

APPENDIX A

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

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**SCHEDULE OF NET INTERCHANGES**

<b>TO FROM</b>	<b>NYISO</b>	<b>PJM</b>	<b>PJM- WEST</b>	<b>IMO</b>	<b>ISONE</b>	<b>NB/NS</b>	<b>Trans Énergie</b>	<b>Other Control Areas</b>	<b>TOTAL EXPORT+ IMPORT-</b>
<b>NYISO</b>		13	0	0	126	0	-1200	82	-979
<b>PJM</b>	-13			0	0	0	0		-618
<b>PJM- WEST</b>									
<b>IMO</b>	0	0	0		0	0	0	-2	-2
<b>ISONE</b>	-126	0	0	0		-700	-1000	0	-1826
<b>NB/NS</b>	0	0	0	0	700		0	0	700
<b>Trans Énergie</b>	1200	0	0	0	1000	0		0	2200

**APPENDIX A**  
**SUMMARY OF SUMMER 2003 BASE TRANSFERS**

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

<b>NEW ENGLAND</b>	
New England to New Brunswick	-700
New England to TransÉnergie: Sandy Pond and Highgate HVdc	-1000
New England to New York	-126
<b>Total Export (+) / Import (-)</b>	<b>-1826</b>

<b>NEW YORK ISO</b>	
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	-45
New York to ECAR: NYPA to AMP- Ohio	82
New York to IMO (Ontario)	0
<b>Total Export (+) / Import (-)</b>	<b>-979</b>

<b>IMO (Ontario)</b>	
IMO to TransÉnergie	0
IMO to New York	0
IMO to ECAR: ITC & METC	198
IMO to MAPP	-200
<b>Total Export (+) / Import (-)</b>	<b>-2</b>

**APPENDIX A**  
**SUMMARY OF SUMMER 2002 BASE TRANSFERS**

<b>PJM and PJM West</b>	
PJM to New York: NYPA to PA-RECS	-94
PJM to New York: Sithe Allegheny	36
PJM to New York: Non Firm Energy	45
PJM to VACAR	-260
PJM to ECAR	- 321
Miscellaneous Transfers to Other Areas	- 321
<b>Total Export (+) / Import (-)</b>	<b>-618</b>

<b>TRANSÉNERGIE</b>	
TransÉnergie to New Brunswick: Madawaska and Eel River HVdc	0
TransÉnergie to New England: Sandy Pond and Highgate HVdc	1000
TransÉnergie to New York	1200
TransÉnergie to IMO (Ontario)	0
<b>Total Export (+) / Import (-)</b>	<b>2200</b>

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**APPENDIX B**

**SUMMER 2003 BASE CASE CONDITIONS**

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**SUMMER 2003 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	610 MW	In Service
GINNA	507 MW	In Service
Sithe/Independence	1099 MW	In Service
Oswego #5	0 MW	Out of Service
Oswego #6	881 MW	In Service
Nine Mile Pt #1	621 MW	In Service
Nine Mile Pt #2	1212 MW	In Service
J.A. Fitzpatrick	849 MW	In Service
St. Lawrence/FDR (17-32)	892 MW	In Service
Roseton 1	584 MW	In Service
Roseton 2	585 MW	In Service
Gilboa	492MW	In Service
Saranac Energy	239 MW	In Service
Selkirk Cogen	339 MW	In Service
Indian Pt #2	927 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	855 MW	In Service
Ravenswood #3	971 MW	In Service
ECP/Linden Cogen	643 MW	In Service
Arthur Kill #3	491 MW	In Service

**ISO-NE**

Millstone Point #2	857 MW	In Service
Millstone Point #3	1137 MW	In Service
Vermont Yankee	502 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)	3520 MW	In Service
Beck 1 & 2	249/1223 MW	In Service
Bruce B (4 Units)	3440 MW	In Service
Lambton (3 Units)	1458 MW	In Service
Pickering (A & B, 5 Units)	540/2024 MW	In Service
Nanticoke (7 Units)	3280 MW	In Service
St. Lawrence/Saunders (1-16)	583 MW	In Service

**PJM**

Peach Bottom #2	677 MW	In Service
Peach Bottom #3	1093 MW	In Service
Salem #1	0 MW	Out of Service
Salem #2	1119 MW	In Service
Limerick #1	1134 MW	In Service
Limerick #2	1150 MW	In Service
Hope Creek	1043 MW	In Service
Susquehanna #1	1140 MW	In Service
Susquehanna #2	1144 MW	In Service

**TransEnergie HVdc CONVERTER SCHEDULES**

Chateauguay HVdc	1200 MW	In Service
Sandy Pond HVdc	800 MW	In Service
Highgate HVdc	200 MW	In Service
Madawaska HVdc	0 MW	Out of Service
Eel River HVdc	0 MW	Out of Service

**AREA LOADS & LOSSES**

NYISO	32123 MW
ISO-NE	25654 MW
IMO (Ontario)	24701 MW
PJM	55085 MW

**PHASE ANGLE REGULATOR SCHEDULES**

Inghams (CD-ED)	120 MW
Plattsburgh-Sandbar (PV-20)	143MW
St. Lawrence-Moses L33P	0 MW
St. Lawrence-Moses L34P	0 MW
Norwalk Harbor-Northport	200 MW
Jamaica-Valley Stream	-55 MW
Jamaica-Lake Success	-200 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)	193 MW
Ramapo PAR #2 (+ to NY)	193 MW
East Garden City #1	252 MW
East Garden City #2	252 MW

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## **APPENDIX C**

# **POWER FLOW TRANSCRIPTION DIAGRAMS**

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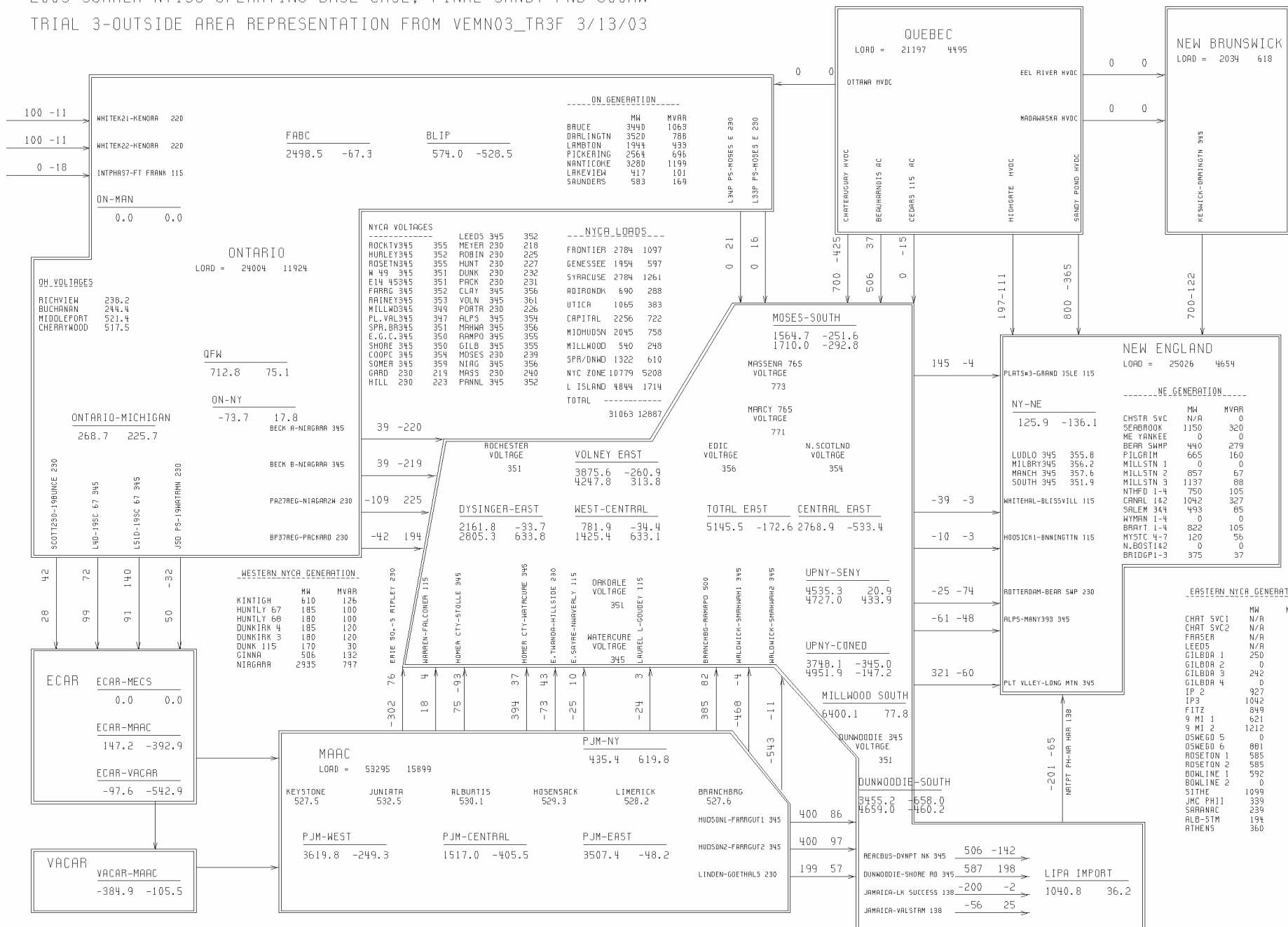
## INDEX

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

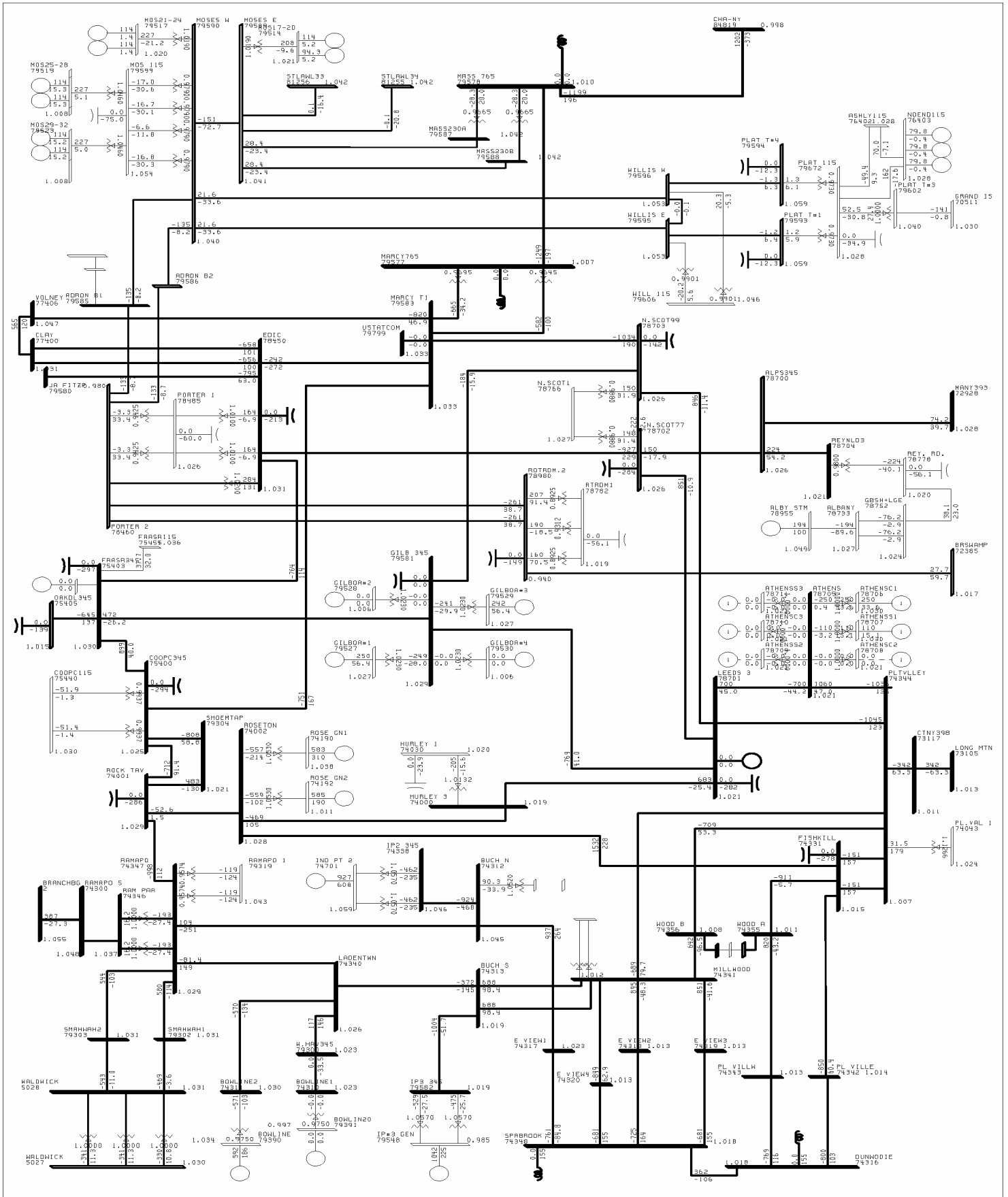
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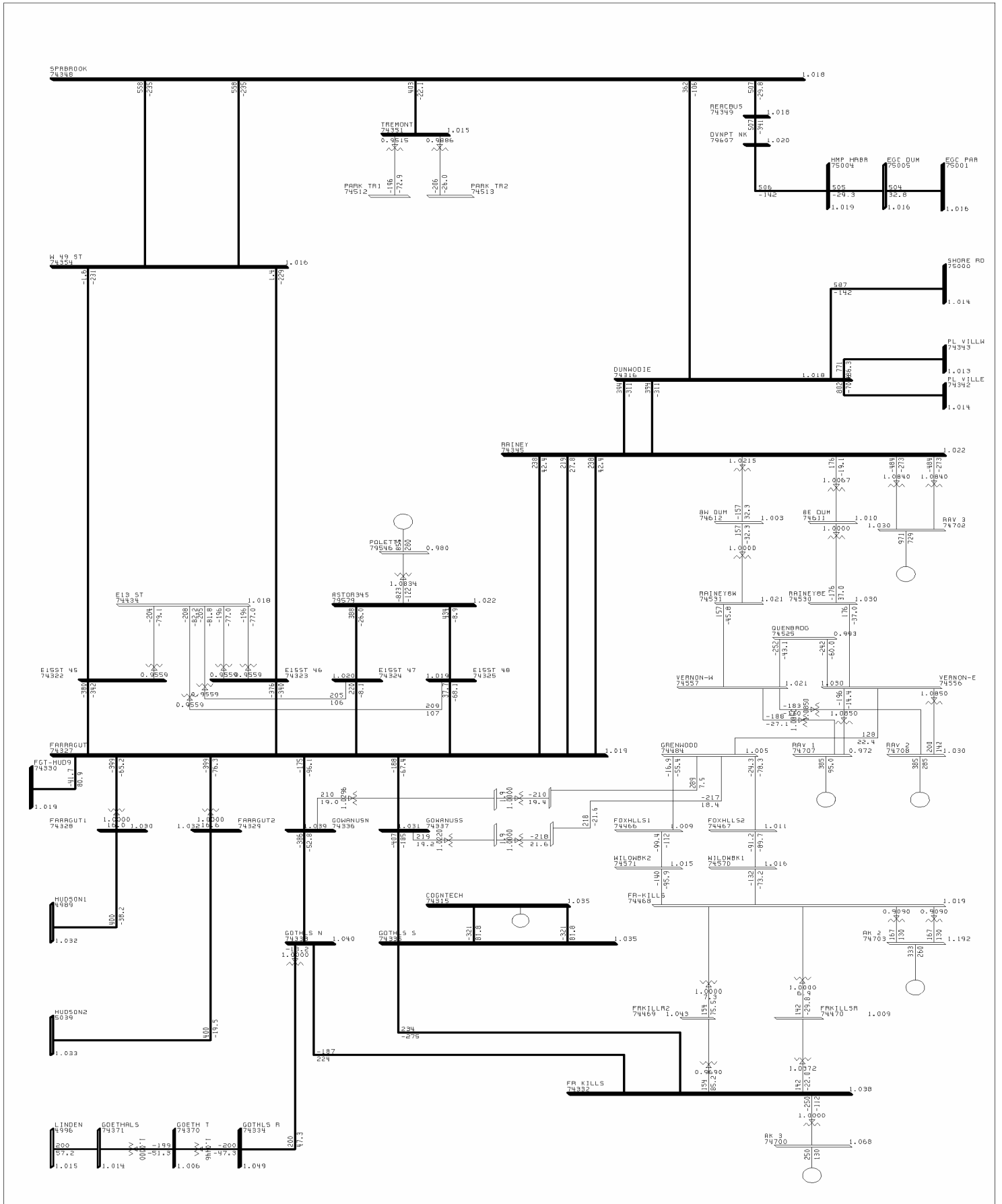
2003 SUMMER NYISO OPERATING BASE CASE, FINAL SANDY PND 800MW  
TRIAL 3-OUTSIDE AREA REPRESENTATION FROM VEMN03\_TR3F 3/13/03



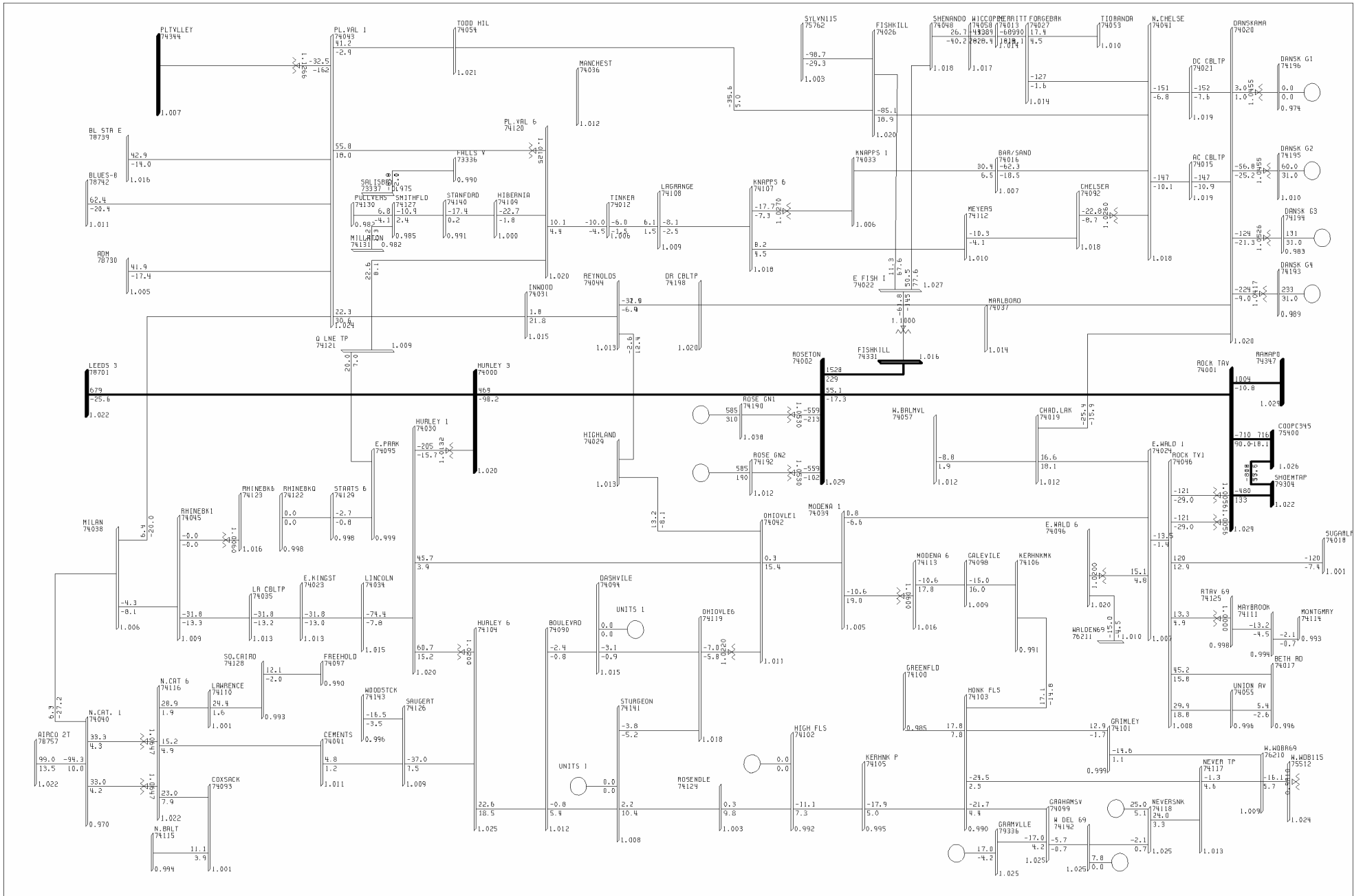




<p>2003 SUMMER NYISO OPERATING BASE CASE, FINAL TRIAL 3-OUTSIDE AREA REPRESENTATION FROM VEMN03_TR3F 2/10/03 2) EASTERN NYISO WED, MAR 19 2003 11:36</p>	<p>KV: ≤138 .#290 .#345</p>	<p>BUS - VOLTAGE (PU) BRANCH - MW/MVAR EQUIPMENT - MW/MVAR</p>
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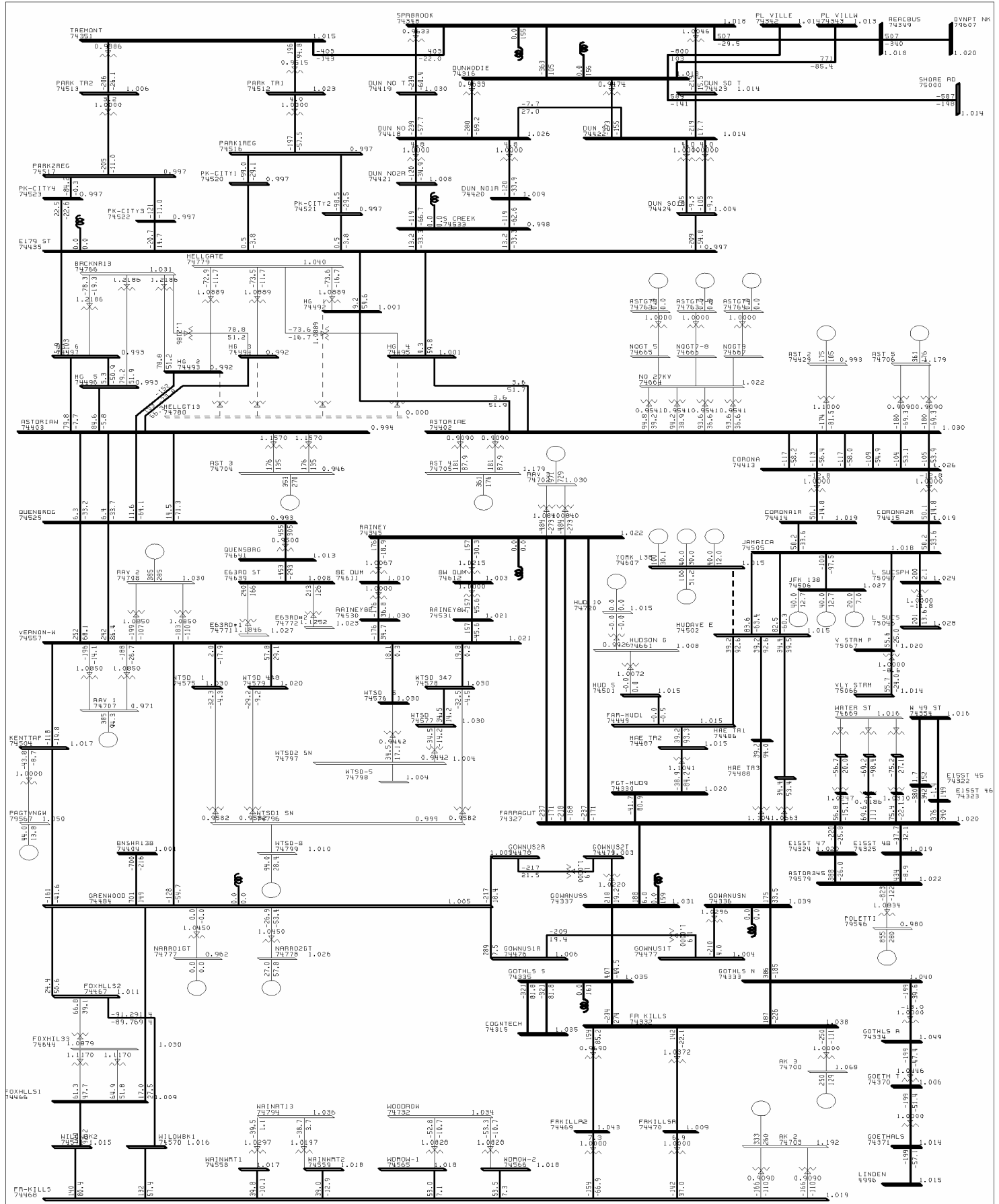
2003 SUMMER NYISO OPERATING BASE CASE, FINAL TRIAL 3-OUTSIDE AREA REPRESENTATION FROM VEMN03\_TR3F 2/10/03  
 3) SOUTHERN NYISO FRI, FEB 21 2003 11:58  
 KV: ≤136 .4230 .4345  
 BUS - VOLTAGE (PU)  
 BRANCH - MW/MVAR  
 EQUIPMENT - MW/MVAR



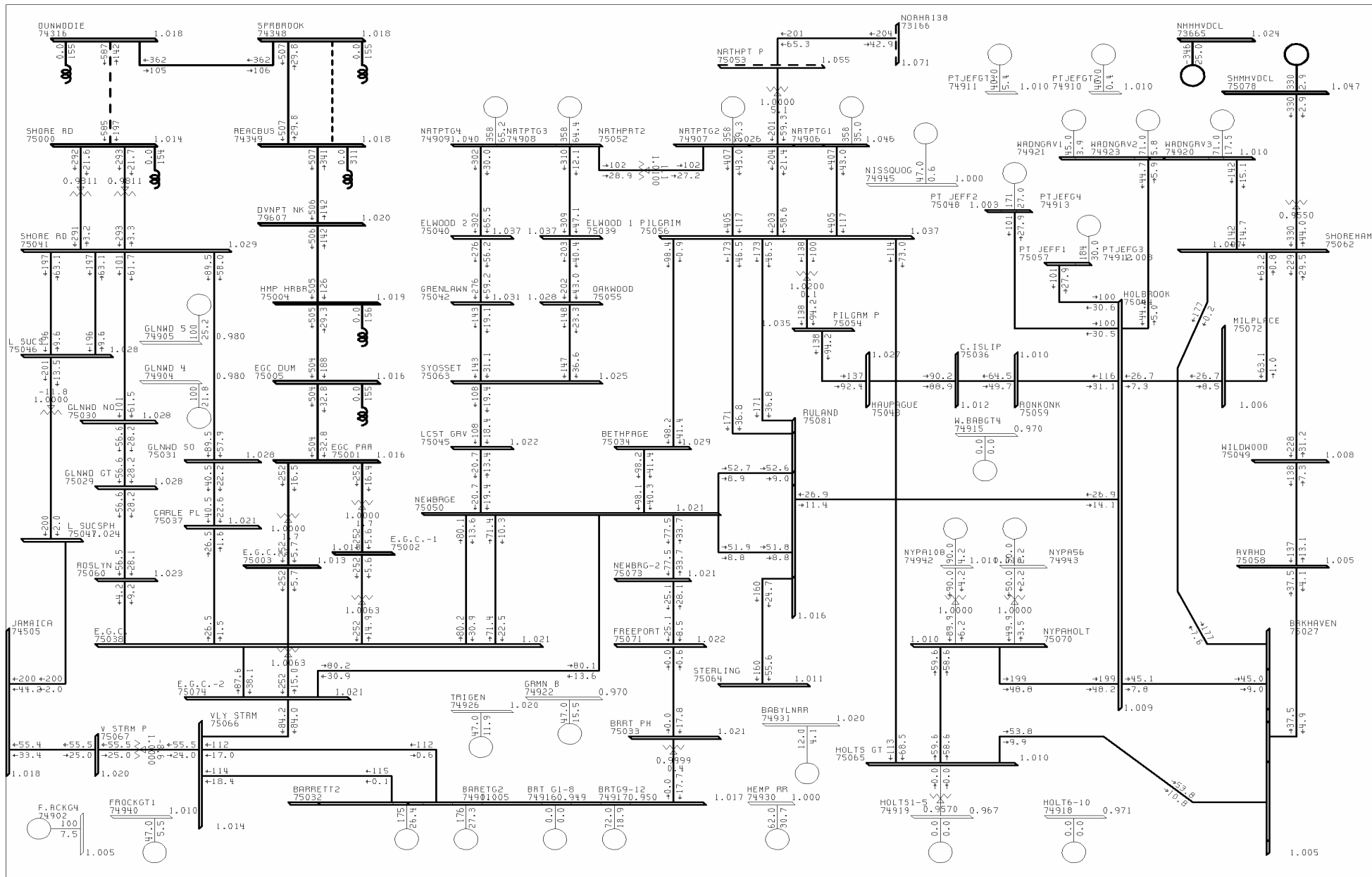
2003 SUMMER NYISO OPERATING BASE CASE, FINAL SANDY PND 800MW  
TRIAL 3-OUTSIDE AREA REPRESENTATION FROM VEMN03\_TR3F 3/13/03  
4) CENTRAL HUDSON TUE, MAR 25 2003 14:49

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

NYISO OPERATING STUDY  
SUMMER 2003



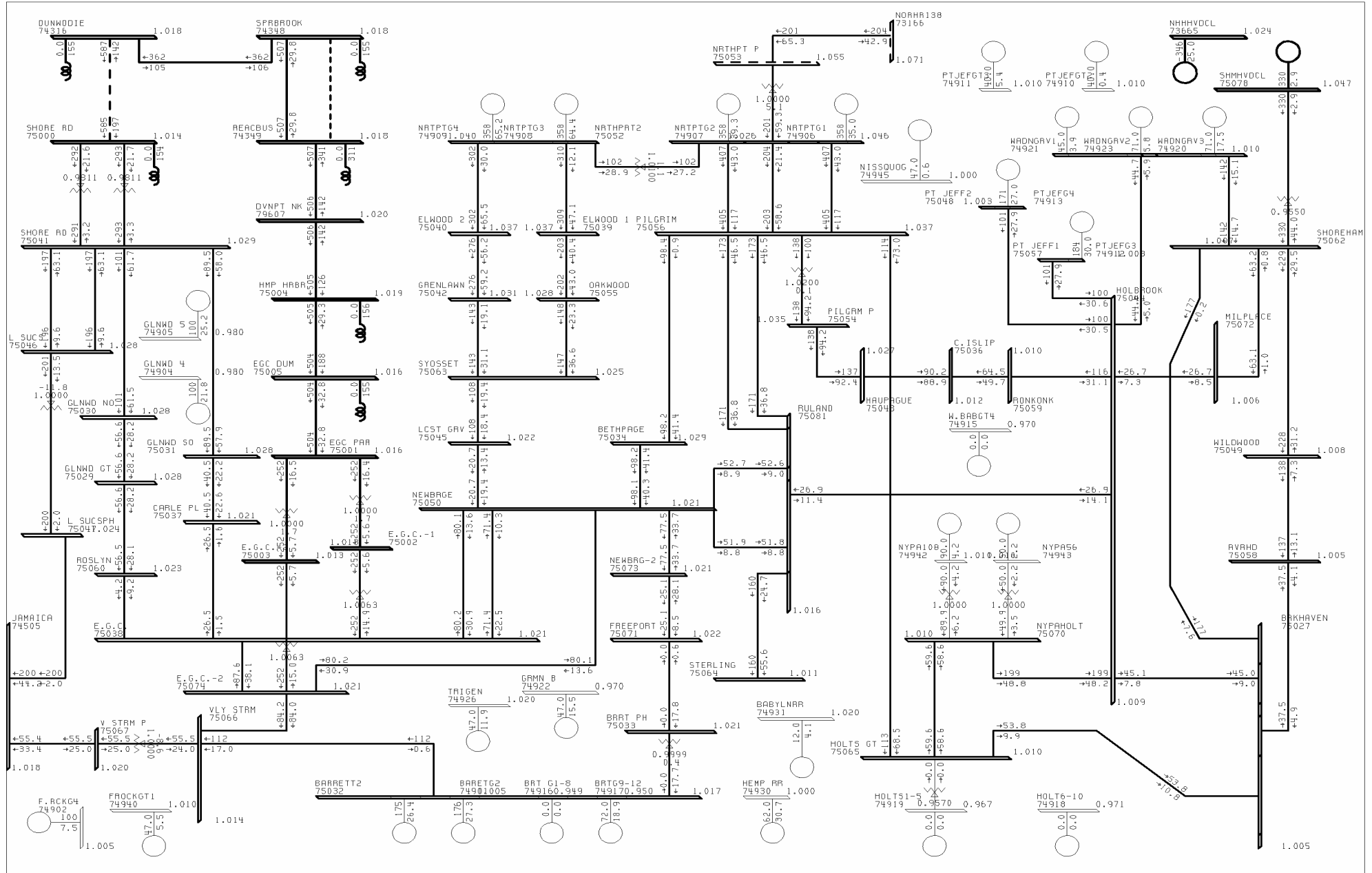
2003 SUMMER NYISO OPERATING BASE CASE, FINAL SANDY PND 800MW  
 TRIAL 3-OUTSIDE AREA REPRESENTATION FROM VEMN03\_TR3F 3/13/03  
 5) CON EDISON MON, MAR 31 2003 15:50



2003 SUMMER NYISO OPERATING BASE CASE, FINAL  
TRIAL 3-OUTSIDE AREA REPRESENTATION FROM VEMN03\_TR3F 2/10/03  
6) LIPA THU, MAR 20 2003 10:24

100% RATER  
0.950 0V 1.050 0V  
KV: ≤69 .≤138 .≤345

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

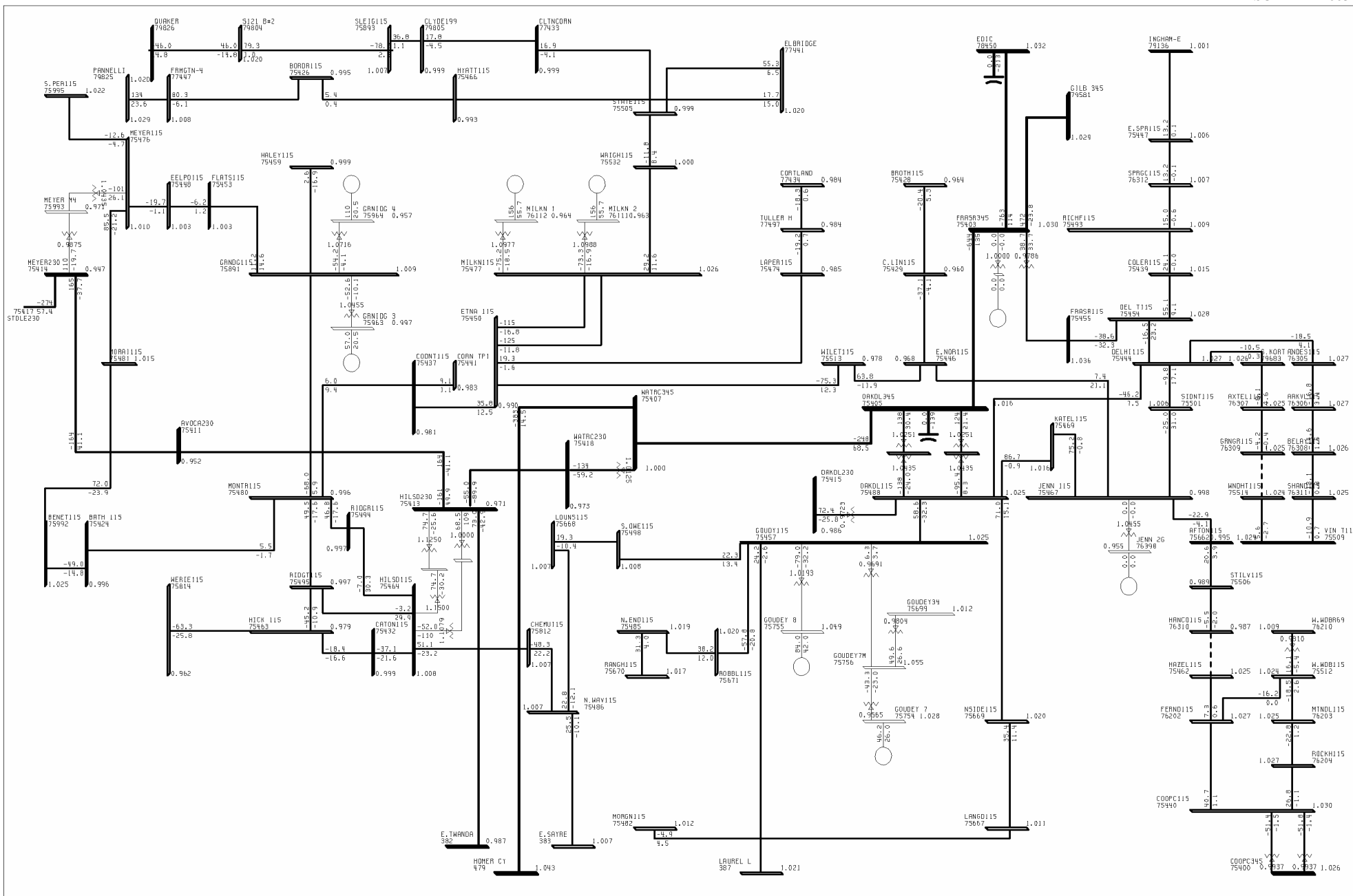


2003 SUMMER NYISO OPERATING BASE CASE, FINAL  
TRIAL 3-OUTSIDE AREA REPRESENTATION FROM VEMN03\_TR3F 2/10/03  
7) LIPA EMERGENCY TRANSFER WED, MAR 19 2003 11:32

100% RATER  
0.950 UV 1.050 QV  
KV:  $\leq 69$   $\leq 138$   $\leq 345$

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

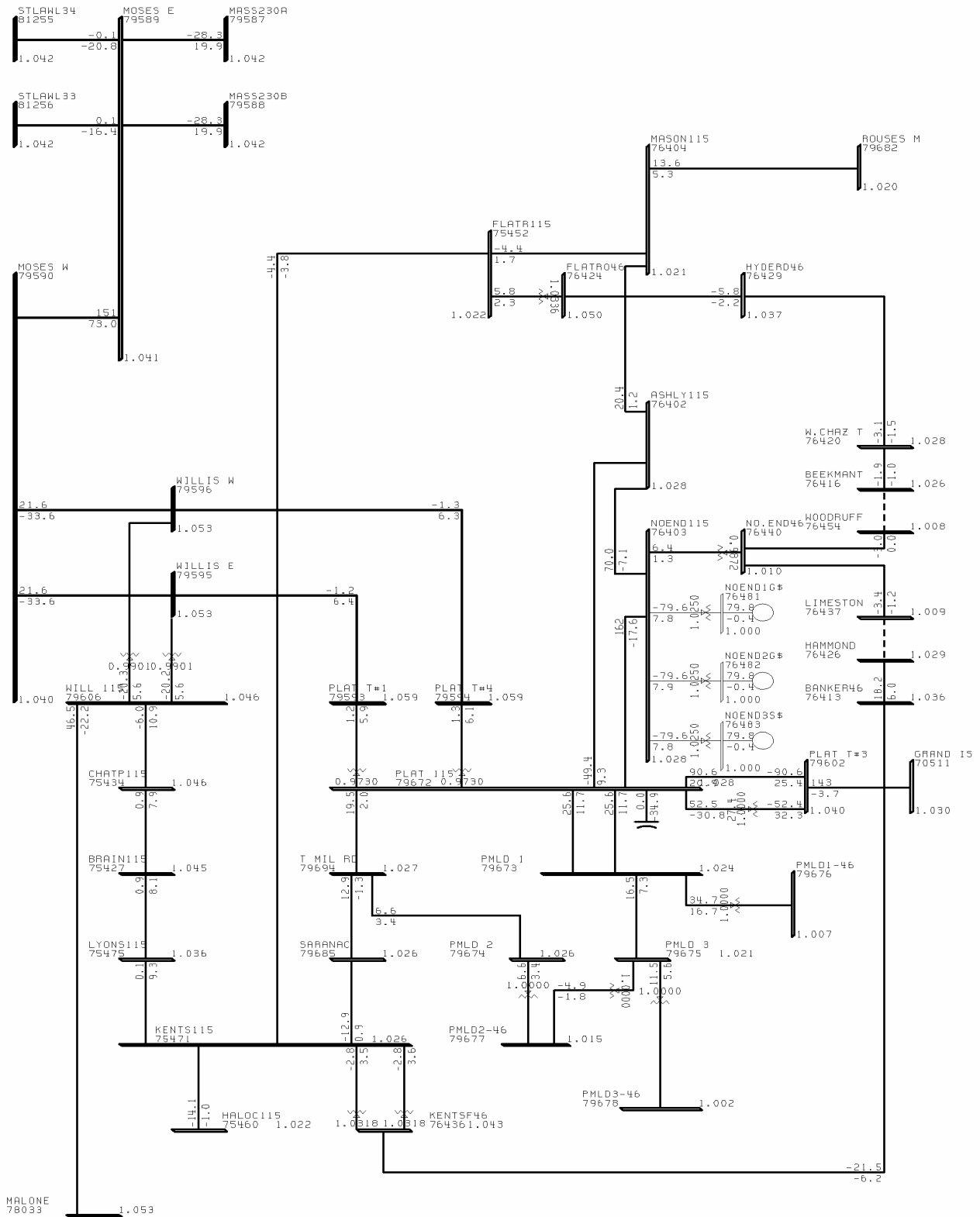


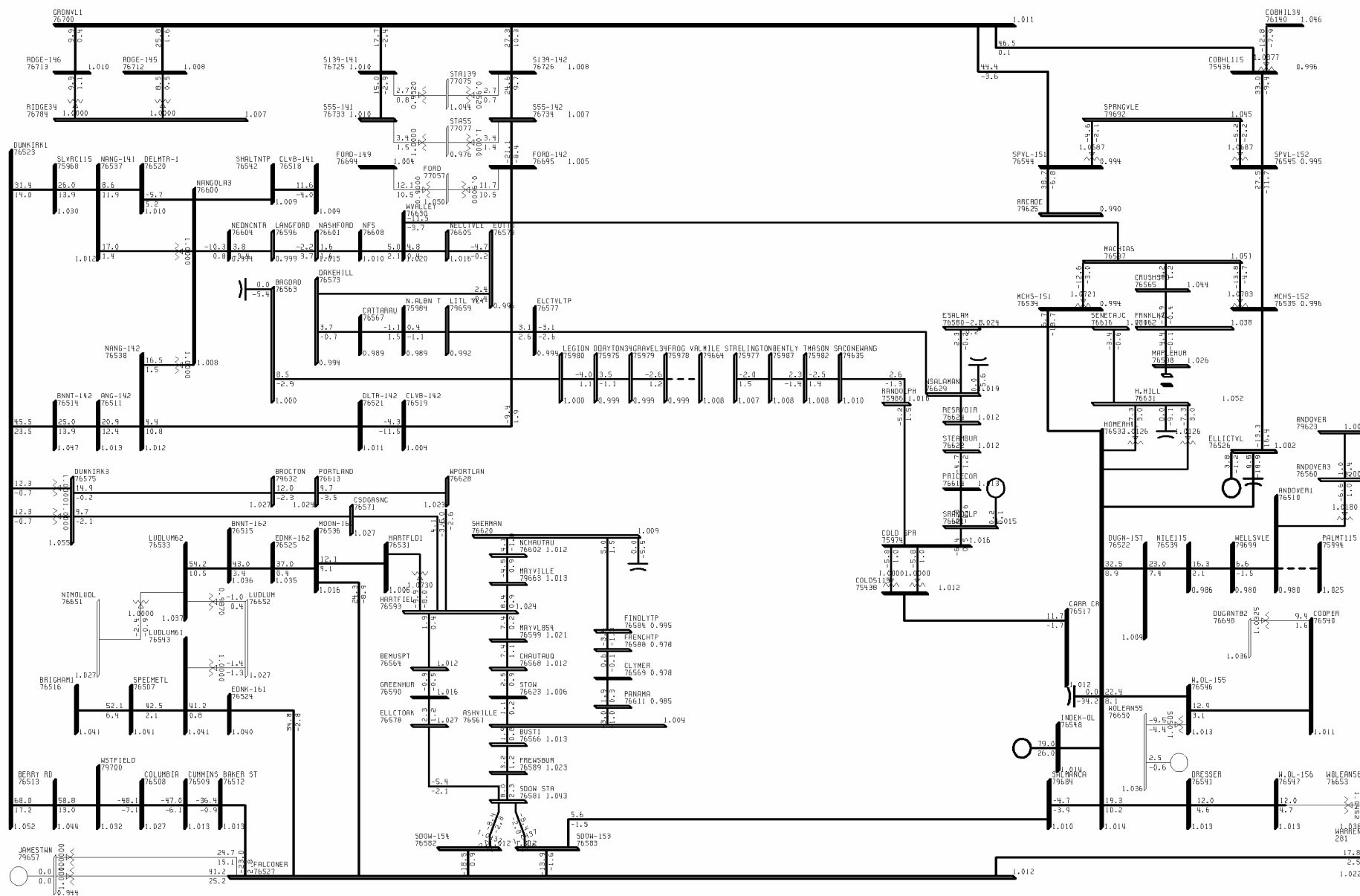


2003 SUMMER NYISO OPERATING BASE CASE, FINAL SANDY PND 800MW  
TRIAL 3-OUTSIDE AREA REPRESENTATION FROM VEMN03\_TR3F 3/13/03  
8) NYSEG MON, MAR 24 2003 10:50

KV: <math>\leq 35 .5115 .4230</math>

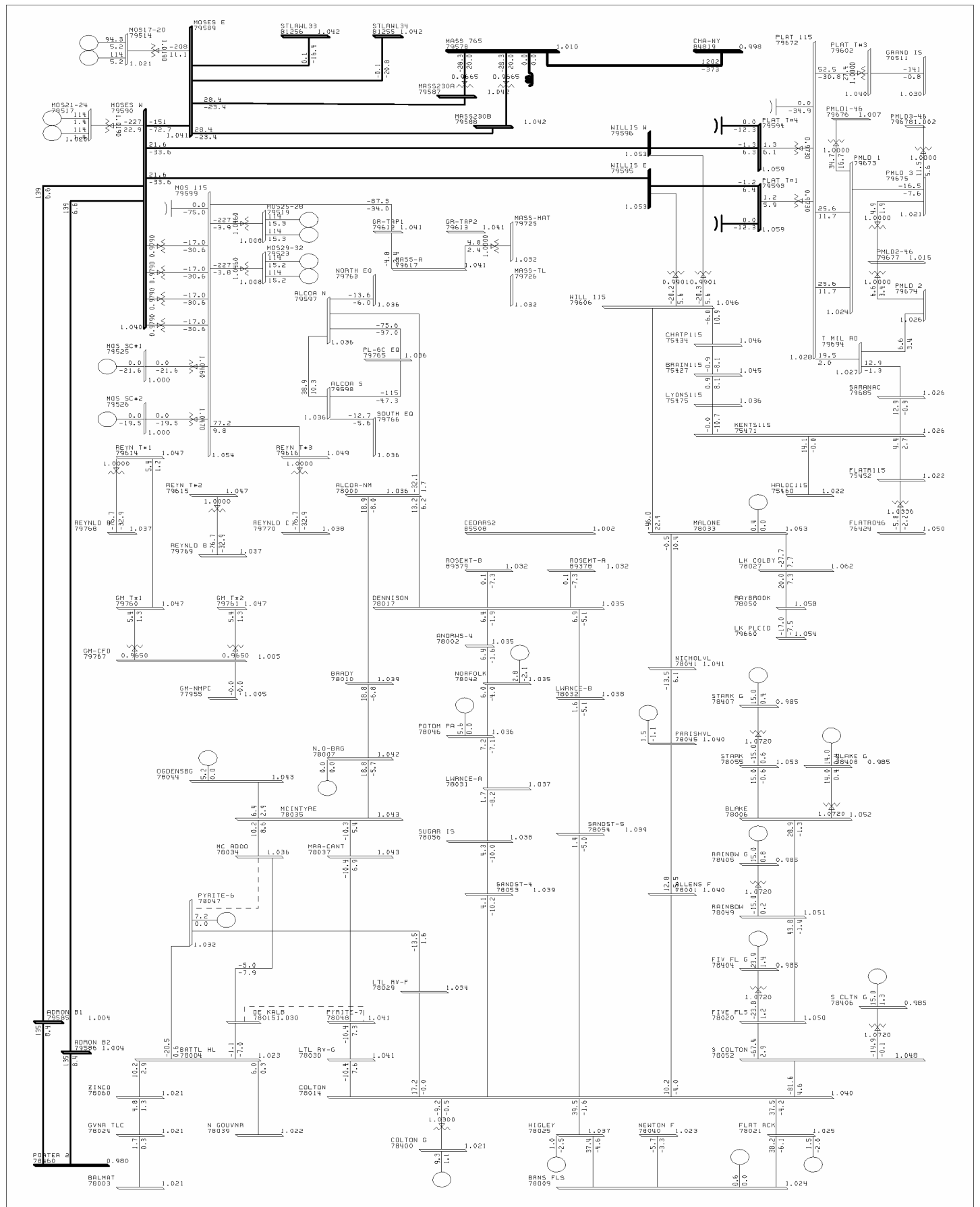
BUS - VOLTAGE (PU)  
BRANCH - MW/MVAR  
EQUIPMENT - MW/MVAR





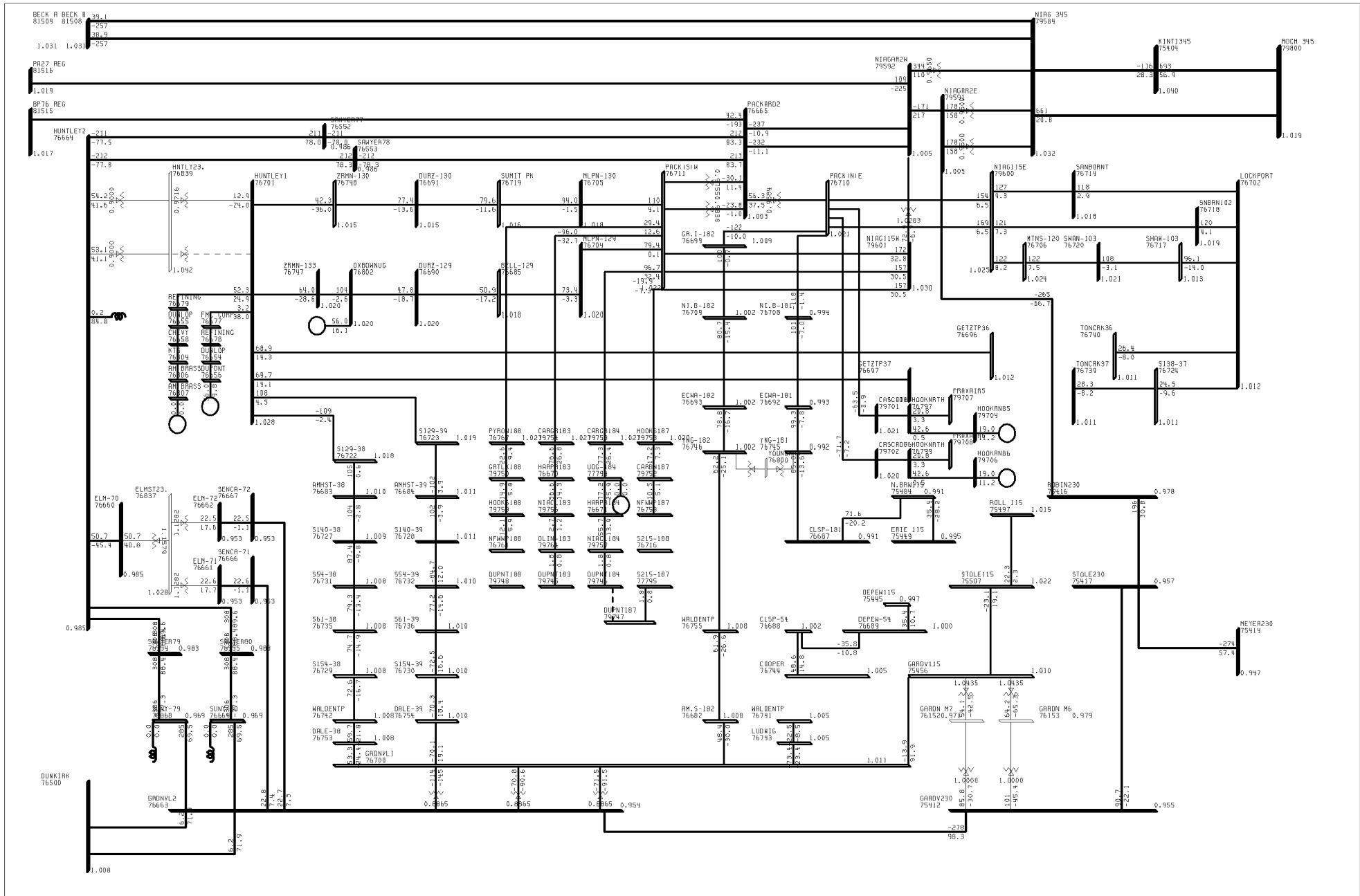
<p>2003 SUMMER NYISO OPERATING BASE CASE, FINAL TRIAL 3-OUTSIDE AREA REPRESENTATION FROM VEMN03_TR3F 2/10/03 10) NMPC SOUTHWEST FRI, FEB 21 2003 11:59</p>	<p>KV: &lt;math&gt;\leq 23 .435 .115&lt;/math&gt;</p>	<p>BUS - VOLTAGE (PU) BRANCH - MW/MVAR EQUIPMENT - MW/MVAR</p>
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NYISO OPERATING STUDY  
SUMMER 2003



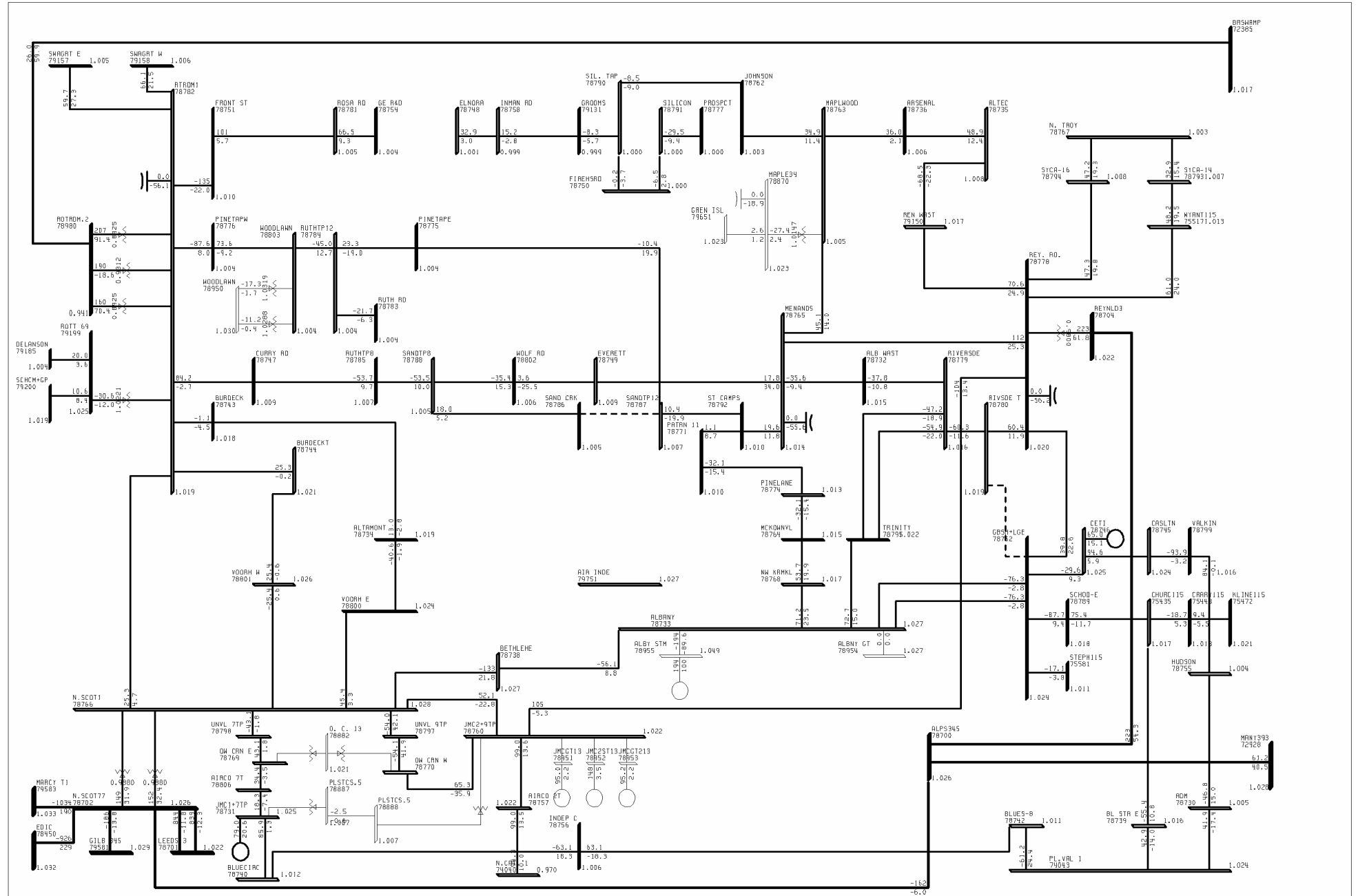
2003 SUMMER NYISO OPERATING BASE CASE, FINAL  
TRIAL 3-OUTSIDE AREA REPRESENTATION FROM VEMN03\_TR3F 2/10/03  
11) NMPC NORTH FRI, FEB 21 2003 11:59

BUS - VOLTAGE (PU)  
BRANCH - MW/MVAR  
EQUIPMENT - MW/MVAR  
KV: ≤138 .4290 .4345



2003 SUMMER NYISO OPERATING BASE CASE, FINAL SANDY PND 800MW TRIAL 3-OUTSIDE AREA REPRESENTATION FROM VEMN03\_TR3F 3/13/03  
 12) NMPC BUFFALO TUE, MAR 25 2003 14:24  
 KV: <math>\leq 35 .5115 .4230</math>  
 BUS - VOLTAGE (PU)  
 BRANCH - MW/MVAR  
 EQUIPMENT - MW/MVAR

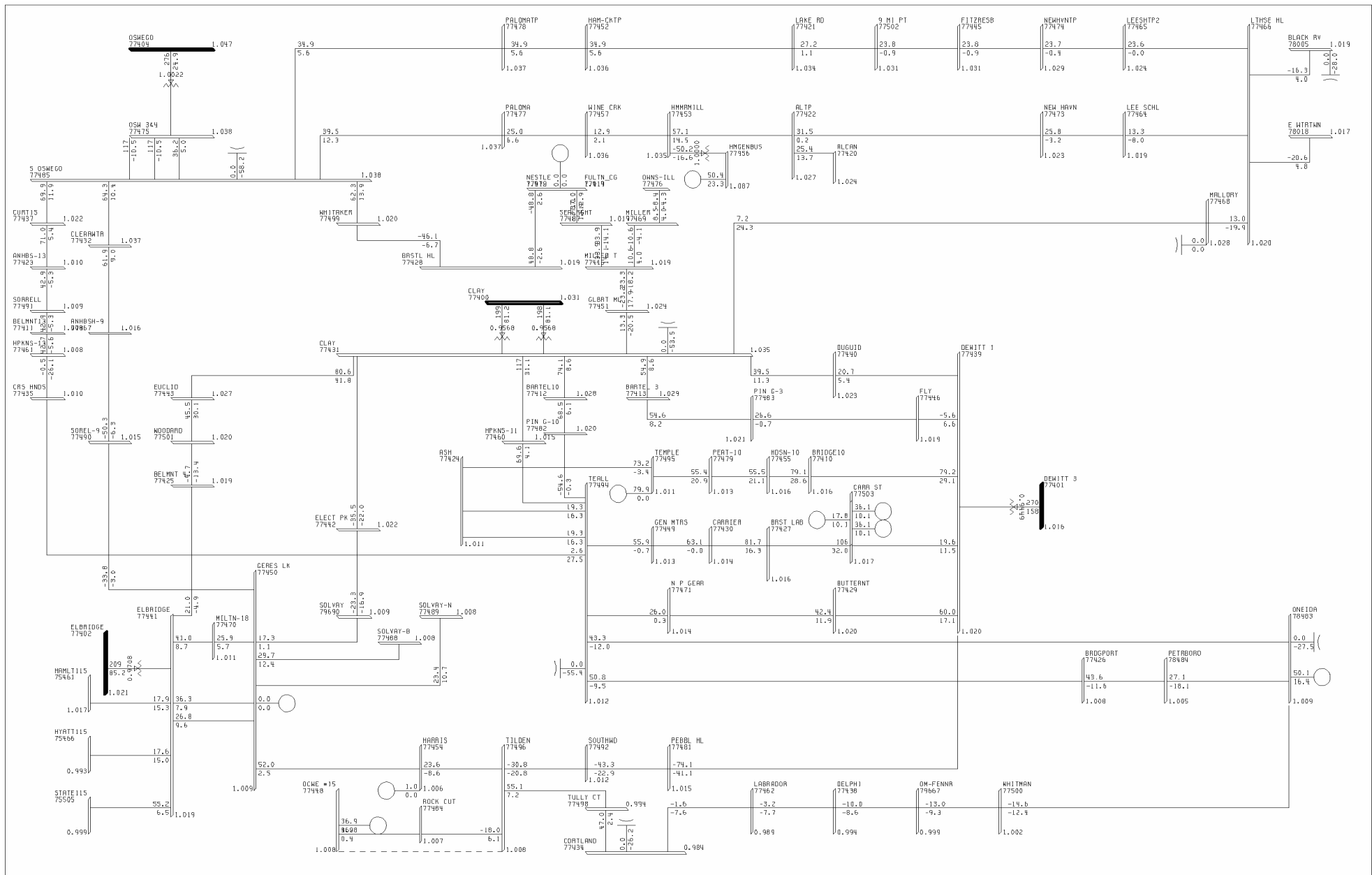
NYISO OPERATING STUDY  
SUMMER 2003



2003 SUMMER NYISO OPERATING BASE CASE, FINAL SANDY PND 800MW  
TRIAL 3-OUTSIDE AREA REPRESENTATION FROM VEMN03\_TR3F 3/13/03  
1.3) NMPC ALBANY TUE, MAR 25 2003 14:43

KV: <math>\leq 35</math> .5115 .4230

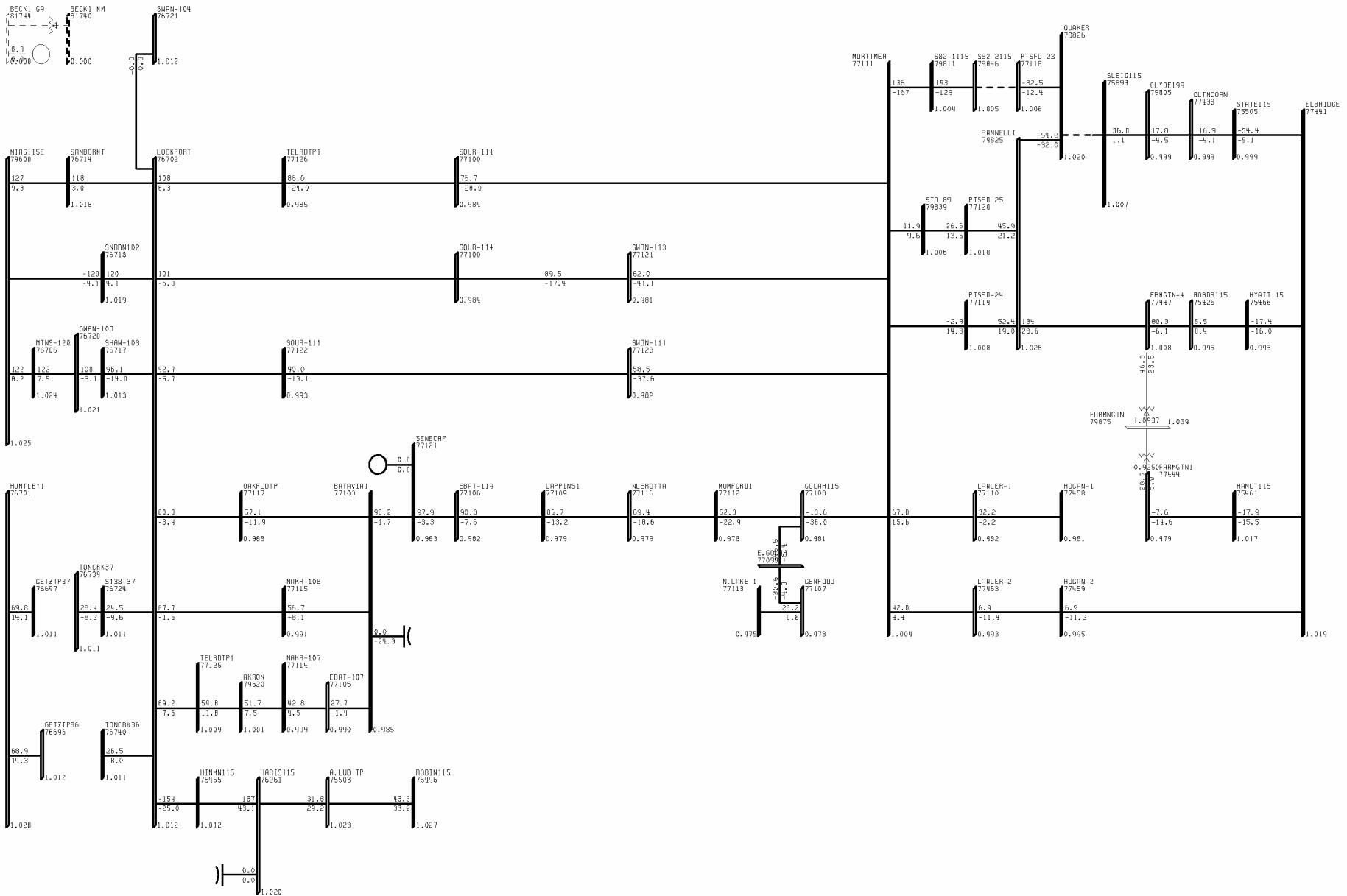
BUS - VOLTAGE (PU)  
BRANCH - MW/MVAR  
EQUIPMENT - MW/MVAR



	<p>2003 SUMMER NYISO OPERATING BASE CASE, FINAL TRIAL 3-OUTSIDE AREA REPRESENTATION FROM VEMN03_TR3F 2/10/03 14) NMPC SYRACUSE FRI, FEB 21 2003 11:59</p>	<p>BUS - VOLTAGE (PU) BRANCH - MW/MVAR EQUIPMENT - MW/MVAR</p>
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KV: <math>\leq 138</math> . <math>\leq 230</math> . <math>\leq 345</math>

NYISO OPERATING STUDY  
SUMMER 2003

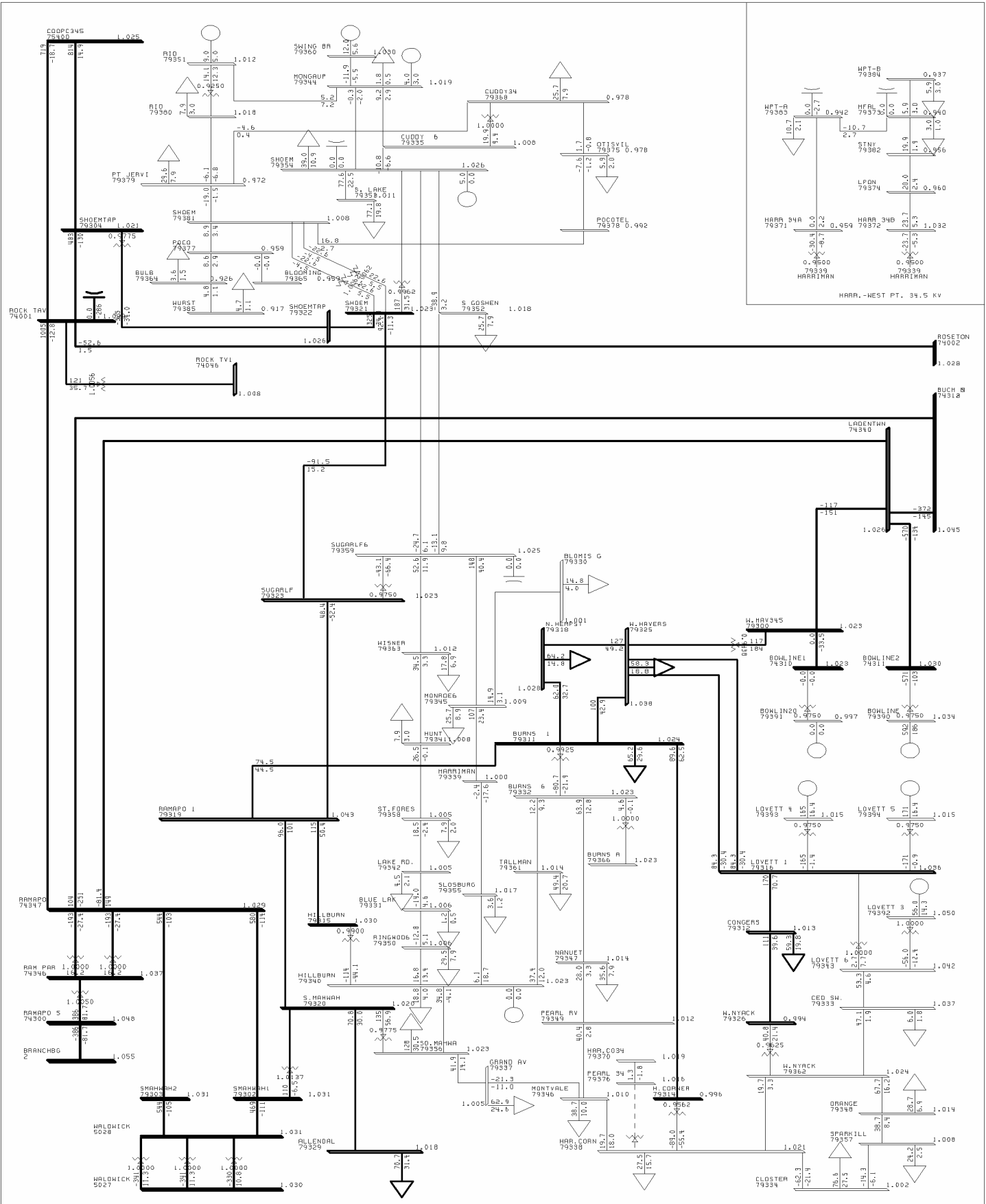


2003 SUMMER NYISO OPERATING BASE CASE, FINAL  
TRIAL 3-OUTSIDE AREA REPRESENTATION FROM VEMN03\_TR3F 2/10/03  
15) NMPC LOCKPORT 115 FRI, FEB 21 2003 11:59

KV: <69 .4138 .4345

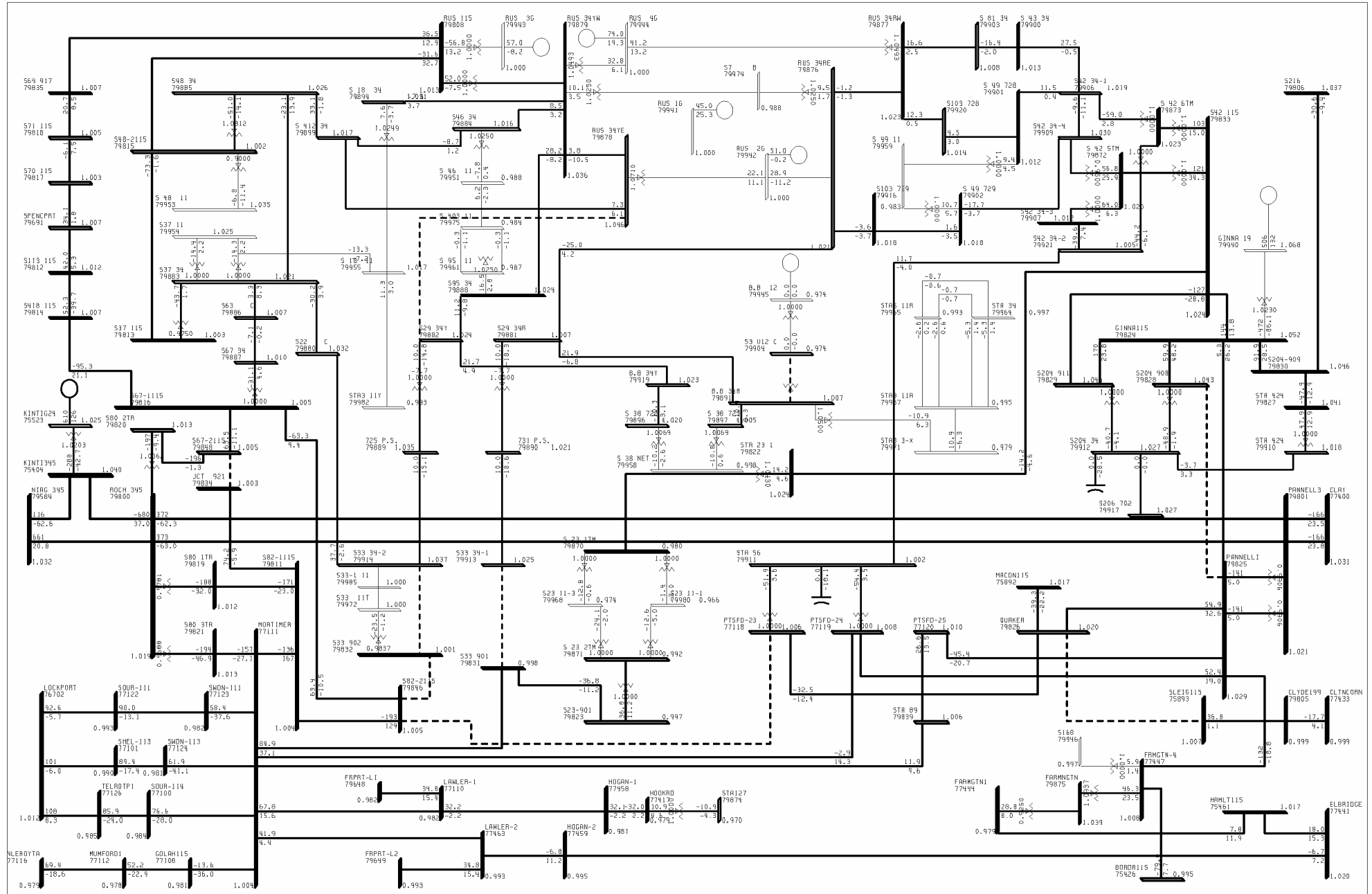
BUS - VOLTAGE (PU)  
BRANCH - MW/MVAR  
EQUIPMENT - MW/MVAR





	<p>2003 SUMMER NYISO OPERATING BASE CASE, FINAL TRIAL 3-OUTSIDE AREA REPRESENTATION FROM VEMN03_TR3F 2/10/03 16) ORANGE &amp; ROCKLAND FRI, FEB 21 2003 11:59</p>	<p>Bus - VOLTAGE (PU) BRANCH - MW/MVAR EQUIPMENT - MW/MVAR</p>
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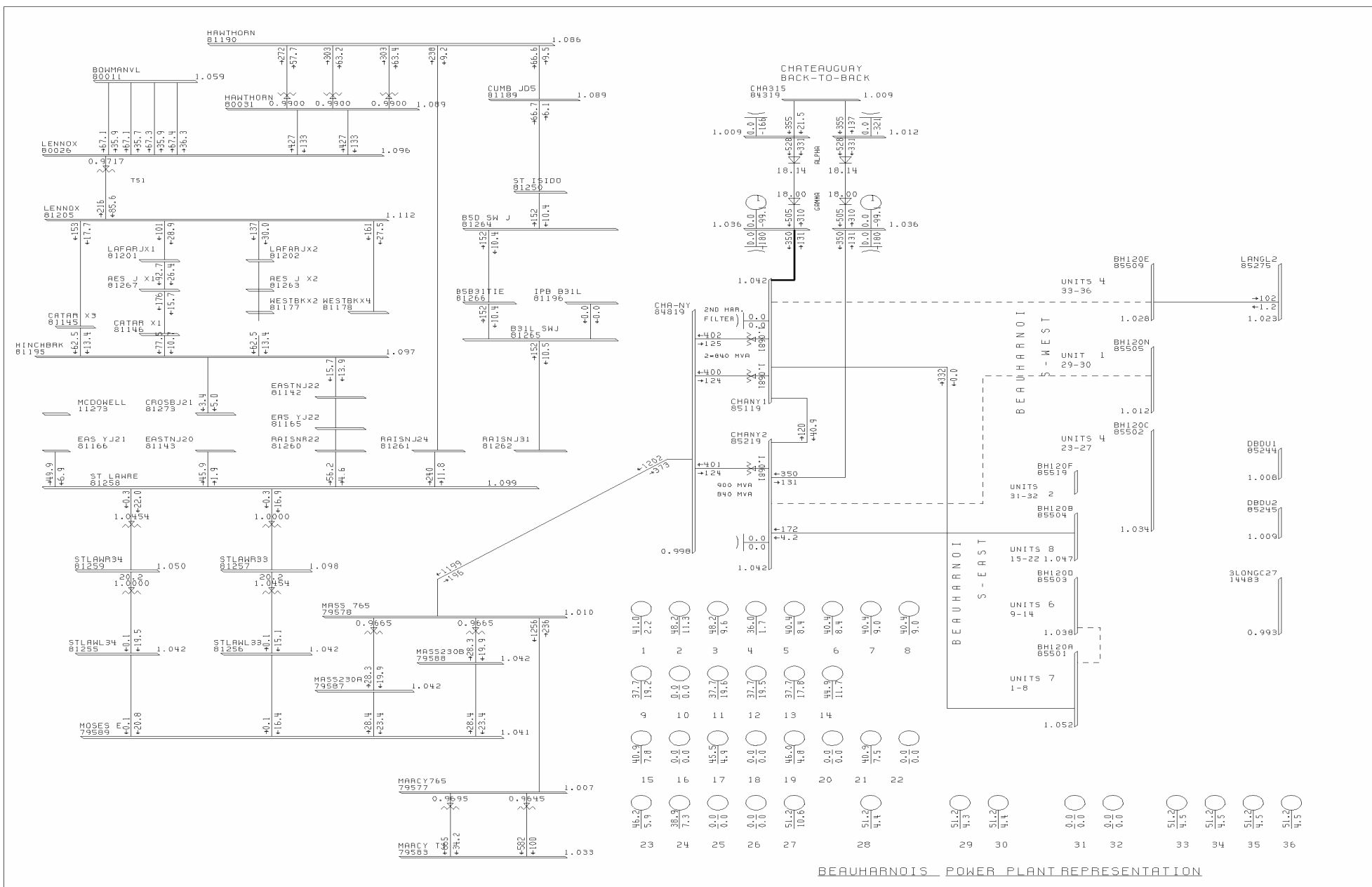
NYISO OPERATING STUDY  
SUMMER 2003



2003 SUMMER NYISO OPERATING BASE CASE, FINAL SANDY PND 800MW  
TRIAL 3-OUTSIDE AREA REPRESENTATION FROM VEMM03\_TR3F 3/13/03  
17) ROCHESTER WED, MAR 26 2003 10:55

KV: <math>\leq 20 . <math>35 . <math>4115

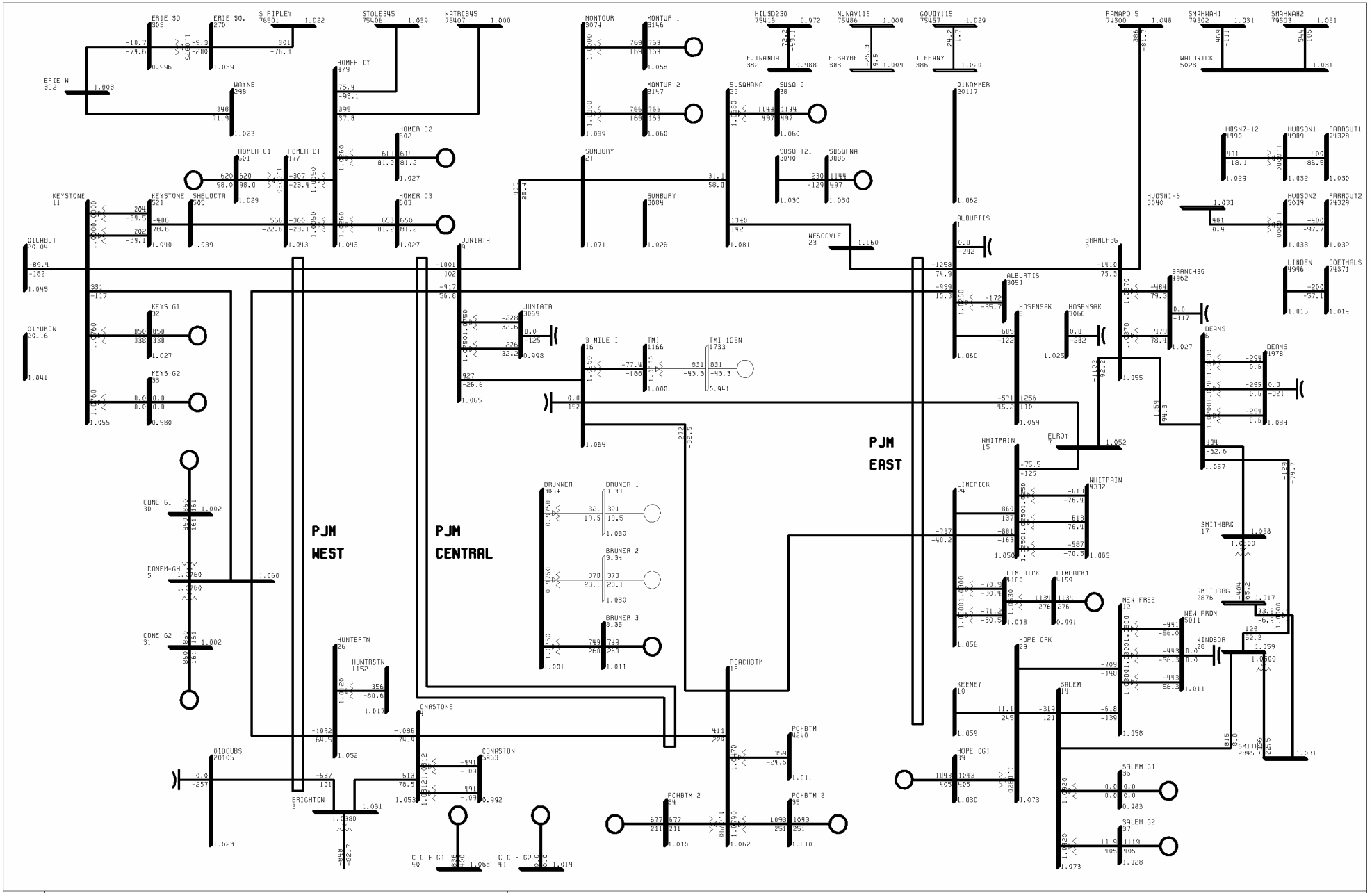
BUS - VOLTAGE (PU)  
BRANCH - MW/MVAR  
EQUIPMENT - MW/MVAR



BEAUHARNOIS POWER PLANT REPRESENTATION

2003 SUMMER NYISO OPERATING BASE CASE, FINAL  
TRIAL 3-OUTSIDE AREA REPRESENTATION FROM VEMN03\_TR3F 2/10/03  
18) BEAU WED, MAR 19 2003 11:37

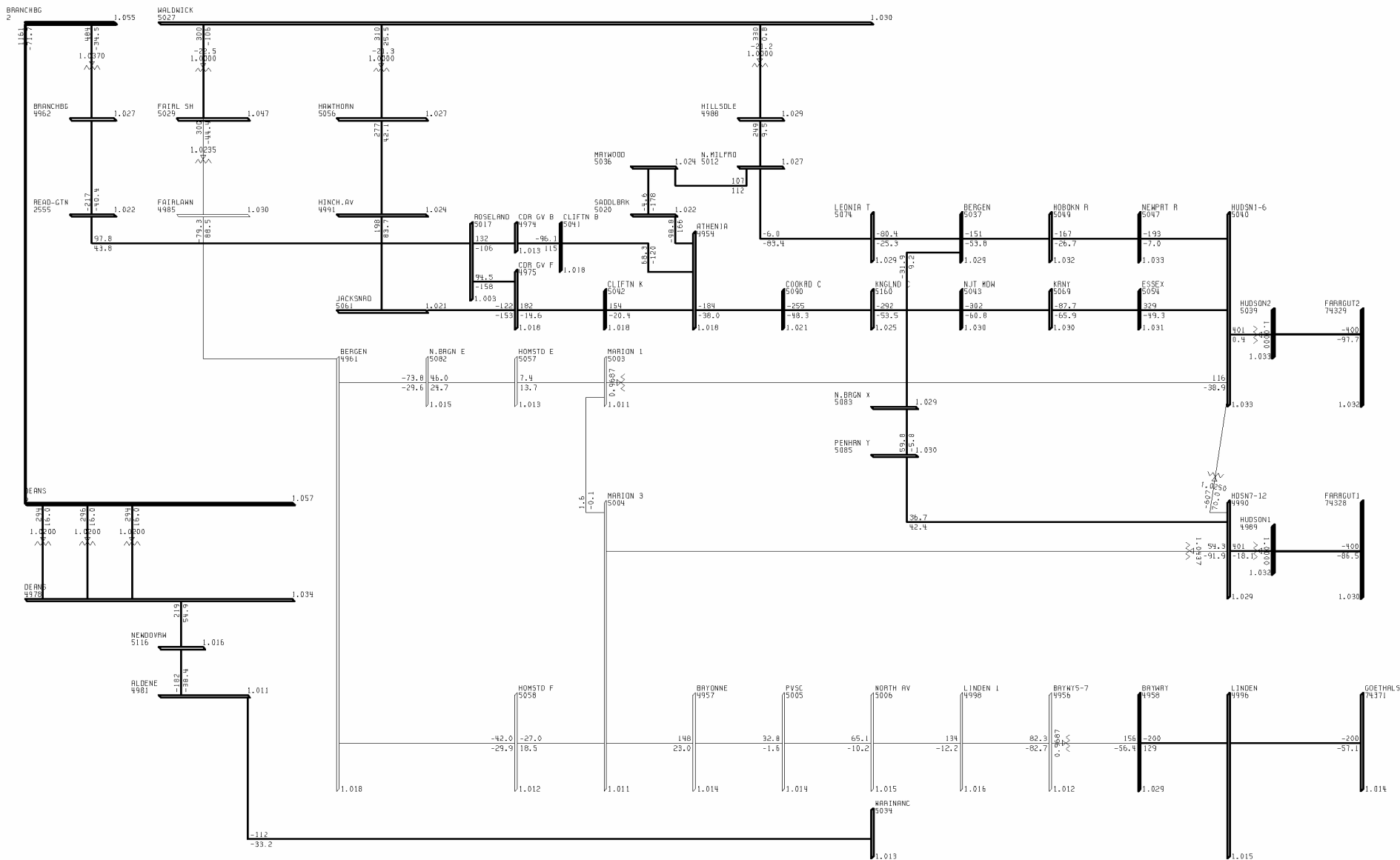
BUS - VOLTAGE (PU)  
BRANCH - MW/MVAR  
EQUIPMENT - MW/MVAR



2003 SUMMER NYISO OPERATING BASE CASE, FINAL  
TRIAL 3-OUTSIDE AREA REPRESENTATION FROM VEMN03\_TR3F 2/10/03  
19) PJM FRI, FEB 21 2003 12:00

KV: ≤20 .435 .4115

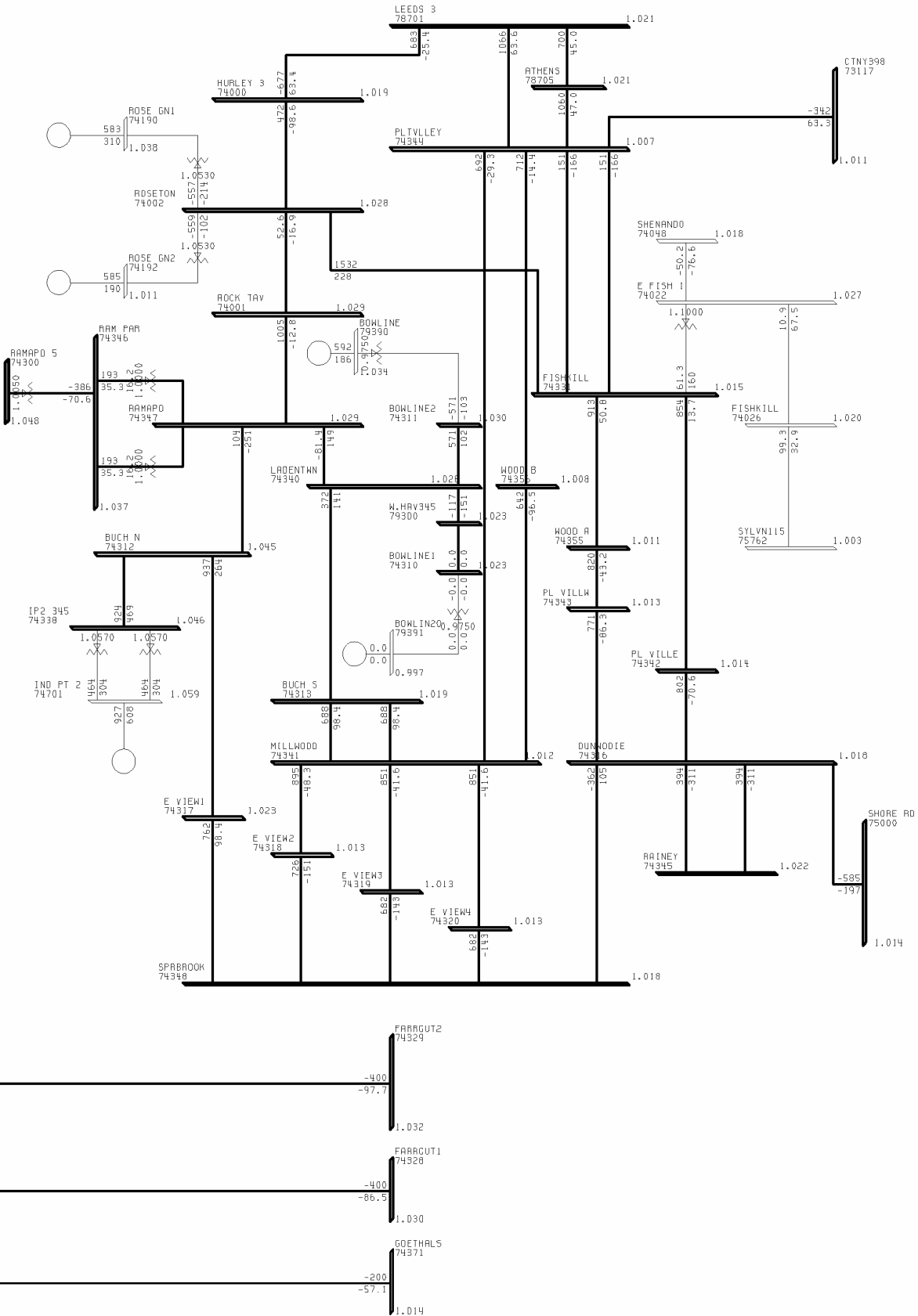
BUS - VOLTAGE (PU)  
BRANCH - MW/MVAR  
EQUIPMENT - MW/MVAR



2003 SUMMER NYISO OPERATING BASE CASE, FINAL  
TRIAL 3-OUTSIDE AREA REPRESENTATION FROM VEMN03\_TR3F 2/10/03  
20) PSE&G FRI, FEB 21 2003 12:00

KV: 5138 .4230 .4315

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



2003 SUMMER NYISO OPERATING BASE CASE, FINAL  
TRIAL 3-OUTSIDE AREA REPRESENTATION FROM VEMN03\_TR3F 2/10/03  
21) UPNY - CONED FRI, FEB 21 2003 12:00

KV: ≤115 .≤230 .≤345

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	169	259	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 - DURZ-129	129	168	185	199	765	69854
BELL-129 - MLPN-129	129	168	185	199	765	69854
BLUE LAK - LAKE RD.	981	112	130	137	483	69353
BLUE LAK - RINGWOD6	982	112	130	137	483	69353
BORDR115 - FRMGTN-4	977/4	150	179	195	507	25057
BORDR115 - HYATT115	979	129	148	160	506	25106
BOWLINE1 - W.HAV345	67	687	747	837	164	25567
BOWLINE2 - LADENTWN	68	687	747	837	166	25249
BRANCHBG - RAMAPO 5	5018	999	1303	1751	366	25019
BRDGPORT - PETRBORO	5	116	120	145	940	25896
BRDGPORT - TEALL	5	116	120	145	940	25896
BUCH N - E VIEW1	W93	1720	1890	2401	175	25133
BUCH N - RAMAPO	Y94	1703	1890	2401	178	25184

**SUMMER ONLINE RATINGS**

LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
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
BURNS 1 - W.HAVERS	541	224	260	274	473	68644
BURNS 6 - TALLMAN	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	11/12	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
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
COOPC345 - MIDDLETOWN	34	1464	1793	1793	2800	25110
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
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
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 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 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

**SUMMER ONLINE RATINGS**

LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
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	877	1416	115	25091
DUNWODIE - SPRBROOK	W75	2384	2708	3247	209	25071
DURZ-130 - SUMIT PK	130	168	181	206	764	69855
DURZ-130 - ZRMN-130	130	168	181	206	764	69855
E FISH I - FISHKILL	F33	412	445	445	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	200	294	396	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
E15ST 45 - E13 ST	37375	273	288	315	228	25468
E15ST 45 - FARRAGUT	45	726	882	1258	234	25190
E15ST 45 - W 49 ST	M55	774	866	1291	237	25222
E15ST 46 - E13 ST	37373	251	280	305	230	25465
E15ST 46 - FARRAGUT	46	726	882	1258	236	25251
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	254	268	288	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	37376	273	288	315	232	25463
E15ST 48 - FARRAGUT	48	419	683	1124	239	25252
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

**SUMMER ONLINE RATINGS**

LINE_NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
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	B43	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
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

**SUMMER ONLINE RATINGS**

LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
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	499	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
GOTHS N - GOWANUSN	25	460	683	1022	290	25139
GOTHS R - GOETH T	BKA2253	528	727	817	287	25642
GOTHS 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
HAMLT115 - HAMLTN34	1	30	37	56	563	25394
HAR. CORN - W. NYACK	701	112	130	137	478	69314
HARRIMAN - SLOSBURG	311	112	130	137	479	69318
HILLBURN - RINGWOD6	89	112	130	137	483	69353
HILLBURN - SLOSBURG	31	112	130	137	479	69318
HILLBURN - TALLMAN	59	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
HUNT - ST. FORES	99	112	130	137	483	69353
HUNT - WISNER	991	112	130	137	483	69353
HUNTLEY1 - S129-39	38	129	151	185	703	69428
HUNTLEY1 - ZRMN-130	129	168	181	199	705	69426
HUNTLEY2 - PACKARD2	78	556	644	746	707	25164
HUNTLEY2 - PACKARD2	77	556	644	746	706	25195

**SUMMER ONLINE RATINGS**

LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
HUNTLEY2 - SUNY-79	79	566	654	755	708	25127
HUNTLEY2 - SUNY-80	80	566	654	755	709	25128
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 - W.HAV345	67	1720	2214	2657	321	25248
LAKE RD. - ST.FORES	98	83	90	97	483	69353
LAUREL L - GOUDY115	952	108	128	143	556	25012
LCST GRV - NEWBRGE	558	393	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
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
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
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
MIDTOWN - ROCK TAVERN	34	1464	1793	1793	2800	25110
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

**SUMMER ONLINE RATINGS**

LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
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
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.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
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 - LOUNSI115	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	229	276	359	747	25410
NIAGAR2W - PA27 REG	PA27	400	460	558	756	25025
NRTHPRT1 - NRTHPRT2	BUS/PS2	407	505	570	91	25599
NRTHPRT1 - PILGRIM	679	409	575	604	93	25309
OAKDL230 - OAKDL115	BK#1	275	400	440	609	25400
OAKDL345 - LAFAYTTE	4-36	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
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
OW CRN W - UNVL 9TP	2	116	120	145	450	25067

**SUMMER ONLINE RATINGS**

LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
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
PANNELLI - QUAKER	883/889	468	515	654	67	25682
PANNELLI - QUAKER	925	276	306	356	136	25682
PARK TR1 - PARK1REG	R11	215	301	379	330	25649
PARK TR2 - PARK2REG	R12	215	301	379	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 - RAMAPO 1	1300	391	513	567	363	25441



**SUMMER ONLINE RATINGS**

LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
RAMAPO - RAMAPO 1	2300	391	513	567	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 TR	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
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
SHEL-113 - SWDN-113	113	129	149	153	724	25263
SHOEMTAP - SHOEMTAP	BK114	448	548	600	2920	26465
SHORE RD - L SUCS	368	208	346	604	76	25150
SHORE RD - L SUCS	367	208	346	604	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 - S.MAHWAH	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	660	936	1392	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
SUGARLF6 - WISNER	<b>993</b>	112	130	137	483	69353
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

### SUMMER ONLINE RATINGS

LINE_NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
VOLNEY - MARCY T1	VU-19	1434	1793	1912	909	25345
W.HAV345 - W.HAVERS	BK#194	432	558	623	382	25447
W.WDB115 - W.WDBR69	T152	48	50	50	467	25404
WARREN - FALCONER	171	82	120	136	673	25015
WATRC345 - WATRC230	BK#1	452	584	600	634	25402
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
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**

<b>CENTRAL EAST</b>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage (k V)</b>
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

<b>TOTAL EAST</b>		
<b>Central-Capital/MidHudson</b>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage (kV)</b>
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
<b>PJM East-Capital/MidHudson</b>		
Branchburg-Ramapo*	5018	500
*Waldwick- S.Mahwah	J3410	345
* Waldwick-S.Mahwah	K3411	345
<b>PJM East-New York City</b>		
Hudson-Farragut*	C3403	345
Hudson-Farragut*	B3402	345
Linden-Goethals*	A2253	230
<b>Adirondack-ISO-NE</b>		
*Plattsburgh - Grand Isle	PV-20	115
<b>PJM (Rockland Electric) - MidHudson</b>		
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

<b>MOSES SOUTH</b>		
<b>Adirondack-Central</b>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage (kV)</b>
*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

<b>DYSINGER EAST</b>		
<b>Frontier-Genessee</b>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage (kV)</b>
*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

<b>WEST CENTRAL</b>		
<b>Genessee-Central</b>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage (kV)</b>
Pannell Road-Clay	PC-1	345
Pannell Road-Clay*	PC-2	345
*Stolle-Meyer	67	230
*Andover - Palmiter	932	115
Macedon-Quaker*	930	115
*Mortimer-Elbridge	1	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

<b>UPNY-CONED</b>		
<b>Capital/MidHudson-Westchester</b>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage(kV)</b>
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

<b>SPRAINBROOK-DUNWOODIE SOUTH</b>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage(kV)</b>
*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

<b>NYISO-ISO-NE</b>		
<b>Adirondack-ISO-NE</b>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage (kV)</b>
*Plattsburgh-Grand Isle	PV-20	115
<b>Capital/MidHudson-ISO-NE</b>		
*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
<b>Long Island-ISO-NE</b>		
*Northport-Norwalk	1385	138

\* indicates the metered end of circuit

<b>PJM-NYISO</b>		
<b>PJM East-New York City</b>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage (kV)</b>
Hudson-Farragut*	C3403	345
Hudson-Farragut*	B3402	345
Linden-Goethals*	A2253	230
<b>PJM West-Central</b>		
*Homer City-Watercure	30	345
E. Towanda-Hillside*	70	230
Tiffany-Goudey*	952	115
*E. Sayre-N. Waverly	956	115
<b>PJM West-Frontier</b>		
*Homer City-Stolle Road	37	345
Erie South-South Ripley*	69	230
*Warren-Falconer	171	115
<b>PJM East-Capital/MidHudson</b>		
Branchburg -Ramapo*	5018	500
*Waldwick-S.Mahwah	J3410	345
*Waldwick-S.Mahwah	K3411	345
<b>PJM (Rockland Electric) - MidHudson</b>		
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
<b>IMO (Ontario)-NYISO</b>		
<b>Ontario East-Adirondack</b>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage (kV)</b>
St. Lawrence-Moses*	L33P	240
St.Lawrence-Moses*	L34P	230
<b>Ontario South-Frontier</b>		
Beck-Niagara*	PA301	345
Beck-Niagara*	PA302	345
Beck-Niagara*	PA27	230
*Beck-Packard	BP76	230

\* indicates the metered end of circuit



<b>CONED - LIPA</b>		
<b>Westchester - Long Island</b>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage (kV)</b>
*Dunwoodie-Shore Road	Y50	345
*Sprainbrook-East Garden City	Y49	345
<b>New York City - Long Island</b>		
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 BUS NAME BASE SHIFT CHANGE BUS BUS NAME BASE SHIFT CHANGE

**DYSINGER EAST, WEST CENTRAL**

80900	LAKEVWG518.0	267	292	25	74190	ROSE GN124.0	585.3	577.3	-8
81422	LENNOXG220.0	550	575	25	74702	RAV 3	22.0	971	945
81424	LENNOXG320.0	188	213	25	74703	AK 2	20.0	333	325
81425	LENNOXG420.0	550	575	25	74705	AST 4	20.0	361	353
					79390	BOWLINE	20.0	592	580
					79546	POLETTI	26.0	855	837
					74907	NRTPTG2	22.0	358	348
					74908	NRTPTG3	22.0	358	348

**TOTAL EAST, CENTRAL EAST**

80900	LAKEVWG518.0	267	282	15	74302	ER G7	13.2	166	152
81765	NANTICG622.0	480	495	15	74702	RAV 3	22.0	971	943
76641	DUNKGEN413.8	185	190	5	74705	AST 4	20.0	361	351
77051	HNTLY68G13.8	180	185	5	74706	AST 5	20.0	361	349
77951	9M PT 1G23.0	621.2	671.2	50	79390	BOWLINE	20.0	592	582
79515	MOS19-2013.8	114	124	10	79546	POLETTI	26.0	855	836
					74906	NRTPTG1	22.0	358	351

**SPRAINBROOK/DUNWOODIE SOUTH**

80900	LAKEVWG518.0	267	312	45	74702	RAV 3	22.0	971	941
81422	LENNOXG220.0	550	605	55	74703	AK 2	20.0	333	323
					74705	AST 4	20.0	361	351
					79546	POLETTI	26.0	855	825
					74907	NRTPTG2	22.0	358	348
					74908	NRTPTG3	22.0	358	348

**UPNY - CONED**

80900	LAKEVWG518.0	267	287	20	74302	ER G7	13.2	166	159	-7
81422	LENNOXG220.0	550	590	40	74702	RAV 3	22.0	971	941	-30
81424	LENNOXG320.0	188	228	40	74705	AST 4	20.0	361	341	-20
					74706	AST 5	20.0	361	351	-10
					74707	RAV 1	20.0	385	370	-15
					74907	NRTPTG2	22.0	358	340	-18

**MOSES - SOUTH**

79513	MOS17-1813.8	94.3	144.3	50	74702	RAV 3	22.0	971	961	-10
79516	MOS21-2213.8	114	164	50	76641	DUNKGEN413.8	185	175	175	-10
					77051	HNTLY68G13.8	180	170	170	-10
					77951	9M PT 1G23.0	621.2	571.2	571.2	-50
					79546	POLETTI 26.0	855	835	835	-20

**CONED - LONG ISLAND POWER AUTHORITY**

74190	ROSE GN124.0	585.3	600.3	15	74900	BARETG1	20.0	175	157	-18
74302	ER G7	13.2	166	5	74907	NRTPTG2	22.0	358	334	-24
74700	AK 3	22.0	250	10	74908	NRTPTG3	22.0	358	334	-24
74705	AST 4	20.0	361	5	74909	NRTPTG4	22.0	358	334	-24
74706	AST 5	20.0	361	10	74942	NYPA108	13.8	90	80	-10
74707	RAV 1	20.0	385	15						
79390	BOWLINE	20.0	592	25						
79546	POLETTI	26.0	855	15						

**ONTARIO - NEW YORK**

81424	LENNOXG320.0	188	238	50	74190	ROSE GN124.0	585.3	570.3	570.3	-15
81425	LENNOXG420.0	550	600	50	74702	RAV 3	22.0	971	931	-40
					76640	DUNKGEN313.8	180	175	175	-5
					77051	HNTLY68G13.8	180	175	175	-5
					78955	ALBY STM13.2	194	189	189	-5
					79547	JAFITZ1G24.0	848.8	818.8	818.8	-30

**NEW YORK - ONTARIO**

74190	ROSE GN124.0	585.3	600.3	15	80898	LAKEVWG216.0	0	-25	-25	
74193	DANSK G416.1	233	248	15	80899	LAKEVWG116.0	150	125	125	-25
78955	ALBY STM13.2	194	204	10	81764	NANTICG722.0	480	455	455	-25
79390	BOWLINE	20.0	592	45	81765	NANTICG622.0	480	455	455	-25
79546	POLETTI	26.0	855	15						

**PJM - NYISO**

356	PENNTech13.8	0	1	1	74308	GOWGT3A 13.8	0	-2.2	-2.2
2901	GG A1&2 13.8	40	41	1	74339	GOWGT3B 13.8	0	-2.2	-2.2
2903	GG B5&6 13.8	40	41	1	74372	ASTEgt3A13.8	0	-2.8	-2.8
3150	MTN CK 324.0	849.6	869.8	20.2	74373	ASTEgt3B13.8	0	-2.8	-2.8
3161	SUNBRY 313.8	94	94.2	0.2	74700	AK 3 22.0	250	246	-4
5051	ESSEX 1013.0	168	175.2	7.2	76807	AM BRASS 115	0	-2.4	-2.4
5053	ESSEX 1213.0	184	191.9	7.9	77450	GERES LK 115	0	-5.6	-5.6
5100	EDISON 213.0	168	175.2	7.2	77952	OSWGO 5G22.0	0	-28.3	-28.3
5120	SEWAREN113.0	104	106.7	2.7	78708	ATHENSC216.0	0	-8.8	-8.8
5121	SEWAREN213.0	118	120.5	2.5	78709	ATHENSS213.8	0	-3.8	-3.8
5123	SEWAREN413.0	122.7	124.5	1.8	78955	ALBY STM13.2	194	187.6	-6.4
5906	GOULD G313.8	104	105.5	1.5	79391	BOWLIN2020.0	0	-19.9	-19.9
5914	RVRSDeg413.8	78	78.9	0.9	79655	ILION 115	0	-1.6	-1.6
5917	WAGNERG116.5	137	140.7	3.7	79657	JAMESTWN13.2	0	-2.4	-2.4
5920	WAGNERG424.0	410	411.6	1.6	79995	KAMIN 1313.8	0	-1.6	-1.6
7106	CHALK U324.0	612	624.8	12.8	74912	PTJefG3 20.0	182	181	-1
7107	CHALK U424.0	612	618.1	6.1	74913	PTJefG4 20.0	171	170.2	-0.8
7110	CHALKCT313.8	86	89.7	3.7	74919	HOLTS1-513.8	0	-3.6	-3.6
7111	CHALKCT413.8	86	89.7	3.7					
7112	CHALKCT513.8	109	113.4	4.4					
7113	CHALKCT613.8	109	113.4	4.4					
8301	D/W 1 ST13.8	86	86.5	0.5					
8400	MICK 1CT13.8	59	61.9	2.9					
8700	VNLD 10 13.2	23	23.3	0.3					
8885	EM5 23.0	445	445.8	0.8					

**NYISO - PJM**

74308	GOWGT3A 13.8	0	2.2	2.2	204	C.SLOPE 115	83.2	79.6	-3.6
74339	GOWGT3B 13.8	0	2.2	2.2	372	SHAWVL 322.0	0	-7.4	-7.4
74372	ASTEgt3A13.8	0	2.8	2.8	431	SHAWVL 218.0	125	124.6	-0.4
74373	ASTEgt3B13.8	0	2.8	2.8	1702	GLATFLTR13.2	0	-1.4	-1.4
74700	AK 3 22.0	250	254	4	1727	PORT2GEN15.5	180.5	178.4	-2.1
76807	AM BRASS 115	0	2.4	2.4	1731	TITUS 2G13.8	0	-3.3	-3.3
77450	GERES LK 115	0	5.6	5.6	2873	LKWD G1 13.8	15.3	12.4	-2.9
77952	OSWGO 5G22.0	0	28.3	28.3	2907	KITTGEN113.8	0	-5.7	-5.7
78708	ATHENSC216.0	0	8.8	8.8	3147	MONTUR 224.0	766	752.7	-13.3
78709	ATHENSS213.8	0	3.8	3.8	3161	SUNBRY 313.8	94	90	-4
78955	ALBY STM13.2	194	200.4	6.4	4062	CONOW3-413.8	50.4	49.7	-0.7
79391	BOWLIN2020.0	0	19.9	19.9	4110	EDDYSTN120.0	279	267.2	-11.8

79655	ILION	115	0	1.6	1.6	5134	BURLNG1013.0	0	-8	-8	
79657	JAMESTWN	13.2	0	2.4	2.4	5140	MERCER	124.0	324	319.5	-4.5
79995	KAMIN	1313.8	0	1.6	1.6	5901	BRANDNG1	24.0	650.7	643.8	-6.8
74912	PTJEFG3	20.0	182	183	1	7104	CHALK U1	20.0	23.9	11.9	-12
74913	PTJEFG4	20.0	171	171.8	0.8	8102	BLE#2 ST	18.0	60.5	56.9	-3.6
74919	HOLTS1-5	13.8	0	3.6	3.6	8884	EM4	19.0	136.4	131.8	-4.6
						9216	IR1	15.2	91	87.3	-3.7

**NEW YORK - NEW ENGLAND**

74190	ROSE GN	124.0	585.3	615.3	30	71063	MYST G7	22.0	120	95	-25
74700	AK 3	22.0	250	270	20	71252	CANAL G2	18.0	476	446	-30
74702	RAV 3	22.0	971	981	10	72868	NWNGT G1	24.0	200	175	-25
74707	RAV 1	20.0	385	395	10	73563	MILL#3	24.0	1136.7	1116.7	-20
79391	BOWLIN	20.0	0	10	10						
79546	POLETTI	26.0	855	875	20						

**NEW ENGLAND - NEW YORK**

71063	MYST G7	22.0	120	145	25	74193	DANSK G4	16.1	233	213	-20
71252	CANAL G2	18.0	476	506	30	74702	RAV 3	22.0	971	951	-20
72868	NWNGT G1	24.0	200	225	25	78955	ALBY STM	13.2	194	174	-20
73563	MILL#3	24.0	1136.7	1156.7	20	79546	POLETTI	26.0	855	815	-40

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%	13.1%
GOLAH66K66.0	MORT66KV66.0	1	0.0%	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%	4.2%	3.9%	3.0%
LOCKPORT 115	OAKFLDTP 115	1	1.3%	1.6%	1.9%	1.7%	4.9%	4.6%	3.5%
LOCKPORT 115	SOUR-111 115	1	2.7%	3.3%	4.0%	3.5%	TRIP	12.2%	7.3%
LOCKPORT 115	SHEL-113 115	1	2.9%	3.5%	4.2%	3.7%	14.3%	TRIP	7.8%
LOCKPORT 115	TELRDTP1 115	1	1.3%	1.6%	1.9%	1.7%	6.2%	6.7%	3.5%
LOCKPORT 115	TELRDTP1 115	1	2.8%	3.4%	4.1%	3.6%	11.8%	19.4%	7.5%
KINTI345 345	ROCH 345 345	1	24.5%	TRIP	45.4%	14.6%	14.8%	13.4%	O/S
NIAG 345 345	ROCH 345 345	1	36.0%	54.9%	TRIP	21.4%	21.7%	19.7%	TRIP
	<b>SUB-TOTALS</b>			<b>75.8%</b>	<b>70.6%</b>	<b>52.0%</b>	<b>85.1%</b>	<b>86.4%</b>	<b>46.2%</b>
L33P-L34P				9.4%	11.4%	9.6%	4.8%	4.4%	20.9%
PJM-NYISO				14.5%	17.5%	35.5%	10.4%	9.4%	32.1%
	<b>TOTALS</b>		<b>83.6%</b>	<b>99.6%</b>	<b>99.5%</b>	<b>97.2%</b>	<b>100.3%</b>	<b>100.2%</b>	<b>99.2%</b>

TABLE 2

**DISTRIBUTION FACTORS FOR WEST CENTRAL CIRCUITS**

<b>FROM</b>	<b>TO</b>	<b>CK</b>	<b>% Pickup of Transfer</b>	<b>PANNEL-CLAY</b>	<b>STOLLE-MEYER</b>	<b>S121-SLEGH</b>	<b>PANNEL-FARM</b>	<b>PANNEL-CLAY</b>
PANNELL3 345	CLAY 345	1	30.4%	TRIP	10.6%	18.7%	20.2%	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%	8.2%	7.2%
MORTIMER 115	LAWLER-1 115	1	2.5%	2.5%	1.3%	4.0%	17.0%	6.0%
MORTIMER 115	LAWLER-2 115	1	2.6%	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	3.4%	6.2%	8.9%	18.1%	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%
	<b>SUB-TOTALS</b>			<b>78.4%</b>	<b>51.7%</b>	<b>89.4%</b>	<b>88.7%</b>	<b>48.6%</b>
L33P-L34P				8.4%	9.6%	3.4%	2.6%	20.0%
PJM-NYISO				13.0%	35.5%	6.4%	6.6%	30.9%
	<b>TOTALS</b>		<b>83.6%</b>	<b>99.8%</b>	<b>96.9%</b>	<b>99.2%</b>	<b>98.0%</b>	<b>99.5%</b>

TABLE 3  
DISTRIBUTION FACTORS FOR TOTAL EAST CIRCUITS

FROM	TO	CK	% Pickup of Trfer	PRTR- RTRDM	EDIC34- NSCOT	MARCY- NSCOT	FRSR- GILBA	BRBRG- RAMPO	WLDWK- SMAWA	HUD- FARGT	LINDEN- GOETH	WLDK- SMWA
EDIC 345	N.SCOT77 345	1	18.8%	13.9%	TRIP	33.1%	19.5%	3.2%	0.2%	1.4%	2.5%	1.4%
MARCY T1 345	N.SCOT99 345	1	20.2%	14.8%	34.9%	TRIP	21.0%	3.5%	0.2%	1.6%	2.7%	1.5%
PORTER 2 230	ROTRDM.2 230	1	4.5%	TRIP	5.4%	5.5%	3.1%	0.7%	0.0%	0.3%	0.6%	0.3%
PORTER 2 230	ROTRDM.2 230	2	4.6%	34.1%	5.6%	5.7%	3.2%	0.8%	0.0%	0.3%	0.6%	0.3%
E.SPR115 115	INGHAM-E 115	1	0.9%	1.0%	-0.2%	-0.2%	2.5%	0.2%	0.0%	0.1%	0.1%	0.1%
INGMS-CD 115	INGHAM-E 115	1	0.0%	9.7%	3.7%	3.8%	0.7%	0.4%	0.0%	0.2%	0.3%	0.2%
PLAT T#3 115	GRAND IS 115	1	1.2%	2.4%	2.2%	2.3%	1.3%	0.6%	0.0%	0.3%	0.5%	0.2%
FRASR345 345	GILB 345 345	1	16.0%	9.3%	22.9%	23.5%	TRIP	3.4%	0.1%	2.2%	3.4%	1.0%
BRANCHBG 500	RAMAPO 5 500	1	0.0%	1.9%	3.3%	3.4%	3.0%	TRIP	2.9%	7.2%	20.4%	24.3%
COOPC345 345	SHOEMTAP 345	1	17.2%	3.9%	6.9%	7.2%	18.4%	4.8%	0.3%	0.3%	1.5%	3.5%
COOPC345 345	ROCK TAV 345	2	16.2%	3.8%	6.7%	7.0%	17.8%	4.4%	0.4%	0.4%	1.5%	3.0%
HUDSON2 345	FARRGUT2 345	1	0.0%	1.2%	1.9%	2.0%	2.5%	9.6%	3.2%	35.1%	21.4%	27.5%
HUDSON1 345	FARRGUT1 345	1	0.0%	1.2%	1.9%	2.0%	2.5%	9.5%	3.3%	TRIP	21.0%	28.2%
LINDEN 230	GOETHALS 230	1	0.0%	1.0%	1.7%	1.8%	2.0%	14.0%	1.0%	10.9%	TRIP	8.7%
WALDWICK 345	SMAHWAH1 345	1	-0.3%	0.7%	1.3%	1.3%	0.7%	22.5%	88.4%	20.2%	12.0%	O/S
WALDWICK 345	SMAHWAH2 345	1	0.3%	0.7%	1.3%	1.3%	0.9%	22.3%	TRIP	19.4%	11.4%	TRIP
<b>TOTALS</b>			<b>99.5%</b>	<b>99.7%</b>	<b>99.6%</b>	<b>99.6%</b>	<b>99.0%</b>	<b>99.9%</b>	<b>100.0%</b>	<b>99.9%</b>	<b>99.9%</b>	<b>100.0%</b>



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	19.9%	-11.4%	15.3%	15.6%	21.4%	9.0%	8.2%	TRIP
PLTVLLEY 345	MILLWOOD 345	1	17.4%	TRIP	8.8%	3.0%	12.5%	2.8%	1.8%	-8.8%
PLTVLLEY 345	FISHKILL 345	1	7.9%	23.9%	TRIP	-0.5%	-7.1%	1.0%	0.6%	32.2%
PLTVLLEY 345	FISHKILL 345	2	7.9%	23.9%	66.5%	-0.5%	-7.1%	1.0%	0.6%	32.2%
PLTVLLEY 345	WOOD B 345	1	17.2%	35.1%	9.2%	3.0%	12.1%	2.8%	1.8%	-8.6%
RAMAPO 345	BUCH N 345	1	13.5%	3.2%	-0.2%	TRIP	41.1%	15.7%	15.8%	13.0%
LADENTWN 345	BUCH S 345	1	13.4%	17.7%	-3.7%	54.2%	TRIP	22.7%	23.2%	23.5%
FISHKILL 115	SYLVN115 115	1	1.0%	0.8%	-0.1%	0.3%	0.6%	0.3%	0.2%	0.6%
E FISH I 115	FISHKILL 345	1	1.8%	-0.5%	2.4%	0.7%	0.9%	0.5%	0.5%	6.2%
<b>SUB-TOTALS</b>				<b>92.6%</b>	<b>98.2%</b>	<b>75.8%</b>	<b>74.3%</b>	<b>55.9%</b>	<b>52.7%</b>	<b>90.3%</b>
LINDEN-GOETH				0.9%	0.1%	4.7%	5.1%	TRIP	10.9%	2.2%
HUDSON-FAR1				1.1%	0.1%	8.8%	9.8%	21.4%	35.1%	3.8%
HUDSON-FAR2				1.1%	0.1%	9.0%	10.0%	21.0%	TRIP	3.9%
NORHBR-NRPRT				4.4%	1.4%	1.7%	0.7%	1.7%	1.3%	-0.2%
<b>TOTALS</b>			<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

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	14.8%	0.3%	0.4%	2.0%	1.5%	0.5%	0.8%
DUN NO2R 138	S CREEK 138	1	0	15.0%	0.3%	0.4%	2.1%	1.5%	0.5%	0.8%
DUN SO1R 138	E179 ST 138	1	0	24.1%	0.4%	0.7%	3.3%	2.4%	0.8%	1.2%
DUNWODIE 345	RAINEY 345	3	0.2257	7.9%	23.9%	TRIP	9.4%	3.2%	43.3%	O/S
DUNWODIE 345	RAINEY 345	4	0.2257	7.9%	23.9%	45.5%	9.4%	3.2%	43.3%	TRIP
DUNWODIE 345	SHORE RD 345	1		5.7%	0.5%	1.2%	TRIP	54.0%	1.0%	2.1%
SPRBROOK 345	TREMONT 345	1	0	TRIP	0.8%	0.7%	4.0%	3.3%	1.4%	1.2%
SPRBROOK 345	W 49 ST 345	1	0.1743	8.6%	TRIP	23.4%	4.3%	7.2%	O/S	42.9%
SPRBROOK 345	W 49 ST 345	2	0.1743	8.6%	44.8%	23.4%	4.3%	7.2%	TRIP	42.9%
REACBUS 345	DVNPT NK 345	1		4.2%	0.8%	0.3%	47.8%	TRIP	1.4%	0.6%
<b>SUB-TOTALS</b>				<b>96.7%</b>	<b>95.7%</b>	<b>95.9%</b>	<b>86.6%</b>	<b>83.2%</b>	<b>92.2%</b>	<b>92.5%</b>
LINDEN-GOETH				2.0%	0.8%	0.8%	0.1%	0.0%	1.4%	1.5%
HUDSON-FAR#1				0.1%	1.7%	1.6%	-0.2%	-0.2%	3.1%	2.9%
HUDSON-FAR#2				0.2%	1.7%	1.6%	-0.2%	-0.2%	3.2%	3.0%
NORHRBR-NRPRT				1.1%	0.1%	0.0%	13.7%	17.3%	0.1%	0.1%
<b>TOTALS</b>			<b>80.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

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	72.3%	TRIP	65.9%	44.2%	O/S
DENNISON 115	ANDRWS-4 115	1	2.2%	4.2%	0.8%	1.5%	3.7%
MOSES W 230	ADRON B1 230	1	9.3%	18.9%	3.3%	TRIP	TRIP
MOSES W 230	ADRON B2 230	1	9.3%	18.9%	3.3%	36.4%	48.8%
DENNISON 115	LWRNCE-B 115	1	2.2%	4.2%	0.8%	1.5%	3.7%
ALCOA-NM 115	BRADY 115	1	1.1%	2.0%	0.4%	0.7%	1.7%
ALLENS F 115	COLTON 115	1	1.3%	2.0%	0.3%	0.7%	1.7%
	<b>SUB-TOTALS</b>			----- <b>50.3%</b>	----- <b>74.8%</b>	----- <b>85.0%</b>	----- <b>59.6%</b>
MOSES-L33P				17.5%	9.8%	5.1%	14.0%
MOSES-L34P				22.6%	12.7%	6.7%	18.2%
MOSES-WILLE				5.8%	1.5%	2.0%	5.0%
MOSES-WILLW				5.8%	1.5%	2.0%	5.0%
	<b>TOTALS</b>		----- <b>97.5%</b>	----- <b>102.0%</b>	----- <b>100.3%</b>	----- <b>100.7%</b>	----- <b>101.7%</b>

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	35.3%	TRIP	41.0%	21.3%	42.1%	36.5%	36.1%	18.6%	36.5%	36.5%
PLAT T#3 115	GRAND IS 115	1	1.9%	6.4%	3.9%	3.2%	5.6%	5.9%	5.8%	47.5%	5.9%	5.9%
HOOSICK 115	BNNINGTN 115	1	2.8%	10.0%	3.1%	1.6%	2.3%	2.7%	2.8%	1.0%	2.7%	2.7%
WHITEHAL 115	BLISSVIL 115	1	4.7%	10.4%	4.5%	2.4%	6.7%	5.3%	5.1%	7.2%	5.3%	5.3%
ROTRDM.2 230	BRSWAMP 230	1	7.2%	15.9%	7.4%	4.5%	6.3%	7.8%	8.0%	3.0%	7.8%	7.8%
PLTVLLEY 345	CTNY398 345	1	48.1%	44.7%	TRIP	46.3%	27.0%	30.8%	31.1%	16.1%	30.8%	30.8%
NRTHPT P 138	NORHR138 138	1	0.0%	12.6%	40.1%	20.7%	9.9%	10.9%	11.0%	6.4%	10.9%	10.9%
<b>TOTALS</b>			<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>99.9%</b>	<b>99.9%</b>

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%	1.4%	1.5%	TRIP	63.3%	1.6%
STLAWL33 230	MOSES E 230	1	0.0%	1.1%	1.1%	57.1%	TRIP	1.3%
BECK B 345	NIAG 345 345	1	31.1%	33.7%	30.8%	8.7%	7.5%	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	17.7%	TRIP	31.3%	5.2%	4.5%	23.2%
BP76 REG 230	PACKARD2 230	1	20.1%	26.0%	TRIP	4.5%	3.8%	17.6%
	<b>SUB-TOTALS</b>			<b>95.9%</b>	<b>95.4%</b>	<b>84.2%</b>	<b>86.5%</b>	<b>96.3%</b>
IMO-MICH				3.9%	4.3%	14.6%	12.5%	3.5%
	<b>TOTALS</b>		<b>100.0%</b>	<b>99.8%</b>	<b>99.7%</b>	<b>98.8%</b>	<b>99.0%</b>	<b>99.8%</b>

TABLE 9

**DISTRIBUTION FACTORS FOR PJM-NYISO CIRCUITS**

CK			% Pickup of Transfer	ERIESO-	HMRCTY-	HMRCTY-	E.TOWD-	BRBURG-	WALDWK-	HUDSON-	LINDEN-	WALDWK-	HUDSON-	
				FALCS	STOLL	WATER	HILLS	RAMPO	SMAWA	FARGT	GOETH	SMAWA	FARGT	
ERIE E 230	S RIPLEY 230	1	19.7%	TRIP	22.2%	7.7%	4.7%	2.4%	0.1%	0.8%	1.5%	1.2%	1.2%	
WARREN 115	FALCONER 115	1	7.4%	21.6%	8.4%	1.8%	3.0%	0.8%	0.0%	0.3%	0.5%	0.4%	0.4%	
HOMER CY 345	STOLE345 345	1	13.4%	15.7%	TRIP	15.5%	2.0%	1.7%	0.1%	0.5%	1.1%	0.8%	0.8%	
HOMER CY 345	WATRC345 345	1	21.8%	6.7%	18.9%	TRIP	13.3%	3.7%	0.2%	1.1%	2.2%	1.7%	1.7%	
E.TWANDA 230	HILSD230 230	1	22.4%	6.0%	3.5%	19.5%	TRIP	3.5%	0.2%	1.3%	2.3%	2.1%	2.0%	
E.SAYRE 115	N.WAV115 115	1	8.4%	2.0%	1.4%	4.1%	30.5%	1.3%	0.1%	0.5%	0.8%	0.8%	0.7%	
LAURELL 115	GOUDY115 115	1	7.0%	1.0%	0.7%	2.5%	11.7%	1.2%	0.1%	0.4%	0.7%	0.7%	0.7%	
BRANCHBG 500	RAMAPO 5 500	1	0.0%	6.6%	6.6%	11.5%	7.6%	TRIP	2.9%	7.2%	20.4%	24.3%	11.3%	
HUDSON2 345	FARRGUT2 345	1	0.0%	2.7%	2.7%	4.5%	3.6%	9.6%	3.2%	35.1%	21.4%	27.5%	O/S	
HUDSON1 345	FARRGUT1 345	1	0.0%	2.7%	2.7%	4.5%	3.7%	9.5%	3.3%	TRIP	21.0%	28.2%	TRIP	
LINDEN 230	GOETHALS 230	1	0.0%	2.8%	2.8%	4.8%	3.3%	14.0%	1.0%	10.9%	TRIP	8.7%	17.2%	
WALDWICK 345	SMAHWAH1 345	1	-0.1%	3.1%	3.1%	5.2%	4.4%	22.5%	88.4%	20.2%	12.0%	O/S	30.8%	
WALDWICK 345	SMAHWAH2 345	1	0.1%	2.8%	2.8%	4.8%	4.1%	22.3%	TRIP	19.4%	11.4%	TRIP	29.6%	
<b>SUB-TOTALS</b>				<b>73.7%</b>	<b>76.0%</b>	<b>86.4%</b>	<b>91.8%</b>	<b>92.6%</b>	<b>99.6%</b>	<b>97.7%</b>	<b>95.4%</b>	<b>96.4%</b>	<b>96.4%</b>	
IMO-MICH				24.8%	22.5%	12.7%	7.6%	6.9%	0.4%	2.2%	4.3%	3.3%	3.3%	
<b>TOTALS</b>				<b>100.0%</b>	<b>98.4%</b>	<b>98.5%</b>	<b>99.1%</b>	<b>99.5%</b>	<b>99.5%</b>	<b>100.0%</b>	<b>99.8%</b>	<b>99.7%</b>	<b>99.8%</b>	<b>99.8%</b>

TABLE 10A

**GENERATION SHIFT FACTORS WITH ALL PAR'S HOLDING MW FLOW**

	WEST- CENTRAL	UTICA- ALBANY	MARCY- SOUTH	CENTRAL- EAST	ONT- NYISO	ONT- MICH	PJM- NYISO
ALBANY	4.3%	16.1%	-8.6%	20.7%	4.4%	-4.1%	-4.4%
BB-RAMAPO	7.8%	8.2%	5.0%	9.3%	7.4%	-6.9%	-7.4%
BECK	-45.1%	-27.3%	-15.3%	-30.8%	-77.9%	-20.7%	-22.1%
BOWEN	-14.9%	-14.6%	-6.7%	-16.6%	-17.9%	16.2%	-82.0%
BOWLINE	-0.2%	-1.2%	0.8%	-1.3%	-0.2%	0.2%	0.2%
BRANDON	-10.5%	-11.4%	-4.8%	-13.0%	-10.8%	10.0%	-89.2%
BRAYTON	2.9%	9.4%	-5.9%	14.7%	3.4%	-3.2%	-3.4%
CONEMAUGH	-11.2%	-12.2%	-5.1%	-13.9%	-10.2%	9.5%	-89.8%
DUNKIRK	-37.8%	-22.9%	-11.9%	-25.9%	7.1%	-6.6%	-7.1%
EDDYSTONE	-6.9%	-8.5%	-3.1%	-9.6%	-6.6%	6.2%	-93.3%
GILBOA	4.4%	4.8%	1.3%	4.5%	4.0%	-3.7%	-4.0%
HATFIELD	-13.3%	-13.6%	-6.0%	-15.5%	-13.7%	12.8%	-86.3%
HUDSON	-1.7%	-2.5%	-0.4%	-2.9%	-1.6%	1.5%	-98.4%
HUNTLEY	-46.8%	-26.4%	-14.5%	-29.8%	16.1%	-15.1%	-16.1%
INDIANPT2	-0.1%	-0.9%	0.7%	-1.0%	-0.1%	0.1%	0.2%
JEAMOS	-15.3%	-14.8%	-6.8%	-16.9%	-18.1%	16.8%	-81.9%
LAMBTON	-25.1%	-21.4%	-11.5%	-24.4%	-45.4%	-54.0%	-54.6%
MTSTORM	-13.0%	-13.3%	-5.8%	-15.1%	-13.9%	12.9%	-86.1%
NANTICOKE	-31.8%	-26.0%	-14.7%	-29.7%	-65.4%	-32.5%	-34.6%
NEWTON	-16.1%	-15.4%	-7.2%	-17.5%	-20.3%	18.4%	-79.6%
NIAGARA	-48.5%	-26.9%	-14.9%	-30.3%	15.8%	-14.9%	-15.8%
NORWALK	1.3%	3.7%	-1.8%	5.2%	1.4%	-1.3%	-1.4%
OSWEGO	12.9%	-37.8%	-23.7%	-41.5%	8.6%	-8.1%	-8.6%
PORTLAND	-5.2%	-7.3%	-2.4%	-8.4%	-5.0%	4.6%	-95.0%
ROSETON	1.6%	1.7%	1.3%	1.7%	1.5%	-1.4%	-1.5%
SALEM	-7.0%	-8.5%	-3.1%	-9.7%	-6.8%	6.3%	-93.2%

TABLE 10B

**GENERATION SHIFT FACTORS WITH PAR'S FREE FLOW**

	<b>WEST- CENTRAL</b>	<b>UTICA- ALBANY</b>	<b>MARCY- SOUTH</b>	<b>CENTRAL- EAST</b>	<b>BBURG- RAMAPO</b>	<b>IMO- NYISO</b>	<b>IMO MICH</b>	<b>PJM- NYISO</b>
ALBANY	4.3%	16.1%	-8.6%	20.7%	-1.5%	4.4%	-4.1%	-4.4%
BB-RAMAPO	7.8%	8.2%	5.0%	9.3%	-100.0%	7.4%	-6.9%	-7.4%
BECK	-45.1%	-27.3%	-15.3%	-30.8%	-10.5%	-77.9%	-20.7%	-22.1%
BOWEN	-14.9%	-14.6%	-6.7%	-16.6%	-18.7%	-17.9%	16.2%	-82.0%
BOWLINE	-0.2%	-1.2%	0.8%	-1.3%	4.5%	-0.2%	0.2%	0.2%
BRANDON	-10.5%	-11.4%	-4.8%	-13.0%	-20.8%	-10.8%	10.0%	-89.2%
BRAYTON	2.9%	9.4%	-5.9%	14.7%	-0.8%	3.4%	-3.2%	-3.4%
CONEMAUGH	-11.2%	-12.2%	-5.1%	-13.9%	-20.1%	-10.2%	9.5%	-89.8%
DUNKIRK	-37.8%	-22.9%	-11.9%	-25.9%	-12.9%	7.1%	-6.6%	-7.1%
EDDYSTONE	-6.9%	-8.5%	-3.1%	-9.6%	-23.0%	-6.6%	6.2%	-93.3%
GILBOA	4.4%	4.8%	1.3%	4.5%	-1.6%	4.0%	-3.7%	-4.0%
HATFIELD	-13.3%	-13.6%	-6.0%	-15.5%	-19.2%	-13.7%	12.8%	-86.3%
HUDSON	-1.7%	-2.5%	-0.4%	-2.9%	-5.1%	-1.6%	1.5%	-98.4%
HUNTLEY	-46.8%	-26.4%	-14.5%	-29.8%	-10.8%	16.1%	-15.1%	-16.1%
INDIANPT2	-0.1%	-0.9%	0.7%	-1.0%	3.6%	-0.1%	0.1%	0.2%
JEAMOS	-15.3%	-14.8%	-6.8%	-16.9%	-18.5%	-18.1%	16.8%	-81.9%
LAMBTON	-25.1%	-21.4%	-11.5%	-24.4%	-14.4%	-45.4%	-54.0%	-54.6%
MTSTORM	-13.0%	-13.3%	-5.8%	-15.1%	-19.5%	-13.9%	12.9%	-86.1%
NANTICOKE	-31.8%	-26.0%	-14.7%	-29.7%	-11.6%	-65.4%	-32.5%	-34.6%
NEWTON	-16.1%	-15.4%	-7.2%	-17.5%	-18.1%	-20.3%	18.4%	-79.6%
NIAGARA	-48.5%	-26.9%	-14.9%	-30.3%	-10.6%	15.8%	-14.9%	-15.8%
NORWALK	1.3%	3.7%	-1.8%	5.2%	0.1%	1.4%	-1.3%	-1.4%
OSWEGO	12.9%	-37.8%	-23.7%	-41.5%	-5.1%	8.6%	-8.1%	-8.6%
PORTLAND	-5.2%	-7.3%	-2.4%	-8.4%	-17.9%	-5.0%	4.6%	-95.0%
ROSETON	1.6%	1.7%	1.3%	1.7%	1.0%	1.5%	-1.4%	-1.5%
SALEM	-7.0%	-8.5%	-3.1%	-9.7%	-22.9%	-6.8%	6.3%	-93.2%



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APPENDIX F

**ANNOTATED TLTG OUTPUT**

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On Computer Diskette If Requested

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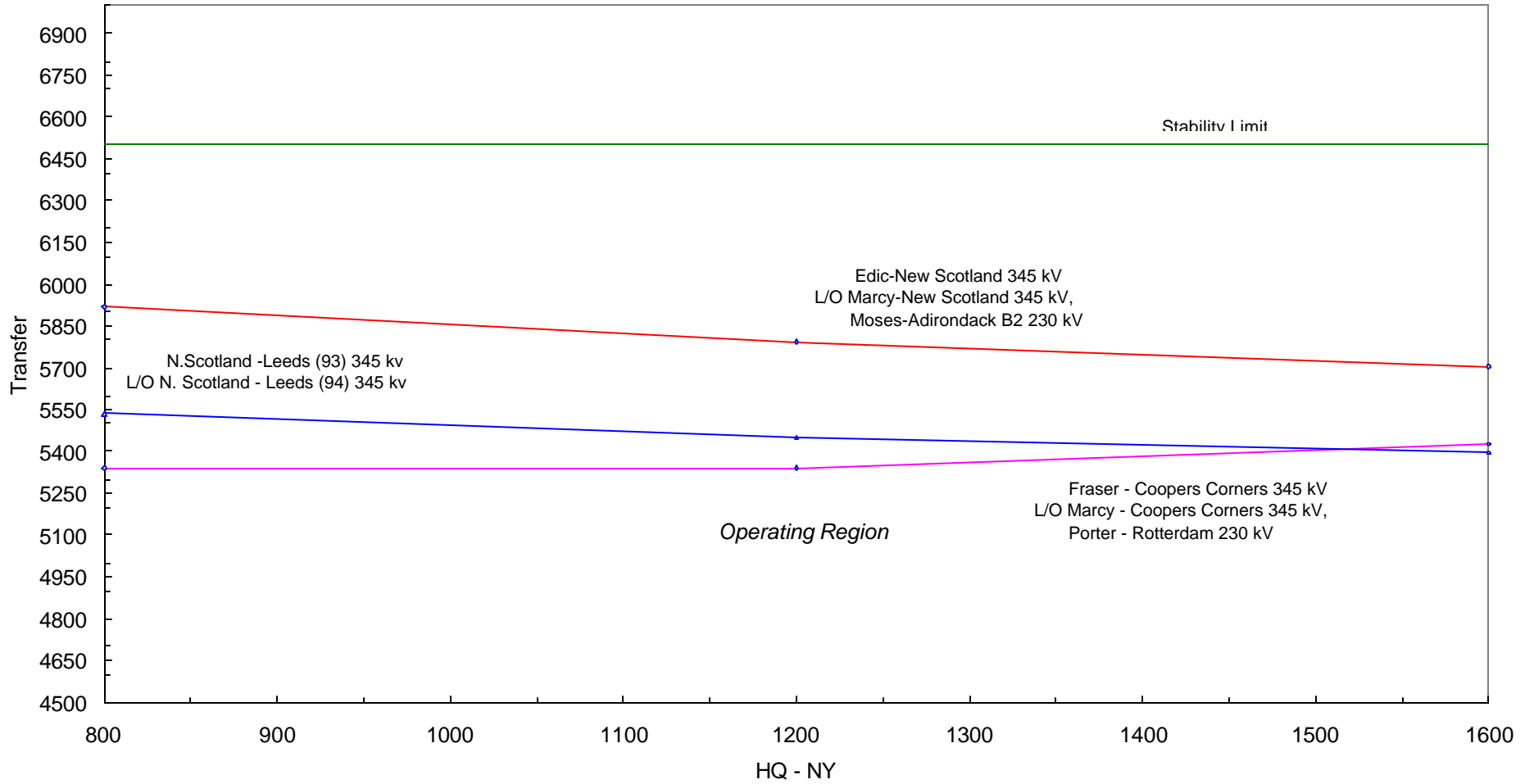
APPENDIX G  
TRANSFER LIMIT SENSITIVITY GRAPHS



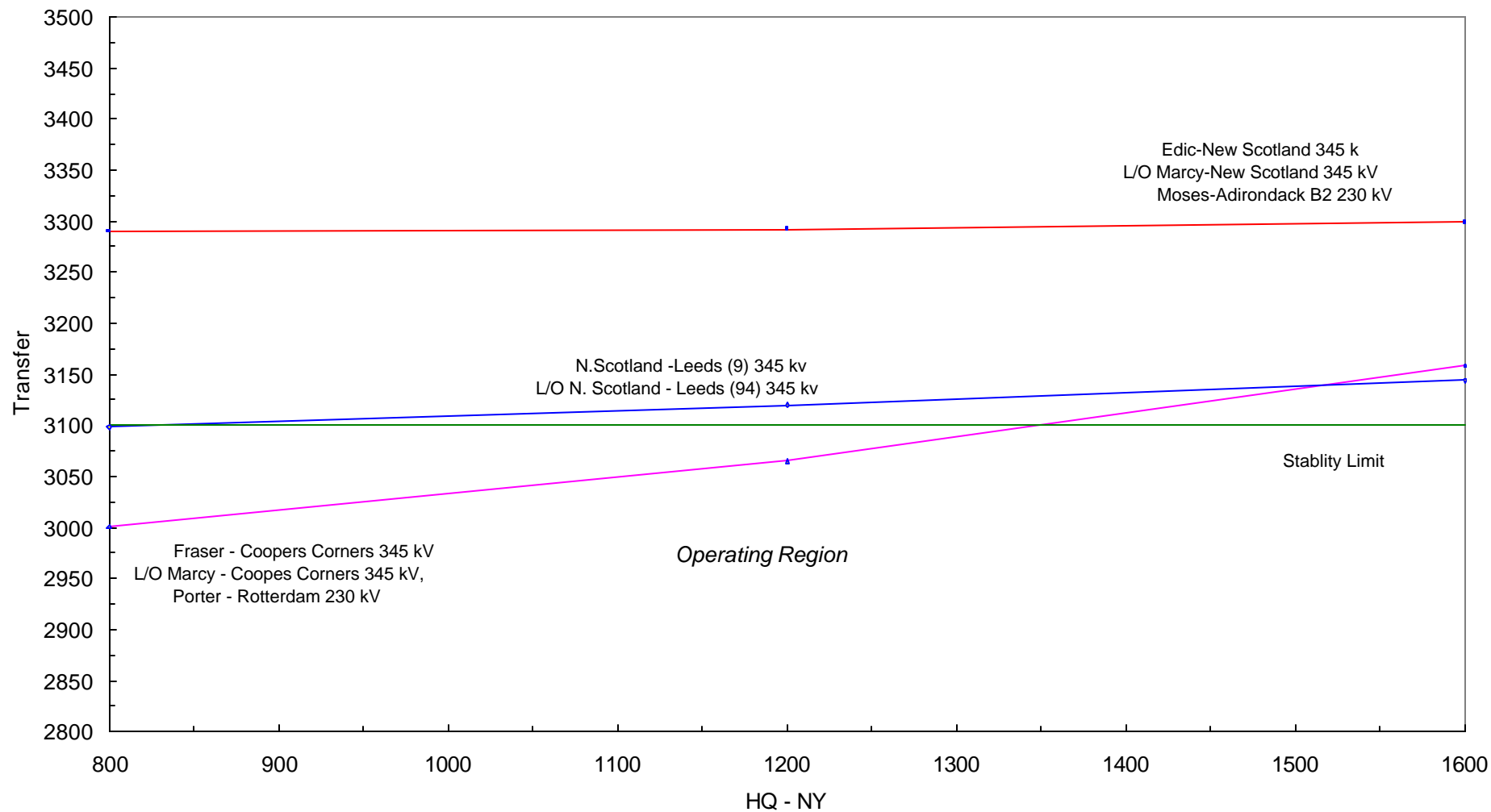
## INDEX

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
4. Central East vs Ramapo Par Flow	.....	G-5
5. UPNY ConEd vs Ramapo Par Flow	.....	G-6
6. UPNY ConEd vs Athens Generation	.....	G-7
7. Moses South vs HQ Export to New York	.....	G-8
8. NE-NY vs Norwalk-Northport Par flow for Normal Transfer	.....	G-9
9. NE-NY vs Norwalk-Northport Par flow for Emergency Transfer	.....	G-10
10. NY-NE vs Norwalk-Northport Par flow for Normal Transfer	.....	G-11
11. NY-NE vs Norwalk-Northport Par flow for Emergency Transfer	.....	G-12
12. NYISO-IMO (ONTARIO) Transfer vs L33 & L34	.....	G-13
13. IMO (ONTARIO)-NYISO Transfer vs L33 & L34	.....	G-14

### Total East vs. HQ For Normal Transfer Criteria Summer 2003

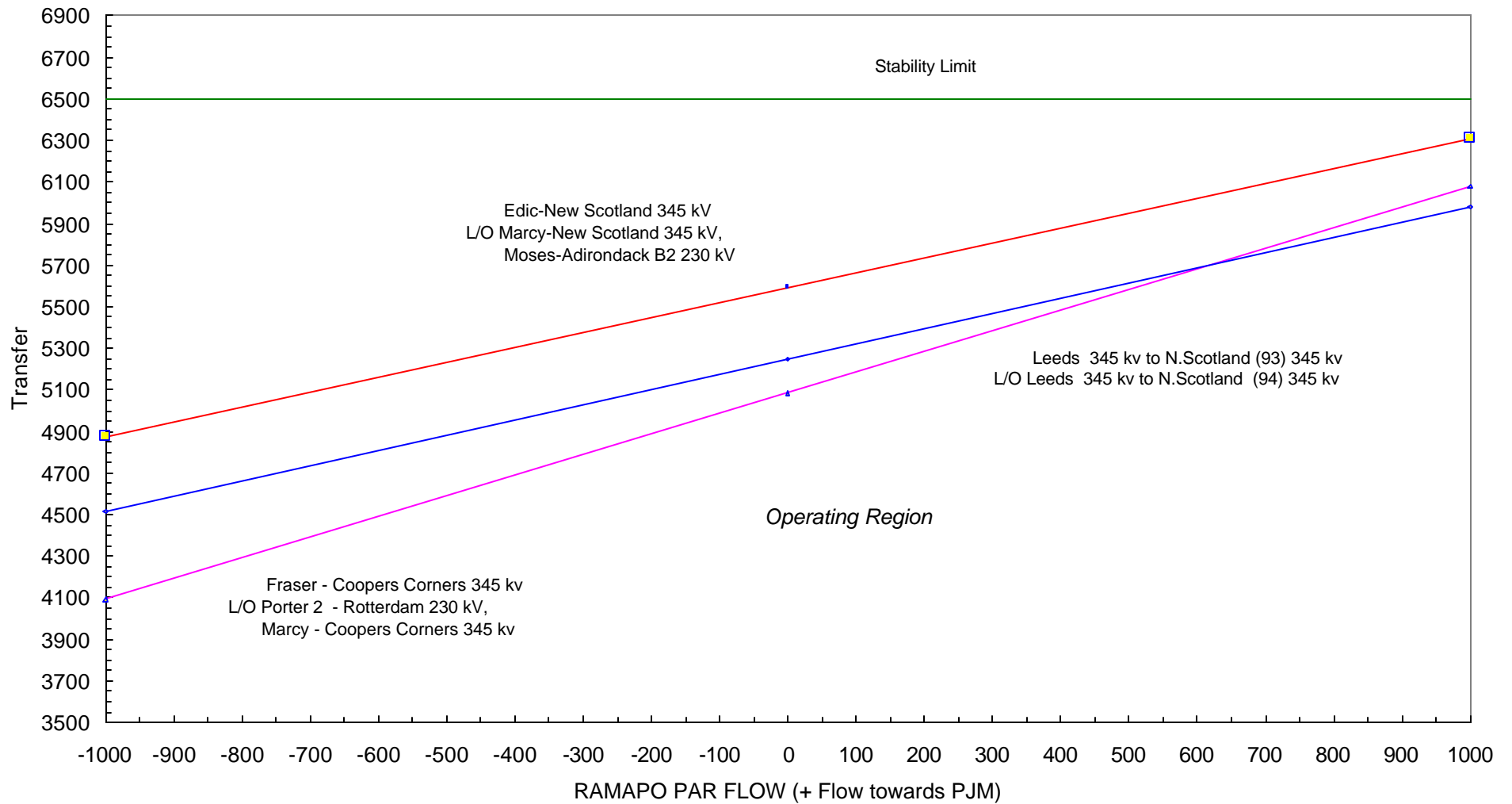


### Central East vs. HQ For Normal Transfer Criteria Summer 2003

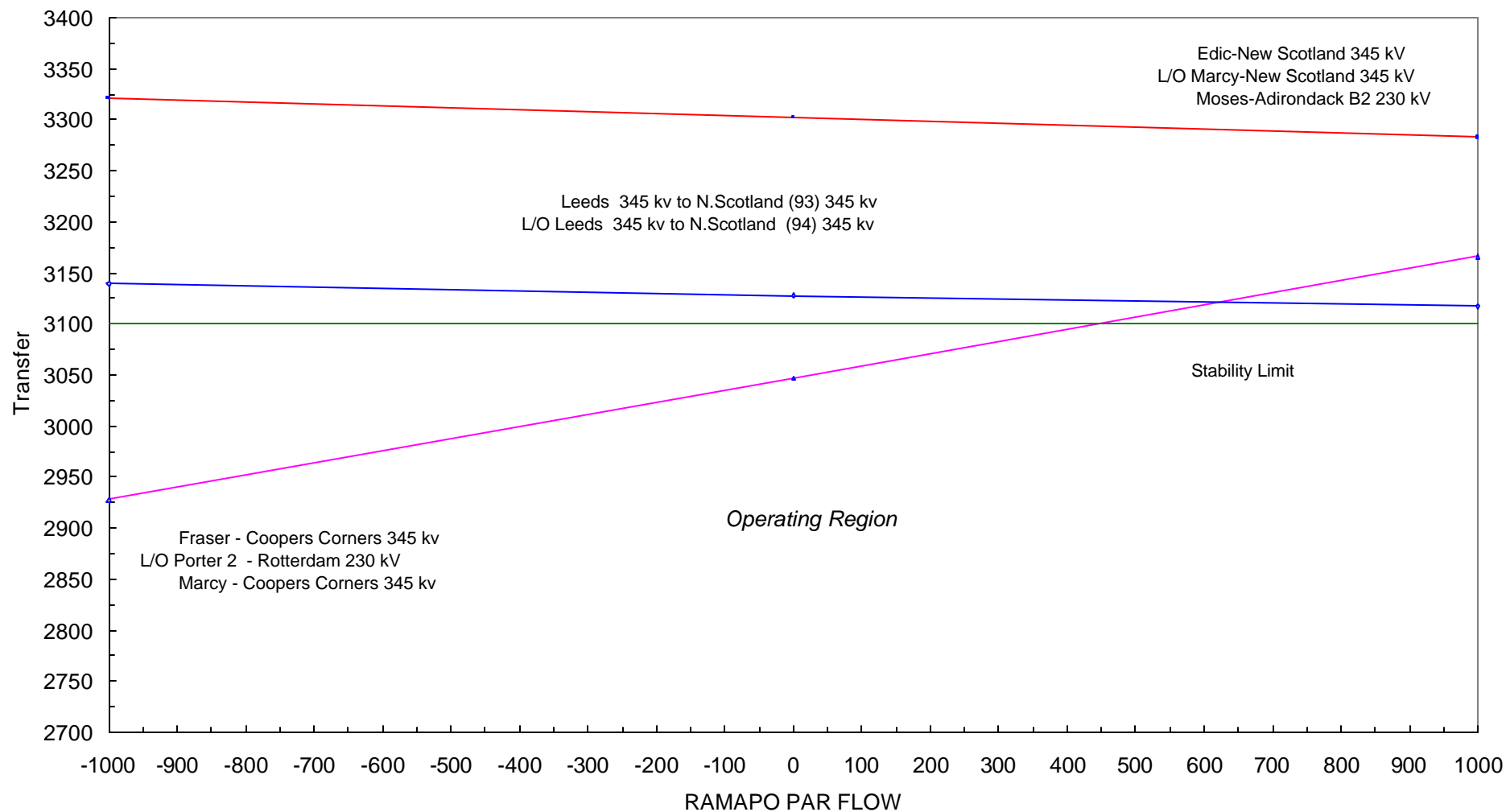




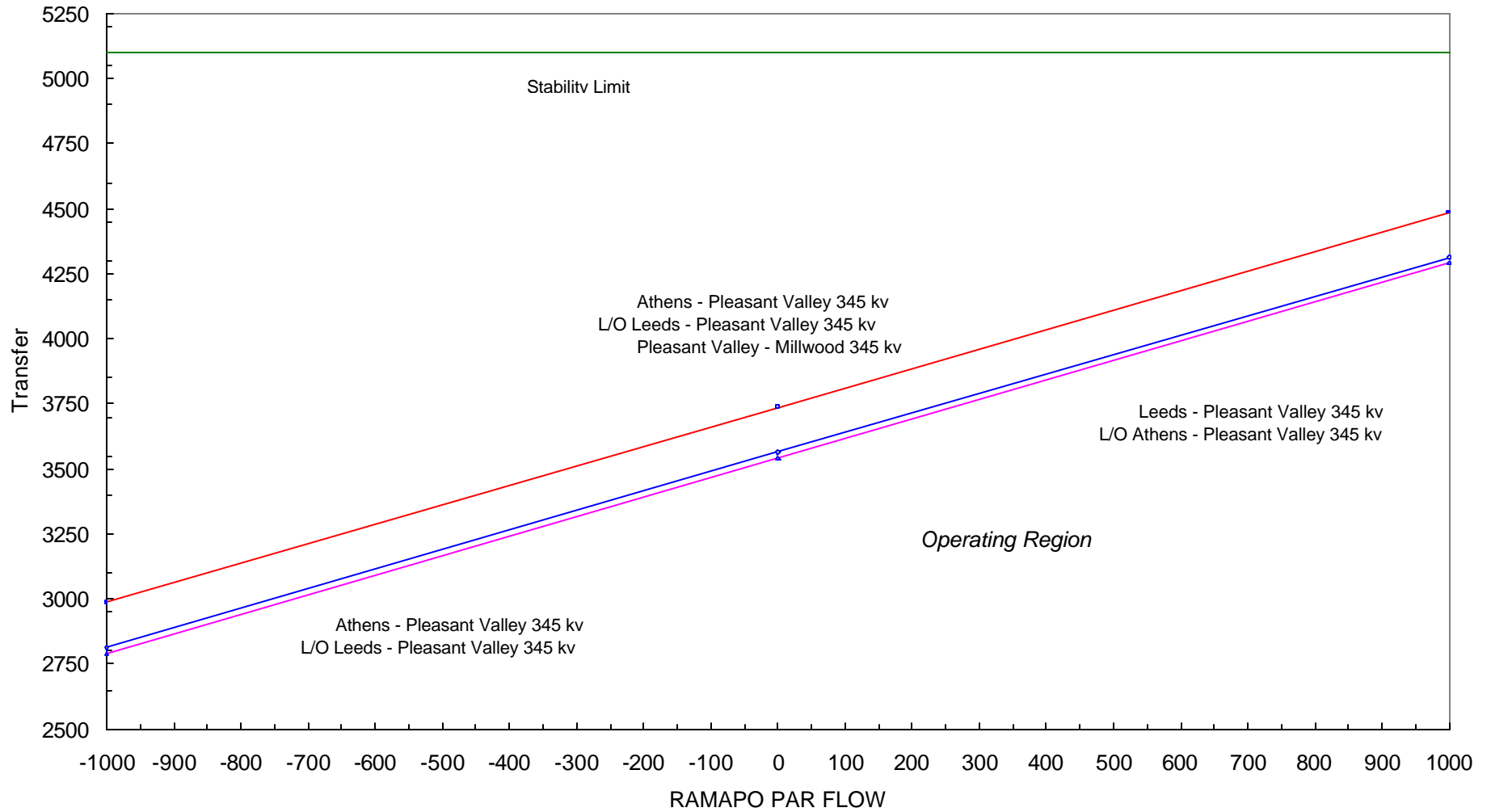
## Total East vs. RAMAPO PAR Flow For Normal Transfer Criteria Summer 2003



## Central East vs. RAMAPO PAR Flow For Normal Transfer Criteria Summer 2003



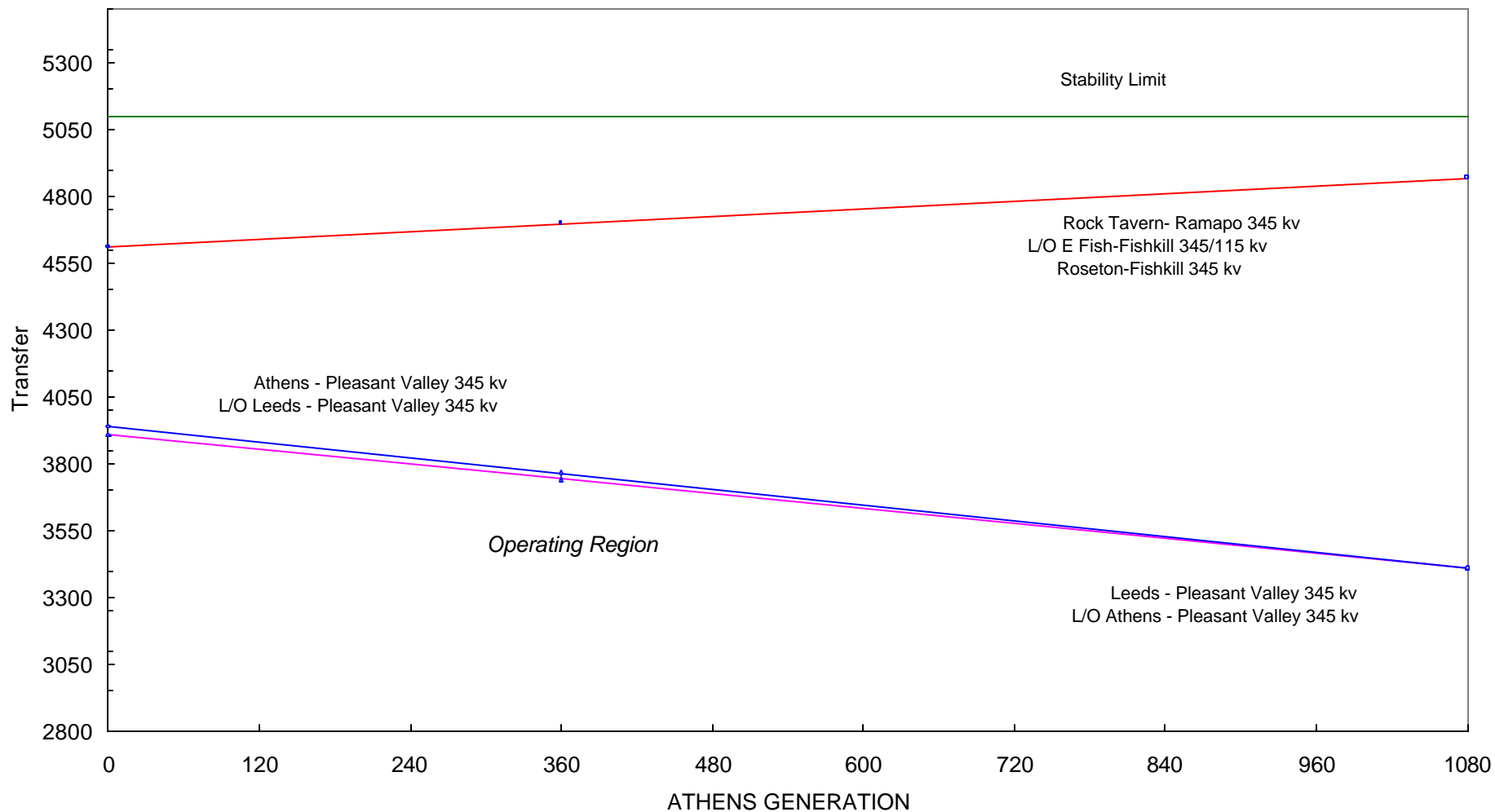
### UPNY CONED vs. RAMAPO PAR Flow For Normal Transfer Criteria Summer 2003



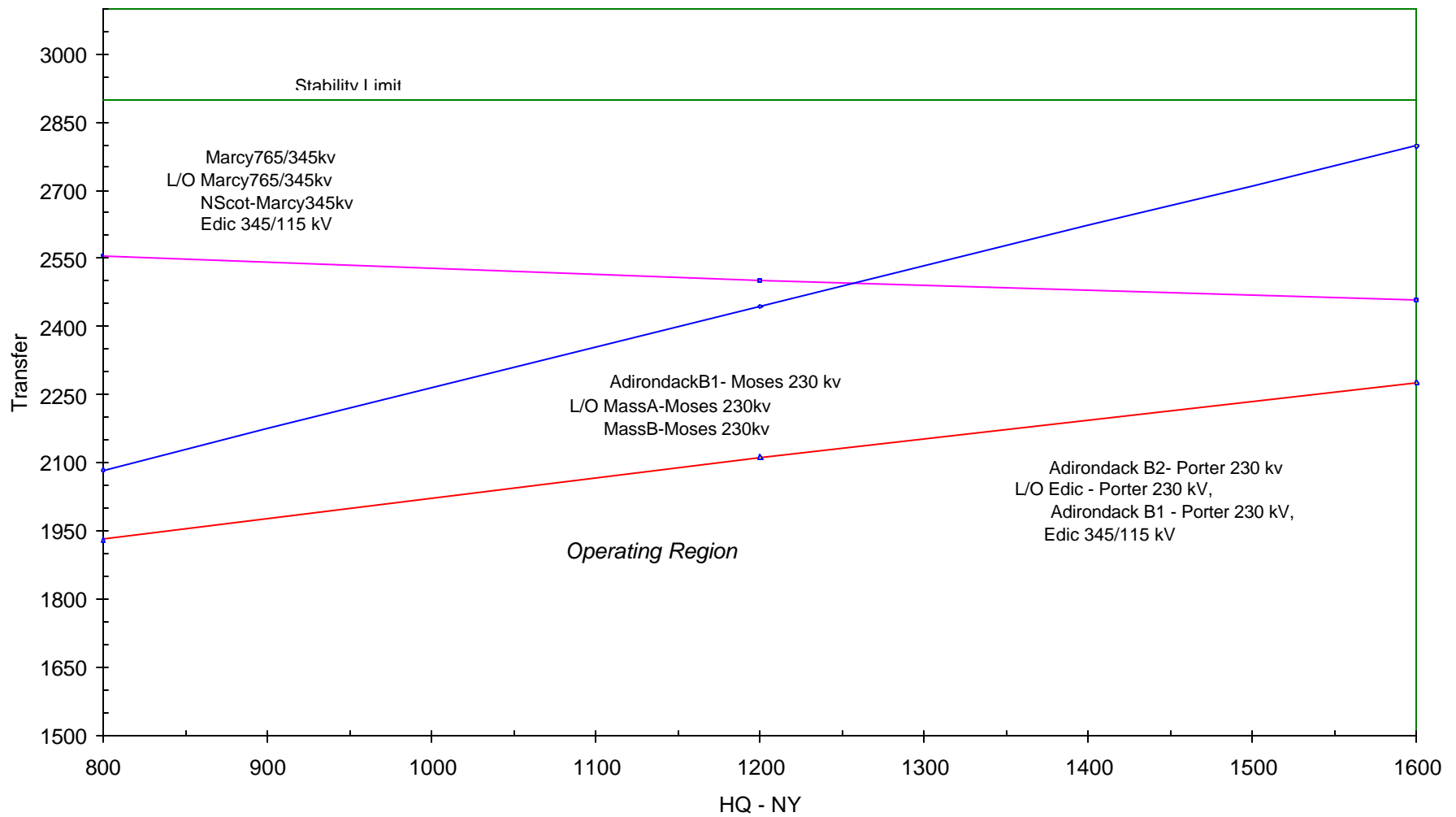
## UPNY CONED vs. ATHENS GENERATION

For Normal Transfer Criteria

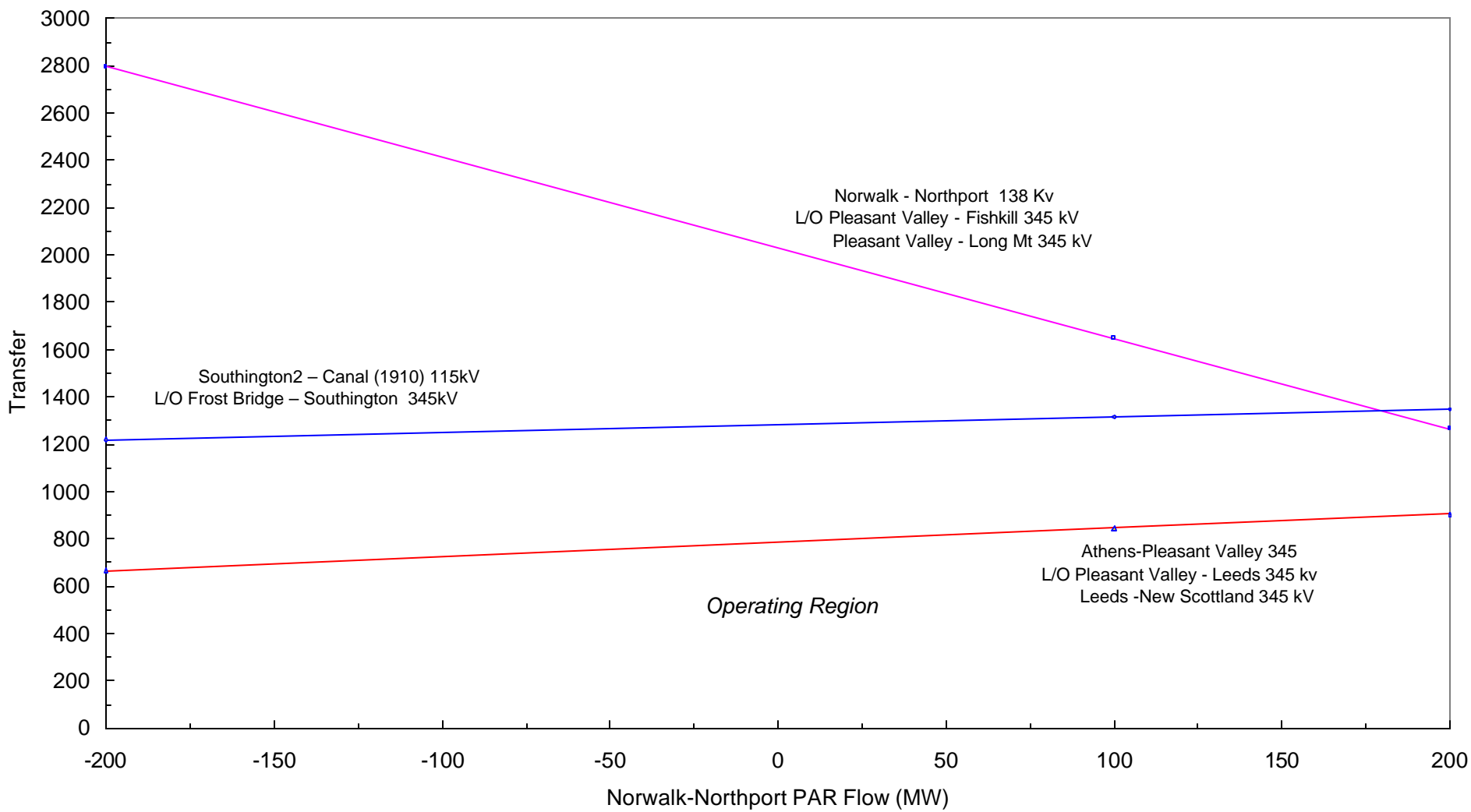
Summer 2003



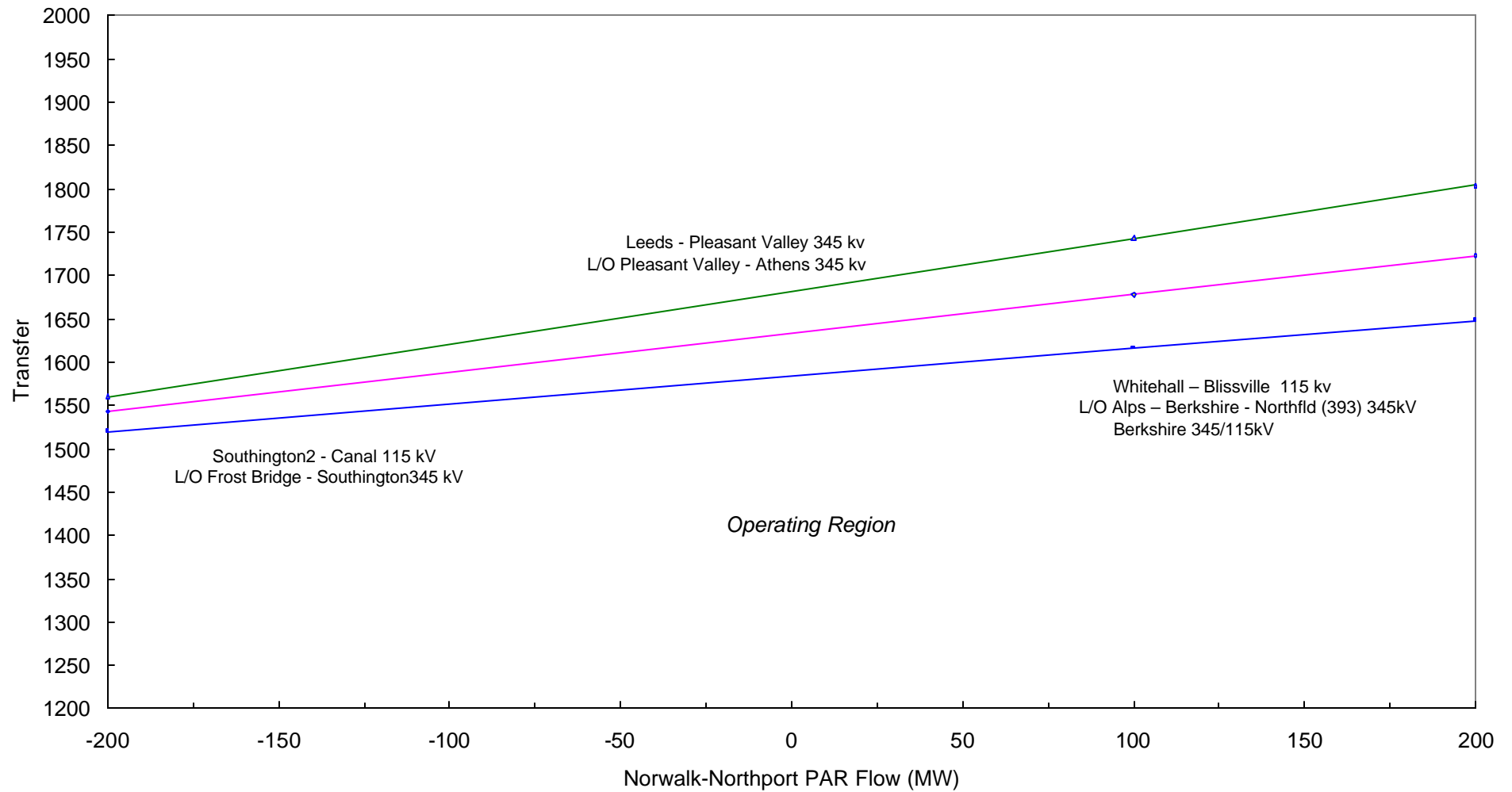
### Moses South vs. HQ Export to New York For Normal Transfer Criteria Summer 2003



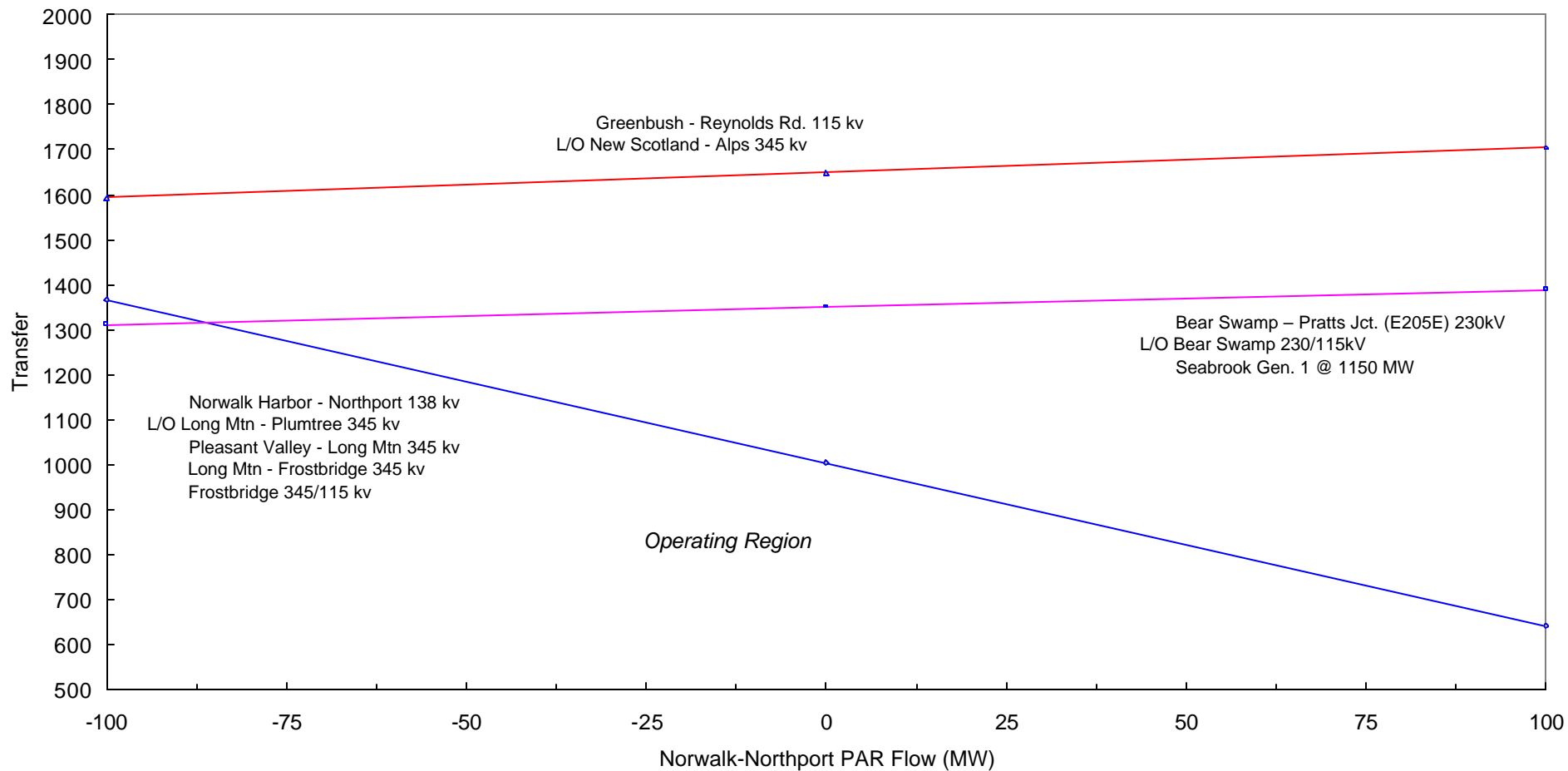
**NE-NY vs. NORWALK-NORTHPORT PAR Flow**  
 For Normal Transfer Criteria  
 Summer 2003



## NE-NY vs. NORWALK-NORTHPORT PAR Flow For Emergency Transfer Criteria Summer 2003

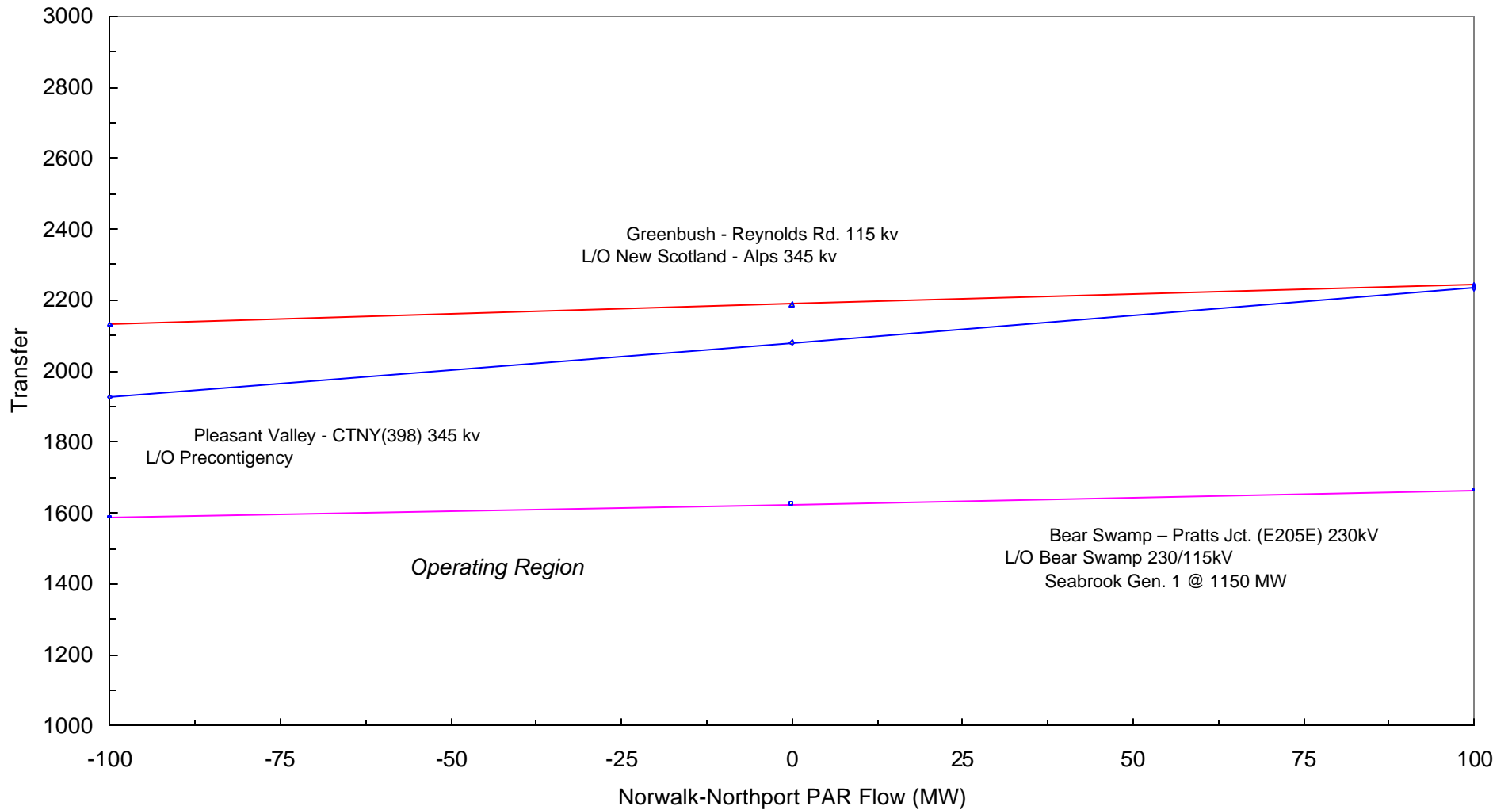


### NY-NE vs. NORWALK-NORTHPORT PAR Flow For Normal Transfer Criteria Summer 2003

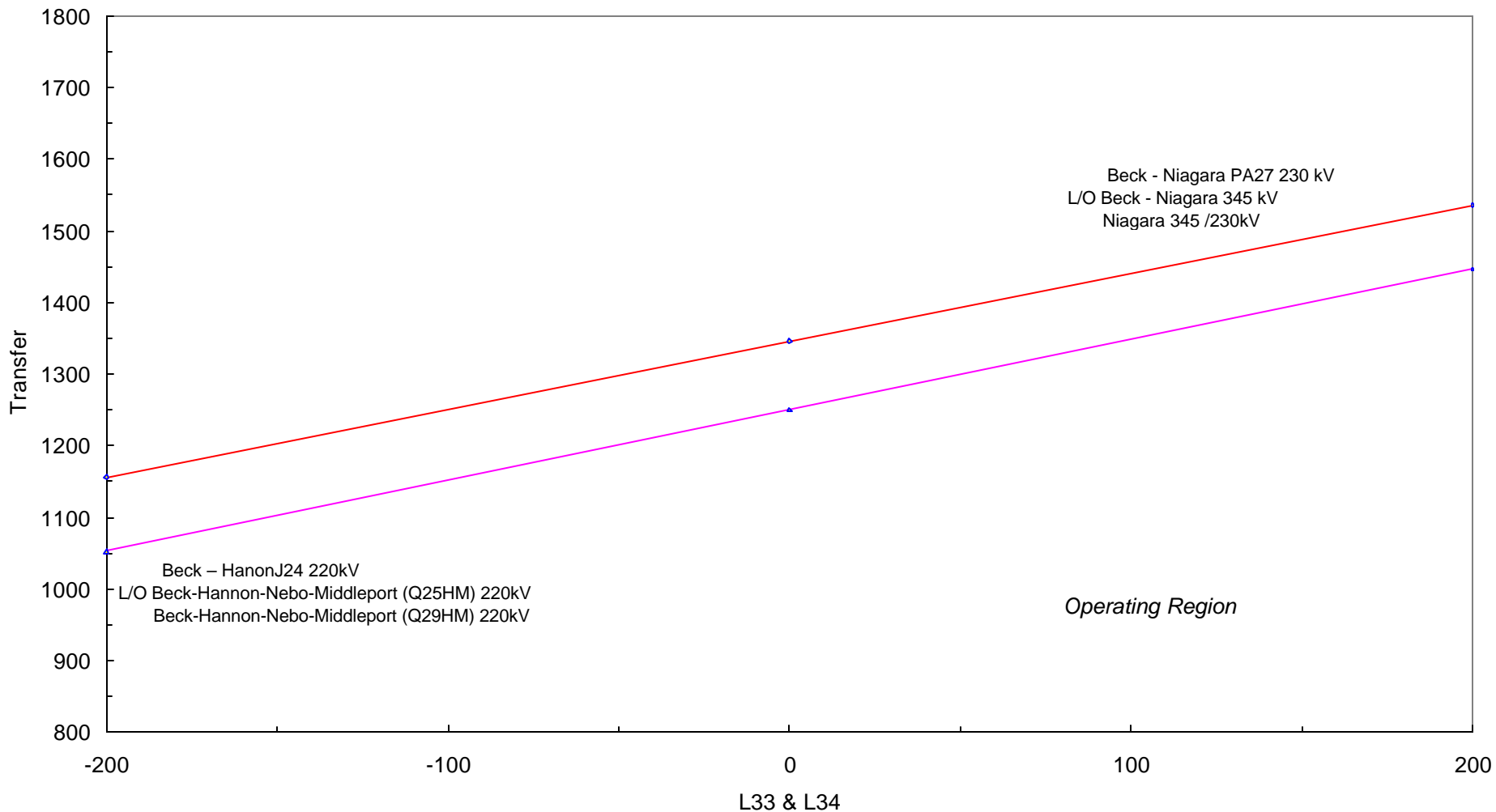




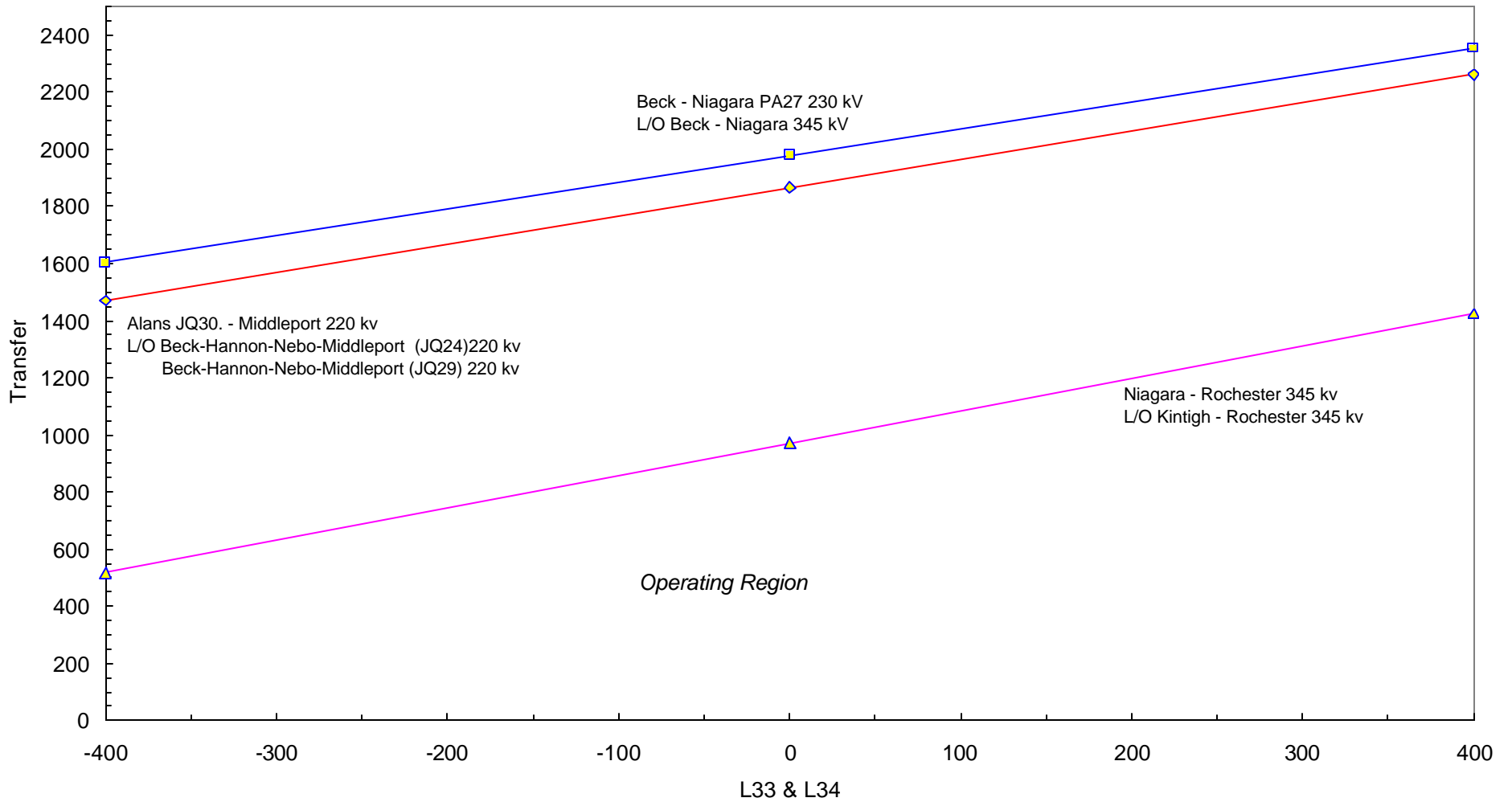
## NY-NE vs. NORWALK-NORTHPORT PAR Flow For Emergency Transfer Criteria Summer 2003



### NY- IMO (Ontario) Transfer vs. L33 & L34 For Normal Transfer Criteria Summer 2003



## IMO (Ontario)-NY Transfer vs. L33 & L34 For Normal Transfer Criteria Summer 2003



**APPENDIX H**

**COMPARISON OF TRANSFER LIMITS  
SUMMER 2003 vs. SUMMER 2002**

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## **Comparison of Summer 2003 to Summer 2002 Thermal Limits**

		SUMMER 2003		SUMMER 2002		
Interface	Rating	Limit (MW)	Contingency	Limit (MW)	Contingency	Delta
<b>Dysinger East</b>	Normal	2950	1	2925	1	25
	Emergency	3225	3	3250	2	-25
<b>West Central</b>	Normal	1650	1	1775	1	-125
	Emergency	1950	3	2100	2	-150
<b>UPNY - ConEd</b>	Normal	3725	4	3875	4	-150
	Emergency	4375	4	4525	4	-150
<b>SpBk/Dun-South</b>	Normal	3850	5	3750	5	100
	Emergency	4000	6	3950	6	50
<b>Con Ed - LIPA</b>	Normal	825	8	950	7	-125
	Emergency	1450	8	1500	8	-50
<b>Central East</b> MSC-7040 FLOW 1600 MW	Normal	3125	9	3150	9	-25
	Emergency	3450	10	3475	10	-25
MSC-7040 FLOW 1200 MW	Normal	3050	11	3125	11	-75
	Emergency	3425	10	3450	10	-25
MSC-7040 FLOW 800 MW	Normal	3000	11	3125	9	-125
	Emergency	3400	10	3450	10	-50
<b>Total East</b> MSC-7040 FLOW 1600 MW	Normal	5375	9	5300	9	75
	Emergency	6025	10	5925	10	100
MSC-7040 FLOW 1200 MW	Normal	5325	11	5300	11	25
	Emergency	6075	10	5975	10	100
MSC-7040 FLOW 800 MW	Normal	5325	11	5325	9	0
	Emergency	6150	10	5950	10	200
<b>Moses - South</b> MSC-7040 FLOW 1600 MW	Normal	2275	12	2225	12	50
	Emergency	2875	13	2875	13	0
MSC-7040 FLOW 1200 MW	Normal	2100	12	2025	12	75
	Emergency	2575	13	2575	13	0
MSC-7040 FLOW 800 MW	Normal	1925	12	1875	12	50
	Emergency	2250	13	2250	13	0

**NYISO SUMMER 2003 CROSS-STATE THERMAL LIMIT CONTINGENCY LIST**

	<b><u>Limiting Element</u></b>		<b><u>Contingency</u></b>
(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 1538 MW L/O @STE 1724 MW	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 <sup>th</sup> 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>
<b>TOTAL-EAST</b>			
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
<b>UPNY-CONED</b>			
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
<b>CENTRAL-EAST</b>			
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>		<i>CE-14</i> <i>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		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
<b>MOSES-SOUTH</b>			
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		

<b>MOSES -NORTH</b>			
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	
<b>WEST-CENTRAL</b>			
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
<b>DYSINGER-EAST</b>			
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
<b>NYISO-PJM</b>			
SEASONAL LIMIT	3600	NP-1	9/94
<b>PJM-NYISO</b>			
SEASONAL LIMIT	3600	NP-1	9/94
<b>NYISO-IMO</b>			
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
<b>IMO-NYISO</b>			
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

<b>WESTERN NY EXPORT</b>			
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
<b>NYISO-ISO-NE</b>			
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
<b>ISO-NE-NYISO</b>			
THIS LIMIT IS SET BY NE, NYISO SPD MUST CALL FOR LIMIT		NE-1	10/92

**NYISO STABILITY REPORT  
SUMMARY**

<b>REPORT</b>	<b>REPORT TITLE</b>	<b>LAST REVISED DATE</b>
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	4/1796
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



