAGAR-ROCH
STOLE230 230	MEYER230 230	1	11.0%	5.9%	7.1%	TRIP	6.4%	5.8%	13.0%
GOLAH66K66.0	MORT66KV66.0	1		0.3%	0.3%	0.3%	0.8%	0.7%	0.6%
LOCKPORT 115	NAKR-108 115	1	1.1%	1.3%	1.6%	1.4%	4.1%	3.8%	3.0%
LOCKPORT 115	OAKFLDTP 115	1	1.3%	1.6%	1.9%	1.7%	4.8%	4.5%	3.5%
LOCKPORT 115	SOUR-111 115	1	2.8%	3.3%	4.0%	3.6%	TRIP	12.1%	7.4%
LOCKPORT 115	SHEL-113 115	1	2.9%	3.5%	4.3%	3.8%	14.1%	TRIP	7.8%
LOCKPORT 115	TELRDTP1 115	1	1.3%	1.6%	1.9%	1.7%	6.1%	6.7%	3.5%
LOCKPORT 115	TELRDTP1 115	1	2.8%	3.4%	4.1%	3.6%	11.6%	19.2%	7.6%
KINTI345 345	ROCH 345 345	1	24.5%	TRIP	45.3%	14.6%	14.9%	13.6%	O/S
NIAG 345 345	ROCH 345 345	1	35.9%	54.8%	TRIP	21.4%	21.9%	19.9%	TRIP
	SUB-TOTALS			75.8%	70.7%	52.1%	84.9%	86.3%	46.4%
L33P-L34P				9.4%	11.4%	9.7%	4.9%	4.4%	20.9%
PJM-NYISO				14.4%	17.4%	35.4%	10.5%	9.5%	31.9%
	TOTALS		83.7%	99.6%	99.6%	97.2%	100.3%	100.2%	99.2%

TABLE 2

DISTRIBUTION FACTORS FOR WEST CENTRAL CIRCUITS

FROM	TO	CK	% Pickup of Transfer	PANNEL- CLAY	STOLLE- MEYER	S121- SLEGH	PANNEL- FARM	PANNEL- CLAY
PANNELL3 345	CLAY 345	1	30.4%	TRIP	10.6%	18.7%	20.3%	O/S
PANNELL3 345	CLAY 345	2	30.5%	58.0%	10.6%	18.8%	20.3%	TRIP
STOLE230 230	MEYER230 230	1	11.0%	3.0%	TRIP	3.0%	8.3%	7.1%
MORTIMER 115	LAWLER-1 115	1	2.5%	2.5%	1.3%	4.0%	17.0%	6.1%
MORTIMER 115	LAWLER-2 115	1	2.7%	2.9%	1.1%	4.6%	4.0%	6.9%
S121 B#2 115	SLEIG115 115	1	2.5%	3.5%	2.0%	TRIP	11.2%	8.4%
PANNELLI 115	FRMGTN-4 115	1	-0.2%	6.2%	8.9%	18.0%	TRIP	14.7%
STA 162 115	S.PER115 115	1	0.4%	1.9%	17.1%	2.4%	5.0%	4.4%
QUAKER 115	MACDN115 115	1	0.3%	0.4%	0.3%	19.9%	2.7%	1.0%
				-----	-----	-----	-----	-----
	SUB-TOTALS			78.4%	51.8%	89.4%	88.7%	48.6%
L33P-L34P				8.4%	9.7%	3.4%	2.7%	20.1%
PJM-NYISO				13.0%	35.4%	6.4%	6.6%	30.9%
				-----	-----	-----	-----	-----
	TOTALS		80.1%	99.8%	96.9%	99.2%	98.0%	99.6%

TABLE 3

DISTRIBUTION FACTORS FOR TOTAL EAST CIRCUITS

FROM	TO	CK	% Pickup of Trifer	PRTR- RTRDM	EDIC34- NSCOT	MARCY- NSCOT	FRSR- GILBA	BRBRG- RAMPO	WLDWK- SMAWA	HUD- FARGT	LINDEN- GOETH	WLDK- SMWA	HUD- FARGT
EDIC 345	N.SCOT77 345	1	19.0%	13.9%	TRIP	33.1%	19.4%	2.7%	0.2%	1.7%	2.2%	1.7%	2.3%
MARCY T1 345	N.SCOT99 345	1	20.5%	14.8%	34.9%	TRIP	21.0%	2.9%	0.2%	1.8%	2.4%	1.8%	2.5%
PORTER 2 230	ROTRDM.2 230	1	4.6%	TRIP	5.4%	5.5%	3.1%	0.6%	0.0%	0.4%	0.5%	0.4%	0.5%
PORTER 2 230	ROTRDM.2 230	2	4.7%	34.1%	5.6%	5.6%	3.2%	0.6%	0.0%	0.4%	0.5%	0.4%	0.6%
E.SPR115 115	INGHAM-E 115	1	0.9%	1.0%	-0.2%	-0.2%	2.5%	0.1%	0.0%	0.1%	0.1%	0.1%	0.1%
INGMS-CD 115	INGHAM-E 115	1	0.0%	9.7%	3.7%	3.7%	0.7%	0.3%	0.0%	0.2%	0.3%	0.2%	0.3%
PLAT T#3 115	GRAND IS 115	1	0.0%	2.7%	2.4%	2.5%	1.4%	0.5%	0.0%	0.3%	0.4%	0.3%	0.5%
FRASR345 345	GILB 345 345	1	16.1%	9.3%	22.9%	23.5%	TRIP	2.8%	0.2%	2.5%	3.1%	1.4%	3.5%
BRANCHBG 500	RAMAPO 5 500	1	0.0%	1.7%	2.8%	2.9%	2.5%	TRIP	3.1%	9.3%	16.4%	26.7%	13.2%
COOPC345 345	N.M.TAP 345	1	16.4%	3.8%	6.8%	7.2%	18.3%	4.3%	0.4%	0.5%	1.1%	3.8%	0.6%
COOPC345 345	ROCK TAV 345	2	17.4%	3.7%	6.6%	7.0%	17.7%	3.9%	0.4%	0.6%	1.2%	3.3%	0.9%
HUDSON2 345	FARRGUT2 345	1	0.0%	1.1%	1.9%	1.9%	2.4%	10.3%	2.7%	28.9%	21.1%	23.7%	TRIP
HUDSON1 345	FARRGUT1 345	1	0.0%	1.1%	1.9%	2.0%	2.4%	10.4%	2.8%	TRIP	20.8%	24.3%	O/S
LINDEN 230	GOETHALS 230	1	0.0%	1.0%	1.7%	1.7%	2.0%	12.1%	1.4%	13.8%	TRIP	12.1%	19.8%
WALDWICK 345	SMAHWAH1 345	1	-0.3%	0.9%	1.6%	1.6%	1.0%	24.3%	88.5%	20.2%	15.1%	O/S	28.1%
WALDWICK 345	SMAHWAH2 345	1	0.3%	0.9%	1.6%	1.6%	1.2%	24.0%	TRIP	19.3%	14.5%	TRIP	26.9%
TOTALS			99.5%	99.7%	99.6%	99.6%	99.0%	99.9%	100.0%	99.9%	99.9%	100.0%	99.9%

TABLE 4
DISTRIBUTION FACTORS FOR UPNY-CONED CIRCUITS

FROM	TO	CK	% Pickup of Transfer	PLVLLY-MILLW	PLVLLY-FISHK	RAMAPO-BUCHN	LADNTW-BUCHS	LINDEN-GOETH	HUDSON-FARGT	ROSETN-FISHK
ROSETON 345	FISHKILL 345	1	20.1%	-11.5%	15.3%	15.9%	21.9%	9.1%	8.8%	TRIP
PLTVLLEY 345	MILLWOOD 345	1	17.3%	TRIP	8.8%	3.0%	12.7%	2.6%	2.0%	-8.9%
PLTVLLEY 345	FISHKILL 345	1	7.8%	23.9%	TRIP	-0.5%	-7.2%	0.9%	0.7%	32.2%
PLTVLLEY 345	FISHKILL 345	2	7.8%	23.9%	66.5%	-0.5%	-7.2%	0.9%	0.7%	32.2%
PLTVLLEY 345	WOOD B 345	1	17.1%	35.1%	9.2%	3.0%	12.2%	2.5%	2.0%	-8.6%
RAMAPO 345	BUCH N 345	1	13.6%	3.2%	-0.2%	TRIP	41.7%	16.2%	16.6%	13.2%
LADENTWN 345	BUCH S 345	1	13.6%	17.8%	-3.7%	55.0%	TRIP	23.5%	24.4%	23.8%
FISHKILL 115	SYLVN115 115	1	1.0%	0.8%	-0.1%	0.3%	0.6%	0.2%	0.2%	0.6%
E FISH I 115	FISHKILL 345	1	1.8%	-0.5%	2.4%	0.8%	0.9%	0.5%	0.5%	6.2%
	SUB-TOTALS			92.7%	98.2%	76.9%	75.6%	56.5%	55.9%	90.7%
LINDEN-GOETH				0.9%	0.1%	5.2%	5.8%	TRIP	13.8%	2.4%
HUDSON-FAR1				1.0%	0.1%	8.0%	8.9%	21.1%	28.9%	3.5%
HUDSON-FAR2				1.1%	0.1%	8.1%	9.0%	20.8%	TRIP	3.5%
NORHBR-NRPR				4.3%	1.4%	1.7%	0.8%	1.6%	1.4%	-0.2%
	TOTALS		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

TABLE 5
DISTRIBUTION FACTORS FOR SPRAINBROOK / DUNWOODIE SOUTH CIRCUITS

FROM	TO	CK	% Pickup of Transfer	SPRAIN-TRMNT	SPRAIN-W49TH	DUNWDE-RAINY	DUNWDE-SHORE	SPRAIN-DVNPT	SPRAIN-W49TH	DUNWDE-RAINY
DUN NO1R 138	S CREEK 138	1	0.0%	17.7%	0.2%	0.3%	2.3%	1.7%	0.4%	0.6%
DUN NO2R 138	S CREEK 138	1	0.0%	18.1%	0.2%	0.3%	2.4%	1.7%	0.4%	0.6%
DUN SO1R 138	E179 ST 138	1	0.0%	25.8%	0.3%	0.5%	3.4%	2.4%	0.5%	0.8%
DUNWODIE 345	RAINEY 345	3	22.6%	5.3%	24.1%	TRIP	9.3%	3.0%	43.9%	O/S
DUNWODIE 345	RAINEY 345	4	22.6%	5.3%	24.1%	45.9%	9.3%	3.0%	43.9%	TRIP
DUNWODIE 345	SHORE RD 345	1	0.0%	6.5%	0.5%	1.1%	TRIP	53.7%	1.0%	2.1%
SPRBROOK 345	TREMONT 345	1	0.0%	TRIP	0.6%	0.4%	4.4%	3.6%	1.1%	0.8%
SPRBROOK 345	W 49 ST 345	1	17.4%	7.0%	TRIP	23.6%	4.3%	7.1%	O/S	43.6%
SPRBROOK 345	W 49 ST 345	2	17.4%	7.0%	45.1%	23.6%	4.3%	7.1%	TRIP	43.6%
REACBUS 345	DVNPT NK 345	1	0.0%	4.6%	0.8%	0.3%	46.6%	TRIP	1.4%	0.6%
	SUB-TOTALS			97.2%	95.9%	96.0%	86.5%	83.2%	92.5%	92.7%
LINDEN-GOETH				1.3%	0.9%	1.0%	0.0%	-0.1%	1.7%	1.8%
HUDSON-FAR#1				0.1%	1.6%	1.5%	-0.2%	-0.2%	2.8%	2.7%
HUDSON-FAR#2				0.1%	1.6%	1.5%	-0.2%	-0.2%	2.9%	2.7%
NORHRBR-NRPRT				1.3%	0.1%	0.0%	13.8%	17.3%	0.1%	0.1%
	TOTALS		80.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

TABLE 6							
DISTRIBUTION FACTORS FOR MOSES SOUTH CIRCUITS							
FROM	TO	CK	% Pickup of Transfer	MASSEN-MARCY	MASSEN-CHAT	MOSES2-ADRON	MOSES2-PORTR
MASS 765 765	MARCY765 765	1	74.0%	TRIP	65.9%	44.0%	O/S
DENNISON 115	ANDRWS-4 115	1	2.2%	4.1%	0.8%	1.5%	3.6%
MOSES W 230	ADRON B1 230	1	9.5%	18.8%	3.3%	TRIP	TRIP
MOSES W 230	ADRON B2 230	1	9.5%	18.8%	3.3%	36.3%	48.6%
DENNISON 115	LWRNCE-B 115	1	2.2%	4.1%	0.8%	1.5%	3.6%
ALCOA-NM 115	BRADY 115	1	1.1%	2.1%	0.4%	0.8%	1.8%
ALLENS F 115	COLTON 115	1	1.5%	1.9%	0.3%	0.7%	1.7%
	SUB-TOTALS			----- 49.8%	----- 74.8%	----- 84.7%	----- 59.3%
MOSES-L33P				17.1%	9.6%	5.1%	13.7%
MOSES-L34P				22.7%	12.7%	6.7%	18.2%
MOSES-WILLE				6.2%	1.6%	2.1%	5.3%
MOSES-WILLW				6.2%	1.6%	2.1%	5.3%
	TOTALS		----- 100.0%	----- 101.9%	----- 100.3%	----- 100.7%	----- 101.7%

TABLE 7

DISTRIBUTION FACTORS FOR NYISO-ISONE CIRCUITS

FROM	TO	CK	% Pickup of Transfer	ALPS34- MANY	PV.345- LNGMT	NHHAR- GEN	VTYANK- GEN	YRMTH- GEN	SBRK- GEN	HIGAT E-DC	EEL RIVER	MADWAS- DC
ALPS345 345	MANY393 345	1	36.3%	TRIP	39.6%	21.3%	42.2%	36.6%	36.2%	17.2%	36.5%	36.5%
PLAT T#3 115	GRAND IS 115	1	0.0%	7.0%	4.2%	3.4%	6.1%	6.4%	6.4%	51.6%	6.4%	6.4%
HOOSICK 115	BNNINGTN 115	1	2.7%	9.8%	2.9%	1.6%	2.2%	2.7%	2.7%	0.9%	2.7%	2.7%
WHITEHAL 115	BLISSVIL 115	1	5.0%	10.3%	4.3%	2.4%	6.6%	5.2%	5.1%	6.6%	5.2%	5.2%
ROTRDM.2 230	BRSWAMP 230	1	7.4%	16.0%	7.2%	4.5%	6.3%	7.9%	8.0%	2.7%	7.8%	7.8%
PLTVLLEY 345	CTNY398 345	1	47.3%	43.4%	TRIP	45.6%	26.3%	29.9%	30.3%	14.8%	29.9%	29.9%
NRTHPT P 138	NORHR138 138	1	0.0%	12.1%	38.8%	20.0%	9.5%	10.5%	10.6%	6.0%	10.5%	10.5%
			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	TOTALS		98.8%	98.6%	96.9%	98.8%	99.3%	99.2%	99.2%	99.6%	99.1%	99.1%

TABLE 8

DISTRIBUTION FACTORS FOR ONTARIO-NYISO CIRCUITS

FROM	TO	CK	% Pickup of Transfer	PA27-NIAGAR	BP76-PACKD2	STLAWR-MOSES	STLAWR-MOSES	BECKB-NIAGAR
STLAWL34 230	MOSES E 230	1	0.0%	1.5%	1.5%	TRIP	64.0%	1.7%
STLAWL33 230	MOSES E 230	1	0.0%	1.1%	1.1%	57.3%	TRIP	1.2%
BECK B 345	NIAG 345 345	1	31.1%	33.7%	30.8%	8.7%	7.4%	TRIP
BECK A 345	NIAG 345 345	1	31.1%	33.7%	30.8%	8.7%	7.4%	52.6%
PA27 REG 230	NIAGAR2W 230	1	20.1%	TRIP	31.3%	5.3%	4.4%	23.2%
BP76 REG 230	PACKARD2 230	1	17.7%	26.0%	TRIP	4.5%	3.8%	17.6%
	SUB-TOTALS			----- 96.0%	----- 95.5%	----- 84.5%	----- 86.9%	----- 96.4%
IMO-MICH			-----	-----	-----	-----	-----	-----
	TOTALS		100.0%	96.0%	95.5%	84.5%	86.9%	96.4%

TABLE 9

DISTRIBUTION FACTORS FOR PJM-NYISO CIRCUITS

		CK	% Pickup of Transfer	ERIESO- FALCS	HMRCTY- STOLL	HMRCTY- WATER	E.TOWD- HILLS	BRBURG- RAMPO	WALDWK- SMAWA	HUDSON- FARGT	LINDEN- GOETH	WALDWK- SMAWA	HUDSON- FARGT
ERIE E 230	S RIPLEY 230	1	22.3%	TRIP	22.3%	7.7%	4.8%	2.1%	0.2%	0.9%	1.4%	1.4%	1.3%
WARREN 115	FALCONER 115	1	8.3%	21.5%	8.5%	1.8%	3.0%	0.7%	0.1%	0.3%	0.5%	0.5%	0.5%
HOMER CY 345	STOLE345 345	1	14.7%	15.8%	TRIP	15.5%	2.0%	1.5%	0.1%	0.7%	1.0%	1.0%	0.9%
HOMER CY 345	WATRC345 345	1	20.0%	6.7%	18.9%	TRIP	13.3%	3.2%	0.2%	1.3%	2.0%	2.1%	1.9%
E.TWANDA 230	HILSD230 230	1	21.3%	6.0%	3.5%	19.4%	TRIP	3.1%	0.3%	1.5%	2.0%	2.5%	2.1%
E.SAYRE 115	N.WAV115 115	1	7.7%	2.0%	1.4%	4.0%	30.6%	1.1%	0.1%	0.6%	0.7%	0.9%	0.8%
LAUREL L 115	GOUDY115 115	1	5.7%	0.9%	0.6%	2.1%	11.3%	0.9%	0.1%	0.4%	0.6%	0.7%	0.6%
BRANCHBG 500	RAMAPO 5 500	1	0.0%	5.8%	5.9%	10.1%	6.7%	TRIP	3.1%	9.3%	16.4%	26.7%	13.2%
HUDSON2 345	FARRGUT2 345	1	0.0%	2.8%	2.8%	4.7%	3.6%	10.3%	2.7%	28.9%	21.1%	23.7%	TRIP
HUDSON1 345	FARRGUT1 345	1	0.0%	2.8%	2.9%	4.7%	3.7%	10.4%	2.8%	TRIP	20.8%	24.3%	O/S
LINDEN 230	GOETHALS 230	1	0.0%	2.7%	2.8%	4.6%	3.2%	12.1%	1.4%	13.8%	TRIP	12.1%	19.8%
WALDWICK 345	SMAHWAH1 345	1	-0.1%	3.7%	3.7%	6.3%	5.1%	24.3%	88.5%	20.2%	15.1%	O/S	28.1%
WALDWICK 345	SMAHWAH2 345	1	0.1%	3.4%	3.4%	5.8%	4.7%	24.0%	TRIP	19.3%	14.5%	TRIP	26.9%
	SUB-TOTALS			74.2%	76.6%	86.7%	92.1%	93.7%	99.5%	97.2%	96.0%	95.8%	96.1%
IMO-MICH													
	TOTALS		100.0%	74.2%	76.6%	86.7%	92.1%	93.7%	99.5%	97.2%	96.0%	95.8%	96.1%

TABLE 10A

GENERATION SHIFT FACTORS WITH ALL PAR'S HOLDING MW FLOW

	WEST-CENTRAL	UTICA-ALBANY	MARCY-SOUTH	CENTRAL-EAST	BBURG-RAMAPO	ONT-NYISO	PJM-NYISO
ALBANY	0.3%	12.9%	-10.9%	15.1%	0.0%	0.0%	0.0%
BB-RAMAPO	37.3%	38.9%	15.7%	42.5%	-100.0%	-0.1%	-0.1%
BECK	-81.1%	-44.2%	-22.9%	-47.6%	0.0%	-99.9%	0.0%
BOWEN	-39.6%	-39.1%	-16.0%	-42.7%	0.0%	0.1%	-99.9%
BOWLINE	0.0%	-1.2%	1.1%	-1.3%	0.0%	0.0%	0.1%
BRANDON	-38.4%	-39.0%	-15.8%	-42.6%	0.0%	0.1%	-99.9%
BRAYTON	0.3%	6.4%	-8.4%	11.3%	0.0%	0.0%	0.0%
CONEMAUGH	-38.6%	-39.0%	-15.8%	-42.6%	0.0%	0.1%	-99.9%
DUNKIRK	-66.7%	-42.0%	-19.9%	-45.5%	0.0%	0.1%	0.0%
EDDYSTONE	-37.5%	-38.9%	-15.7%	-42.5%	0.0%	0.1%	-99.9%
GILBOA	-0.2%	-0.2%	-1.5%	-1.1%	0.0%	0.0%	0.0%
HATFIELD	-39.4%	-39.1%	-15.9%	-42.7%	0.0%	0.1%	-99.9%
HUDSON	-37.1%	-38.9%	-15.6%	-42.5%	0.0%	0.1%	-99.9%
HUNTLEY	-78.3%	-43.6%	-22.1%	-47.0%	0.0%	0.1%	0.0%
INDIANPT2	0.0%	-0.9%	0.9%	-1.0%	0.0%	0.0%	0.0%
JEAMOS	-39.8%	-39.1%	-16.0%	-42.8%	0.0%	0.1%	-99.9%
LAMBTON	-81.1%	-44.2%	-22.9%	-47.6%	0.0%	-99.9%	0.0%
MTSTORM	-39.2%	-39.1%	-15.9%	-42.7%	0.0%	0.1%	-99.9%
NANTICOKE	-81.1%	-44.2%	-22.9%	-47.6%	0.0%	-99.9%	0.0%
NEWTON	-39.8%	-39.1%	-16.0%	-42.8%	0.0%	0.1%	-99.9%
NIAGARA	-79.2%	-43.8%	-22.3%	-47.2%	0.0%	0.1%	0.0%
NORWALK	0.2%	4.4%	-5.2%	6.8%	0.0%	0.0%	0.0%
OSWEGO	2.4%	-48.9%	-29.1%	-51.9%	0.0%	0.0%	0.0%
PORTLAND	-36.6%	-38.8%	-15.6%	-42.5%	0.0%	0.1%	-99.9%
ROSETON	0.0%	-0.2%	0.3%	-0.3%	0.0%	0.0%	0.0%
SALEM	-37.5%	-38.9%	-15.7%	-42.6%	0.0%	0.1%	-99.9%

TABLE 10B							
GENERATION SHIFT FACTORS WITH PAR'S FREE FLOW							
	WEST- CENTRAL	UTICA- ALBANY	MARCY- SOUTH	CENTRAL- EAST	BBURG- RAMAPO	IMO- NYISO	PJM- NYISO
ALBANY	4.4%	16.1%	-8.6%	20.8%	-1.1%	4.4%	-4.3%
BB-RAMAPO	6.7%	6.9%	4.4%	7.9%	-100.0%	6.3%	-6.3%
BECK	-45.1%	-27.0%	-15.3%	-30.7%	-8.9%	-78.2%	-21.7%
BOWEN	-14.5%	-14.1%	-6.5%	-16.2%	-16.0%	-17.2%	-82.7%
BOWLINE	-0.1%	-1.2%	0.9%	-1.4%	4.4%	-0.2%	0.2%
BRANDON	-10.1%	-10.9%	-4.5%	-12.5%	-17.9%	-10.1%	-89.8%
BRAYTON	3.0%	9.3%	-6.0%	15.0%	-0.5%	3.5%	-3.4%
CONEMAUGH	-10.7%	-11.7%	-4.8%	-13.4%	-17.4%	-9.7%	-90.3%
DUNKIRK	-37.5%	-22.6%	-11.7%	-25.6%	-10.9%	7.1%	-7.1%
EDDYSTONE	-6.4%	-7.9%	-2.8%	-9.0%	-19.7%	-6.1%	-93.8%
GILBOA	4.5%	5.0%	1.3%	4.6%	-1.2%	4.0%	-4.0%
HATFIELD	-12.9%	-13.1%	-5.7%	-15.0%	-16.5%	-13.0%	-86.9%
HUDSON	-2.1%	-3.1%	-0.6%	-3.5%	-6.8%	-2.0%	-97.9%
HUNTLEY	-46.6%	-26.2%	-14.4%	-29.7%	-9.1%	16.0%	-15.9%
INDIANPT2	-0.1%	-0.9%	0.7%	-1.0%	3.5%	-0.1%	0.2%
JEAMOS	-14.8%	-14.3%	-6.6%	-16.4%	-15.9%	-17.2%	-82.7%
LAMBTON	-25.2%	-21.3%	-11.5%	-24.5%	-12.1%	-46.4%	-53.6%
MTSTORM	-12.5%	-12.7%	-5.6%	-14.6%	-16.8%	-13.1%	-86.8%
NANTICOKE	-31.7%	-25.8%	-14.7%	-29.7%	-9.7%	-65.9%	-34.0%
NEWTON	-15.6%	-14.8%	-6.9%	-17.0%	-15.6%	-19.4%	-80.5%
NIAGARA	-48.6%	-26.7%	-14.8%	-30.3%	-8.9%	15.6%	-15.6%
NORWALK	1.3%	3.6%	-1.8%	5.2%	0.3%	1.4%	-1.4%
OSWEGO	13.0%	-37.6%	-23.7%	-41.5%	-4.1%	8.6%	-8.5%
PORTLAND	-4.9%	-7.0%	-2.2%	-8.0%	-15.8%	-4.6%	-95.3%
ROSETON	1.7%	1.7%	1.3%	1.8%	1.1%	1.5%	-1.5%
SALEM	-6.5%	-7.9%	-2.8%	-9.0%	-19.5%	-6.1%	-93.8%

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APPENDIX F

ANNOTATED MUST OUTPUT

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On Computer Diskette If Requested

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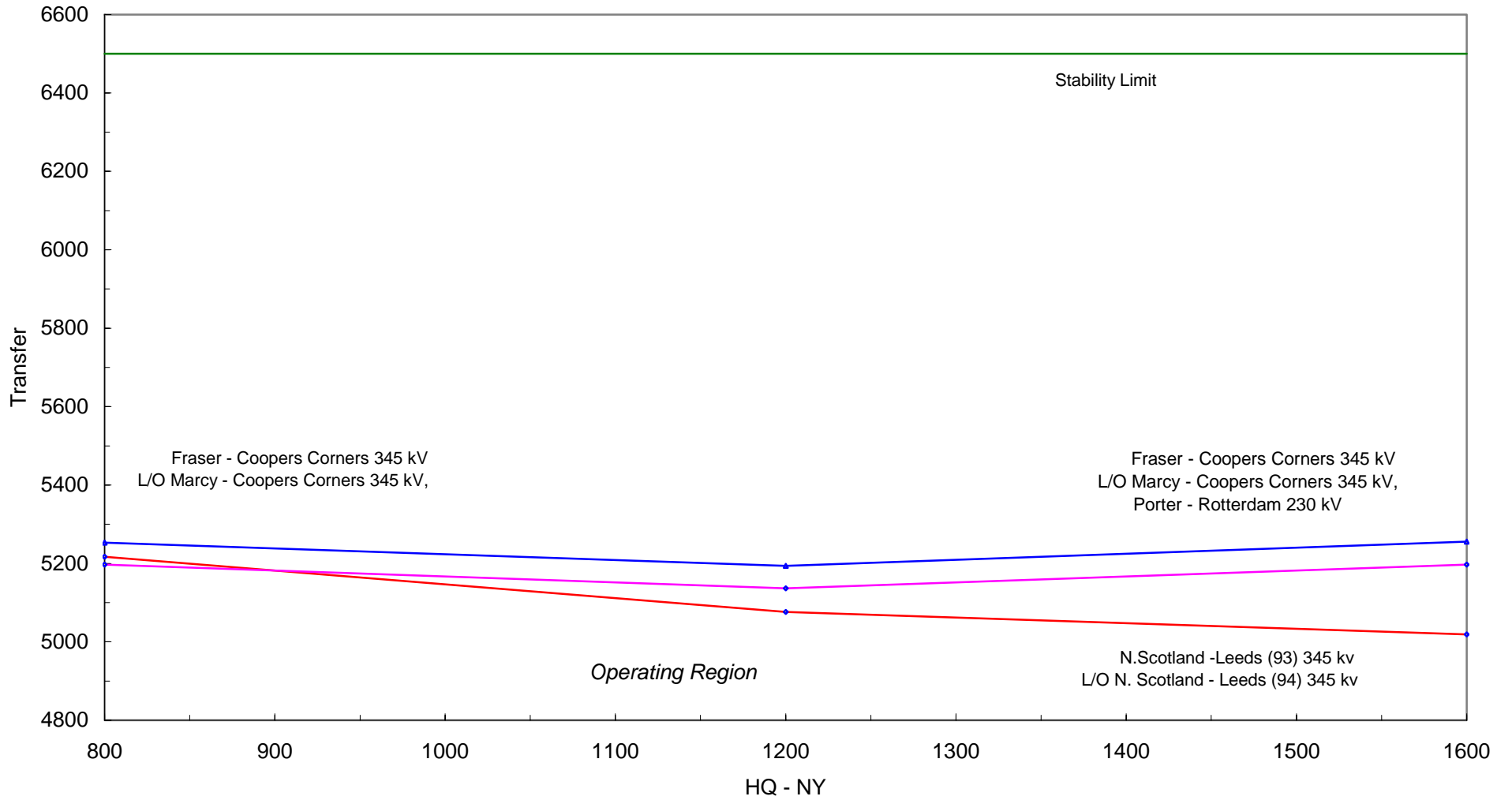
APPENDIX G
TRANSFER LIMIT SENSITIVITY GRAPHS

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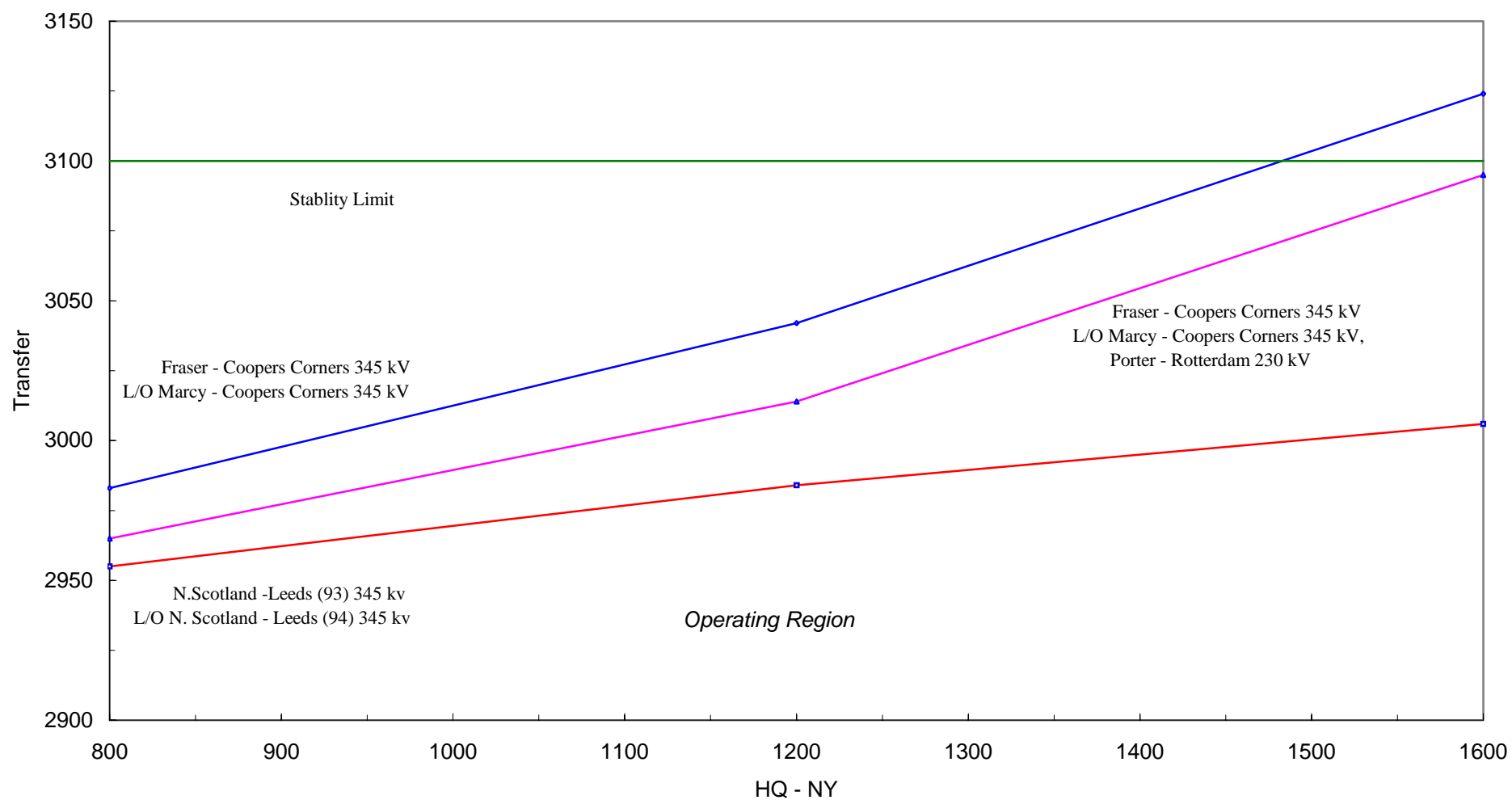
INDEX

1. Total East vs HQ-NY	G-2
2. Central East vs HQ-NY	G-3
3. Total East vs Ramapo Par Flow	G-4
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5. UPNY ConEd vs Ramapo Par Flow	G-6
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7. NE-NY vs Norwalk-Northport Par flow for Normal Transfer	G-8
8. NE-NY vs Norwalk-Northport Par flow for Emergency Transfer	G-9
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11. NYISO-IMO (ONTARIO) Transfer vs L33 & L34	G-12
12. IMO (ONTARIO)-NYISO Transfer vs L33 & L34	G-13

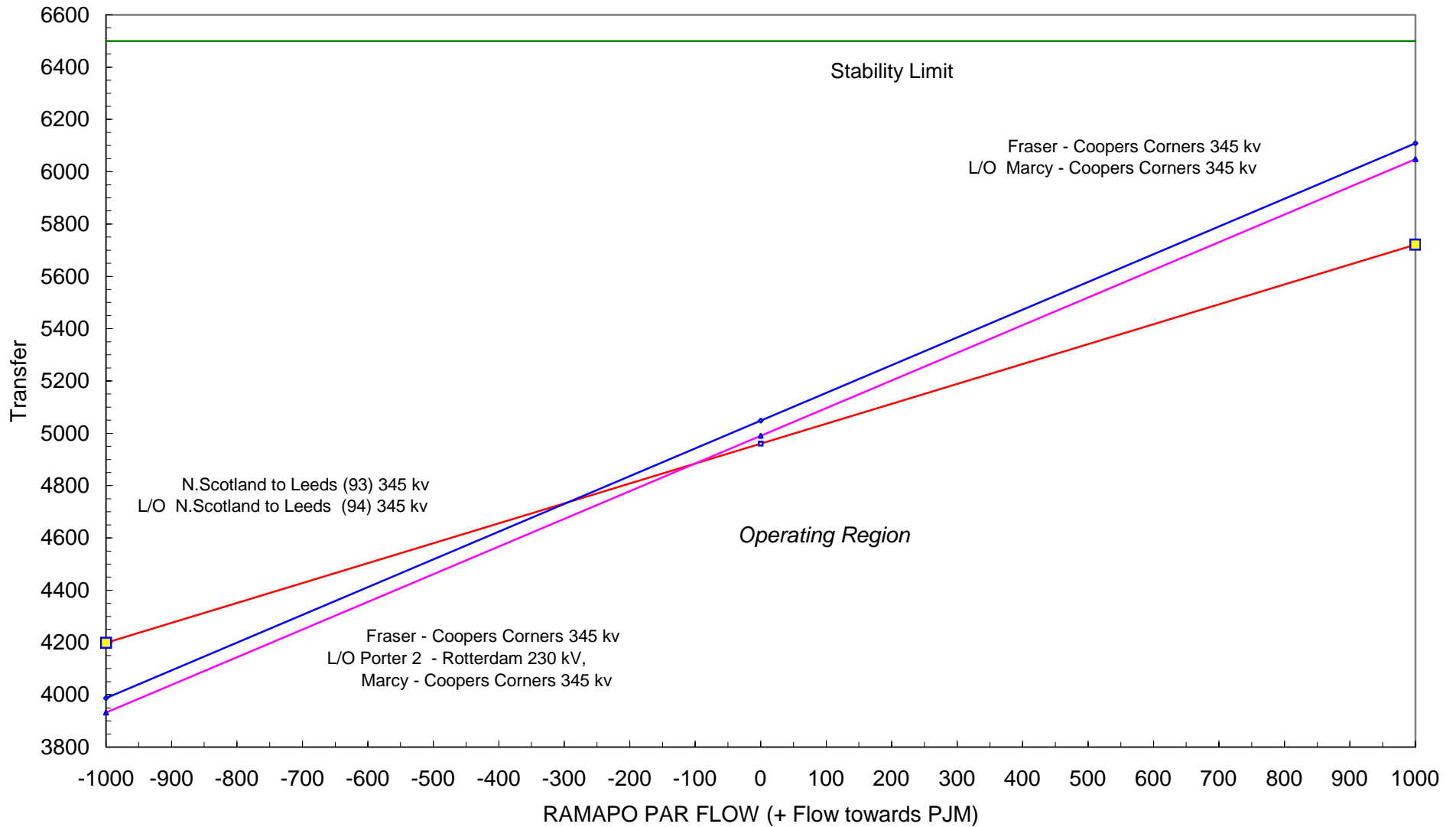
Total East vs. HQ
For Normal Transfer Criteria
Summer 2004



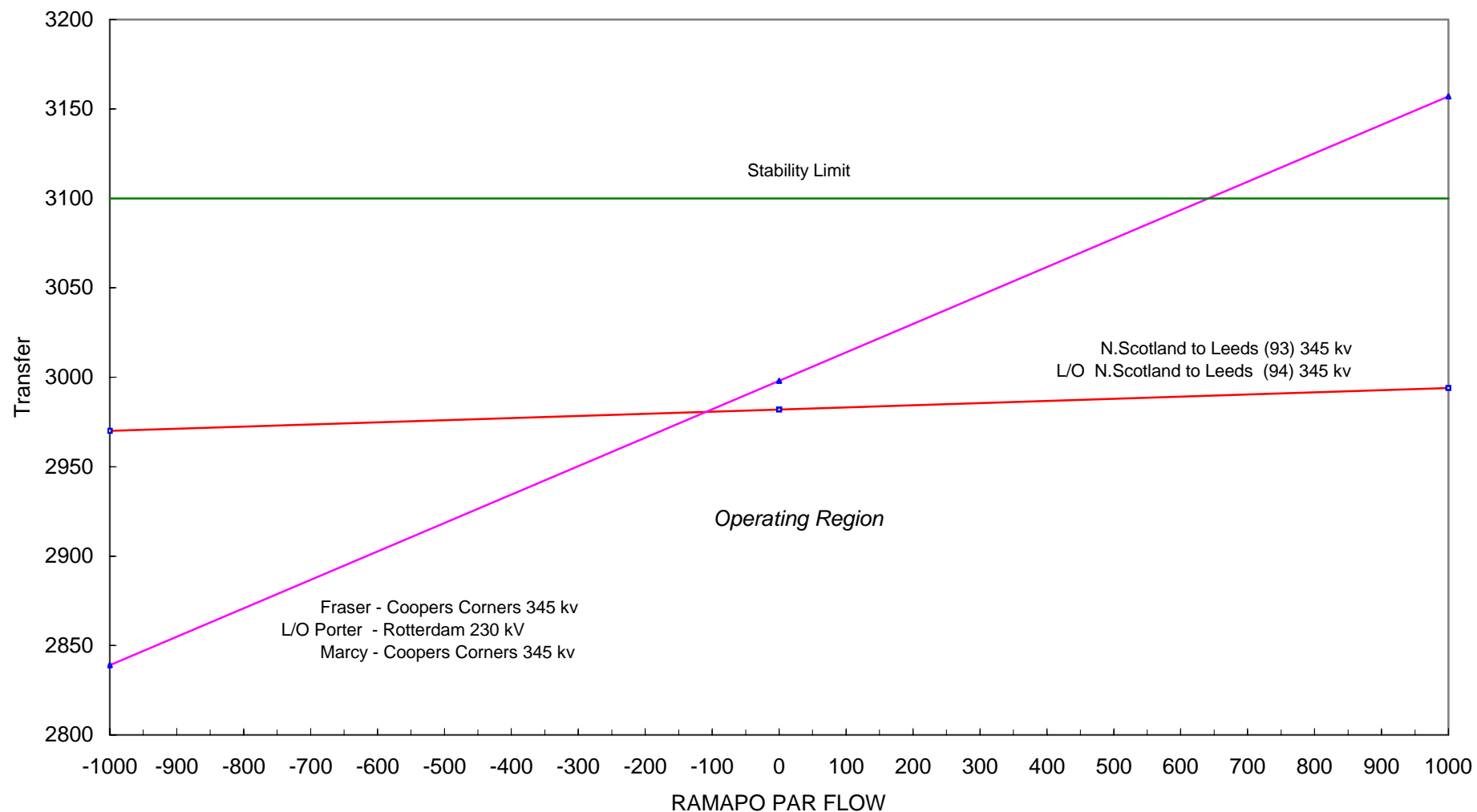
Central East vs. HQ For Normal Transfer Criteria Summer 2004



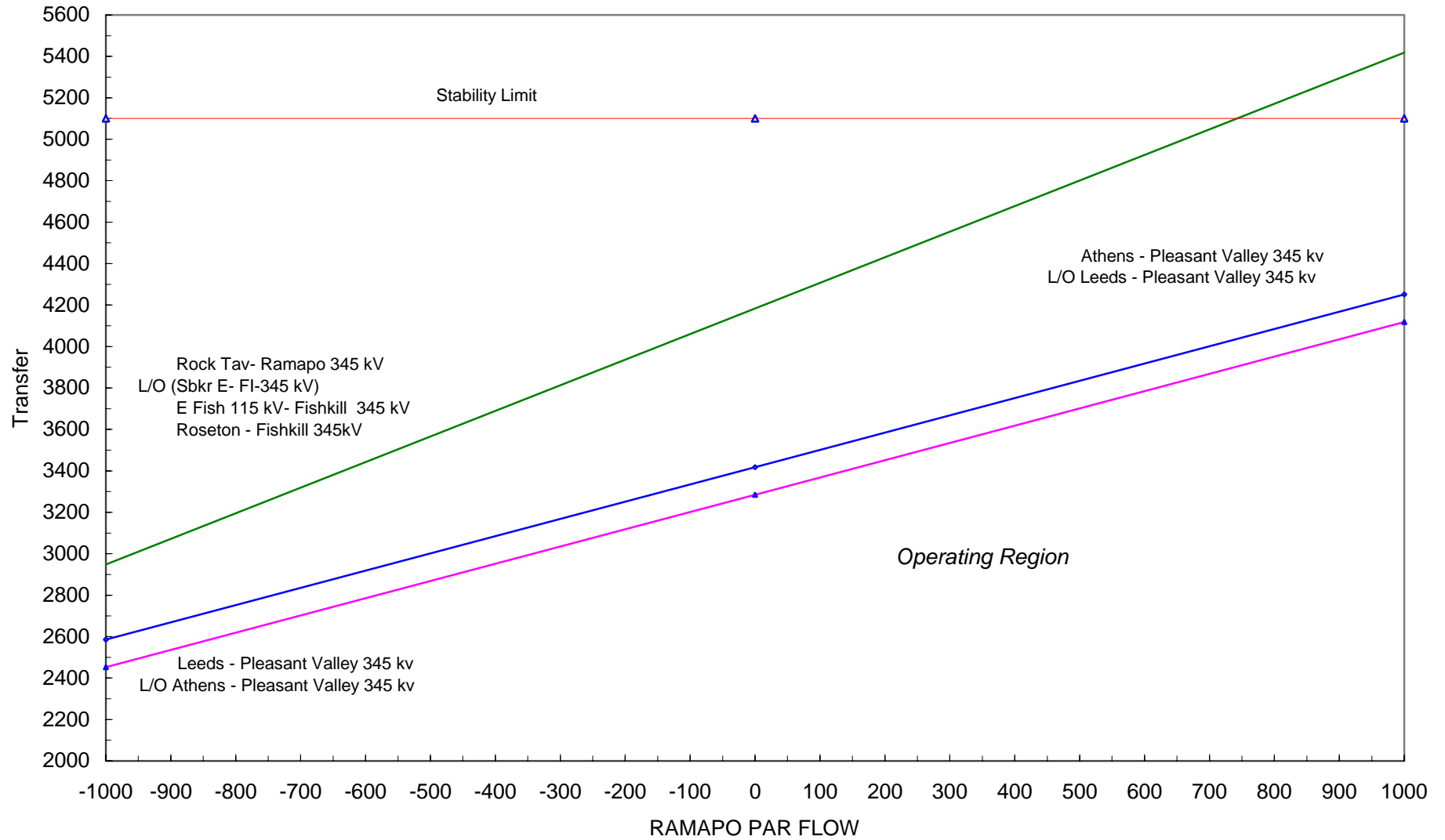
Total East vs. RAMAPO PAR Flow For Normal Transfer Criteria Summer 2004



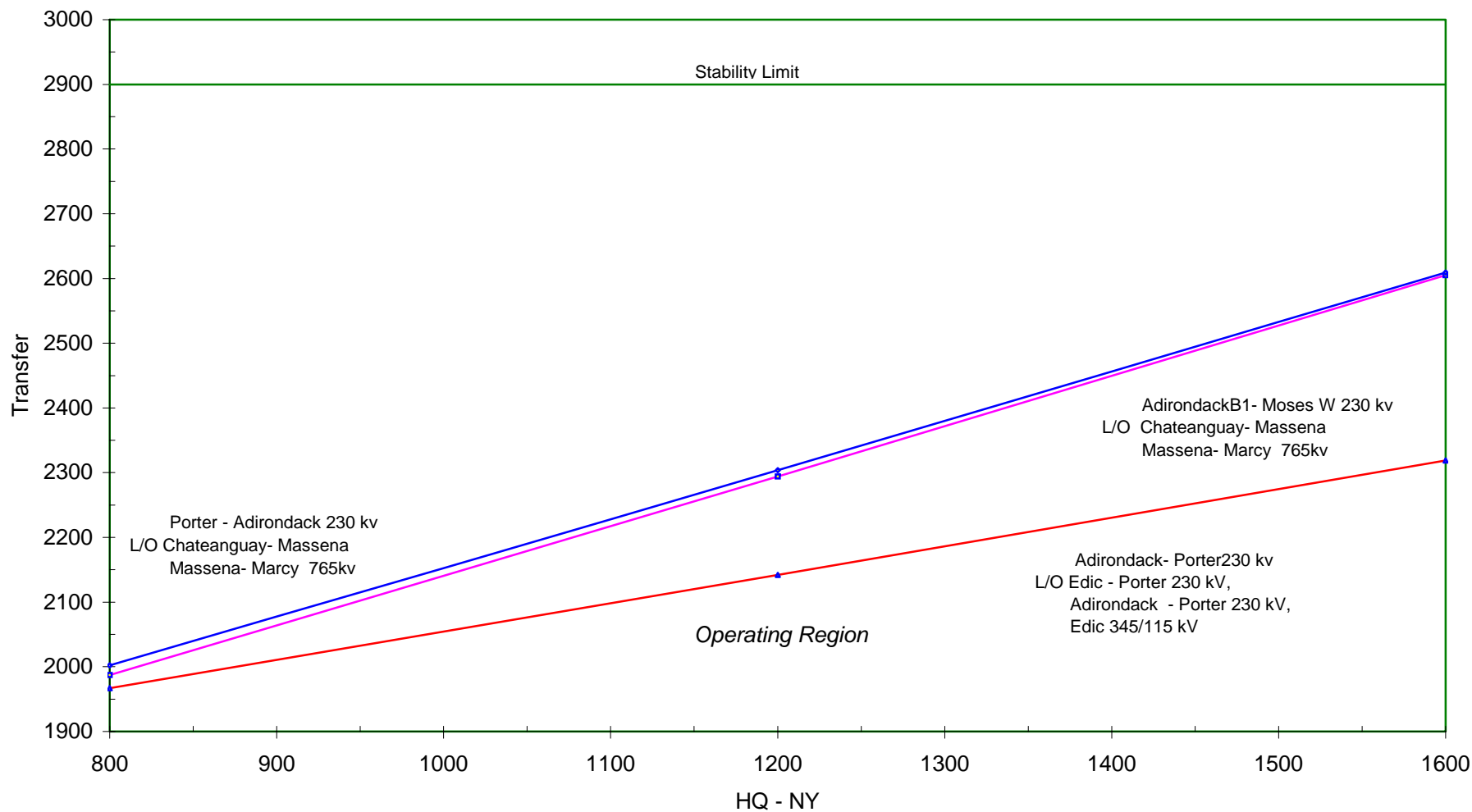
Central East vs. RAMAPO PAR Flow For Normal Transfer Criteria Summer 2004



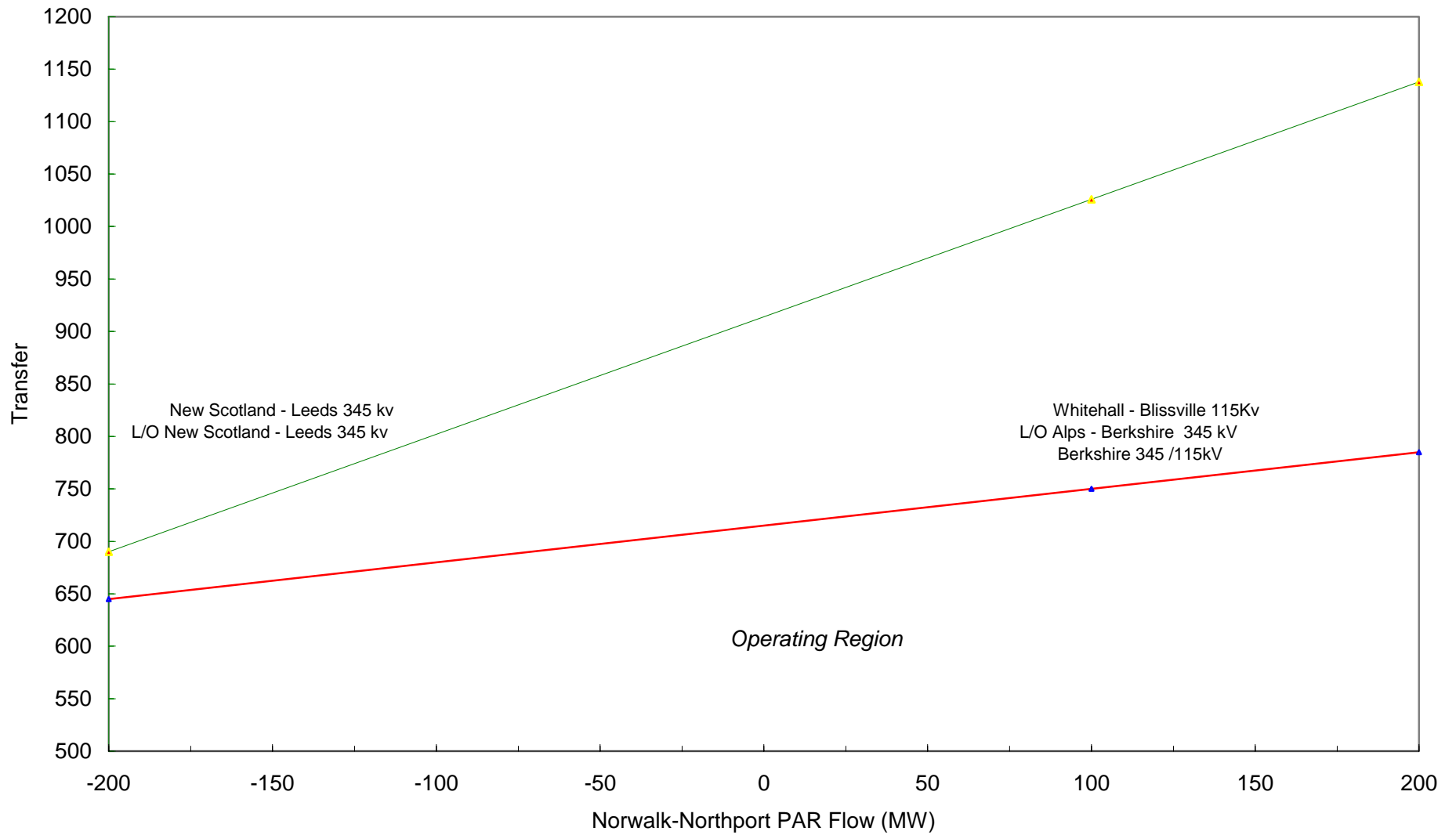
UPNY CONED vs. RAMAPO PAR Flow For Normal Transfer Criteria Summer 2004



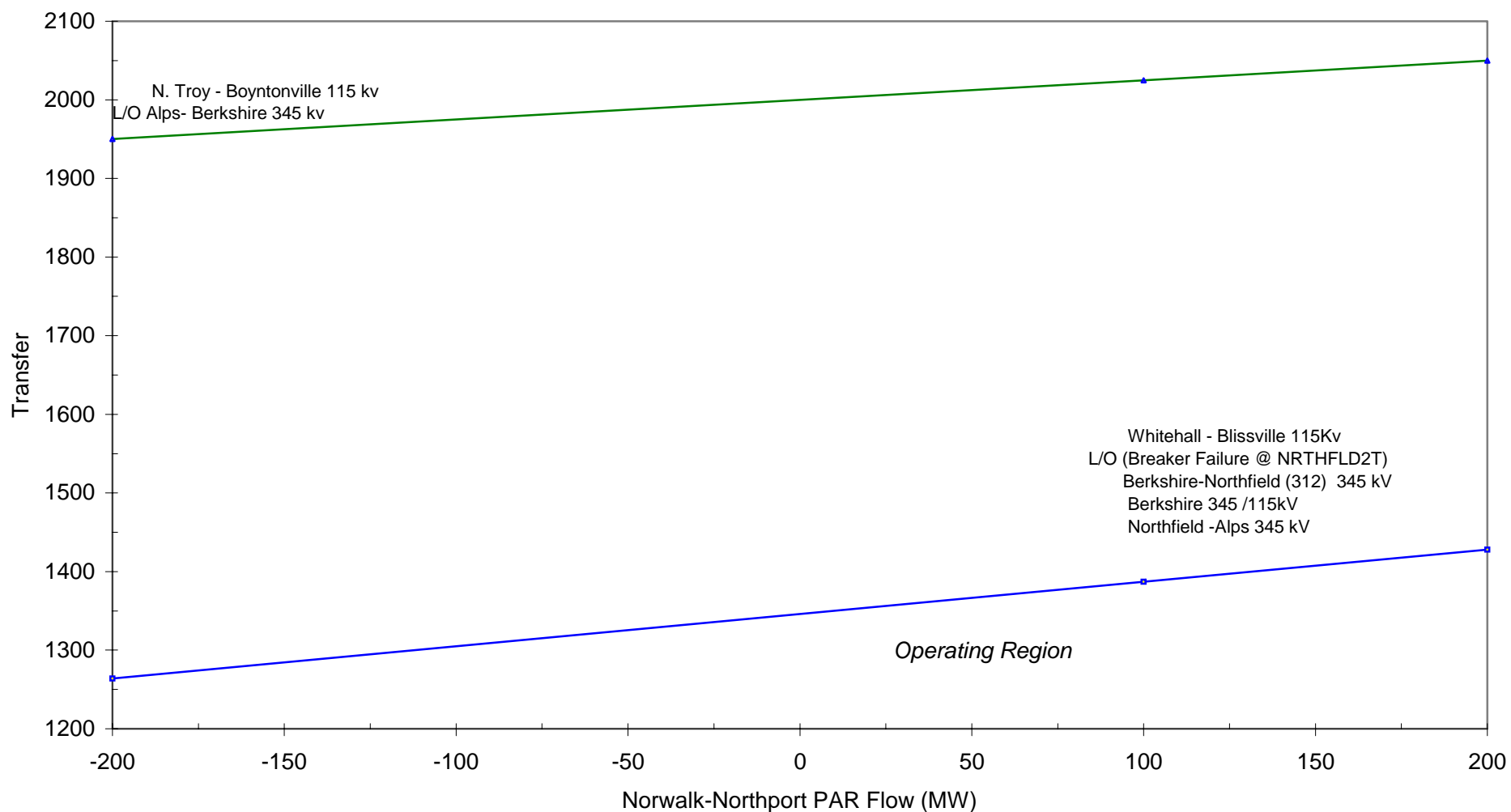
Moses South vs. HQ Export to New York For Normal Transfer Criteria Summer 2004



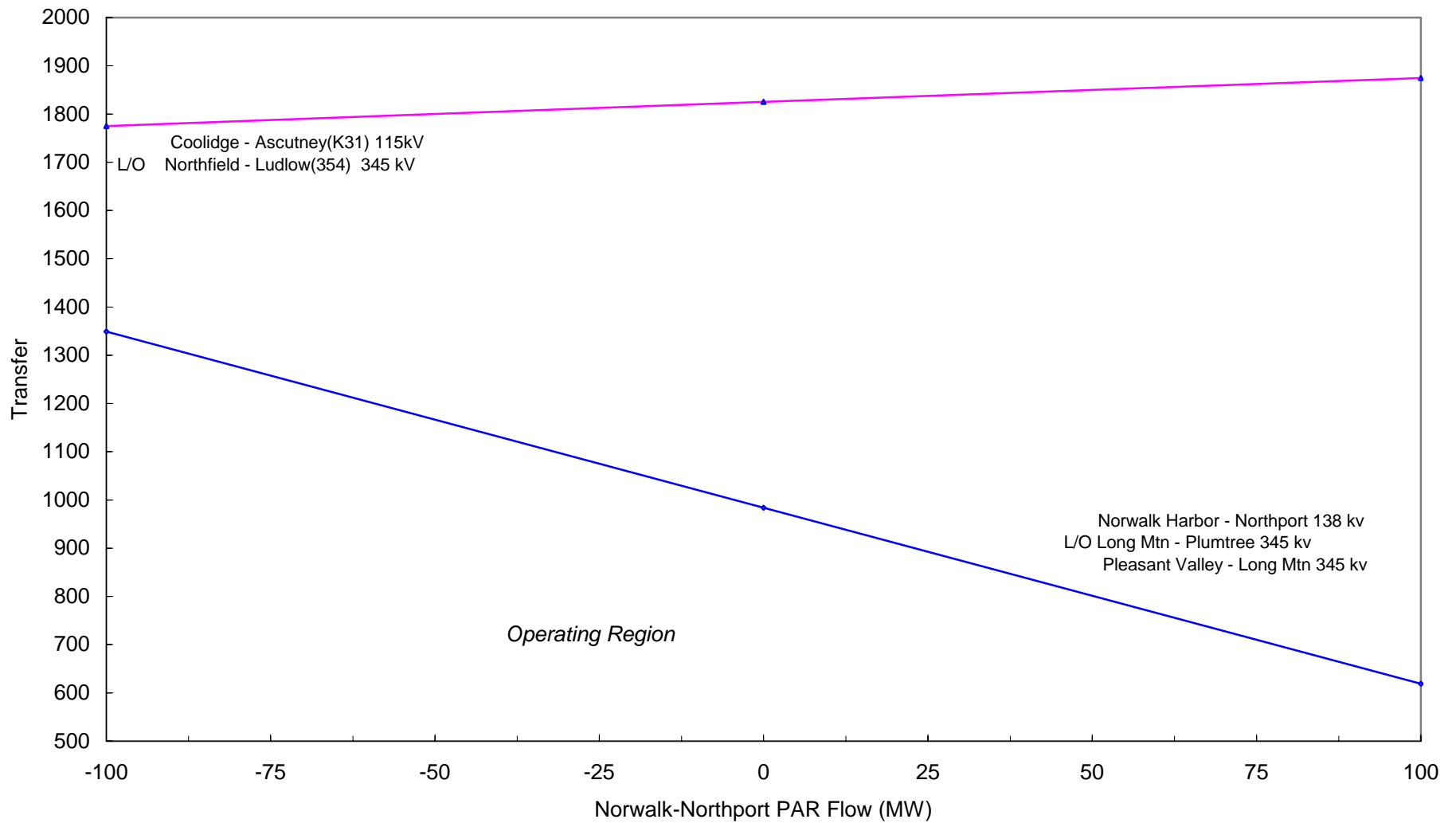
NE-NY vs. NORWALK-NORTHPORT PAR Flow For Normal Transfer Criteria Summer 2004



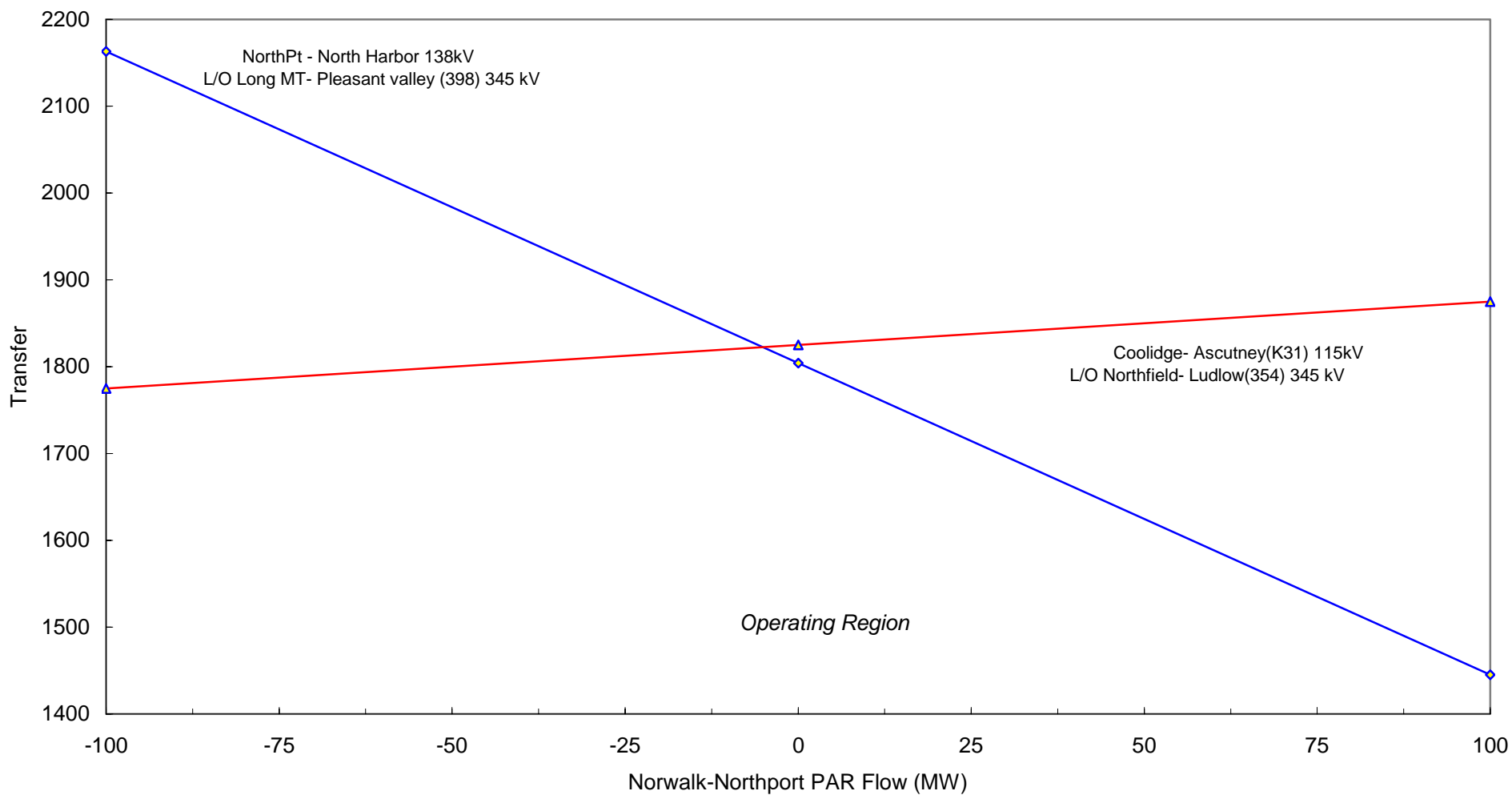
NE-NY vs. NORWALK-NORTHPORT PAR Flow For Emergency Transfer Criteria Summer 2004



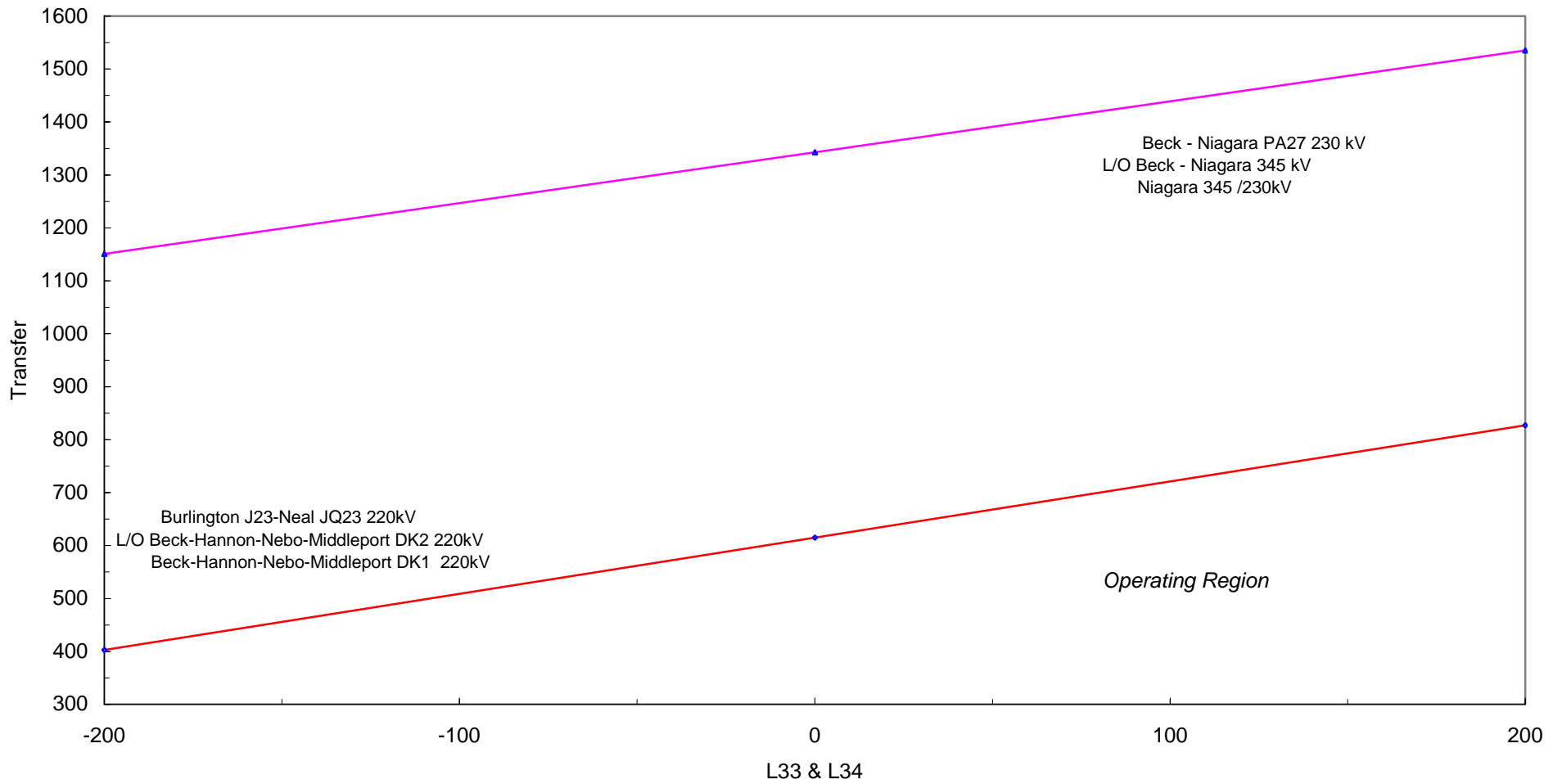
NY-NE vs. NORWALK-NORTHPORT PAR Flow For Normal Transfer Criteria Summer 2004



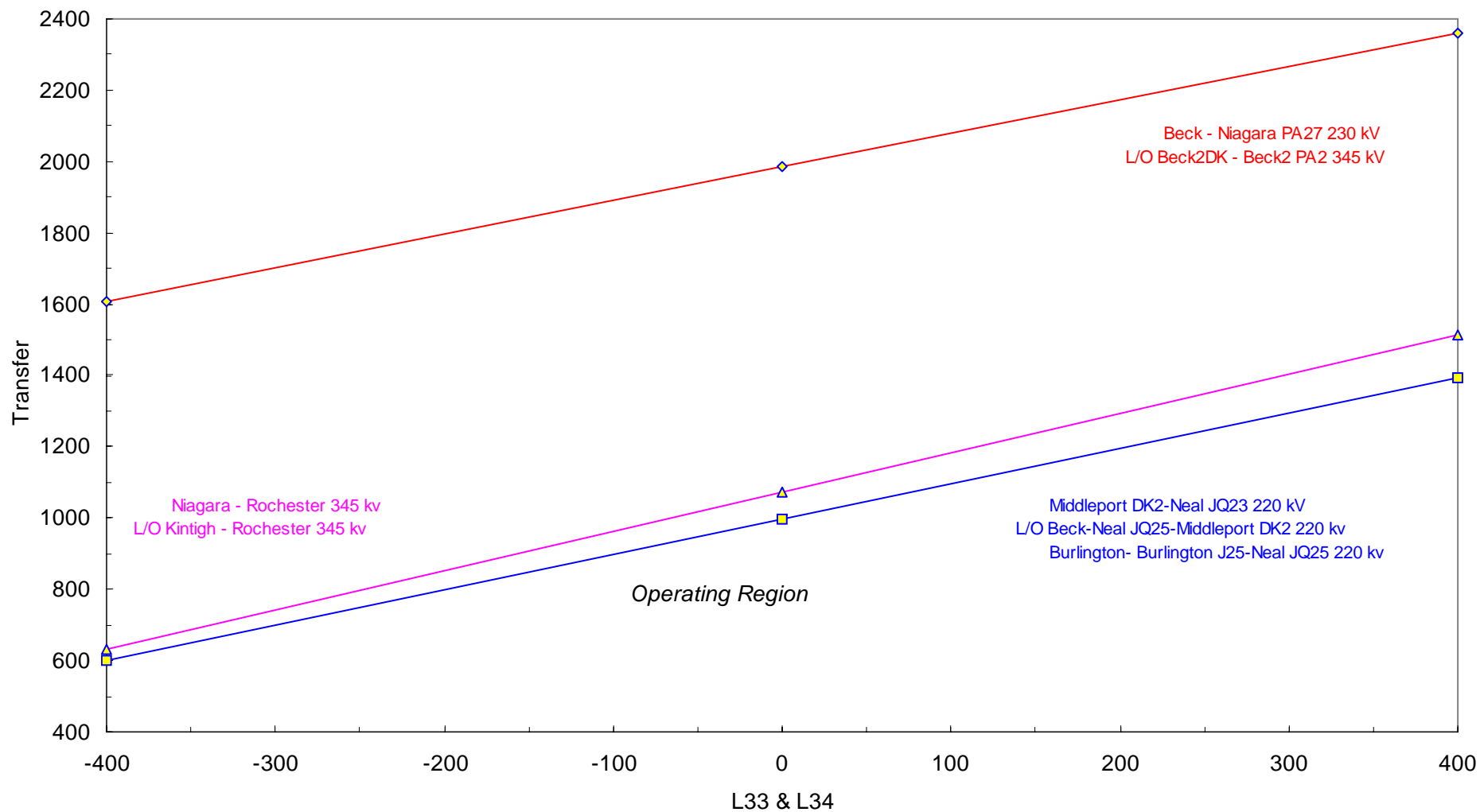
NY-NE vs. NORWALK-NORTHPORT PAR Flow For Emergency Transfer Criteria Summer 2004



NY- IMO (Ontario) Transfer vs. L33 & L34 For Normal Transfer Criteria Summer 2004



IMO (Ontario)-NY Transfer vs. L33 & L34 For Normal Transfer Criteria Summer 2004



APPENDIX H

**COMPARISON OF TRANSFER LIMITS
SUMMER 2004 vs. SUMMER 2003**

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Comparison of Summer 2004 to Summer 2003 Thermal Limits

		SUMMER 2003		SUMMER 2004		
Interface	Rating	Limit (MW)	Contingency	Limit (MW)	Contingency	Delta
Dysinger East	Normal	2950	1	2950	1	0
	Emergency	3225	3	3200	3	-25
West Central	Normal	1650	1	1700	1	50
	Emergency	1950	3	1950	3	0
UPNY - ConEd	Normal	3725	4	3400	4	-325
	Emergency	4375	4	4050	4	-325
SpBk/Dun-South	Normal	3850	5	3775	5	-75
	Emergency	4000	6	3950	6	-50
Con Ed - LIPA	Normal	825	8	900	8	75
	Emergency	1450	8	1400	8	-50
Central East						
MSC-7040 FLOW 1600 MW	Normal	3125	9	3000	9	-125
	Emergency	3450	10	3300	10	-150
MSC-7040 FLOW 1200 MW	Normal	3050	11	2975	10	-75
	Emergency	3425	10	3275	10	-150
MSC-7040 FLOW 800 MW	Normal	3000	11	2950	11	-50
	Emergency	3400	10	3275	10	-125
Total East						
MSC-7040 FLOW 1600 MW	Normal	5375	9	5000	9	-375
	Emergency	6025	10	5625	10	-400
MSC-7040 FLOW 1200 MW	Normal	5325	11	5075	10	-250
	Emergency	6075	10	5700	10	-375
MSC-7040 FLOW 800 MW	Normal	5325	11	5175	11	-150
	Emergency	6150	10	5825	10	-325
Moses - South						
MSC-7040 FLOW 1600 MW	Normal	2275	12	2300	12	25
	Emergency	2875	13	2875	13	0
MSC-7040 FLOW 1200 MW	Normal	2100	12	2125	12	25
	Emergency	2575	13	2550	13	-25
MSC-7040 FLOW 800 MW	Normal	1925	12	1950	12	25
	Emergency	2250	13	2250	13	0

NYISO SUMMER 2004 CROSS-STATE THERMAL LIMIT CONTINGENCY LIST

	<u>Limiting Element</u>				<u>Contingency</u>
(1)	Niagara - Rochester (NR-2) 345kV	@LTE	1501 MW	L/O	AES/Somerset - Rochester (SR-1) 345kV
(2)	Niagara - Rochester (NR-2) 345kV	@LTE	1685 MW	L/O	AES/Somerset - Rochester (SR-1) 345kV
(3)	Stolle Rd. – Meyer (67) 230 kV	@NOR	430 MW		Pre-Contingency Loading
(4)	Leeds – Pleasant Valley (92) 345kV	@LTE @STE	1538 MW 1724 MW	L/O	Athens – Pleasant Valley 345kV
(5)	Sprain Brook – W. 49th St. 345kV	SCUC- rating	1078 MW	L/O	(Breaker failure @ Sprain Brook 345kV) Sprain Brook – W. 49th St. 345kV Sprain Brook 345/138kV
(6)	Sprain Brook – W. 49 th St. 345 kV	@NOR	774 MW		Pre-Contingency Loading
(7)	Dunwoodie – Shore Rd. (Y50) 345kV	@LTE	877 MW	L/O	Sprain Brook – E.G.C. (Y49) 345kV
(8)	Dunwoodie – Shore Rd. (Y50) 345 kV	@NOR	599 MW		Pre-Contingency Loading
(9)	New Scotland – Leeds (93) 345kV	@LTE	1538 MW	L/O	New Scotland – Leeds (94) 345kV
(10)	New Scotland – Leeds (93) 345kV	@STE	1724 MW	L/O	New Scotland – Leeds (94) 345kV
(11)	Fraser – Coop Corners (FCC-33)345 kV	@LTE	1404 MW	L/O	Marcy–Coopers Corners (UCC2-41) 345 kV Porter – Rotterdam (30) 230 kV
(12)	Adirondack – Porter 230kV	@LTE	353 MW	L/O	(Breaker failure @ Porter 230kV) Adirondack - Porter (11) 230kV Edic (T2) 345/230kV Edic (T4) 345/115kV
(13)	Browns Falls – Taylorville 115 kV	@STE	134 MW	L/O	Chateauguay–Massena (MSC-7040) 765 kV Massena – Marcy (MSU-1) 765 kV and Hydro-Quebec delivery

APPENDIX I
SUMMARY OF EXISTING STABILITY LIMITS

**APPENDIX I
NYISO STABILITY LIMITS**

	<i>LIMIT</i>	<i>REPORT</i>	<i>DATE</i>
TOTAL-EAST			
SEASONAL LIMIT	6500	TE-2	1995
5018 BRANCHBURG-RAMAPO 500 KV O/S	6400	TE-3	3/95
5018 BRANCHBURG-RAMAPO 500 KV O/S WITH ANY SVC O/S	6300	TE-3	3/95
UPNY-CONED			
SEASONAL LIMIT	5100	TE-1	1988
Y88 LADENTOWN-BUCHANAN 345 KV O/S	4150	UC-2	1/93
Y94 RAMAPO-BUCHANAN N. 345 KV O/S	4150	UC-2	1/93
RFK-305 ROSETON-E. FISHKILL 345 KV O/S	4100	UC-2	1/93
5018 BRANCHBURG-RAMAPO 500 KV O/S	4000	UC-1	1/93
CENTRAL-EAST			
SEASONAL LIMIT WITH 3 OSWEGO & 5 SITHE UNITS, SVCs and STATCOM in service	3100	CE-14	4/2001
4 LAFAYETTE-OAKDALE 345 KV O/S	2900	CE-8	6/95
32 OAKDALE-FRASER 345 KV O/S	3050	CE-8	6/95
<i>Oswego Complex, Sithe and Marcy STATCOM, Leeds and Fraser SVC Limits have been revised as a result of the addition of the Marcy STATCOM Please refer to the NYISO Report: “Marcy FACTS Project – Phase I Voltage and Stability Limits April 11, 2001”</i>		CE-14	4/2001

<i>Both Chateaugay HVdc poles O/S, or 1 Chateaugay HVdc pole I/S <100 MW, or both Chateaugay HVdc poles <150 MW (net), then: Limit Oswego Complex to 3200 MW for 4 Units I/S & Sithe O/S Limit Oswego Complex to 3500 MW for 5 Units I/S & Sithe O/S or 4600 for 5-Units I/S & Sithe I/S</i>		CE-3	9/20/93
NEW SCOTLAND 77 OR 99 BUS O/S	2050	CE-1	5/10/89
14 EDIC-NEW SCOTLAND 345 KV O/S	2050	CE-1	5/10/89
UNS-18 MARCY-NEW SCOTLAND 345 KV O/S	2050	CE-1	5/10/89
MSU-1 MASSENA-MARCY 765 KV O/S	2700	CE-15	02/12/03
MOSES-SOUTH			
SEASONAL LIMIT WITH 2 HVDC POLES I/S (MAX CHAT-MASSENA = 2370)	2900	MS-6	5/6/93
R8105 ALCOA BUS TIE 115 KV O/S	2600	MS-1	1/23/91
3 CHAT BANKS 765/120 KV I/S, (MAX CHAT-MASSENA = 1800)	2500		
ONE MOSES-ADIRONDACK-PORTER 230 KV CKT O/S	2450	MS-2	1/9/88
4 CHAT 765/120 kV BANKS I/S - SPLIT BUS & 1 HVDC POLE I/S (MAX CHAT - MASSENA = 1870 MW)	2600	MS-7	3/15/94
2 CHAT 765/120 KV BANKS I/S & 1 HVDC POLE I/S (MAX CHAT-MASSENA = 1650 MW)	2350	MS-5	1/14/94
3 CHAT 765/120 KV BANKS I/S & 1 HVDC POLE I/S (MAX CHAT-MASSENA = 1400)	2150	MS-5	1/14/94
2 HVDC POLES O/S (MAX CHAT-MASSENA = 1170)	2000	MS-4	1990
MSU-1 I/S WITH NO DIRECT TRANSFER TRIP FOR GEN REJECTION AT QUEBEC (MAX CHAT-MASSENA = 650)	1100	MS-2	11/29/84
MSU-1 MASSENA-MARCY 765KV O/S (MAX CHAT-MASSENA= 475)	675		2/9/84
MSU-1 MASSENA-MARCY 765 KV AND ONE MOSES-ADIRONDACK-PORTER 230 KV O/S	500		

MOSES-NORTH			
SEASONAL LIMIT	1600	MN-1	12/1/89
ONE OR TWO MOSES-ADIRONDACK-PORTER 230 KV CKTS O/S	1600	MN-2	2/10/90
MSU-1 MASSENA-MARCY 765 KV O/S	1100	MN-2	
WEST-CENTRAL			
SEASONAL LIMIT	2350	WC-1	9/18/89
NR-2 NIAGARA-ROCHESTER 345 KV OR SR-1 KINTIGH-ROCHESTER 345 KV O/S	2150	WC-2	10/14/91
DYSINGER-EAST			
SEASONAL LIMIT	2850	DE-1	7/27/92
67 STOLLE ROAD-MEYER 230 KV OR 68 MEYER-HILLSIDE 230 KV O/S	2650	DE-1	7/27/92
NR-2 NIAGARA - ROCHESTER 345 KV OR SR-1 KINTIGH - ROCHESTER 345 KV O/S	2500	DE-1	7/27/92
NYISO-PJM			
SEASONAL LIMIT	3600	NP-1	9/94
PJM-NYISO			
SEASONAL LIMIT	3600	NP-1	9/94
NYISO-IMO			
SEASONAL LIMIT	2500	NOH-1	11/10/93
PA301 OR PA302 BECK-NIAGARA 345 KV O/S	2300	NOH-1	11/10/93
PA27 OR BP76 OR L33P OR L34P O/S	2300	NOH-1	11/10/93
PA301 & PA302 BECK-NIAGARA 345 KV O/S	500	NOH-3	1995
IMO-NYISO			
SEASONAL LIMIT	2500	NOH-1	11/10/93
PA301 OR PA302 BECK-NIAGARA 345 KV O/S	2300	NOH-1	11/10/93
PA27 OR BP76 OR L33P OR L34P O/S	2300	NOH-1	11/10/93
PA301 & PA302 BECK-NIAGARA 345 KV O/S	800	NOH-3	1995

WESTERN NY EXPORT			
BOTH BECK-NIAGARA 345 KV CKTS O/S W/ NIAGARA GEN REJ I/S	1700	NOH-3	2/95
BOTH BECK-NIAGARA 345 KV CKTS O/S W/ NIAGARA GEN REJ O/S OR BOTH BECK-NIAGARA 345 KV CKTS O/S & PA27 CKT O/S OR ONE BECK-NIAGARA 345KV CKT O/S & PA27 & BP76 CKTS O/S	1100	NOH-3	2/95
NYISO-ISO-NE			
SEASONAL LIMIT	2200	NE-1	10/92- 1996
2 NEW SCOTLAND - ALPS 345 KV O/S	2150	NE-1	10/92
329 FROST BRIDGE - SOUTHTON 345 KV O/S	2100	NE-1	10/92
312 BERKSHIRE - NORTHFIELD 345 KV O/S	1950	NE-1	10/92
352 LONG MOUNTAIN - FROST BRIDGE 345 KV O/S	1850	NE-1	10/92
393 ALPS - BERKSHIRE 345 KV O/S	1600	NE-1	10/92
393/312 ALPS-BERKSHIRE-NORTHFIELD 345 KV O/S	1500	NE-1	10/92
398 PLEASANT VALLEY - LONG MOUNTAIN 345 KV O/S	1150	NE-1	10/92
ISO-NE-NYISO			
THIS LIMIT IS SET BY NE, NYISO SPD MUST CALL FOR LIMIT		NE-1	10/92

**NYISO STABILITY REPORT
SUMMARY**

REPORT	REPORT TITLE	LAST REVISED DATE
TE-2	TOTAL EAST STABILITY ANALYSIS WITH SITHE GENERATION O/S	1/95
TE-3	NYISO TOTAL EAST ANALYSIS - A. HARGRAVE	3/95
UC-1	REVISED MAINTENANCE STABILITY TRANSFER LIMITS FOR BRANCH- RAMAPO O/S-NYPP	1/93
UC-2	RWW ANALYSIS - NYPP	1/93
CE-1	REVISED CENTRAL EAST STABILITY LIMITS BASED ON SVC RESERVE - K. TAMMAR TO C. COREY	5/10/89
CE-2	CENTRAL EAST STABILITY LIMIT W/ 765 KV SYSTEM O/S - NYPA TO K. TAMMAR	7/12/90
CE-3	CE & OSWEGO COMPLEX STABILITY LIMITS FOR THE CHATEAUGUAY HVDC O/S-NYPP/NYPA	9/20/93
CE-5	NYISO CE STABILITY LIMITS FOR LEEDS OR FRASER SVC O/S	4/12/94
CE-6	CENTRAL EAST STABILITY ANALYSIS PRE-SITHE CONFIGURATION	10/94
CE-7	CENTRAL EAST STABILITY ANALYSIS POST SITHE CONFIGURATION	2/95
CE-8	CENTRAL EAST STABILITY LIMITS FOR THREE OSWEGO UNITS I/S	6/1/95
CE-9	CENTRAL EAST STABILITY LIMITS FOR TWO OSWEGO UNITS I/S	4/17/96
CE-10	CENTRAL EAST STABILITY LIMITS FOR ONE OSWEGO UNIT I/S	4/17/96
CE-11	CENTRAL EAST STABILITY LIMITS FOR ZERO OSWEGO UNITS I/S	6/27/97
CE-12	CENTRAL EAST STABILITY LIMITS FOR 4/5 OSWEGO UNIT I/S	11/99
CE-14	CENTRAL EAST VOLTAGE AND STABILITY ANALYSIS FOR MARCY FACTS PROJECT – PHASE I	04/11/2001
CE-15	CENTRAL EAST STABILITY LIMITS FOR MASSENA-MARCY (MSU1) O/S	02/12/2003
MS-2	RT GONZALES ANALYSIS	1/9/88
MS-3	RW WALDELE ANALYSIS	11/29/84
MS-4	NYPA ANALYSIS W/2 HVDC POLES O/S	1990
MS-5	OPERATION OF THE MSC-7040 LINE W/1650 MW IMPORT FROM HYDRO QUEBEC & ONE HVDC CONVERTER I/S	12/20/93
MS-6	CHATEAUGUAY 2370MW IMPORT ANALYSIS	5/6/93
MS-7	SPLIT 120 KV BUS OPERATION OF THE CHAT/BEAU COMPLEX W/ ONE HVDC CONVERTER O/S -NYPA	3/15/94
MN-1	RWW ANALYSIS 12/13/89 KT MEMO TO JEK	12/1/89
MN-2	JAM ANALYSIS #89030S MOSES-SOUTH W/MAP OS	2/10/90

WC-1	AWH ANALYSIS - NYISO	9/18/89
WC-2	WEST CENTRAL TRANSIENT STABILITY LIMITS FOR LINE OUTAGE CONDITIONS - NYISO	10/14/91
DE-1	DYSINGER EAST TRANSIENT STABILITY LIMITS FOR LINE OUTAGE CONDITIONS - NYISO	7/27/92
NOH-1	NYISO-OH DIRECT TIE STUDY OCTOBER 1993 SEE CA KING LETTER TO SOAS DATED 11/10/93	10/93
NOH-2	OH-NYISO TS STUDY GROUP ANALYSIS	1983-1984
NOH-3	NYISO STABILITY ANALYSIS WITH PA301/PA303 O/S	2/95
NE-1	1992-1996 NYISO-NEPOOL TRANSFER LIMIT STUDY	10/92
NP-1	NYISO-PJM STABILITY ANALYSIS ON THE DIRECT TIE TRANSFER CAPABILITY	9/94