

APPENDIX A

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

This page is intentionally left blank

SCHEDULE OF NET INTERCHANGES

TO FROM	NYISO	PJM	PJM- WEST	IMO	ISONE	NB/NS	Trans Énergie	Other Control Areas	TOTAL EXPORT+ IMPORT-
NYISO		-120	0	0	123	0	0	82	85
PJM	120	0	-862	0	0	0	0	-187	-839
IMO	0	0	0		0	0	0	0	0
ISONE	-123	0	0	0		-600	-200	0	-923
NB/NS	0	0	0	0	600		-500	0	100
Trans Énergie	0	0	0	0	200	500		0	700

APPENDIX A
SUMMARY OF SUMMER 2003 BASE TRANSFERS

NEW BRUNSWICK/NOVA SCOTIA	
New Brunswick to TransÉnergie: Madawaska and Eel River HVdc	-500
New Brunswick to New England	600
Total Export (+) / Import (-)	100

NEW ENGLAND	
New England to New Brunswick	-600
New England to TransÉnergie: Sandy Pond and Highgate HVdc	-200
New England to New York	-123
Total Export (+) / Import (-)	-923

NEW YORK ISO	
New York to TransÉnergie	0
New York to New England: NYPA to VELCO	123
New York to PJM: NYPA to PA-RECS	94
New York to PJM: Sithe Allegheny	-36
New York to PJM: Non-Firm Energy	-178
New York to ECAR: NYPA to AMP- Ohio	82
New York to IMO (Ontario)	0
Total Export (+) / Import (-)	85

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	178
PJM to VACAR	-640
Miscellaneous Transfers to Other Areas	- 293
Total Export (+) / Import (-)	-618

TRANSÉNERGIE	
TransÉnergie to New Brunswick: Madawaska and Eel River HVdc	500
TransÉnergie to New England: Sandy Pond and Highgate HVdc	200
TransÉnergie to New York	0
TransÉnergie to IMO (Ontario)	0
Total Export (+) / Import (-)	700

This page is intentionally left blank

APPENDIX B

WINTER 2003-04 BASE CASE CONDITIONS

This page is intentionally left blank

WINTER 2003-04 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	382 MW	In Service
Dunkirk	360 MW	In Service
Niagara (1-13)	2595 MW	In Service
AES/Somerset	591 MW	In Service
GINNA	512 MW	In Service
Sithe/Independence	1065 MW	In Service
Oswego #5	689MW	In Service
Oswego #6	0 MW	Out of Service
Nine Mile Pt #1	626 MW	In Service
Nine Mile Pt #2	1212 MW	In Service
J.A. Fitzpatrick	849 MW	In Service
St. Lawrence/FDR (17-32)	881 MW	In Service
Roseton 1	412 MW	In Service
Roseton 2	0 MW	Out of Service
Gilboa	500 MW	In Service
Saranac Energy	239 MW	In Service
Selkirk Cogen	214 MW	In Service
Indian Pt #2	929 MW	In Service
Indian Pt #3	1011 MW	In Service
Bowline Pt 1	0 MW	Out of Service
Bowline Pt 2	592 MW	In Service
Poletti	855 MW	In Service
Ravenswood #3	905 MW	In Service
ECP/Linden Cogen	645 MW	In Service
Arthur Kill #3	0 MW	Out of Service

ISO-NE

Millstone Point #2	868 MW	In Service
Millstone Point #3	1146 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	162/168 MW	In Service
Seabrook	1150 MW	In Service

IMO (Ontario)

Darlington (4 Units)	3720 MW	In Service
Beck 1 & 2	163/1345 MW	In Service
Bruce B (4 Units)	3300 MW	In Service
Lambton (3 Units)	1020 MW	In Service
Pickering (A & B, 8 Units)	1080/2160 MW	In Service
Nanticoke (5 Units)	2474 MW	In Service
St. Lawrence/Saunders (1-16)	843 MW	In Service

PJM

Peach Bottom #2	848MW	In Service
Peach Bottom #3	1119 MW	In Service
Salem #1	0 MW	Out of Service
Salem #2	1133 MW	In Service
Limerick #1	1182 MW	In Service
Limerick #2	1198 MW	In Service
Hope Creek	1085 MW	In Service
Susquehanna #1	1157 MW	In Service
Susquehanna #2	1160 MW	In Service

TransEnergie HVdc CONVERTER SCHEDULES

Chateauguay HVdc	0 MW	Out of Service
Sandy Pond HVdc	0 MW	Out of Service
Highgate HVdc	200 MW	In Service
Madawaska HVdc	250 MW	In Service
Eel River HVdc	250 MW	In Service

AREA LOADS & LOSSES

NYISO	25488 MW
ISO-NE	21975 MW
IMO (Ontario)	25367 MW
PJM	44661 MW

PHASE ANGLE REGULATOR SCHEDULES

Inghams (CD-ED)	120 MW	
Plattsburgh-Sandbar (PV-20)	No schedule	Out of Service
St. Lawrence-Moses L33P	0 MW	
St. Lawrence-Moses L34P	0 MW	
Norwalk Harbor-Northport	100 MW	
Jamaica-Valley Stream	-117 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)	121 MW	
Ramapo PAR #2 (+ to NY)	121 MW	
East Garden City #1	346 MW	
East Garden City #2	346 MW	

This page is intentionally left blank

APPENDIX C

POWER FLOW TRANSCRIPTION DIAGRAMS

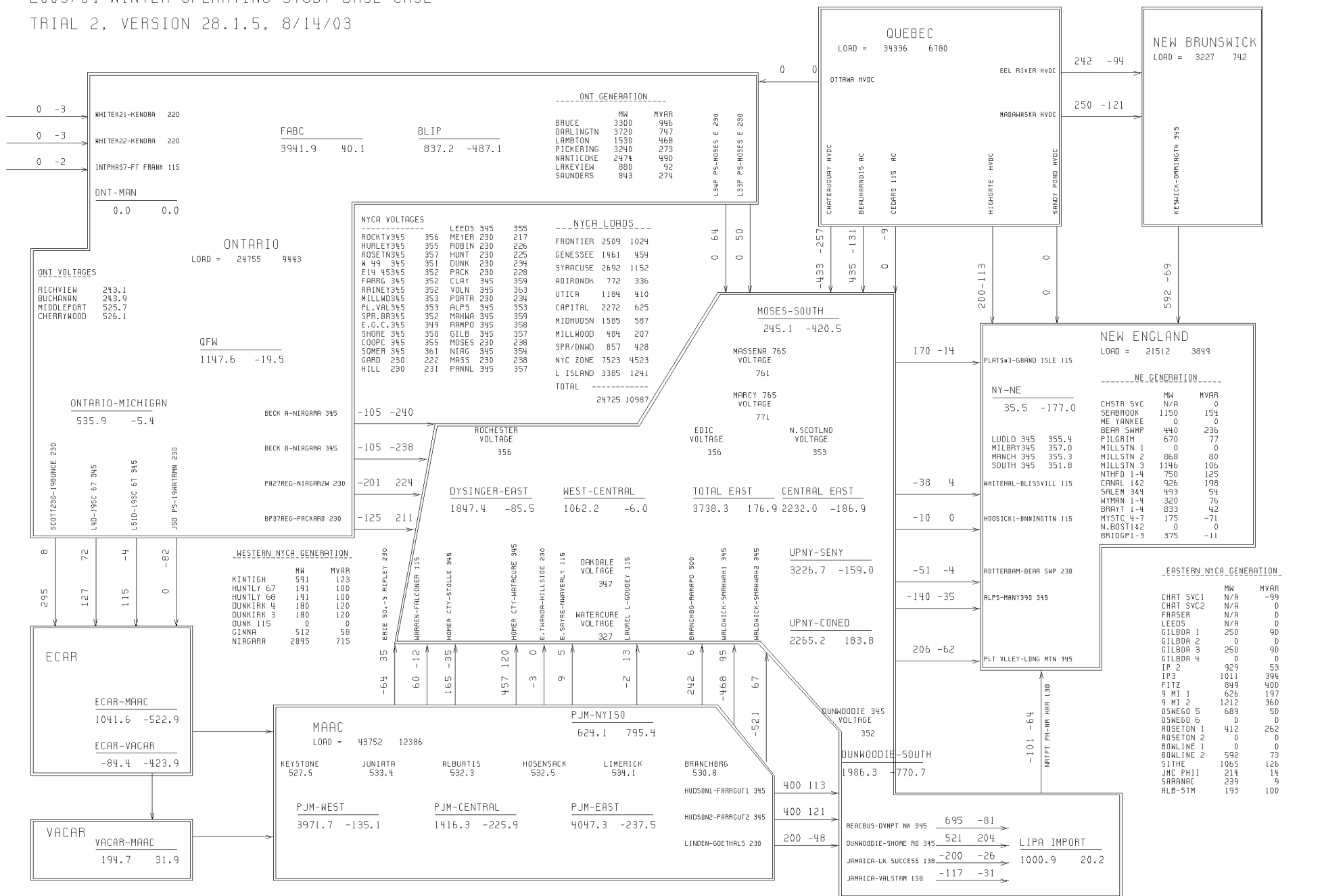
This page is intentionally left blank

INDEX

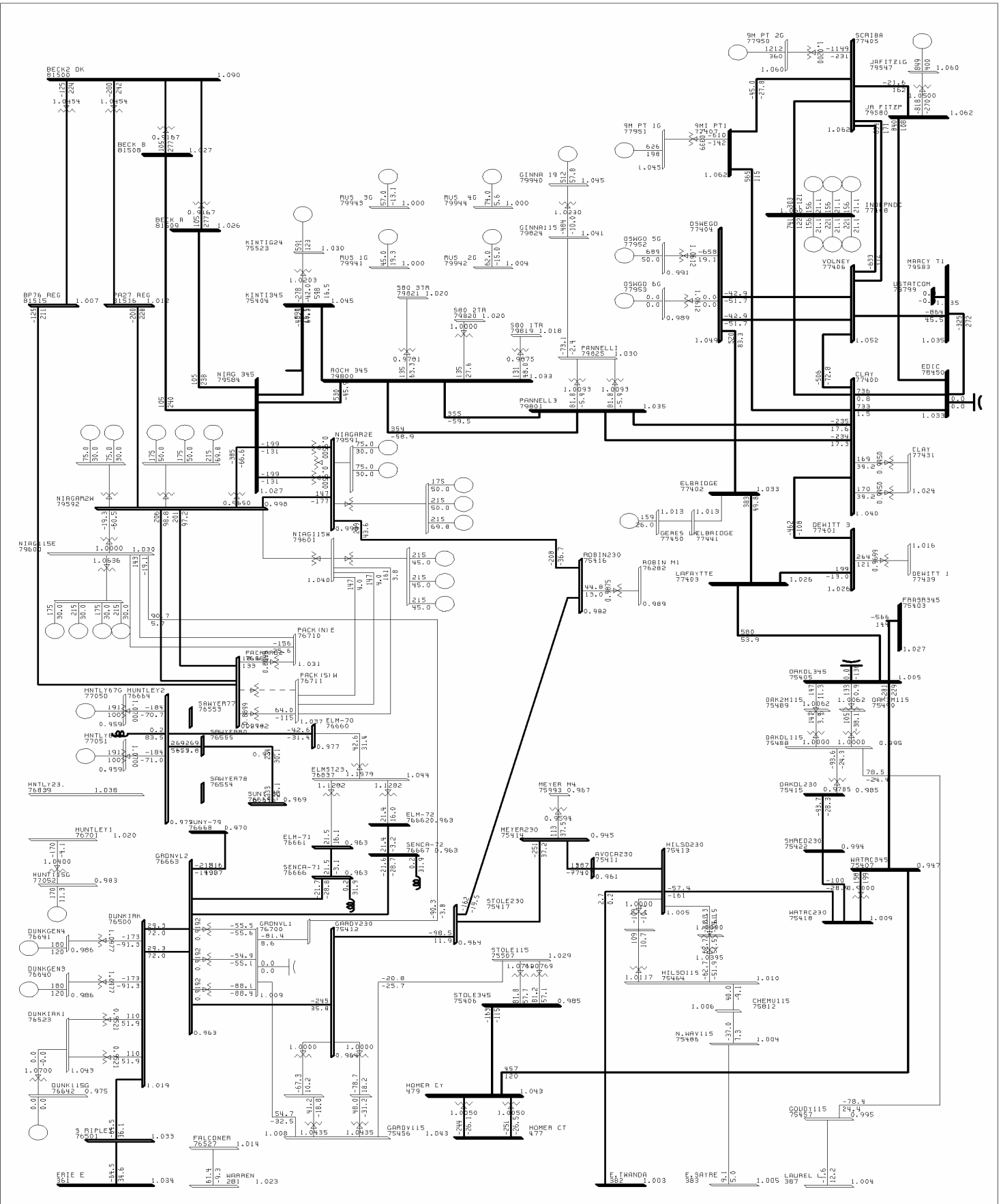
System Overview	.....	C-3
Western NYISO	.....	C-4
Eastern NYISO	.....	C-5
Southern NYISO	.....	C-6
Central Hudson	.....	C-7
Consolidated Edison	.....	C-8
LIPA	.....	C-9,10
NYSEG	.....	C-11,12
NMPC	.....	C-13-18
Orange & Rockland	.....	C-19
Rochester	.....	C-20
Beauharnois	.....	C-21
PJM	.....	C-22
PSE&G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

This page is intentionally left blank

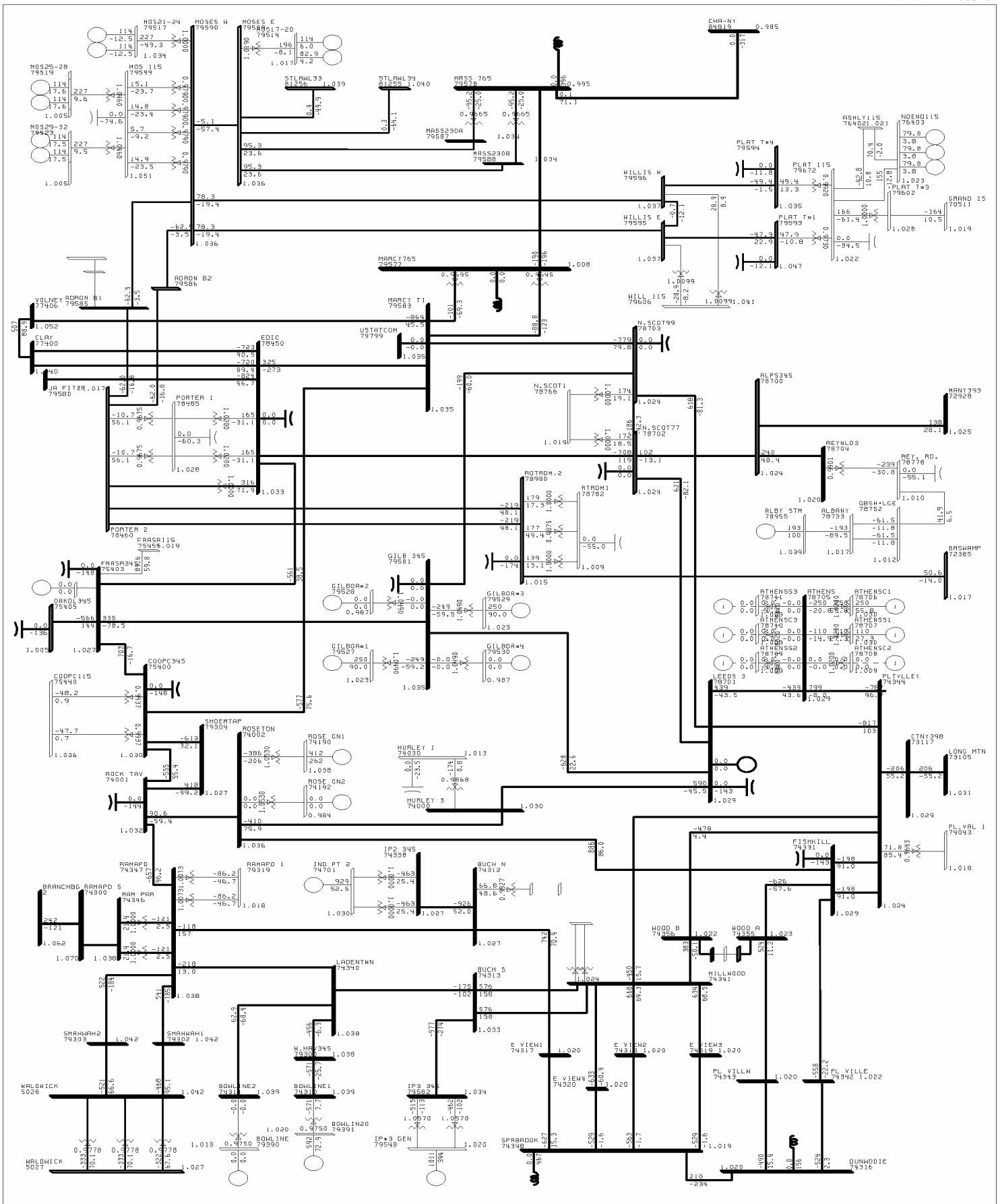
2003/04 WINTER OPERATING STUDY BASE CASE
TRIAL 2, VERSION 28.1.5, 8/14/03



NYISO OPERATING STUDY
WINTER 2003-04

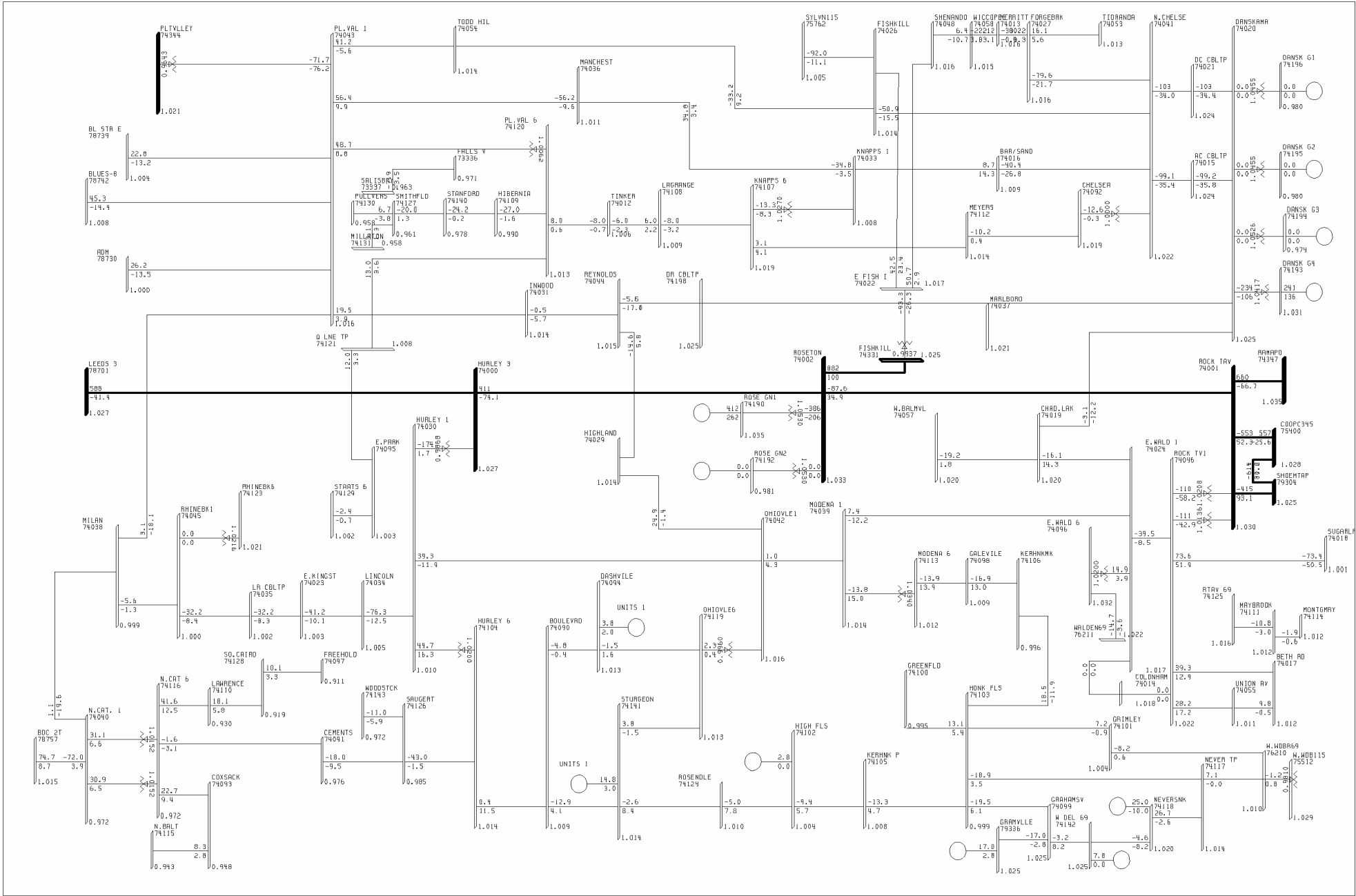


	<p>2003/04 WINTER OPERATING STUDY BASE CASE TRIAL 2, VERSION 28.1.5, 8/14/03 1) WESTERN NYISO WED, SEP 03 2003 16:37</p>	<p>KV: ≤138 .4230 .4345</p>	<p>BUS - VOLTAGE (PU) BRANCH - MW/MVAR EQUIPMENT - MW/MVAR</p>
--	--	-----------------------------	--



2003/04 WINTER OPERATING STUDY BASE CASE
 TRIAL 2, VERSION 28.1.5, 8/14/03
 2) EASTERN NYISO WED, SEP 03 2003 16:38

KV: ≤138 .#230 .#345
 BUS - VOLTAGE (PU)
 BRANCH - MW/MVAR
 EQUIPMENT - MW/MVAR

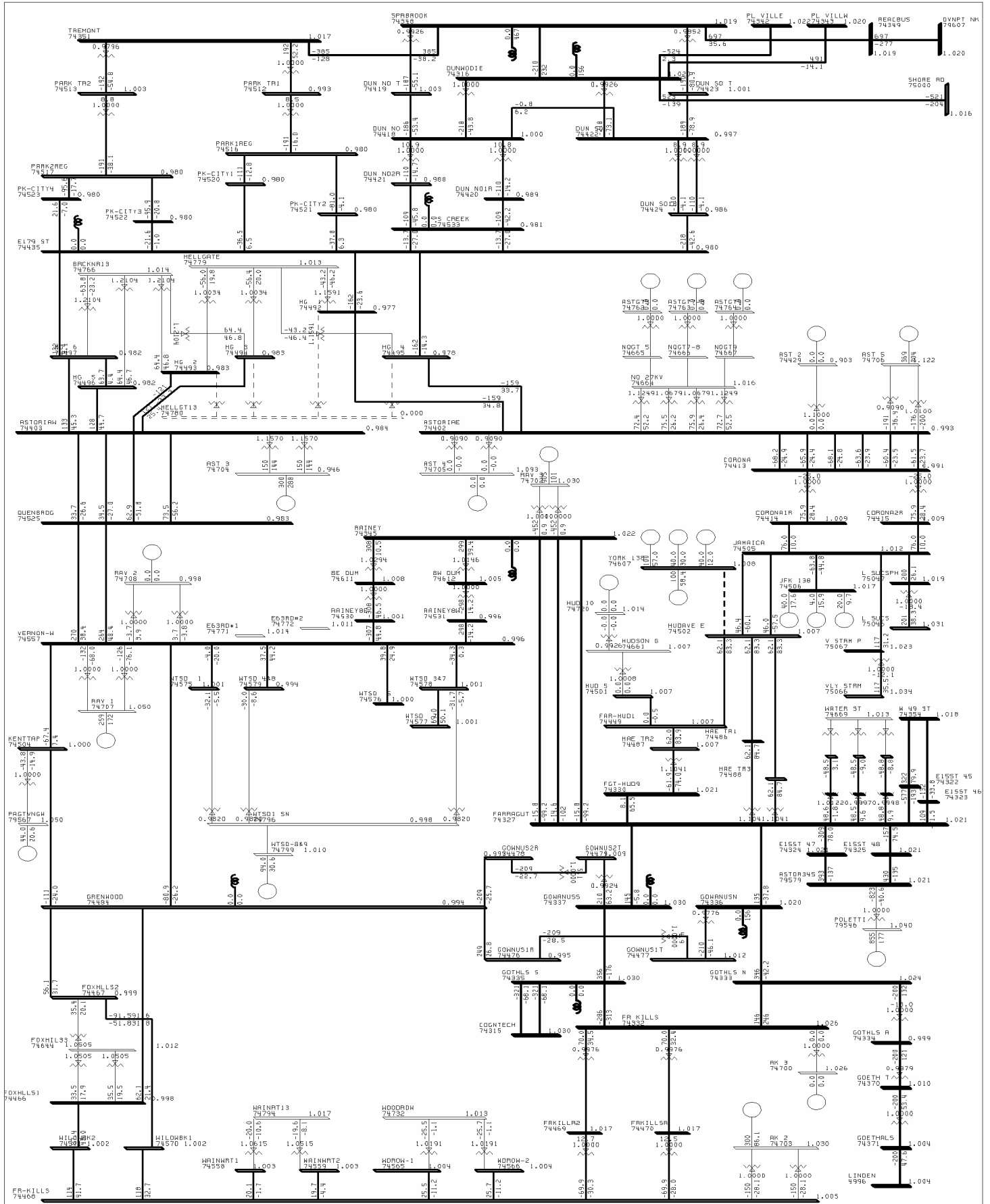


WINTER 2003/04 OPERATING STUDY DUN_RAINY3 O/S
 TRIAL 2, VERSION 28.1.5, 9/19/03
 4) CENTRAL HUDSON MON, SEP 22 2003 10:37

KV: 138 .4230 .4315

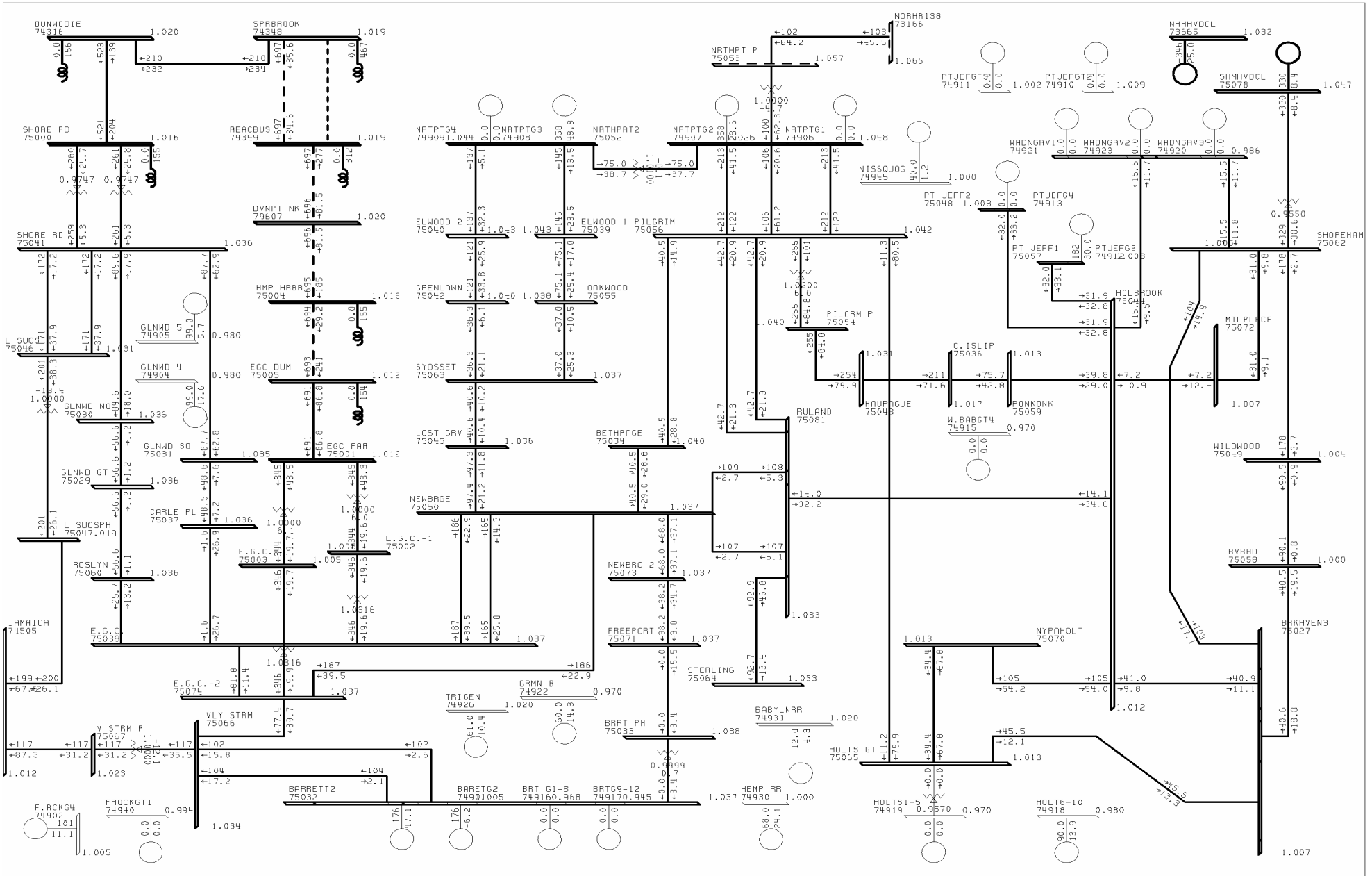
BUS - VOLTAGE (PU)
 BRANCH - MW/MVAR
 EQUIPMENT - MW/MVAR

NYISO OPERATING STUDY
WINTER 2003-04

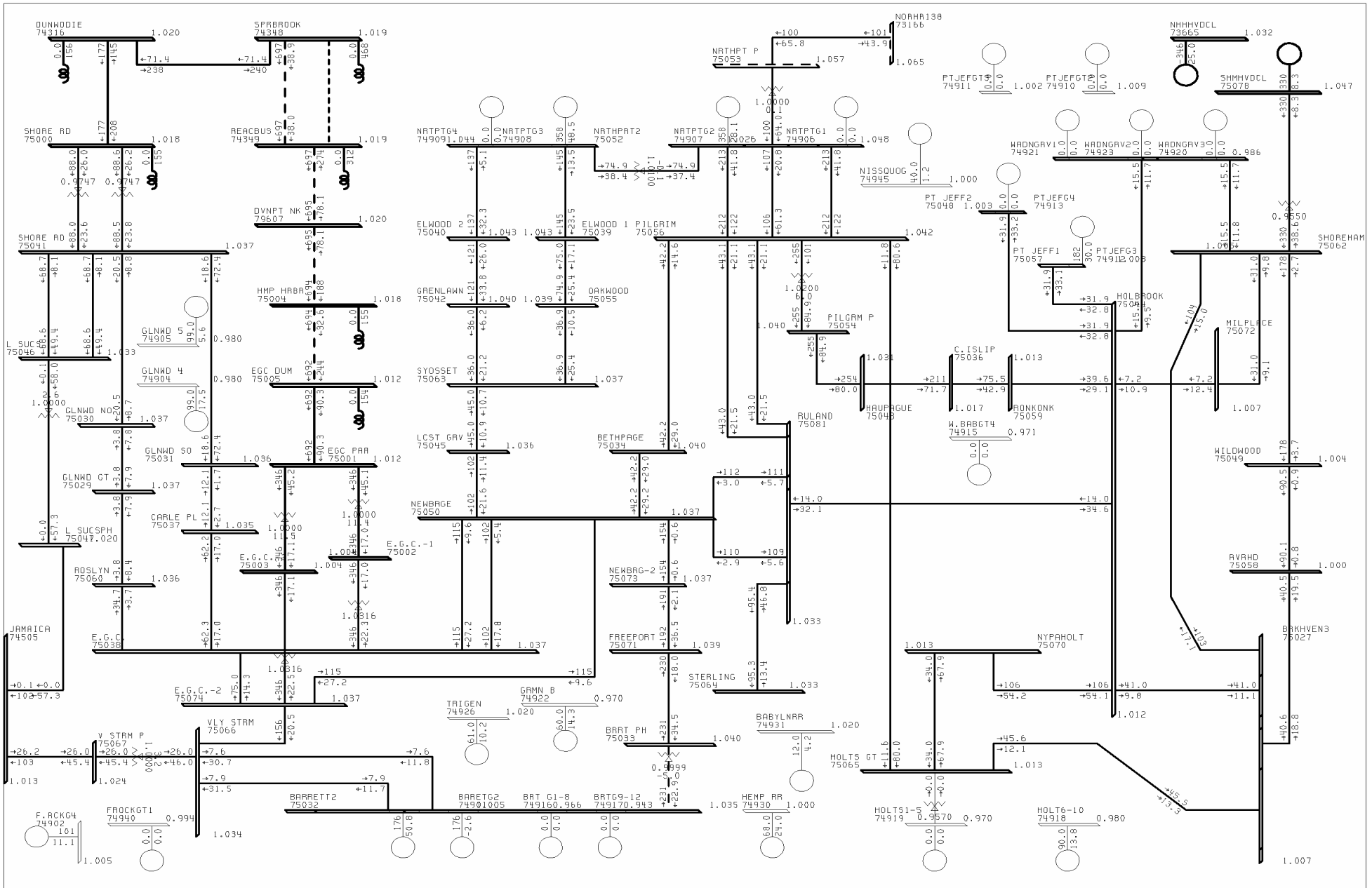


2003/04 WINTER OPERATING STUDY BASE CASE
 TRIAL 2, VERSION 28.1.5, 8/14/03
 5) CON EDISON WED, SEP 03 2003 16:38

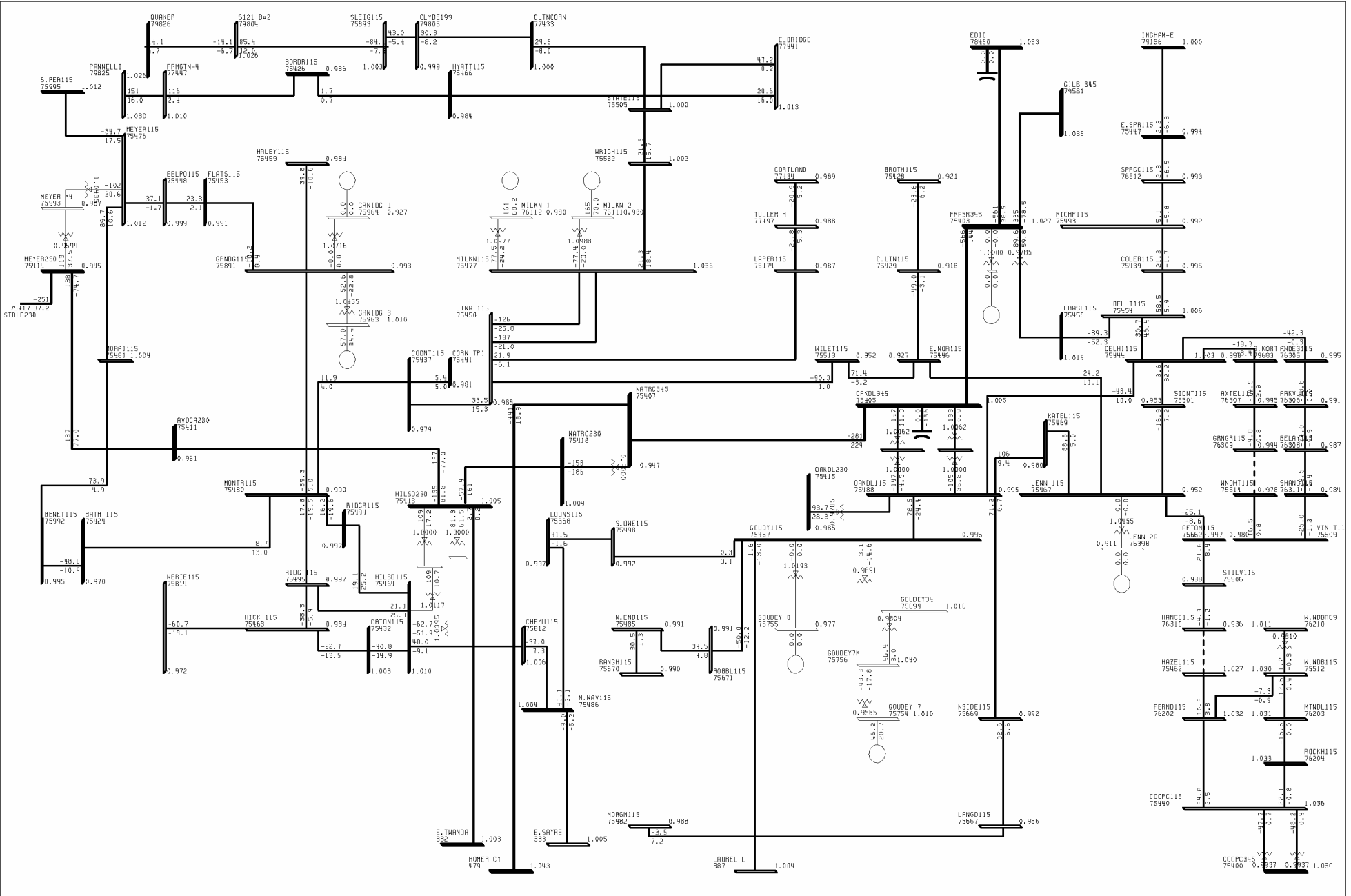
BUS - VOLTAGE (PU)
 BRANCH - MW/MVAR
 EQUIPMENT - MW/MVAR



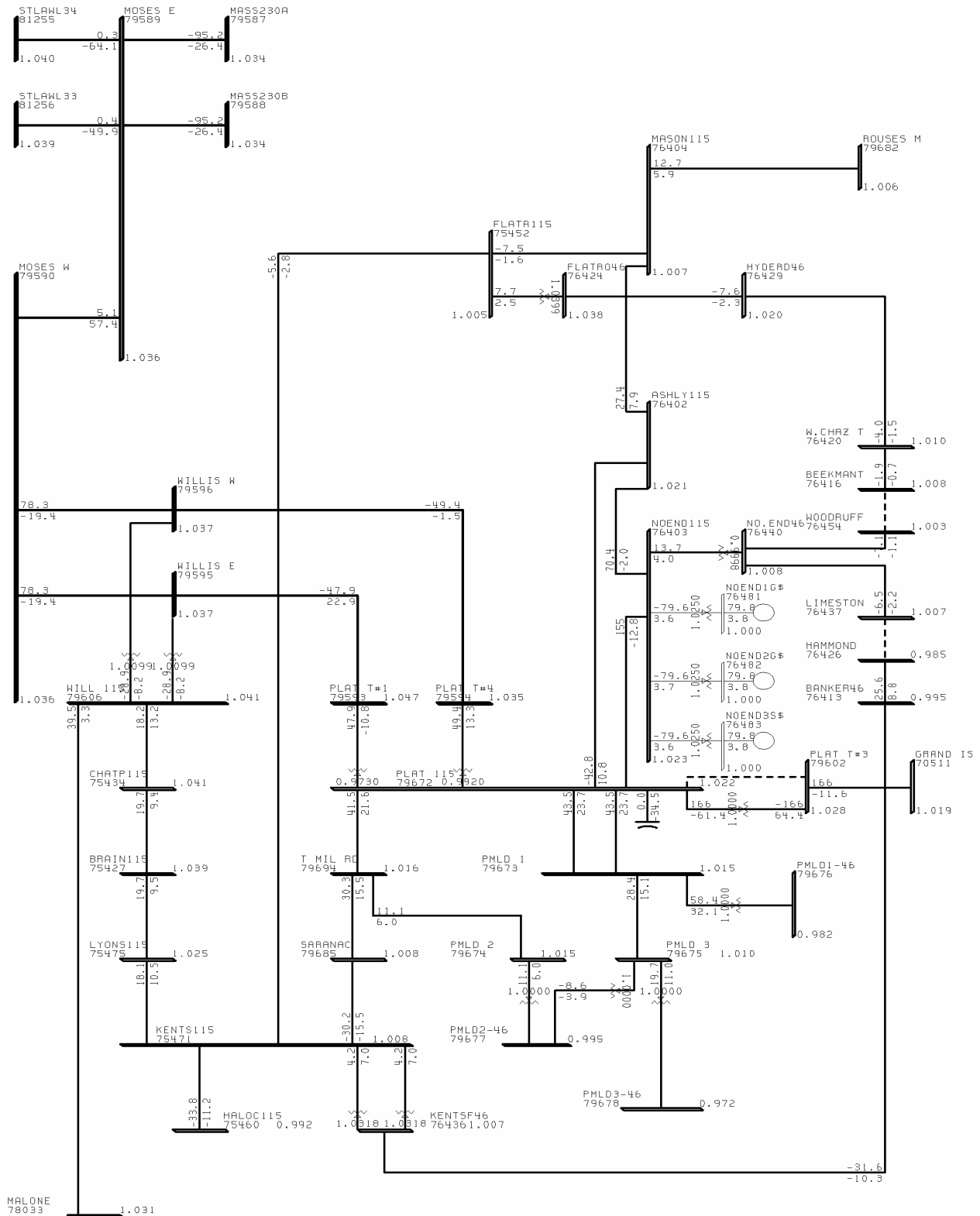
	2003/04 WINTER OPERATING STUDY BASE CASE	100% RATE	BUS - VOLTAGE (PU)
	TRIAL 2, VERSION 28.1.5, 8/14/03	0.950 UV 1.050 OV	BRANCH - MW/MVAR
	6) LIPA WED, SEP 03 2003 16:39	KV: ≤69. ≤138. ≤345	EQUIPMENT - MW/MVAR

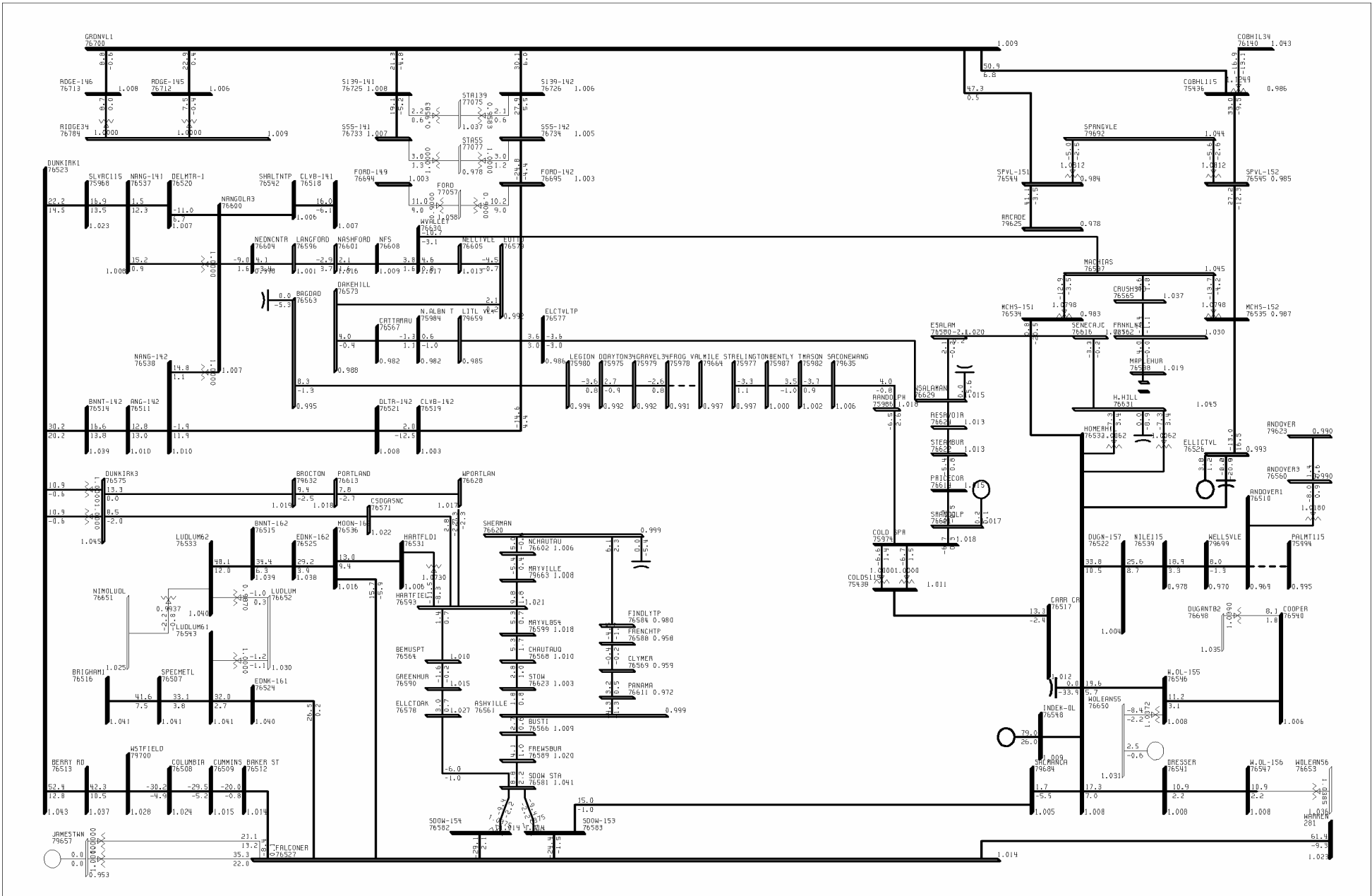


	<p>2003/04 WINTER OPERATING STUDY LIPA EMERGENCY CASE TRIAL 2, VERSION 28.1.5, 9/19/03 7) LIPA EMERGENCY TRANSFER FRI, SEP 19 2003 11:39</p>	<p>100% RATER 0.950 UV 1.050 OV KV: ≤69 ≤138 ≤345</p>	<p>BUS - VOLTAGE (PU) BRANCH - MW/MVAR EQUIPMENT - MW/MVAR</p>
--	--	---	--



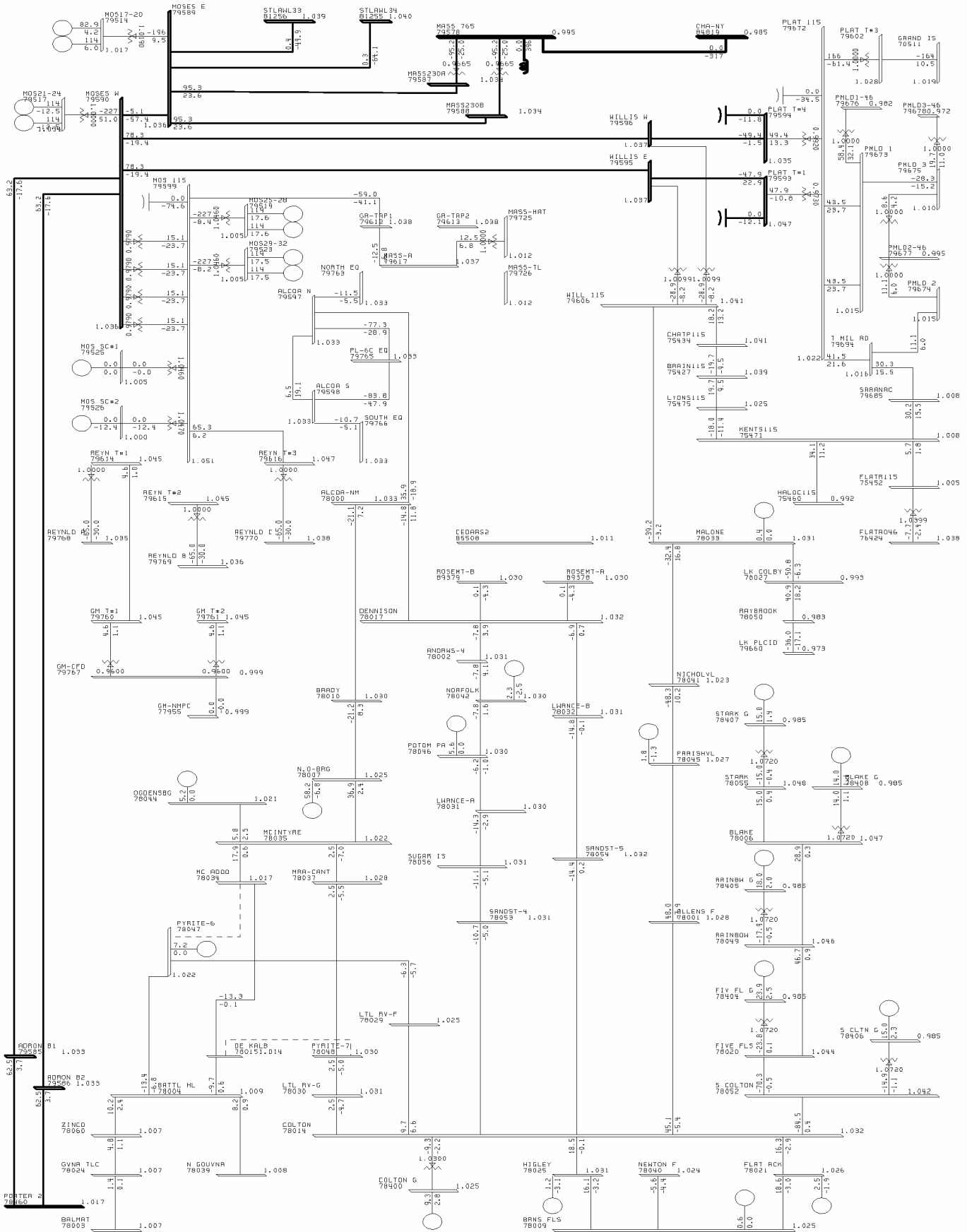
	<p>2003/04 WINTER OPERATING STUDY BASE CASE TRIAL 2, VERSION 28.1.5, 8/14/03 8) NYSEG WED, SEP 03 2003 16:39</p>	<p>KV: 35 .115 .4230</p>	<p>BUS - VOLTAGE (PU) BRANCH - MW/MVAR EQUIPMENT - MW/MVAR</p>
--	--	--------------------------	--





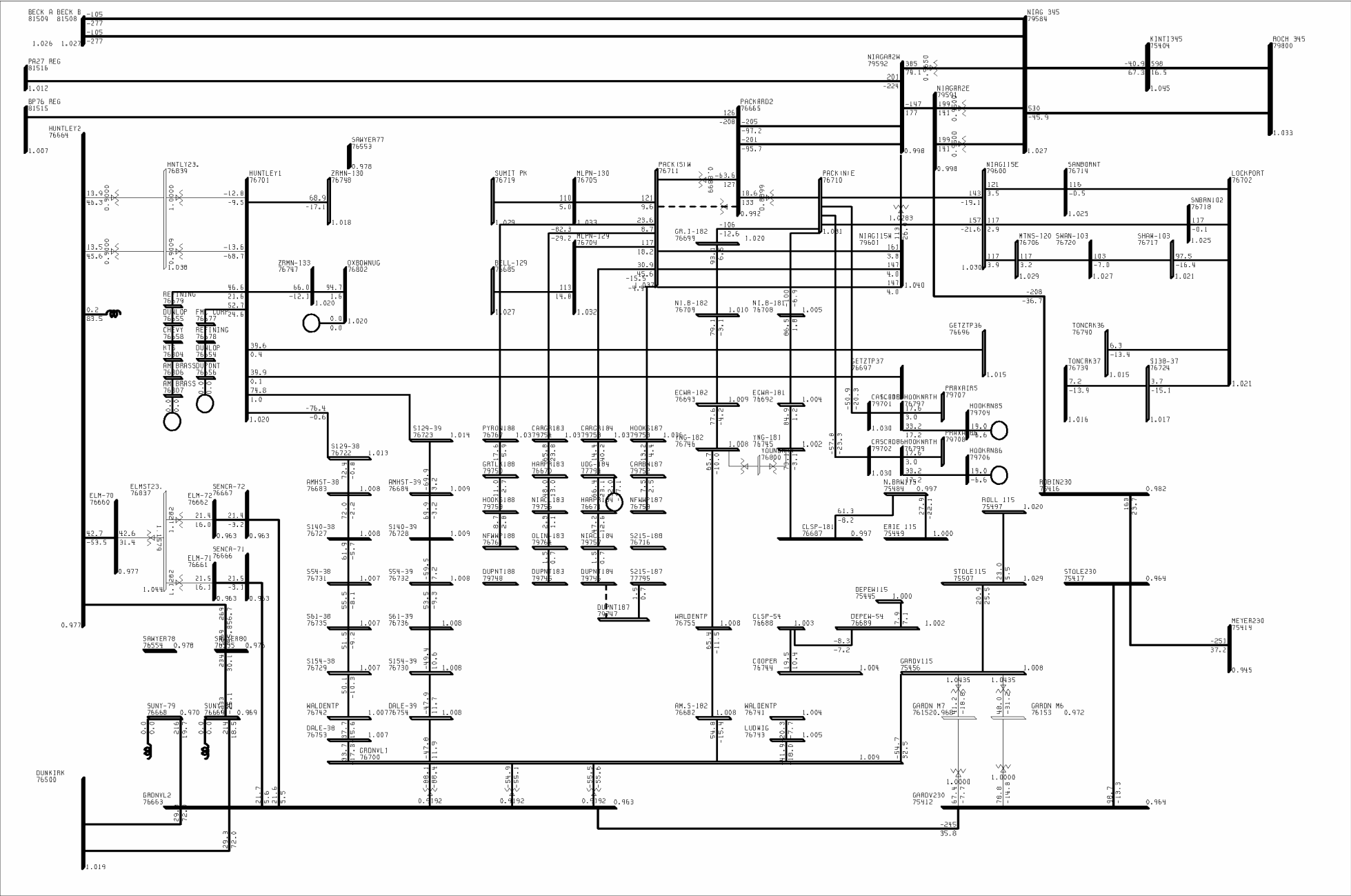
<p>2003/04 WINTER OPERATING STUDY BASE CASE TRIAL 2, VERSION 28.1.5, 8/14/03 POWER TECHNOLOGIES INC. 10) NMPK SOUTHWEST WED, SEP 03 2003 16:40</p>	<p>KV: <math>\leq 23 . <math>\leq 35 . <math>\leq 115</p>	<p>BUS - VOLTAGE (PU) BRANCH - MW/MVAR EQUIPMENT - MW/MVAR</p>
--	---	--

NYISO OPERATING STUDY
WINTER 2003-04



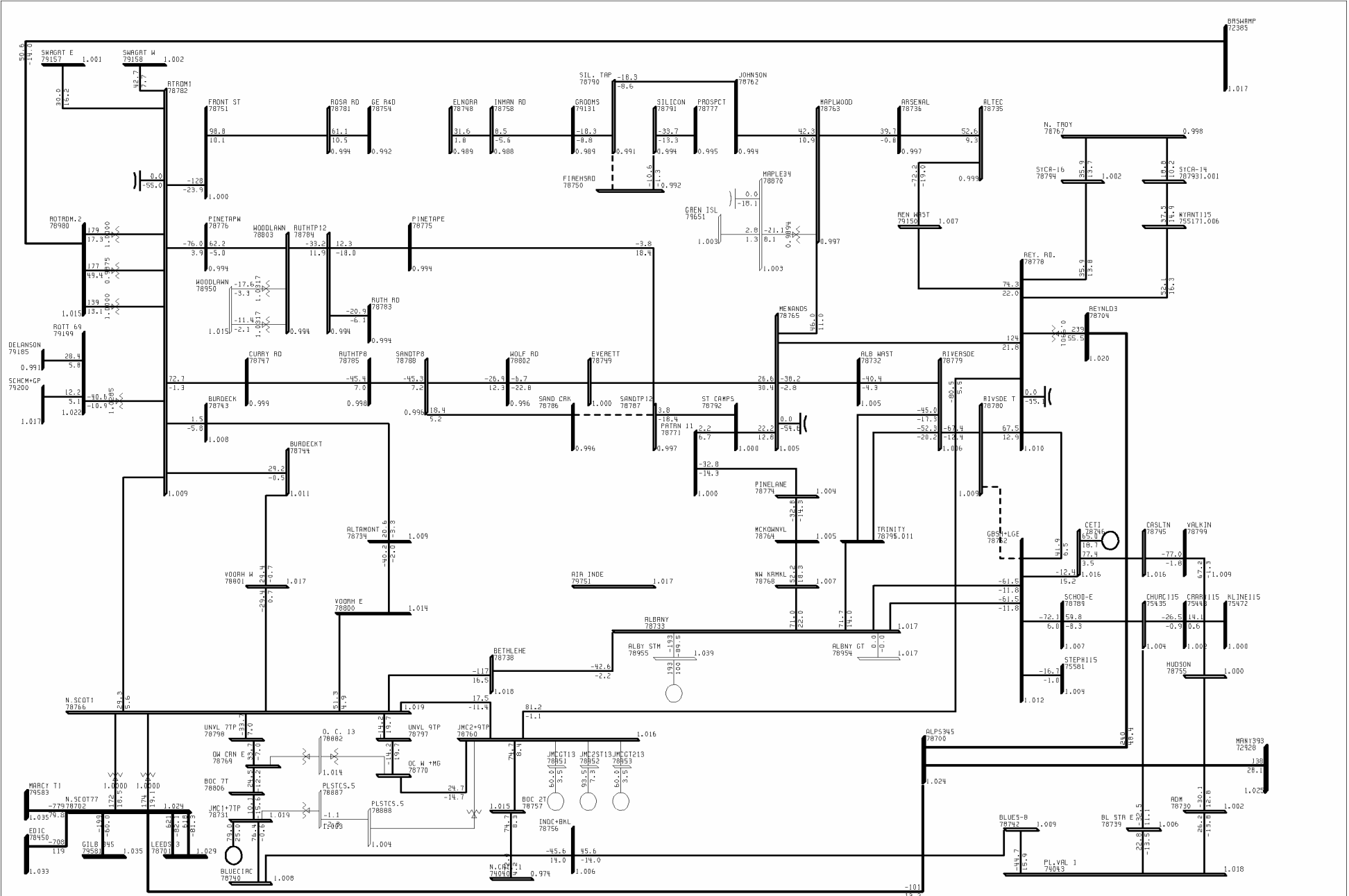
2003/04 WINTER OPERATING STUDY BASE CASE
TRIAL 2, VERSION 28.1.5, 8/14/03
11) NMPC NORTH WED, SEP 03 2003 16:40

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



	<p>2003/04 WINTER OPERATING STUDY BASE CASE TRIAL 2, VERSION 28.1.5, 8/14/03 12) NMPC BUFFALO WED, SEP 03 2003 16:40</p>	<p>KV: <math>\leq 35 .5115 .4230</math></p>	<p>BUS - VOLTAGE (PU) BRANCH - MW/MVAR EQUIPMENT - MW/MVAR</p>
--	--	---	--

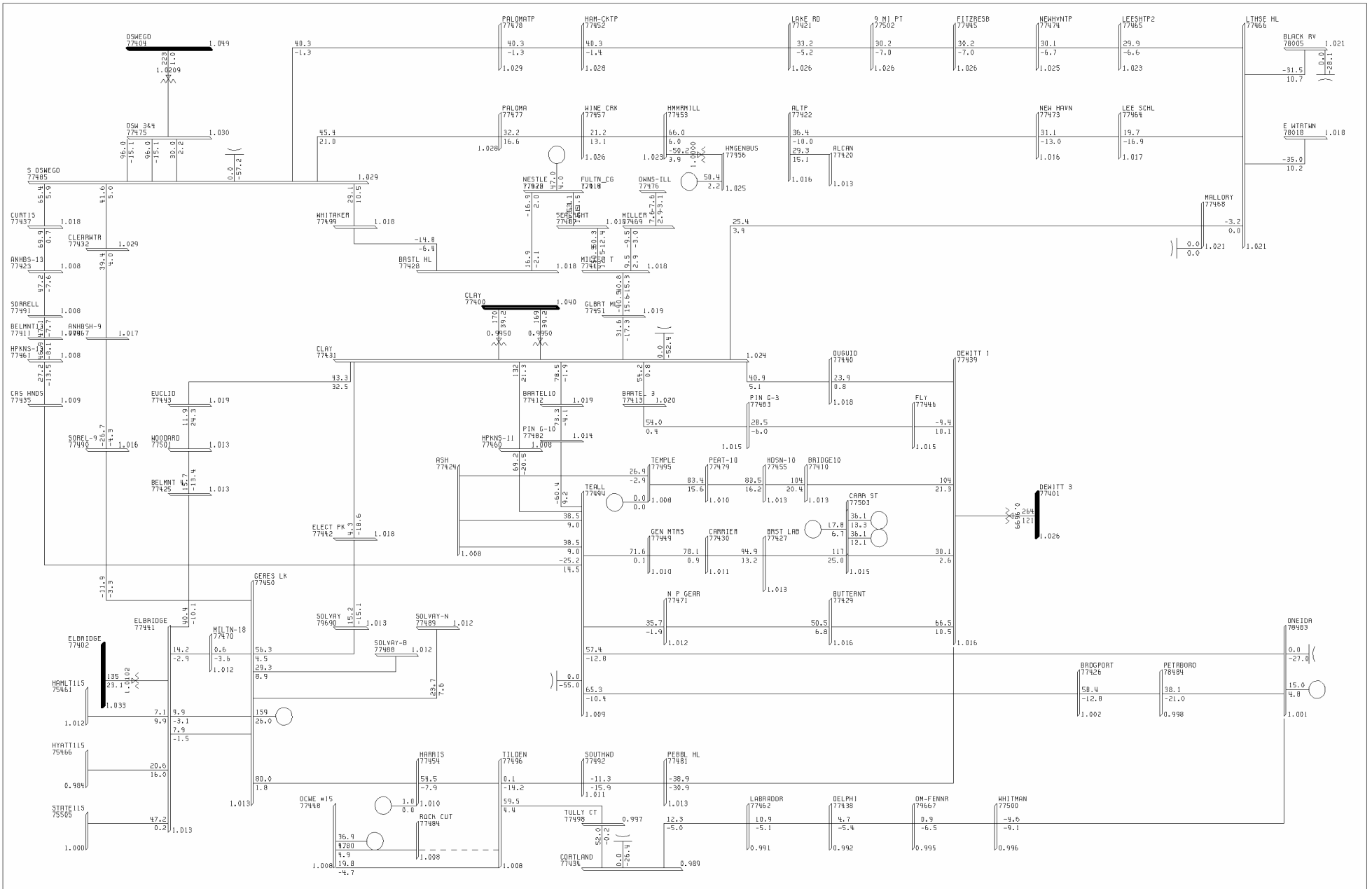
NYISO OPERATING STUDY
WINTER 2003-04



2003/04 WINTER OPERATING STUDY BASE CASE
TRIAL 2, VERSION 28.1.5, 8/14/03
13) NMPC ALBANY THU, SEP 04 2003 11:10

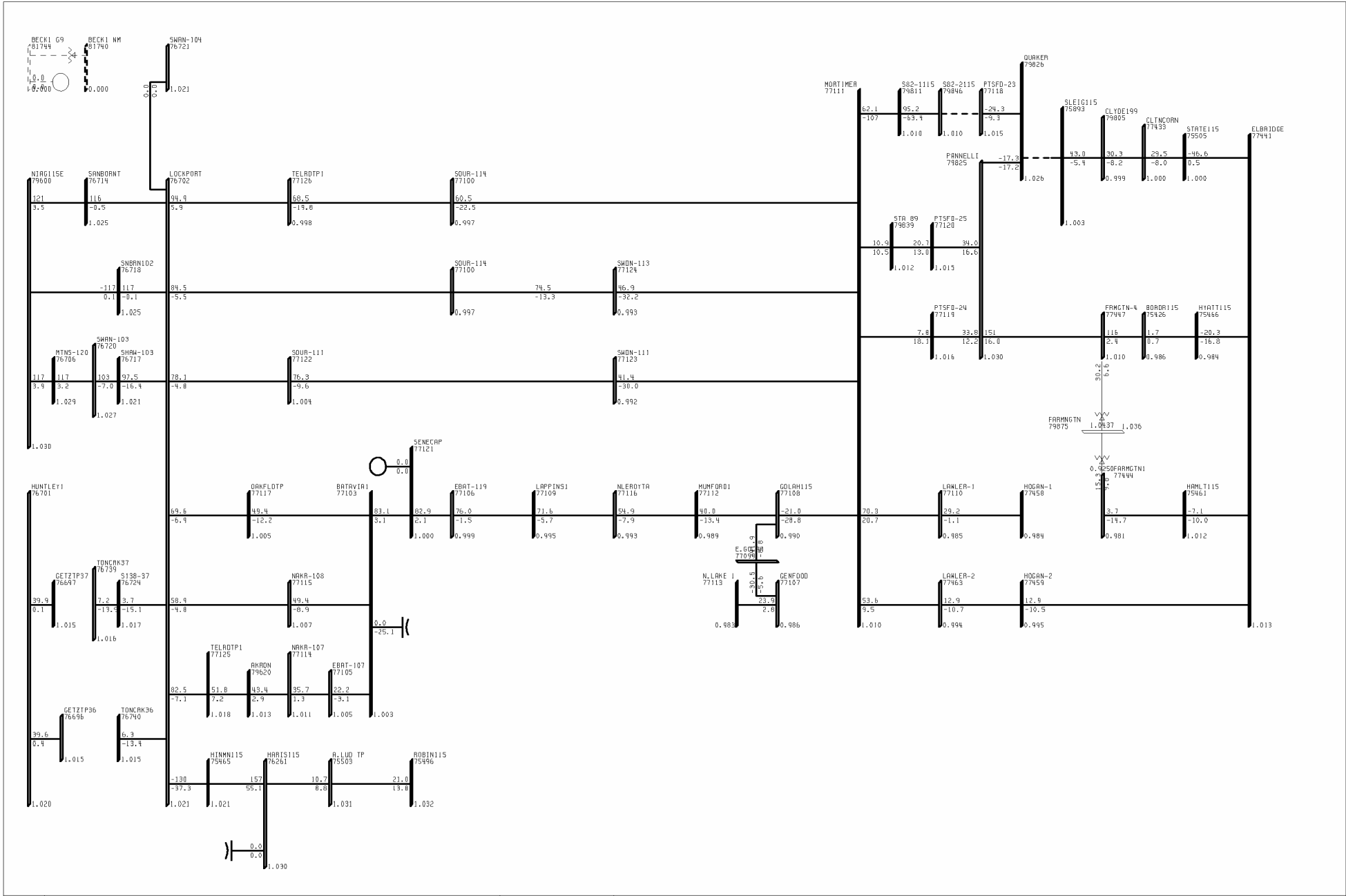
KV: ≤ 35 .s115 .s230

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



	<p>2003/04 WINTER OPERATING STUDY BASE CASE TRIAL 2, VERSION 28.1.5, 8/14/03 14) NMPC SYRACUSE WED, SEP 03 2003 16:41</p>	<p>KV: 138 .4230 .4345</p>	<p>BUS - VOLTAGE (PU) BRANCH - MW/MVAR EQUIPMENT - MW/MVAR</p>
--	---	----------------------------	--

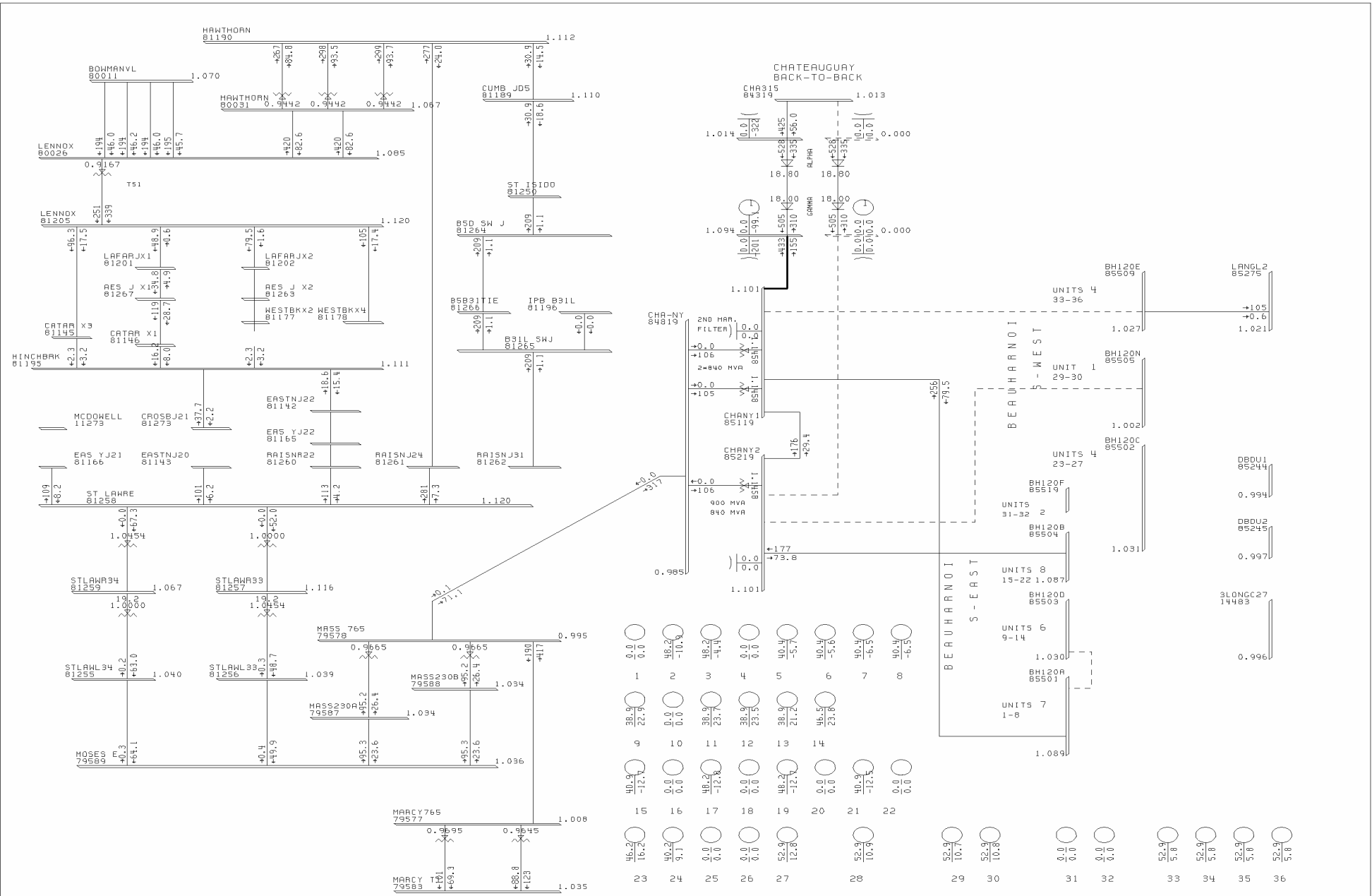
NYISO OPERATING STUDY
WINTER 2003-04



2003/04 WINTER OPERATING STUDY BASE CASE
TRIAL 2, VERSION 28.1.5, 8/14/03
15) NMPC LOCKPORT 115 WED, SEP 03 2003 16:41

KV: 569 .138 .4345

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

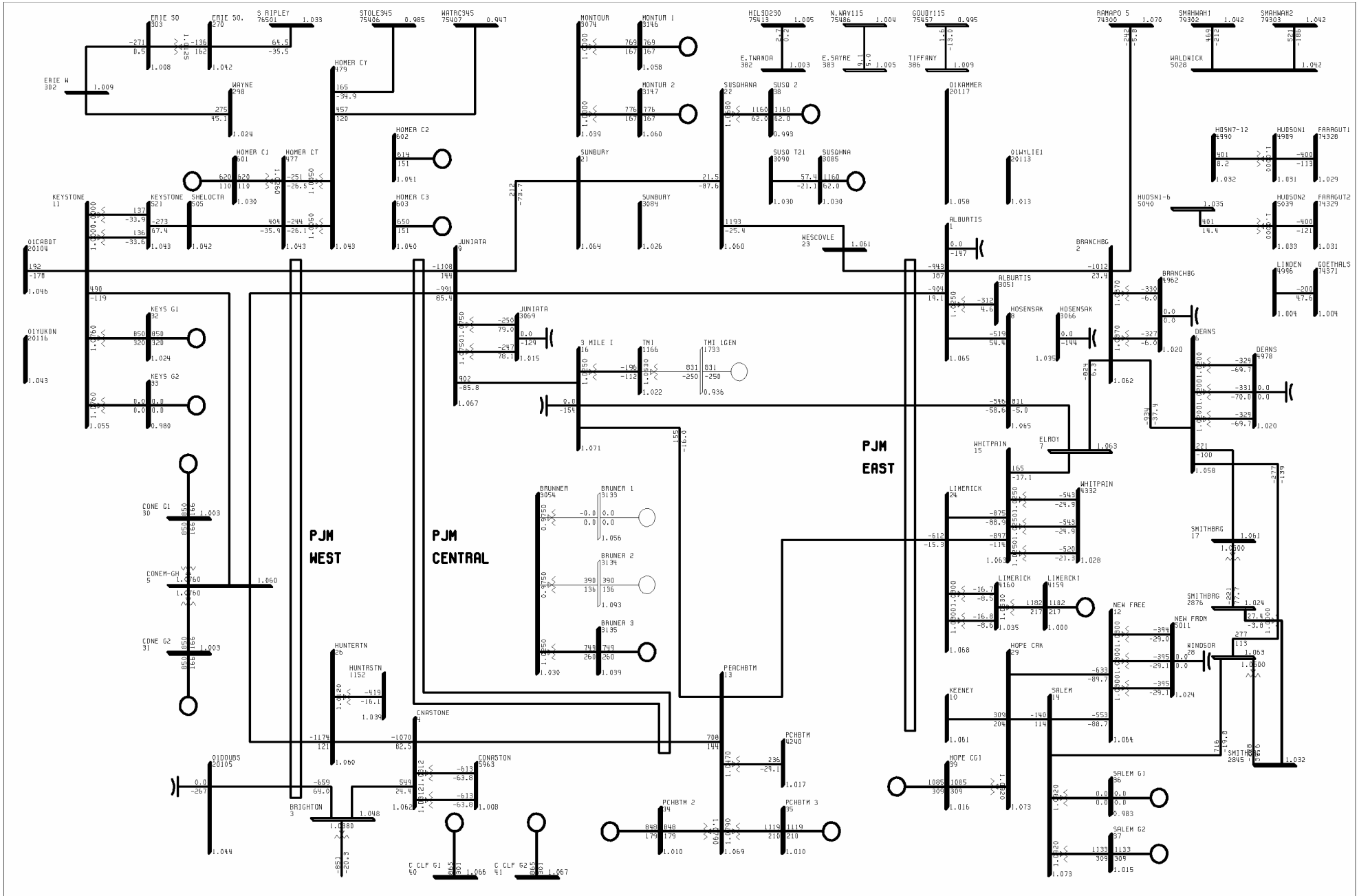


BEAUHARNOIS POWER PLANT REPRESENTATION

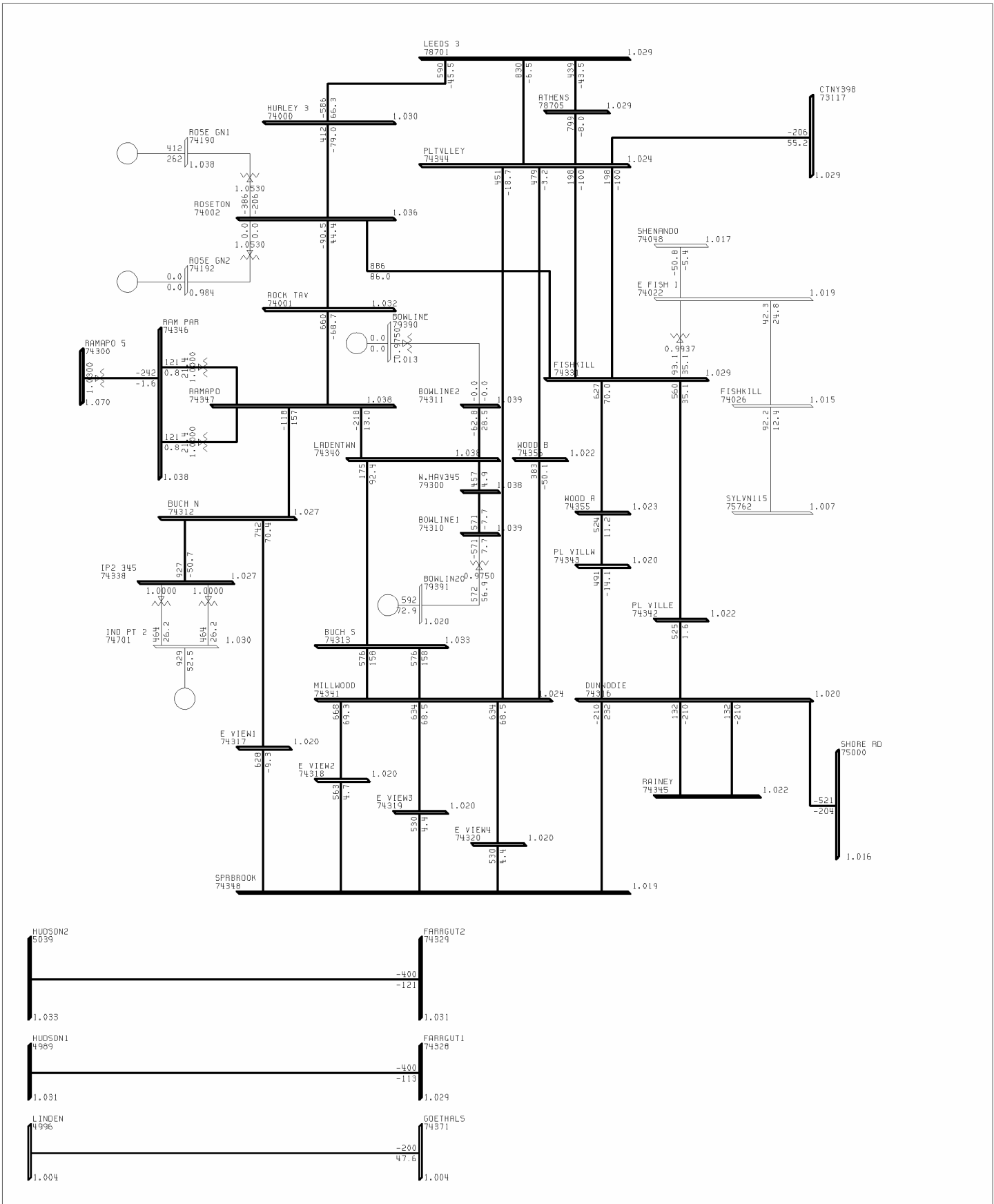
2003/04 WINTER OPERATING STUDY BASE CASE
TRIAL 2, VERSION 28.1.5, 8/14/03
18) BEAU WED, SEP 03 2003 16:41

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

NYISO OPERATING STUDY
WINTER 2003-04



	<p>2003/04 WINTER OPERATING STUDY BASE CASE TRIAL 2, VERSION 28.1.5, 8/14/03 19) PJM WED, SEP 03 2003 16:42</p>	<p>KV: ≤20 .65 .415</p>	<p>BUS - VOLTAGE (PU) BRANCH - MW/MVAR EQUIPMENT - MW/MVAR</p>
--	---	-------------------------	--



2003/04 WINTER OPERATING STUDY BASE CASE
 TRIAL 2, VERSION 28.1.5, 8/14/03
 21) UPNY - CONED WED, SEP 03 2003 16:42
 KV: <115 .<230 .<345

APPENDIX D
RATINGS OF MAJOR TRANSMISSION FACILITIES
IN NEW YORK

NYISO WINTER 2003-04 OPERATING STUDY
WINTER ONLINE RATINGS

LINE NAME		LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
ADRON B1	- MOSES W	MA-1	359	359	478	782	25269
ADRON B2	- MOSES W	MA-2	447	473	517	784	25270
ALBANY	- AIR INDE	8	340	373	414	2817	25496
ALCOA N	- GR-TAP1	MAL-6	279	282	327	792	25582
ALCOA-NM	- ALCOA N	R8105	263	294	348	786	25202
ALCOA-NM	- BRADY	13	156	159	159	787	25230
ALCOA-NM	- BRADY	9	159	159	159	820	25230
ALCOA-NM	- DENNISON	12	202	221	238	788	25227
ALLENS F	- COLTON	3	145	152	159	846	25241
ALPS345	- N.SCOT77	2	1278	1410	1780	993	25217
ALPS345	- REYNLD3	1	585	676	796	994	25587
ANDRWS-4	- DENNISON	5	222	234	278	861	25226
ASTORIAE	- CORONA	34186	177	254	394	133	25282
ASTORIAE	- CORONA	34185	177	254	394	132	25281
ASTORIAE	- CORONA	34184	177	254	394	131	25280
ASTORIAE	- CORONA	34183	177	254	394	130	25279
ASTORIAE	- CORONA	34182	177	254	394	129	25278
ASTORIAE	- CORONA	34181	177	254	394	128	25277
ASTORIAE	- HG 1	34052	184	259	401	134	25324
ASTORIAE	- HG 4	34051	184	259	401	135	25323
ASTORIAW	- HG 2	24054	171	207	207	146	25213
ASTORIAW	- HG 3	24053	171	207	207	147	25212
ASTORIAW	- HG 5	24051	202	283	489	148	25210
ASTORIAW	- HG 6	24052	202	283	489	149	25211
ASTORIAW	- QUENBRDG	28241	177	254	394	151	25315
ASTORIAW	- QUENBRDG	28242	177	254	394	150	25316
ASTORIAW	- QUENBRDG	28243	355	508	645	152	25317
ASTORIAW	- QUENBRDG	28244	355	508	645	153	25318
BARRETT2	- BRRT PH	461	208	285	297	7	25155
BARRETT2	- VLY STRM	292	261	332	422	10	25313
BATAVIA1	- EBAT-107	107	145	152	159	636	25124
BATAVIA1	- NAKR-108	108	158	159	159	647	25125
BATAVIA1	- OAKFLDTP	112	156	162	181	446	25126
BELL-129	- MLPN-129	129	199	199	199	765	69854
BLUE LAK	- LAKE RD.	89/993	137	151	157	483	69353
BLUE LAK	- RINGWOD6	89/993	137	151	157	483	69353
BORDR115	- FRMGTN-4	977/4	187	208	221	507	25057
BORDR115	- HYATT115	979	157	171	179	506	25106
BOWLINE1	- W.HAV345	67	777	837	837	164	25567
BOWLINE2	- LADENTWN	68	777	837	837	166	25249
BRANCHBG	- RAMAPO 5	5018	1158	1416	1924	366	25019
BRDGPORT	- PETRBORO	5	141	144	165	940	25896
BRDGPORT	- TEALL	5	141	144	165	940	25896
BUCH N	- E VIEW1	W93	1822	2010	2555	175	25133
BUCH N	- RAMAPO	Y94	1822	2010	2555	178	25184
BUCH S	- LADENTWN	Y88	1822	2010	2555	180	25185
BUCH S	- MILLWOOD	W98	1828	1976	2163	182	25146
BUCH S	- MILLWOOD	W97	1822	1976	2163	181	25247
BUCH138	- MLWD TA	96952	291	322	409	173	25283
BUCH138	- MLWD TA	96951	291	322	409	172	25284
BURNS 1	- W.HAVERS	530/531	274	302	313	473	68644

NYISO WINTER 2003-04 OPERATING STUDY
WINTER ONLINE RATINGS

LINE NAME		LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID	
BURNS 6	-	TALLMAN	59/591	112	122	126	469	68642
CARLE PL	-	E.G.C.	361	304	334	364	18	25533
CARML115	-	UNION115	991/992	261	287	303	190	68885
CATON115	-	HICK 115	958/960	119	120	120	574	69341
CHURC115	-	BL STR E	987/13	120	120	120	1002	68475
CLAY	-	9MI PT1	8	1278	1410	1792	839	25167
CLAY	-	CLAY	BK#1	354	410	448	826	25387
CLAY	-	CLAY	BK#2	354	410	448	827	25421
CLAY	-	DEWITT 3	13	1348	1434	1434	835	25168
CLAY	-	DUGUID	5	245	260	282	829	25519
CLAY	-	HPKNS-11	11	239	239	239	831	25516
CLAY	-	HPKNS-11	10	141	144	165	834	25520
CLAY	-	PANNELL3	PC-2	1195	1314	1434	768	25050
CLAY	-	PANNELL3	PC-1	1195	1314	1434	769	25058
CLAY	-	VOLNEY	6	1348	1434	1434	838	25198
CLINTON	-	MARSH115	12-Nov	152	159	159	1012	68794
CLTNCORN	-	CLYDE199	971/3	133	149	159	510	25063
CLYDE199	-	CLYDE 34	3	152	166	175	509	25221
COBHL115	-	COBHIL34	906	45	47	53	513	25426
CODNT115	-	ETNA 115	998	266	293	299	515	25734
CODNT115	-	MONTR115	982	133	149	162	516	25728
COFFEEN	-	E WTRTWN	5	119	119	119	840	25504
COLDNHAM	-	ROCK TV1	J	255	282	350	417	69037
COOPC345	-	COOPC115	#2	248	298	300	519	25433
COOPC345	-	COOPC115	#3	270	300	300	520	25434
COOPC345	-	FRASR345	FCC-33	1482	1631	1793	521	25236
COOPC345	-	MARCY T1	UCC2-41	1345	1345	1345	2803	25113
CORONA1R	-	JAMAICA	18001	184	259	401	185	25285
CORONA2R	-	JAMAICA	18002	184	259	401	186	25286
CORTLAND	-	LABRADOR	3	152	159	159	855	25894
CORTLAND	-	TULLER H	947	133	149	162	631	25059
CROTN115	-	UNION115	991/992	261	287	303	190	68885
DANSKAMA	-	DR CBLTP	DR	237	282	315	411	25831
DELPHI	-	LABRADOR	3	152	159	159	855	25894
DELPHI	-	OM-FENNR	3	152	159	159	855	25894
DENNISON	-	LWRNCE-B	4	222	234	278	796	25225
DENNISON	-	LWRNCE-B	4	222	234	278	935	25225
DEWITT 3	-	DEWITT 1	2	619	757	796	862	25418
DEWITT 3	-	LAFAYTTE	22	1434	1434	1434	866	25174
DUN NO	-	DUN NO T	99941	381	451	472	196	25245
DUN NO	-	DUN SO	99997	280	359	383	194	25532
DUN NO1R	-	S CREEK	99031	149	259	290	197	25193
DUN NO2R	-	S CREEK	99032	149	259	290	198	25239
DUN SO	-	DUN SO T	99942	381	451	472	204	25246
DUN SO1R	-	E179 ST	99153LM	252	348	439	203	25287
DUNKIRK	-	DUNKIRK1	41	167	204	250	657	25386
DUNKIRK	-	DUNKIRK1	31	164	199	250	656	25430
DUNKIRK	-	GRDNVL2	73	637	637	637	663	25166
DUNKIRK	-	GRDNVL2	74	637	637	637	664	25197
DUNWODIE	-	DUN NO	W74	414	540	664	195	25209
DUNWODIE	-	DUN SO	W73	414	540	664	202	25208

NYISO WINTER 2003-04 OPERATING STUDY
WINTER ONLINE RATINGS

LINE	NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
DUNWODIE	- PL VILLE	W89	1976	2282	2538	206	25182
DUNWODIE	- PL VILLW	W90	1976	2282	2538	205	25250
DUNWODIE	- RAINEY	72	769	871	1113	208	25191
DUNWODIE	- RAINEY	71	769	871	1113	207	25151
DUNWODIE	- SHORE RD	Y50	613	891	1419	115	25091
DUNWODIE	- SPRBROOK	W75	2838	3185	3662	209	25071
E FISH I	- FISHKILL	F33	505	530	530	2868	25724
E VIEW1	- EASTVIEW	87874	438	493	493	211	25471
E VIEW1	- SPRBROOK	W79	1976	2384	2895	224	25153
E VIEW2	- EASTVIEW	87873	438	493	493	210	25472
E VIEW2	- MILLWOOD	W82	2430	2821	3349	225	25147
E VIEW2	- SPRBROOK	W64	2430	2821	3349	223	25143
E VIEW3	- EASTVIEW	87872	438	493	493	212	25470
E VIEW3	- MILLWOOD	W99	2430	2821	3349	222	25255
E VIEW3	- SPRBROOK	W65	1976	2384	2895	226	25144
E VIEW4	- EASTVIEW	87871	438	493	493	2835	25373
E VIEW4	- MILLWOOD	W85	2430	2821	3349	325	25258
E VIEW4	- SPRBROOK	W78	2430	2821	3349	2834	25346
E.G.C.	- NEWBRGE	462	244	325	434	24	25303
E.G.C.	- NEWBRGE	465	262	344	442	26	25535
E.G.C.	- ROSLYN	362	314	345	376	28	25534
E.G.C.-1	- E.G.C.	BK#2	444	641	855	2860	25552
E.NOR115	- JENN 115	946	117	136	153	530	25729
E.NOR115	- WILET115	945	133	149	162	531	25732
E.SAYRE	- N.WAV115	956	102	139	139	608	25013
E.SPR115	- INGHAM-E	941	114	131	152	536	25061
E.TWANDA	- HILSD230	70	512	564	598	582	25014
E.WALD 1	- ROCK TV1	D	255	282	350	416	69038
E13 ST	- T11MPT	37375	284	297	315	228	25468
E13 ST	- T13MPT	37377	274	297	315	233	25464
E13 ST	- T14MPT	37373	295	326	369	230	25465
E15ST 45	- E13 ST	37372	323	369	410	229	25466
E15ST 45	- FARRAGUT	45	783	920	1285	234	25190
E15ST 45	- T14MPT	37373	295	326	369	230	25465
E15ST 45	- W 49 ST	M55	828	920	1312	237	25222
E15ST 46	- E13 ST	37376	284	297	315	232	25463
E15ST 46	- FARRAGUT	46	783	920	1285	236	25251
E15ST 46	- T13MPT	37377	274	297	315	233	25464
E15ST 46	- W 49 ST	M54	828	920	1312	235	25228
E15ST 47	- ASTOR345	Q35L	598	675	1595	139	25134
E15ST 47	- E RIVER	44371	301	346	385	217	25459
E15ST 47	- E13 ST	37378	318	372	495	231	25469
E15ST 47	- FARRAGUT	B47	492	726	1151	238	25177
E15ST 48	- ASTOR345	Q35M	598	675	1595	140	25142
E15ST 48	- E13 ST	37374	294	326	367	227	25467
E15ST 48	- FARRAGUT	48	492	726	1151	239	25252
E15ST 48	- T11MPT	37375	284	297	315	228	25468
E179 ST	- HG 1	15054	184	259	401	240	25290
E179 ST	- HG 4	15053	184	259	401	241	25289
E179 ST	- HG 6	15055	251	347	516	242	25288
E179 ST	- PK-CITY1	38X01	127	169	204	243	25327

NYISO WINTER 2003-04 OPERATING STUDY
WINTER ONLINE RATINGS

LINE NAME		LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID	
E179 ST	-	PK-CITY2	38X02	127	169	204	244	25328
E179 ST	-	PK-CITY3	38X03	127	169	204	245	25330
E179 ST	-	PK-CITY4	38X04	127	169	204	246	25329
E179 ST	-	S CREEK	15032	184	259	401	248	25156
E179 ST	-	S CREEK	15031	184	259	401	247	25157
EDIC	-	JA FITZP	FE-1	1434	1434	1912	867	25077
EDIC	-	MARCY T1	UE1-7	1792	1792	1792	868	25229
EDIC	-	N.SCOT77	14	1624	1783	1792	873	25170
EDIC	-	PORTER 1	BK#3/10	524	602	760	871	25424
EDIC	-	PORTER 1	BK#4/20	602	721	796	870	25454
EDIC	-	PORTER 2	BK#2/17	551	626	637	872	25422
ELBRIDGE	-	ELBRIDGE	BK#1	542	621	796	874	25448
ELBRIDGE	-	LAFAYTTE	17	940	1562	1912	880	25149
ELBRIDGE	-	OSWEGO	17	1278	1410	1792	881	25234
ELWOOD 1	-	NRTHPRT2	681	398	536	677	33	25544
ELWOOD 2	-	NRTHPRT2	678	398	536	677	2863	25543
ERIE E	-	S RIPLEY	69	553	637	637	665	25016
ETNA 115	-	WILET115	945	133	149	162	540	25731
FARRAGUT	-	GOWANUSN	41	688	855	1215	260	25141
FARRAGUT	-	GOWANUSS	42	688	855	1215	261	25140
FARRAGUT	-	HAE TR1	B43	130	174	216	262	25293
FARRAGUT	-	RAINEY	63	758	866	1113	267	25152
FARRAGUT	-	RAINEY	62	796	898	1135	266	25253
FARRAGUT	-	RAINEY	61	758	866	1113	265	25254
FISHKILL	-	PL VILLE	F38/Y86	2401	3031	3406	270	25367
FISHKILL	-	PLTVLLEY	F36	1976	2384	2895	268	25256
FISHKILL	-	PLTVLLEY	F37	1976	2384	2895	269	25257
FISHKILL	-	SYLVN115	A/990	256	282	350	376	25066
FISHKILL	-	WOOD A	F39	2401	3031	3406	271	25368
FOXHLLS1	-	GRENWOOD	29231	169	252	394	276	25321
FOXHLLS2	-	GRENWOOD	29232	169	252	394	278	25322
FR KILLS	-	FRKILLR2	TA1	327	435	540	283	25457
FR KILLS	-	FRKILLSR	TB1	329	410	478	284	25458
FR KILLS	-	GOTHLS N	22	1283	1618	1817	285	25137
FR KILLS	-	GOTHLS S	21	971	1073	1362	286	25138
FRASR345	-	EDIC	EF24-40	1380	1380	1380	2802	25112
FRASR345	-	FRASR115	BK#2	356	420	420	2851	25391
FRASR345	-	GILB 345	GF5-35	1524	1524	1524	544	25060
FRASR345	-	OAKDL345	32	1380	1380	1380	543	25235
FR-KILLS	-	FRKILLR2	21192	327	435	540	2804	25639
FR-KILLS	-	FRKILLSR	21192	329	410	478	280	25640
FR-KILLS	-	WILOWBK1	29211-2	195	286	463	282	25319
FR-KILLS	-	WILOWBK2	29212-1	195	286	463	281	25320
FRMGTN-4	-	PANNELLI	4	265	293	317	887	25080
GARDV115	-	LANGN115	903/904	179	197	213	524	68914
GARDV115	-	STOLE115	925	238	239	239	547	25116
GARDV230	-	GARDN M6	#6	370	420	420	545	25405
GARDV230	-	GARDN M7	#7	246	288	300	546	25435
GARDV230	-	GRDNVL2	T8-12	773	773	773	550	25089

NYISO WINTER 2003-04 OPERATING STUDY
WINTER ONLINE RATINGS

LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
GARDV230 - STOLE230	66	478	478	478	549	25180
GERES LK - SOREL-9	9	176	181	199	890	25510
GINNA115 - PANNELLI	912	265	295	335	1074	25260
GLNWD GT - ROSLYN	364	371	392	434	42	25556
GLNWD NO - SHORE RD	366	525	577	641	44	25154
GLNWD SO - CARLE PL	363	370	392	434	19	25554
GLNWD SO - SHORE RD	365	577	635	705	46	25205
GOETH T - GOETHALS	BKA2253	630	789	886	287	25642
GOTHS N - GOWANUSN	25	527	726	1076	290	25139
GOTHS R - GOETH T	BKA2253	630	789	886	287	25642
GOTHS S - GOWANUSS	26	527	726	1076	291	25571
GOUDY115 - S.OWE115	961	143	157	167	555	25725
GOWANUSN - GOWNUS1T	T2	272	308	376	292	25476
GOWANUSS - GOWNUS2T	T14	272	308	376	293	25475
GOWNUS1R - GREWOOD	42232	262	325	452	301	25214
GOWNUS2R - GREWOOD	42231	262	325	452	297	25215
GRDNVL2 - GRDNVL1	2	298	334	396	677	25385
GRDNVL2 - GRDNVL1	4	169	210	250	679	25417
GRDNVL2 - GRDNVL1	3	168	210	250	678	25416
GRDNVL2 - SUNY-79	79	692	760	848	690	25165
GRDNVL2 - SUNY-80	80	692	760	848	691	25196
GREWOOD - VERNON-E	31231-2	177	254	394	305	25298
GREWOOD - VERNON-E	31232-2	177	254	394	304	25299
HAE TR1 - HUDAVE E	32077	130	174	216	264	25291
HAE TR3 - HUDAVE E	32078	130	174	216	263	25292
HAMLT115 - ELBRIDGE	983	152	166	175	878	69053
HAMLT115 - FARMGTN1	983	152	166	175	884	69138
HAMLT115 - HAMLTN34	1	34	42	56	563	25394
HAR.CORN - W.NYACK	751	81	88	92	478	69314
HARRIMAN - SLOSBURG	31/311	137	151	157	479	69318
HILLBURN - RINGWOD6	89/993	137	151	157	483	69353
HILLBURN - SLOSBURG	31/311	137	151	157	479	69318
HILLBURN - TALLMAN	59/591	112	122	126	469	68642
HILSD230 - HILSD M3	BK#3	271	332	336	576	25397
HILSD230 - WATRC230	69	615	657	657	581	25181
HINMN115 - LOCKPORT	100	268	293	317	585	25087
HOLBROOK - NYPAHOLT	888	858	942	1047	2927	25542
HOLBROOK - PT JEFF1	886	301	331	419	61	25540
HOLBROOK - WADNGRV1	884	400	440	487	70	25341
HOMER CY - STOLE345	37	703	835	840	630	25036
HOMER CY - WATRC345	30	927	927	927	635	25018
HONK FLS - KERHNKMK	MK	40	47	49	425	69391
HUDAVE E - JAMAICA	702	175	228	370	317	25295
HUDAVE E - JAMAICA	701	175	228	370	316	25294
HUNT - ST.FORES	89/993	137	151	157	483	69353
HUNT - WISNER	89/993	137	151	157	483	69353
HUNTLEY1 - S129-39	38	168	181	199	703	69428
HUNTLEY1 - ZRMN-130	129	199	199	199	705	69426
HURLEY 3 - HURLEY 1	BK 1	486	560	560	431	25419
HURLEY 3 - LEEDS 3	301	1712	1885	1912	435	25055
HURLEY 3 - ROSETON	303	1712	1885	1912	434	25218

NYISO WINTER 2003-04 OPERATING STUDY
WINTER ONLINE RATINGS

LINE NAME		LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
HYATT115	- ELBRIDGE	15	157	171	182	587	25109
INGMS-CD	- INGHAM-E	2	197	234	239	898	25242
JAMAICA	- L SUCSPH	903	268	361	428	78	25090
JAMAICA	- V STRM P	901L+M	306	391	441	118	25048
KINTI345	- NIAG 345	NS1-38	1591	1745	1793	623	25074
KINTI345	- ROCH 345	SR1-39	1591	1745	1793	624	25073
KNAPPS 6	- LAGRANGE	G	49	52	58	438	69534
LADENTWN	- RAMAPO	W72	1822	2010	2555	320	25233
LADENTWN	- W.HAV345	67	1976	2384	2895	321	25248
LAKE RD.	- ST.FORES	89/993	137	151	157	483	69353
LAUREL L	- GOUDY115	952	128	149	162	556	25012
LCST GRV	- NEWBRGE	558	446	572	657	2898	25158
LEEDS 3	- ATHENS	95	1624	1783	1912	2929	25789
LEEDS 3	- GILB 345	GL-3	1762	1793	1912	1017	25219
LEEDS 3	- N.SCOT77	93	1534	1692	1912	1029	25171
LEEDS 3	- N.SCOT99	94	1534	1692	1912	1028	25203
LOCKPORT	- NAKR-108	108	158	162	187	712	25266
LOCKPORT	- OAKFLDTP	112	166	175	187	646	25300
LOCKPORT	- SHEL-113	113	174	191	199	718	25263
LOCKPORT	- SOUR-111	111	166	175	187	717	25262
LOCKPORT	- TELRDTP1	107	199	199	199	637	25265
LOCKPORT	- TELRDTP1	114	174	191	199	721	25264
LONGTAP	- NIAG115E	GV-180	194	199	233	681	25104
LTHSE HL	- BLACK RV	6	128	135	152	805	25506
LTHSE HL	- E WTRTWN	5	119	119	119	840	25504
MACDN115	- QUAKER	930	68	85	112	594	25093
MALONE	- NICHOLVL	3	145	152	159	905	25585
MALONE	- WILL 115	WM-1	168	191	199	906	25586
MARCY765	- MARCY T1	MAR-AT2	1793	1793	2390	908	25456
MARCY765	- MARCY T1	MAR-AT1	1654	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	1076	1254	1404	912	25665
MASS 765	- MASS230B	MAS-AT2	1076	1254	1404	914	25666
MASS230A	- MOSES E	MMS1	1076	1195	1404	913	25274
MASS230B	- MOSES E	MMS2	1076	1195	1404	915	25275
MEYER230	- MEYER M4	BK#4	271	332	336	595	25398
MEYER230	- STOLE230	67	512	564	606	598	25064
MILAN	- N.CAT. 1	T7	145	160	178	441	69719
MILAN	- PL.VAL 1	R10	168	199	233	338	69896
MILLWOOD	- MLWD TA	96922	248	333	359	323	25530
MILLWOOD	- MLWD TA	96921	234	305	321	322	25531
MILLWOOD	- WOOD B	W80	1976	2384	2895	326	25148
MLPN-129	- PACK(S)W	133	199	199	199	465	69854
MLPN-130	- PACK(S)W	130	211	217	239	764	69855
MLPN-130	- SUMIT PK	130	211	217	239	764	69855
MORAI115	- BENET115	966	149	172	179	503	68439
MORTIMER	- PTSFD-24	NMP #24	157	171	182	728	25096
MORTIMER	- S80 3TR	904	288	304	334	732	25081
MORTIMER	- STA 89	NMP#25	139	145	162	729	25095
MORTIMER	- SWDN-111	111	129	149	153	723	25347

NYISO WINTER 2003-04 OPERATING STUDY
WINTER ONLINE RATINGS

LINE NAME		LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
MOS 115	- GR-TAP1	MAL-6	279	282	327	792	25582
MOSES W	- MOS 115	SL-AT1	526	589	722	922	25411
MOSES W	- MOS 115	SL-AT2	526	589	722	923	25451
MOSES W	- MOS 115	SL-AT3	220	276	287	920	25452
MOSES W	- MOS 115	SL-AT4	598	598	797	921	25453
MOSES W	- WILLIS E	MW-2	447	478	577	927	25188
MOSES W	- WILLIS W	MW-1	447	478	577	926	25271
MOUNTAIN	- NIAG115E	MT-121	224	239	282	2902	25070
MOUNTAIN	- NIAG115E	MT-122	224	239	282	2903	25072
MTNS-120	- NIAG115E	MT-120	224	239	239	733	25135
N.SCOT1	- AIR INDE	8	340	373	414	2817	25496
N.SCOT1	- RTRDM1	13	255	282	318	1041	25494
N.SCOT77	- N.SCOT1	BK#1	529	560	619	1039	25445
N.SCOT99	- GILB 345	GNS-1	1458	1601	1780	1018	25052
N.SCOT99	- MARCY T1	UNS-18	1792	1792	1792	910	25276
N.SCOT99	- N.SCOT1	BK#2	533	547	597	2816	25460
N.WAV115	- CHEMU115	962	143	157	167	577	25726
N.WAV115	- LOUNS115	962	143	157	167	607	25727
NI.B-181	- PACK(N)E	181/922	146	160	178	737	69816
NIAG 345	- BECK A	PA302	1180	1469	1860	759	25041
NIAG 345	- BECK B	PA301	1180	1469	1860	758	25040
NIAG 345	- NIAGAR2E	N-AT5	441	552	575	745	25408
NIAG 345	- NIAGAR2E	N-AT3	441	552	575	744	25450
NIAG 345	- NIAGAR2W	N-AT4	881	1027	1150	752	25449
NIAG 345	- ROCH 345	NR2	1591	1745	1904	757	25084
NIAGAR2W	- NIAG115E	N-AT1	220	276	288	739	25409
NIAGAR2W	- NIAG115W	N-AT2	286	359	470	747	25410
NIAGAR2W	- PA27 REG	PA27	480	540	685	756	25025
NRTHPRT1	- NRTHPRT2	BUS/PS2	463	570	570	91	25599
NRTHPRT1	- PILGRIM	679	459	609	677	93	25309
OAKDL230	- OAKDL115	BK#1	318	435	440	609	25400
OAKDL345	- LAFAYTTE	Apr-36	1380	1380	1380	614	25049
OAKDL345	- OAK2M115	BK#3	508	600	600	571	25399
OAKDL345	- OAK3M115	BK#2	508	600	600	610	25401
OAKDL345	- WATRC345	31	1076	1076	1076	613	25178
OAKWOOD	- SYOSSET	675	301	418	650	96	25547
OC W +MG	- UNVL 9TP	2	141	144	165	450	25067
ONEIDA	- PETRBORO	5	141	144	165	940	25896
OSW 3&4	- S OSWEGO	5	209	239	239	952	25508
OSW 3&4	- S OSWEGO	8	478	478	478	953	25509
OSWEGO	- OSW 3&4	BK 7	592	657	774	966	25372
OSWEGO	- VOLNEY	11	1278	1410	1792	948	25199
OSWEGO	- VOLNEY	12	1278	1410	1792	949	25201
PACK(N)E	- NIAG115E	PK-191	319	357	413	742	25075
PACK(N)E	- NIAG115E	PK-192	319	357	398	741	25099
PACK(S)W	- NIAG115W	PK-194	319	357	413	750	25100
PACK(S)W	- NIAG115W	PK-193	319	357	413	749	25101
PACK(S)W	- NIAG115W	PK-195	285	300	371	751	25102
PACKARD2	- BP76 REG	BP76	559	586	700	763	25024
PACKARD2	- NIAGAR2W	PK-62	717	717	942	755	25186
PACKARD2	- NIAGAR2W	PK-61	717	717	942	754	25220

NYISO WINTER 2003-04 OPERATING STUDY
WINTER ONLINE RATINGS

LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
PACKARD2 - PACK(N)E	3	168	210	250	760	25414
PACKARD2 - PACK(S)W	2	127	157	200	761	25383
PACKARD2 - PACK(S)W	4	168	210	250	762	25415
PALMT115 - ANDOVER1	932	95	100	111	615	25094
PALOMA - S OSWEGO	6	139	144	161	903	25513
PALOMA - S OSWEGO	6	141	144	165	954	25513
PANNELL3 - PANNELLI	122 2TR	280	320	330	771	25396
PANNELL3 - PANNELLI	122 1TR	280	320	330	770	25431
PANNELLI - QUAKER	914	265	295	335	1081	25261
PANNELLI - QUAKER	883/889	496	547	696	67	25682
PANNELLI - QUAKER	925	352	374	416	136	25682
PARK TR1 - PARK1REG	R11	258	339	409	330	25649
PARK TR2 - PARK2REG	R12	258	339	409	333	25650
PAWLN115 - SYLVN115	990/994	179	179	179	188	68887
PL VILLE - PLTVILLE	1	64	70	70	345	25477
PL VILLW - PLTVILLE	2	64	70	70	344	25478
PL VILLW - WOOD A	Y87	2401	3031	3406	352	25132
PL.VAL 1 - PLTVLLEY	BK S1	478	478	478	334	25382
PLAT 115 - T MIL RD	PS-1/B	128	148	170	959	25078
PLAT T#1 - WILLIS E	WP-1	217	242	281	967	25272
PLAT T#4 - WILLIS W	WP-2	217	242	281	956	25273
PLTVLLEY - ATHENS	91	1624	1783	1912	347	25054
PLTVLLEY - LEEDS 3	92	1624	1783	1912	348	25056
PLTVLLEY - WOOD B	F30	1976	2384	2895	346	25237
PORTER 1 - ILION	5	141	144	165	896	25232
PORTER 1 - ILION	2	141	144	159	991	25232
PORTER 1 - VALLEY	4	141	144	165	973	25231
PORTER 2 - ADRON B1	AP11	341	376	478	783	25051
PORTER 2 - ADRON B2	AP12	341	376	478	785	25082
PORTER 2 - PORTER 1	2	320	365	398	972	25389
PORTER 2 - PORTER 1	1	320	365	398	971	25423
PORTER 2 - ROTRDM.2	30	511	564	634	974	25173
PORTER 2 - ROTRDM.2	31	511	564	634	975	25194
PTSFD-24 - PANNELLI	24	157	171	182	1079	69863
PTSFD-25 - PANNELLI	25	139	145	162	1080	69862
QUENBRDG - VERNON-E	31282	355	508	602	354	25159
QUENBRDG - VERNON-W	31281	368	570	602	353	25160
RAINEY - 8E DUM	36311	321	368	422	358	25296
RAINEY - 8W DUM	36312	286	328	374	359	25297
RAM PAR - RAMAPO	BK4500	588	840	1113	2806	25370
RAM PAR - RAMAPO	BK3500	588	840	1113	2805	25371
RAMAPO - RAMAPO 1	1300	453	567	567	363	25441
RAMAPO - RAMAPO 1	2300	453	567	567	362	25442
RAMAPO - SMAHWAH1	69	1601	2010	2271	364	25021
RAMAPO - SMAHWAH2	70	1822	2010	2555	365	25259
RAMAPO 5 - RAM PAR	1500	1160	1419	1925	360	25656
REYNLD3 - REY. RD.	BK#2	585	676	796	1050	25403
ROBIN230 - NIAGAR2E	RR-64	639	714	717	618	25088
ROBIN230 - ROBIN M1	BK#1	344	412	420	616	25395
ROBIN230 - STOLE230	65	673	717	717	617	25065
ROCH 345 - PANNELL3	RP-1	1591	1745	1904	767	25192

NYISO WINTER 2003-04 OPERATING STUDY
WINTER ONLINE RATINGS

LINE	NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
ROCH 345	- PANNELL3	RP-2	1591	1745	1904	766	25172
ROCH 345	- S80 3TR	BK #3TR	286	320	360	774	25446
ROCK TAV	- COOPC345	CRT-42	1793	1793	1793	2801	25111
ROCK TAV	- ROCK TV1	BK TR	485	530	530	457	25406
ROCK TAV	- ROCK TV1	BK TR3	485	533	560	2930	26168
ROCK TAV	- ROSETON	311	1712	1885	1912	458	25069
ROSETON	- FISHKILL	RFK-305	2527	2773	3137	272	25108
RTRDM1	- ROTRDM.2	BK#6	406	447	585	1056	25407
RTRDM1	- ROTRDM.2	BK#7	346	396	448	1057	25392
RTRDM1	- ROTRDM.2	BK#8	377	427	474	1058	25413
S.PER115	- STA 162	T224	149	172	180	625	25062
SANBORNT	- NIAG115E	LK-101	285	300	318	713	25267
SARANAC	- T MIL RD	PS-1/B	128	148	170	959	25078
SCRIBA	- 9M PT 2G	23	2041	2242	2390	981	70513
SCRIBA	- 9MI PT1	9	1166	1281	1424	980	25359
SCRIBA	- JA FITZP	FS-10	1434	1434	1912	900	25076
SCRIBA	- VOLNEY	20	1474	1626	1881	978	25204
SCRIBA	- VOLNEY	21	1912	1912	1912	979	25314
SHEL-113	- SWDN-113	113	129	149	153	724	25263
SHOEMTAP	- SHOEMTAP	BK114	480	620	750	2920	26465
SHORE RD	- L SUCS	368	258	377	623	76	25150
SHORE RD	- L SUCS	367	258	377	623	75	25145
SHORE RD	- SHORE RD	BK#2	522	641	731	114	25440
SHORE RD	- SHORE RD	BK#1	522	641	731	113	25439
SLEIG115	- QUAKER	NMP #13	187	207	222	621	25079
SMAHWAH1	- S.MAHWAH	258	496	646	656	496	25393
SNBRN102	- NIAG115E	LK-102	285	300	318	743	25103
SOUR-114	- MORTIMER	114	129	149	153	725	25349
SPRBROOK	- REACBUS	Y49	660	978	1423	2856	25105
SPRBROOK	- TREMONT	X28	524	710	973	373	25175
SPRBROOK	- W 49 ST	M52	737	968	1312	375	25223
SPRBROOK	- W 49 ST	M51	737	968	1312	374	25053
STATE115	- CLTNCORN	971/3	133	149	159	510	25063
STATE115	- ELBRIDGE	972/5	133	149	162	627	25107
STILV115	- HANCO115	954/955	119	120	120	565	69271
STOLE345	- STOLE115	#4	356	420	420	629	25462
STOLE345	- STOLE115	#3	347	415	420	628	25461
SUGARLF	- ROCK TV1	SL/6108	179	196	206	498	25420
SUGARLF6	- WISNER	89/993	137	151	157	483	69353
TEALL	- ONEIDA	2	141	144	159	939	25895
TREMONT	- PARK TR1	R11	255	339	409	350	25473
TREMONT	- PARK TR2	R12	258	337	409	351	25474
VOLNEY	- MARCY T1	VU-19	1434	1793	1912	909	25345
W.HAV345	- W.HAVERS	BK#194	501	623	623	382	25447
W.WDB115	- W.WDBR69	T152	50	50	50	467	25404
WARREN	- FALCONER	171	96	136	136	673	25015
WATRC345	- WATRC230	BK#1	528	600	600	634	25402
WHITMAN	- ONEIDA	3	152	159	159	855	25894
WILLIS E	- WILL 115	WIL-AT1	172	201	225	984	25388
WILLIS W	- WILL 115	WIL-AT2	172	201	225	983	25390
WOODA345	- WOODS115	BK#1	378	420	420	384	25437

NYISO WINTER 2003-04 OPERATING STUDY
WINTER ONLINE RATINGS

LINE NAME		LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID	
WOODB345	-	WOODS115	BK#2	375	420	420	383	25438
WOODS115	-	AMWLK115	996	261	287	311	327	25574
WYANT115	-	REY. RD.	13	227	249	268	1052	69928

APPENDIX E

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

This page is intentionally left blank

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
	Quaker - Macedon	930	115
	*Mortimer-Elbridge	1	115
	*Mortimer-Elbridge	2	115
	*Pannell-Farmington	4	115
	*Station 121-Sleight Road	13	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 (RGE-NMPC)		
	(Farmington 34.5/115kV)	#7	34.5/115
	(Farmington 34.5 & 12/ 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
Hoosick-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 East-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	230
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	BUS NAME	BASE	SHIFT	CHANGE	BUS	BUS NAME	BASE	SHIFT	CHANGE
<u>DYSINGER EAST, WEST CENTRAL</u>									
80900	LAKEVWG518.0	279.6	304.6	25.0	74190	ROSE GN124.0	411.6	403.6	-8.0
81422	LENNOXG220.0	0.0	25.0	25.0	74702	RAV 3 22.0	905.1	879.1	-26.0
81424	LENNOXG320.0	0.0	25.0	25.0	74703	AK 2 20.0	300.0	292.0	-8.0
81425	LENNOXG420.0	550.0	575.0	25.0	74705	AST 4 20.0	0.0	-8.0	-8.0
					79390	BOWLINE 20.0	0.0	-12.0	-12.0
					79546	POLETTI 26.0	855.0	837.0	-18.0
					74907	NRTPTG2 22.0	358.0	348.0	-10.0
					74908	NRTPTG3 22.0	358.0	348.0	-10.0
<u>TOTAL EAST, CENTRAL EAST</u>									
80900	LAKEVWG518.0	279.6	297.2	17.6	74302	ER G7 13.2	70.0	56.0	-14.0
76641	DUNGEN413.8	180.0	185.9	5.9	74702	RAV 3 22.0	905.1	877.1	-28.0
77051	HNTLY68G13.8	190.6	196.5	5.9	74705	AST 4 20.0	0.0	-10.0	-10.0
77951	9M PT 1G23.0	626.0	684.8	58.8	74706	AST 5 20.0	369.0	357.0	-12.0
79515	MOS19-2013.8	114.0	125.8	11.8	79390	BOWLINE 20.0	0.0	-10.0	-10.0
					79546	POLETTI 26.0	855.0	836.0	-19.0
					74906	NRTPTG1 22.0	0.0	-7.0	-7.0
<u>SPRAINBROOK/DUNWOODIE SOUTH</u>									
80900	LAKEVWG518.0	279.6	324.6	45.0	74702	RAV 3 22.0	905.1	875.1	-30.0
81422	LENNOXG220.0	0.0	55.0	55.0	74703	AK 2 20.0	300.0	290.0	-10.0
					74705	AST 4 20.0	0.0	-10.0	-10.0
					79546	POLETTI 26.0	855.0	825.0	-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	279.6	299.6	20.0	74302	ER G7 13.2	70.0	63.0	-7.0
81422	LENNOXG220.0	0.0	40.0	40.0	74702	RAV 3 22.0	905.1	875.1	-30.0
81424	LENNOXG320.0	0.0	40.0	40.0	74705	AST 4 20.0	0.0	-20.0	-20.0
					74706	AST 5 20.0	369.0	359.0	-10.0
					74707	RAV 1 20.0	259.3	244.3	-15.0
					74907	NRTPTG2 22.0	358.0	340.0	-18.0

MOSES - SOUTH

79513	MOS17-1813.8	82.9	132.9	50.0	74702	RAV 3 22.0	905.1	895.1	-10.0
79516	MOS21-2213.8	114.0	164.0	50.0	76641	DUNGEN413.8	180.0	170.0	-10.0
					77051	HNTLY68G13.8	190.6	180.6	-10.0
					77951	9M PT 1G23.0	626.0	576.0	-50.0
					79546	POLETTI 26.0	855.0	835.0	-20.0

CONED - LONG ISLAND POWER AUTHORITY

74190	ROSE GN124.0	411.6	426.6	15.0	74900	BARETG1 20.0	176.0	156.0	-20.0
74302	ER G7 13.2	70.0	75.0	5.0	74907	NRTPTG2 22.0	358.0	331.3	-26.7
74700	AK 3 22.0	0.0	10.0	10.0	74908	NRTPTG3 22.0	358.0	331.3	-26.7
74705	AST 4 20.0	0.0	5.0	5.0	74909	NRTPTG4 22.0	0.0	-26.7	-26.7
74706	AST 5 20.0	369.0	379.0	10.0	74942	NYPA108 13.8	176.0	156.0	-20.0
74707	RAV 1 20.0	259.3	274.3	15.0					
79390	BOWLINE 20.0	0.0	25.0	25.0					
79546	POLETTI 26.0	855.0	870.0	15.0					

ONTARIO - NEW YORK

81424	LENNOXG320.0	0.0	50.0	50.0	74190	ROSE GN124.0	411.6	396.6	-15.0
81425	LENNOXG420.0	550.0	600.0	50.0	74702	RAV 3 22.0	905.1	865.1	-40.0
					76640	DUNGEN313.8	180.0	175.0	-5.0
					77051	HNTLY68G13.8	190.6	185.6	-5.0
					78955	ALBY STM13.2	192.9	187.9	-5.0
					79547	JAFITZ1G24.0	848.8	818.8	-30.0

NEW YORK - ONTARIO

74190	ROSE GN124.0	411.6	426.6	15.0	80898	LAKEVWG216.0	300.0	250.0	-50.0
74193	DANSK G416.1	241.0	256.0	15.0	80899	LAKEVWG116.0	300.0	250.0	-50.0
78955	ALBY STM13.2	192.9	202.9	10.0					
79390	BOWLINE 20.0	0.0	45.0	45.0					
79546	POLETTI 26.0	855.0	870.0	15.0					

PJM - NYISO

30	CONE G1 22.0	850.0	851.9	1.9	74706	AST 5 20.0	104.0	90.8	-13.2
31	CONE G2 22.0	850.0	851.9	1.9	75523	KINTIG2424.0	527.2	523.8	-3.4
32	KEYS G1 22.0	850.0	851.7	1.7	76111	MILKN 2 18.0	75.5	71.0	-4.5
34	PCHBTM 222.0	848.3	850.6	2.3	76640	DUNKGEN313.8	50.0	43.5	-6.5
35	PCHBTM 322.0	1119.0	1121.3	2.3	77050	HNTLY67G13.8	131.4	128.4	-3.0
37	SALEM G222.0	1133.0	1135.4	2.4	77052	HUNT115G13.8	60.0	54.5	-5.5
38	SUSQ 2 24.0	1160.0	1162.3	2.3	77450	GERES LK 115	59.0	54.0	-5.0
39	HOPE CG122.0	1085.0	1087.4	2.4	77952	OSWGO 5G22.0	290.1	269.6	-20.5
40	C CLF G125.0	865.0	866.9	1.9	77965	SITH-G1 18.0	40.0	34.2	-5.8
41	C CLF G222.0	865.0	866.8	1.8	77966	SITH-G2 18.0	40.0	34.2	-5.8
42	LIMERCK222.0	1198.0	1200.3	2.3	79391	BOWLIN2020.0	400.0	390.4	-9.6
204	C.SLOPE 115	138.0	138.3	0.3	79546	POLETTI 26.0	512.0	494.8	-17.2
295	WRREN #112.0	41.0	41.1	0.1					
307	WRREN #212.0	41.0	41.1	0.1					
312	PINEY #112.0	28.0	28.1	0.1					
343	IUP CO-G23.0	16.0	16.1	0.1					
349	SENECA#113.8	210.0	210.4	0.4					
350	SENECA#213.8	197.0	197.4	0.4					
351	SENECA#313.8	32.0	32.1	0.1					
364	PINEY CK13.8	31.0	31.1	0.1					
369	SCRUB GR13.8	85.0	85.2	0.2					
372	SHAWVL 322.0	177.5	177.9	0.4					
373	SHAWVL 422.0	186.0	186.5	0.5					
424	SHAWVL 118.0	128.0	128.2	0.2					
431	SHAWVL 218.0	130.0	130.2	0.2					
450	BLRSVL E 115	4.0	4.0	0.0					
451	SEWARD 115	199.0	199.5	0.5					
474	EDGEWOOD 115	4.0	4.0	0.0					
516	COLVER1313.2	110.0	110.2	0.2					
520	SITHE 138	36.0	36.1	0.1					
523	ALY HYDR46.0	12.0	12.0	0.0					
524	YOUGH 4.00	5.0	5.0	0.0					

570	HANDSMLK 345	250.0	250.6	0.6
601	HOMER C122.0	620.0	621.3	1.3
602	HOMER C222.0	614.0	615.3	1.3
603	HOMER C322.0	650.0	651.3	1.3
604	DEEPCRK111.5	10.0	10.0	0.0
605	DEEPCRK211.5	9.0	9.0	0.0
669	BLOSSBCT34.5	0.0	0.2	0.2
1260	MODRN LF13.2	8.0	8.0	0.0
1702	GLATFLTR13.2	35.0	35.1	0.1
1703	LARA 13.2	30.0	30.1	0.1
1704	PANTHER 13.2	80.0	80.2	0.2
1707	YK SOLID13.2	30.0	30.1	0.1
1726	PORT1GEN13.8	156.0	156.3	0.3
1727	PORT2GEN15.5	243.0	243.5	0.5
1730	TITUS 1G13.8	81.5	81.6	0.2
1731	TITUS 2G13.8	81.4	81.6	0.2
1732	TITUS 3G13.8	81.4	81.6	0.2
1733	TMI 1GEN19.0	831.2	833.0	1.8
1734	YK H STA 115	19.0	19.0	0.0
1736	AES GEN120.0	219.0	219.6	0.6
1737	AES GEN220.0	219.0	219.6	0.6
2514	GRANDIN 12.5	4.0	4.0	0.0
2666	MCRC/REC34.5	7.0	7.0	0.0
2770	LAKEHURS34.5	5.0	5.0	0.0
2873	LKWD G1 13.8	86.0	86.2	0.2
2895	O C GEN 24.0	637.8	639.0	1.3
2897	S RIV G113.8	87.0	87.3	0.3
2898	S RIV G213.8	87.0	87.3	0.3
2899	S RIV G313.8	86.0	86.3	0.3
2900	GILCT9 18.0	183.0	183.4	0.4
2907	KITTTGEN113.8	140.0	140.2	0.2
2908	KITTTGEN213.8	140.0	140.3	0.3
2909	KITTTGEN313.8	120.0	120.2	0.2
2910	GIL 4&5 13.8	140.0	140.2	0.2
2911	GIL 8 13.8	104.0	104.3	0.3
2912	GIL 6&7 13.8	140.0	140.2	0.2
2915	HOFF GEN13.8	22.0	22.1	0.1
2916	WARRNGEN13.8	10.0	10.1	0.1
2917	MILF GEN13.8	27.0	27.1	0.1
2921	RRCT1&2 13.8	148.0	148.2	0.2
2924	RR GEN4 13.8	93.0	93.2	0.2

NYISO OPERATING STUDY
WINTER 2003-04

2925	RR GEN5 13.8	97.0	97.3	0.3
2929	WERCT1&213.8	146.0	146.2	0.2
2932	PARLN1&213.8	57.0	57.1	0.1
2933	PARLN3&413.8	57.0	57.1	0.1
3131	BSCONVTR69.0	30.0	30.2	0.2
3132	ARCH NUG13.8	20.0	20.0	0.0
3134	BRUNER 218.0	390.0	390.8	0.8
3135	BRUNER 324.0	749.0	750.5	1.5
3136	WILL1NUG13.8	63.0	63.2	0.2
3137	WILL6NUG13.8	28.0	28.2	0.2
3138	FOST NUG13.8	40.0	40.1	0.1
3139	FRAK NUG13.8	42.0	42.1	0.1
3140	GILB NUG13.8	79.0	79.2	0.2
3141	HAMR NUG13.8	22.0	22.0	0.0
3142	HARR NUG13.8	5.0	5.0	0.0
3144	HOLT695 13.2	102.0	102.1	0.1
3145	KOPR NUG13.8	7.0	7.0	0.0
3146	MONTUR 124.0	769.0	770.6	1.6
3147	MONTUR 224.0	776.0	777.7	1.7
3148	MTN CK 118.0	150.0	150.3	0.3
3149	MTN CK 218.0	150.0	150.3	0.3
3150	MTN CK 324.0	108.8	110.5	1.7
3152	NEPO NUG13.8	50.0	50.1	0.1
3153	PAXT NUG13.8	12.0	12.0	0.0
3154	S.H. 34 13.8	32.0	32.1	0.1
3155	S.H. 56713.8	48.0	48.2	0.2
3156	S.H.111213.8	38.0	38.1	0.1
3157	S.H.891013.8	56.0	56.2	0.2
3158	SKIL NUG13.8	88.0	88.2	0.2
3159	SUNBRY 113.8	76.0	76.2	0.2
3160	SUNBRY 213.8	76.0	76.2	0.2
3161	SUNBRY 313.8	98.0	98.3	0.2
3162	SUNBRY 413.8	134.0	134.3	0.3
3163	SUSQ 1 24.0	1157.0	1159.3	2.3
3164	VIKE NUG13.8	17.0	17.0	0.0
3165	WALENPAK11.0	44.0	44.1	0.1
3167	WEST NUG13.8	30.0	30.1	0.1
3168	HOLT696 13.2	51.0	51.1	0.1
3169	S.H. 12 13.8	64.0	64.2	0.2
3170	AMIT NUG13.8	1.0	1.0	0.0
3171	KEYS LF 13.8	5.0	5.0	0.0

3501	WIG2_3_413.8	81.0	81.2	0.2
3504	WILL5NUG13.8	46.0	46.1	0.1
4057	CON10-1113.8	104.0	104.2	0.2
4061	CONOW1-213.8	66.0	66.1	0.1
4062	CONOW3-413.8	66.0	66.1	0.1
4063	CONOW5-613.8	56.0	56.1	0.1
4064	CONOW7 13.8	28.0	28.1	0.1
4065	CONOW8-913.8	104.0	104.2	0.2
4070	CROMBY 120.0	147.0	147.3	0.3
4071	CROMBY 220.0	211.0	211.4	0.4
4080	CROYDN1113.8	64.0	64.1	0.1
4081	CROYDN1213.8	64.0	64.1	0.1
4082	CROYDN2113.8	59.0	59.1	0.1
4083	CROYDN2213.8	64.0	64.1	0.1
4084	CROYDN3113.8	64.0	64.1	0.1
4085	CROYDN3213.8	59.0	59.1	0.1
4099	DELOWARE713.8	22.0	22.3	0.3
4110	EDDYSTN120.0	288.0	288.8	0.8
4112	EDDYSTN220.0	310.6	311.4	0.8
4113	EDDYSTN324.0	38.0	38.8	0.8
4130	GFCP 13.8	150.0	150.4	0.4
4159	LIMERCK122.0	1182.0	1184.3	2.3
4191	MDYRN1-213.8	270.0	270.4	0.4
4192	MDYRN3-413.8	270.0	270.4	0.4
4193	MDYRN5-613.8	260.0	260.4	0.4
4196	MERCK 13.8	26.0	26.0	0.0
4201	MONTGMSW13.8	28.0	28.1	0.1
4267	RICHMD9113.8	66.0	66.1	0.1
4283	SCHYLKL113.8	170.0	170.4	0.4
4289	KIMCLARK13.8	49.0	49.1	0.1
4300	SUN OIL 13.8	53.0	53.1	0.1
4500	FAIRLESS13.8	60.0	60.1	0.1
4514	PENNSBRY35.0	7.0	7.0	0.0
4538	BIOENRGY4.16	5.0	5.2	0.2
4953	ATHENIA3 138	11.0	11.0	0.0
4966	BRUNSWCK 230	10.0	10.0	0.0
4981	ALDENE 230	17.0	17.0	0.0
4985	FAIRLAWN 138	47.0	47.1	0.1
5025	TRENTON 138	15.0	15.0	0.0
5050	ECRR 138	65.0	65.2	0.2
5052	ESSEX 1113.0	212.0	212.4	0.4

NYISO OPERATING STUDY
WINTER 2003-04

5054	ESSEX	230	93.0	93.4	0.4
5055	BERGEN	124.0	409.0	409.6	0.6
5059	HUDSON	124.0	400.3	401.2	0.9
5066	KRNY9&10	13.0	159.0	159.3	0.3
5077	LINDEN	A26.0	39.0	39.1	0.1
5099	EDISON	113.0	194.0	194.3	0.3
5110	LINDN	GT13.0	184.0	184.4	0.4
5123	SEWAREN	413.0	77.3	77.6	0.3
5129	EAGLE	PT 230	220.0	220.4	0.4
5134	BURLNG	1013.0	211.0	211.4	0.4
5136	GLOUCSTR	26.0	38.0	38.1	0.1
5140	MERCER	124.0	324.9	325.6	0.7
5141	MERCER	224.0	325.0	325.7	0.7
5167	HUDSON	224.0	620.0	621.3	1.3
5169	CAMD	CGN 230	159.0	159.3	0.3
5170	NWK	BAY 230	147.0	147.3	0.3
5171	WHELABTR	230	42.0	42.1	0.1
5173	NWK	BOX 26.0	52.0	52.1	0.1
5180	BERGENGT	24.0	423.0	423.9	0.9
5181	BURL	10ST13.0	65.0	65.1	0.1
5185	BCT	CT1 13.8	36.0	36.1	0.1
5186	BCT	CT2 13.8	36.0	36.1	0.1
5187	BCT	CT3 13.8	36.0	36.1	0.1
5188	BCT	ST1 13.8	50.0	50.1	0.1
5198	A50	CT1 13.8	34.2	34.3	0.1
5901	BRANDNG	124.0	670.0	671.4	1.4
5902	BRANDNG	224.0	669.3	670.7	1.4
5903	CRANE	G120.0	190.0	190.4	0.4
5904	CRANE	G220.0	195.0	195.4	0.4
5918	WAGNERG	216.5	135.0	135.3	0.3
5919	WAGNERG	318.0	332.0	332.7	0.7
5932	BRESCO	G113.8	57.0	57.1	0.1
6843	PENWD	4G13.8	35.4	35.5	0.1
6844	PENWD	3G13.8	35.4	35.5	0.1
6845	PENWD	2G13.8	35.4	35.5	0.1
6846	PENWD	1G13.8	35.4	35.5	0.1
7095	C	U1 13.8	88.0	88.2	0.2
7096	C	U2 13.8	88.0	88.2	0.2
7097	C	U3 13.8	102.0	102.2	0.2
7098	C	U4 13.8	102.0	102.2	0.2
7099	C	U5 13.8	102.0	102.2	0.2

7100	DICK U1	13.8	182.0	182.4	0.4
7101	DICK U2	13.8	182.0	182.4	0.4
7102	DICK U3	13.8	182.0	182.4	0.4
7104	CHALK U1	20.0	340.8	341.6	0.8
7105	CHALK U2	20.0	343.0	343.8	0.8
7106	CHALK U3	24.0	146.4	147.7	1.3
7107	CHALK U4	24.0	400.0	401.3	1.3
7115	MORGTU1	18.0	625.0	626.3	1.3
7116	MORGTU2	24.0	621.0	622.3	1.3
7175	PANDACT1	13.8	78.0	78.2	0.2
7176	PANDACT2	13.8	78.0	78.2	0.2
7177	PANDASC1	13.8	74.0	74.2	0.2
8012	BEACH HN	23.0	5.0	5.2	0.2
8101	BLE#1	ST15.0	128.4	128.7	0.3
8102	BLE#2	ST18.0	155.0	155.3	0.3
8202	CUMB CT	13.8	96.0	96.2	0.2
8206	SHRMN CT	13.8	96.0	96.2	0.2
8301	D/W 1	ST13.8	72.7	72.8	0.2
8302	D/W 6	ST13.8	80.0	80.2	0.2
8303	D/W 4	ST11.0	0.0	0.1	0.1
8304	LOGAN	22.0	219.0	219.6	0.6
8306	PCLP ST	M13.8	76.0	76.1	0.1
8307	PCLP GT	13.8	40.0	40.2	0.2
8309	CCLP NUG	23.0	237.0	237.6	0.6
8471	MOBIL #1	13.8	22.0	22.1	0.1
8472	MOBIL #2	13.8	11.0	11.0	0.0
8473	MOBIL #3	13.8	11.0	11.0	0.0
8879	DC1 NUG	13.8	28.0	28.1	0.1
8880	DC2 NUG	13.8	29.0	29.1	0.1
8883	EM3	13.2	86.0	86.1	0.1
8884	EM4	19.0	174.0	174.4	0.4
8885	EM5	23.0	424.4	425.4	0.9
8887	HR1	13.8	124.0	124.2	0.2
8888	HR2	13.8	124.0	124.2	0.2
8889	HR3	13.8	124.0	124.2	0.2
8890	HR4	18.0	179.0	179.4	0.4
8965	GEN4	13.8	11.0	11.2	0.2
9216	IR1	15.2	91.0	91.2	0.2
9217	IR2	14.4	91.0	91.2	0.2
9218	IR3	19.0	164.3	164.7	0.4
9219	IR4	26.0	420.0	420.9	0.9

NYISO OPERATING STUDY
WINTER 2003-04

9341	BAYVIEW125.0	12.0	12.0	0.0
9369	NORTHST 69.0	35.0	35.1	0.1
9370	GEN FOOD12.5	16.0	16.0	0.0
9381	EASTNMU269.0	25.0	25.1	0.1
9795	E13 115	0.0	0.2	0.2
9830	D05 69.0	70.0	70.2	0.2
9878	A36 CT1 18.0	154.6	155.0	0.4
9879	A36 CT2 18.0	166.0	166.4	0.4
9980	HUN GEN 13.2	48.1	48.2	0.1
79356	SO.MAHWA69.0	0.5	0.5	0.0

NYISO - PJM

74192	ROSE GN224.0	320.0	336.8	16.8	30	CONE G1 22.0	850.0	848.1	-1.9
74194	DANSK G316.1	130.0	136.8	6.8	31	CONE G2 22.0	850.0	848.1	-1.9
74195	DANSK G213.8	55.0	58.2	3.2	32	KEYS G1 22.0	850.0	848.3	-1.7
74196	DANSK G113.8	45.0	47.6	2.6	34	PCHBTM 222.0	848.3	846.0	-2.3
74700	AK 3 22.0	300.0	315.8	15.8	35	PCHBTM 322.0	1119.0	1116.7	-2.3
75523	KINTIG2424.0	590.8	594.5	3.7	37	SALEM G222.0	1133.0	1130.6	-2.4
76642	DUNK115G13.8	100.0	105.3	5.3	38	SUSQ 2 24.0	1160.0	1157.7	-2.3
77121	SENECAP 115	55.0	57.6	2.6	39	HOPE CG122.0	1085.0	1082.6	-2.4
77953	OSWGO 6G22.0	475.0	500.3	25.3	40	C CLF G125.0	865.0	863.1	-1.9
79392	LOVETT 320.0	40.0	42.1	2.1	41	C CLF G222.0	865.0	863.2	-1.8
79394	LOVETT 520.0	150.0	157.9	7.9	42	LIMERCK222.0	1198.0	1195.7	-2.3
74913	PTJFEG4 20.0	150.0	157.9	7.9	204	C.SLOPE 115	138.0	137.7	-0.3
					295	WRREN #112.0	41.0	40.9	-0.1
					307	WRREN #212.0	41.0	40.9	-0.1
					312	PINEY #112.0	28.0	27.9	-0.1
					343	IUP CO-G23.0	16.0	15.9	-0.1
					349	SENECA#113.8	210.0	209.6	-0.4
					350	SENECA#213.8	197.0	196.6	-0.4
					351	SENECA#313.8	32.0	31.9	-0.1
					364	PINEY CK13.8	31.0	30.9	-0.1
					369	SCRUB GR13.8	85.0	84.8	-0.2
					372	SHAWVL 322.0	177.5	177.1	-0.4
					373	SHAWVL 422.0	186.0	185.5	-0.5
					424	SHAWVL 118.0	128.0	127.8	-0.2
					431	SHAWVL 218.0	130.0	129.8	-0.2
					450	BLRSVL E 115	4.0	4.0	0.0
					451	SEWARD 115	199.0	198.5	-0.5
					474	EDGEWOOD 115	4.0	4.0	0.0
					516	COLVER1313.2	110.0	109.8	-0.2

520	SITHE	138	36.0	35.9	-0.1
523	ALY HYDR	46.0	12.0	12.0	0.0
524	YOUGH	4.00	5.0	5.0	0.0
570	HANDSMLK	345	250.0	249.4	-0.6
601	HOMER C1	22.0	620.0	618.7	-1.3
602	HOMER C2	22.0	614.0	612.7	-1.3
603	HOMER C3	22.0	650.0	648.7	-1.3
604	DEEPCRK1	11.5	10.0	10.0	0.0
605	DEEPCRK2	11.5	9.0	9.0	0.0
669	BLOSSBCT	34.5	0.0	-0.2	-0.2
1260	MODRN LF	13.2	7.5	7.4	0.0
1702	GLATFLTR	13.2	32.6	32.5	-0.1
1703	LARA	13.2	27.9	27.9	-0.1
1704	PANTHER	13.2	74.5	74.3	-0.2
1707	YK SOLID	13.2	27.9	27.9	-0.1
1726	PORT1GEN	13.8	145.3	145.0	-0.3
1727	PORT2GEN	15.5	226.4	225.8	-0.5
1730	TITUS 1G	13.8	75.9	75.8	-0.2
1731	TITUS 2G	13.8	75.9	75.7	-0.2
1732	TITUS 3G	13.8	75.9	75.7	-0.2
1733	TMI 1GEN	19.0	774.4	772.6	-1.8
1734	YK H STA	115	17.7	17.7	0.0
1736	AES GEN1	20.0	204.0	203.4	-0.6
1737	AES GEN2	20.0	204.0	203.4	-0.6
2514	GRANDIN	12.5	3.7	3.7	0.0
2666	MCRC/REC	34.5	6.5	6.5	0.0
2770	LAKEHURS	34.5	4.7	4.6	0.0
2873	LKWD G1	13.8	80.1	79.9	-0.2
2895	O C GEN	24.0	594.2	592.9	-1.3
2897	S RIV G1	13.8	81.0	80.8	-0.3
2898	S RIV G2	13.8	81.0	80.8	-0.3
2899	S RIV G3	13.8	80.1	79.9	-0.3
2900	GILCT9	18.0	170.5	170.1	-0.4
2907	KITTGEN1	13.8	130.4	130.2	-0.2
2908	KITTGEN2	13.8	130.4	130.2	-0.3
2909	KITTGEN3	13.8	111.8	111.6	-0.2
2910	GIL 4&5	13.8	130.4	130.2	-0.2
2911	GIL 8	13.8	96.9	96.6	-0.3
2912	GIL 6&7	13.8	130.4	130.2	-0.2
2915	HOFF GEN	13.8	20.5	20.4	-0.1
2916	WARRGEN	13.8	9.3	9.2	-0.1

2917	MILF GEN13.8	25.2	25.1	-0.1
2921	RRCT1&2 13.8	137.9	137.7	-0.2
2924	RR GEN4 13.8	86.6	86.4	-0.2
2925	RR GEN5 13.8	90.4	90.1	-0.3
2929	WERCT1&213.8	136.0	135.8	-0.2
2932	PARLN1&213.8	53.1	53.0	-0.1
2933	PARLN3&413.8	53.1	53.0	-0.1
3131	BSCONVTR69.0	27.9	27.8	-0.2
3132	ARCH NUG13.8	18.6	18.6	0.0
3134	BRUNER 218.0	363.3	362.5	-0.8
3135	BRUNER 324.0	697.8	696.2	-1.5
3136	WILL1NUG13.8	58.7	58.5	-0.2
3137	WILL6NUG13.8	26.1	25.9	-0.2
3138	FOST NUG13.8	37.3	37.2	-0.1
3139	FRAK NUG13.8	39.1	39.0	-0.1
3140	GILB NUG13.8	73.6	73.4	-0.2
3141	HAMR NUG13.8	20.5	20.4	0.0
3142	HARR NUG13.8	4.7	4.6	0.0
3144	HOLT695 13.2	95.0	94.9	-0.1
3145	KOPR NUG13.8	6.5	6.5	0.0
3146	MONTUR 124.0	716.4	714.8	-1.6
3147	MONTUR 224.0	722.9	721.3	-1.7
3148	MTN CK 118.0	139.7	139.4	-0.3
3149	MTN CK 218.0	139.7	139.4	-0.3
3150	MTN CK 324.0	101.3	99.6	-1.7
3152	NEPO NUG13.8	46.6	46.4	-0.1
3153	PAXT NUG13.8	11.2	11.2	0.0
3154	S.H. 34 13.8	29.8	29.7	-0.1
3155	S.H. 56713.8	44.7	44.5	-0.2
3156	S.H.111213.8	35.4	35.3	-0.1
3157	S.H.891013.8	52.2	52.0	-0.2
3158	SKIL NUG13.8	82.0	81.8	-0.2
3159	SUNBRY 113.8	70.8	70.6	-0.2
3160	SUNBRY 213.8	70.8	70.6	-0.2
3161	SUNBRY 313.8	91.3	91.1	-0.2
3162	SUNBRY 413.8	124.8	124.5	-0.3
3163	SUSQ 1 24.0	1077.9	1075.5	-2.3
3164	VIKE NUG13.8	15.8	15.8	0.0
3165	WALENPAK11.0	41.0	40.9	-0.1
3167	WEST NUG13.8	27.9	27.9	-0.1
3168	HOLT696 13.2	47.5	47.4	-0.1

3169	S.H.	12 13.8	59.6	59.4	-0.2
3170	AMIT	NUG13.8	0.9	0.9	0.0
3171	KEYS	LF 13.8	4.7	4.6	0.0
3501	WIG2_3_4	13.8	75.5	75.3	-0.2
3504	WILL5	NUG13.8	42.9	42.8	-0.1
4057	CON10-11	13.8	96.9	96.7	-0.2
4061	CONOW1-2	13.8	61.5	61.3	-0.1
4062	CONOW3-4	13.8	61.5	61.3	-0.1
4063	CONOW5-6	13.8	52.2	52.0	-0.1
4064	CONOW7	13.8	26.1	26.0	-0.1
4065	CONOW8-9	13.8	96.9	96.7	-0.2
4070	CROMBY	120.0	136.9	136.6	-0.3
4071	CROMBY	220.0	196.6	196.1	-0.4
4080	CROYDN1	113.8	59.6	59.5	-0.1
4081	CROYDN1	213.8	59.6	59.5	-0.1
4082	CROYDN2	113.8	55.0	54.8	-0.1
4083	CROYDN2	213.8	59.6	59.5	-0.1
4084	CROYDN3	113.8	59.6	59.5	-0.1
4085	CROYDN3	213.8	55.0	54.8	-0.1
4099	DELWARE	713.8	20.5	20.2	-0.3
4110	EDDYSTN	120.0	268.3	267.5	-0.8
4112	EDDYSTN	220.0	289.4	288.6	-0.8
4113	EDDYSTN	324.0	35.4	34.6	-0.8
4130	GFCP	13.8	139.7	139.4	-0.4
4159	LIMERCK	122.0	1101.1	1098.8	-2.3
4191	MDYRN1-2	13.8	251.5	251.1	-0.4
4192	MDYRN3-4	13.8	251.5	251.1	-0.4
4193	MDYRN5-6	13.8	242.2	241.8	-0.4
4196	MERCK	13.8	24.2	24.2	0.0
4201	MONTGMSW	13.8	26.1	26.0	-0.1
4267	RICHMD9	113.8	61.5	61.4	-0.1
4283	SCHYLKL	113.8	158.4	158.0	-0.4
4289	KIMCLARK	13.8	45.6	45.6	-0.1
4300	SUN OIL	13.8	49.4	49.3	-0.1
4500	FAIRLESS	13.8	55.9	55.8	-0.1
4514	PENNSBRY	35.0	6.5	6.5	0.0
4538	BIOENRGY	4.16	4.7	4.5	-0.2
4953	ATHENIA	3 138	10.2	10.2	0.0
4966	BRUNSWCK	230	9.3	9.3	0.0
4981	ALDENE	230	15.8	15.8	0.0
4985	FAIRLAWN	138	43.8	43.7	-0.1

5025	TRENTON	138	14.0	13.9	0.0
5050	ECRR	138	60.6	60.4	-0.2
5052	ESSEX	1113.0	197.5	197.1	-0.4
5054	ESSEX	230	86.6	86.3	-0.4
5055	BERGEN	124.0	381.0	380.4	-0.6
5059	HUDSON	124.0	372.9	372.0	-0.9
5066	KRNY9&10	13.0	148.1	147.8	-0.3
5077	LINDEN	A26.0	36.3	36.2	-0.1
5099	EDISON	113.0	180.7	180.4	-0.3
5110	LINDN	GT13.0	171.4	171.0	-0.4
5123	SEWAREN	413.0	72.0	71.8	-0.3
5129	EAGLE	PT 230	205.0	204.6	-0.4
5134	BURLNG	1013.0	196.6	196.2	-0.4
5136	GLOUCSTR	26.0	35.4	35.3	-0.1
5140	MERCER	124.0	302.7	302.0	-0.7
5141	MERCER	224.0	302.8	302.1	-0.7
5167	HUDSON	224.0	577.6	576.3	-1.3
5169	CAMD	CGN 230	148.1	147.8	-0.3
5170	NWK	BAY 230	136.9	136.6	-0.3
5171	WHELABTR	230	39.1	39.0	-0.1
5173	NWK	BOX 26.0	48.4	48.3	-0.1
5180	BERGENGT	24.0	394.1	393.2	-0.9
5181	BURL10ST	13.0	60.6	60.4	-0.1
5185	BCT	CT1 13.8	33.5	33.5	-0.1
5186	BCT	CT2 13.8	33.5	33.5	-0.1
5187	BCT	CT3 13.8	33.5	33.5	-0.1
5188	BCT	ST1 13.8	46.6	46.4	-0.1
5198	A50	CT1 13.8	31.9	31.8	-0.1
5901	BRANDNG	124.0	624.2	622.8	-1.4
5902	BRANDNG	224.0	623.5	622.1	-1.4
5903	CRANE	G120.0	177.0	176.6	-0.4
5904	CRANE	G220.0	181.7	181.3	-0.4
5918	WAGNERG	216.5	125.8	125.5	-0.3
5919	WAGNERG	318.0	309.3	308.6	-0.7
5932	BRESCOG	113.8	53.1	53.0	-0.1
6843	PENWD	4G13.8	33.0	32.9	-0.1
6844	PENWD	3G13.8	33.0	32.9	-0.1
6845	PENWD	2G13.8	33.0	32.9	-0.1
6846	PENWD	1G13.8	33.0	32.9	-0.1
7095	C	U1 13.8	82.0	81.8	-0.2
7096	C	U2 13.8	82.0	81.8	-0.2

7097	C	U3	13.8	95.0	94.8	-0.2	
7098	C	U4	13.8	95.0	94.8	-0.2	
7099	C	U5	13.8	95.0	94.8	-0.2	
7100	DICK	U1	13.8	169.5	169.1	-0.4	
7101	DICK	U2	13.8	169.5	169.1	-0.4	
7102	DICK	U3	13.8	169.5	169.1	-0.4	
7104	CHALK	U1	20.0	317.5	316.8	-0.8	
7105	CHALK	U2	20.0	319.5	318.8	-0.8	
7106	CHALK	U3	24.0	136.4	135.1	-1.3	
7107	CHALK	U4	24.0	372.6	371.3	-1.3	
7115	MORGTU1	18.0	582.2	581.0	-1.3		
7116	MORGTU2	24.0	578.5	577.3	-1.3		
7175	PANDACT1	13.8	72.7	72.5	-0.2		
7176	PANDACT2	13.8	72.7	72.5	-0.2		
7177	PANDASC1	13.8	68.9	68.7	-0.2		
8012	BEACH	HN	23.0	4.7	4.5	-0.2	
8101	BLE#1	ST	15.0	119.7	119.4	-0.3	
8102	BLE#2	ST	18.0	144.4	144.0	-0.3	
8202	CUMB	CT	13.8	89.4	89.3	-0.2	
8206	SHRMN	CT	13.8	89.4	89.2	-0.2	
8301	D/W	1	ST	13.8	67.7	67.5	-0.2
8302	D/W	6	ST	13.8	74.5	74.4	-0.2
8303	D/W	4	ST	11.0	0.0	-0.1	-0.1
8304	LOGAN	22.0	204.0	203.4	-0.6		
8306	PCLP	ST	13.8	70.8	70.7	-0.1	
8307	PCLP	GT	13.8	37.3	37.1	-0.2	
8309	CCLP	NUG	23.0	220.8	220.2	-0.6	
8471	MOBIL	#1	13.8	20.5	20.4	-0.1	
8472	MOBIL	#2	13.8	10.2	10.2	0.0	
8473	MOBIL	#3	13.8	10.2	10.2	0.0	
8879	DC1	NUG	13.8	26.1	26.0	-0.1	
8880	DC2	NUG	13.8	27.0	27.0	-0.1	
8883	EM3	13.2	80.1	80.0	-0.1		
8884	EM4	19.0	162.1	161.7	-0.4		
8885	EM5	23.0	395.4	394.5	-0.9		
8887	HR1	13.8	115.5	115.3	-0.2		
8888	HR2	13.8	115.5	115.3	-0.2		
8889	HR3	13.8	115.5	115.3	-0.2		
8890	HR4	18.0	166.8	166.3	-0.4		
8965	GEN4	13.8	10.2	10.1	-0.2		
9216	IR1	15.2	84.8	84.6	-0.2		

9217	IR2	14.4	84.8	84.6	-0.2
9218	IR3	19.0	153.1	152.7	-0.4
9219	IR4	26.0	391.3	390.4	-0.9
9341	BAYVIEW1	25.0	11.2	11.2	0.0
9369	NORTHST	69.0	32.6	32.5	-0.1
9370	GEN FOOD	12.5	14.9	14.9	0.0
9381	EASTNMU	269.0	23.3	23.2	-0.1
9795	E13	115	0.0	-0.2	-0.2
9830	D05	69.0	65.2	65.0	-0.2
9878	A36 CT1	18.0	154.6	154.2	-0.4
9879	A36 CT2	18.0	166.0	165.6	-0.4
9980	HUN GEN	13.2	48.1	48.0	-0.1
79356	SO.MAHWA	69.0	0.5	0.5	0.0

NEW YORK - NEW ENGLAND

74190	ROSE GN	124.0	411.6	441.6	30.0	71063	MYST G7	22.0	175.0	200.0	25.0
74700	AK 3	22.0	0.0	20.0	20.0	71252	CANAL G	218.0	576.0	606.0	30.0
74702	RAV 3	22.0	905.1	915.1	10.0	72868	NWNGT G	124.0	325.0	350.0	25.0
74707	RAV 1	20.0	259.3	269.3	10.0	73563	MILL#3	24.0	1146.0	1166.0	20.0
79391	BOWLIN	2020.0	592.0	602.0	10.0						
79546	POLETTI	26.0	855.0	875.0	20.0						

NEW ENGLAND - NEW YORK

71063	MYST G7	22.0	175.0	200.0	25.0	74193	DANSK G	416.1	241.0	221.0	-20.0
71252	CANAL G	218.0	576.0	606.0	30.0	74702	RAV 3	22.0	905.1	885.1	-20.0
72868	NWNGT G	124.0	325.0	350.0	25.0	78955	ALBY STM	13.2	192.9	172.9	-20.0
73563	MILL#3	24.0	1146.0	1166.0	20.0	79546	POLETTI	26.0	855.0	815.0	-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	9.0%	6.1%	7.3%	TRIP	6.8%	6.1%	13.4%
GOLAH66K66.0	MORT66KV66.0	1		0.3%	0.3%	0.3%	0.8%	0.7%	0.6%
LOCKPORT 115	NAKR-108 115	1	1.0%	1.3%	1.6%	1.5%	4.1%	3.8%	2.9%
LOCKPORT 115	OAKFLDTP 115	1	1.2%	1.6%	1.9%	1.8%	4.9%	4.5%	3.5%
LOCKPORT 115	SOUR-111 115	1	2.5%	3.3%	4.0%	3.7%	TRIP	12.2%	7.2%
LOCKPORT 115	SHEL-113 115	1	2.7%	3.5%	4.2%	3.9%	14.2%	TRIP	7.7%
LOCKPORT 115	TELRDTP1 115	1	1.2%	1.6%	1.9%	1.8%	6.2%	6.7%	3.5%
LOCKPORT 115	TELRDTP1 115	1	2.6%	3.4%	4.1%	3.8%	11.7%	19.3%	7.4%
KINTI345 345	ROCH 345 345	1	21.1%	TRIP	45.2%	14.8%	14.7%	13.3%	O/S
NIAG 345 345	ROCH 345 345	1	30.9%	54.8%	TRIP	21.7%	21.6%	19.6%	TRIP
	SUB-TOTALS			----- 75.7%	----- 70.5%	----- 53.1%	----- 85.0%	----- 86.4%	----- 46.2%
L33P-L34P				9.4%	11.3%	9.4%	4.8%	4.4%	20.7%
PJM-NYISO				14.6%	17.6%	34.9%	10.4%	9.5%	32.2%
	TOTALS		----- 72.3%	----- 99.6%	----- 99.5%	----- 97.4%	----- 100.2%	----- 100.2%	----- 99.1%

TABLE2

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	27.0%	TRIP	9.7%	18.6%	20.0%	O/S
PANNELL3 345	CLAY 345	2	27.1%	57.9%	9.7%	18.6%	20.1%	TRIP
STOLE230 230	MEYER230 230	1	9.0%	2.8%	TRIP	2.7%	7.7%	6.6%
MORTIMER 115	LAWLERTRIP 115	1	2.2%	2.5%	1.0%	4.0%	16.9%	6.0%
MORTIMER 115	LAWLER-2 115	1	2.3%	2.9%	0.8%	4.6%	4.0%	6.8%
S121 B#2 115	SLEIG115 115	1	2.1%	3.5%	1.8%	TRIP	11.1%	8.3%
PANNELLI 115	FRMGTN-4 115	1	2.5%	6.1%	8.2%	18.0%	TRIP	14.5%
STA 162 115	S.PER115 115	1	-0.2%	2.3%	21.4%	3.0%	6.4%	5.6%
QUAKER 115	MACDN115 115	1	0.2%	0.4%	0.3%	19.9%	2.6%	1.0%
	SUB-TOTALS			78.4%	52.8%	89.4%	88.8%	48.8%
L33P-L34P				8.4%	9.4%	3.4%	2.6%	19.9%
PJM-NYISO				13.0%	34.9%	6.4%	6.6%	30.9%
	TOTALS		72.3%	99.8%	97.1%	99.2%	98.1%	99.5%

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	18.5%	13.9%	TRIP	33.1%	19.5%	3.2%	0.2%	1.5%	2.6%	1.5%
MARCY T1 345	N.SCOT99 345	1	19.9%	14.8%	34.9%	TRIP	21.1%	3.5%	0.2%	1.6%	2.9%	1.6%
PORTER 2 230	ROTRDM.2 230	1	4.3%	TRIP	5.4%	5.5%	3.1%	0.7%	0.0%	0.4%	0.6%	0.3%
PORTER 2 230	ROTRDM.2 230	2	4.4%	34.1%	5.6%	5.6%	3.2%	0.8%	0.0%	0.4%	0.6%	0.4%
E.SPR115 115	INGHAM-E 115	1	0.8%	0.9%	-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%	9.8%	3.8%	3.8%	0.7%	0.4%	0.0%	0.2%	0.3%	0.2%
PLAT T#3 115	GRAND IS 115	1	2.9%	2.7%	2.4%	2.5%	1.5%	0.6%	0.0%	0.3%	0.5%	0.3%
FRASR345 345	GILB 345 345	1	15.6%	9.3%	22.9%	23.5%	TRIP	3.4%	0.1%	2.3%	3.6%	1.2%
BRANCHBG 500	RAMAPO 5 500	1		1.9%	3.2%	3.3%	2.9%	TRIP	2.9%	7.3%	20.8%	25.3%
COOPC345 345	SHOEMTAP 345	1	16.1%	3.8%	6.8%	7.2%	18.3%	4.8%	0.3%	0.3%	1.5%	3.5%
COOPC345 345	ROCK TAV 345	2	17.0%	3.7%	6.7%	7.0%	17.8%	4.4%	0.4%	0.4%	1.6%	3.2%
HUDSON2 345	FARRGUT2 345	1	0.0%	1.0%	1.6%	1.7%	2.1%	8.1%	2.8%	29.7%	19.2%	25.2%
HUDSON1 345	FARRGUT1 345	1	0.0%	1.0%	1.6%	1.7%	2.1%	8.0%	2.9%	TRIP	18.9%	25.8%
LINDEN 230	GOETHALS 230	1	0.0%	1.2%	2.1%	2.1%	2.4%	16.1%	1.3%	13.3%	TRIP	11.4%
WALDWICK 345	SMAHWAH1 345	1	-0.2%	0.8%	1.4%	1.4%	0.8%	22.9%	88.8%	21.6%	13.6%	O/S
WALDWICK 345	SMAHWAH2 345	1	0.2%	0.8%	1.4%	1.4%	1.0%	22.7%	TRIP	20.7%	13.0%	TRIP
TOTALS			99.5%	99.7%	99.6%	99.6%	99.0%	99.9%	100.0%	99.9%	99.9%	100.0%

TABLE4
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%	-11.4%	15.2%	15.9%	21.8%	9.7%	8.6%	TRIP
PLTVLLEY 345	MILLWOOD 345	1	17.4%	TRIP	8.8%	3.0%	12.7%	2.9%	1.8%	-8.9%
PLTVLLEY 345	FISHKILL 345	1	7.9%	23.9%	TRIP	-0.5%	-7.2%	1.1%	0.6%	32.2%
PLTVLLEY 345	FISHKILL 345	2	7.9%	23.9%	66.5%	-0.5%	-7.2%	1.1%	0.6%	32.2%
PLTVLLEY 345	WOOD B 345	1	17.1%	35.2%	9.2%	3.0%	12.2%	2.9%	1.8%	-8.6%
RAMAPO 345	BUCH N 345	1	13.5%	3.2%	-0.2%	TRIP	41.9%	16.9%	16.7%	13.1%
LADENTWN 345	BUCH S 345	1	13.4%	17.7%	-3.7%	55.2%	TRIP	24.5%	24.6%	23.8%
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%	0.8%	0.9%	0.6%	0.5%	6.2%
	SUB-TOTALS			92.8%	98.2%	77.1%	75.7%	60.1%	55.7%	90.8%
LINDEN-GOETH				1.0%	0.1%	5.6%	6.1%	TRIP	13.3%	2.7%
HUDSON-FAR1				0.9%	0.1%	7.7%	8.6%	19.2%	29.7%	3.3%
HUDSON-FAR2				0.9%	0.1%	7.9%	8.8%	18.9%	TRIP	3.4%
NORHBR-NRPRT				4.4%	1.4%	1.8%	0.8%	1.9%	1.4%	-0.1%
	TOTALS			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%	14.8%	0.3%	0.4%	2.0%	1.5%	0.5%	0.8%
DUN NO2R 138	S CREEK 138	1	0.0%	15.0%	0.3%	0.4%	2.1%	1.5%	0.5%	0.8%
DUN SO1R 138	E179 ST 138	1	0.0%	24.1%	0.4%	0.7%	3.3%	2.4%	0.8%	1.2%
DUNWODIE 345	RAINEY 345	3	23.8%	7.9%	23.9%	TRIP	9.4%	3.2%	43.3%	O/S
DUNWODIE 345	RAINEY 345	4	23.8%	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	0.0%	TRIP	0.8%	0.7%	4.0%	3.3%	1.4%	1.2%
SPRBROOK 345	W 49 ST 345	1	16.2%	8.6%	TRIP	23.4%	4.3%	7.2%	O/S	42.9%
SPRBROOK 345	W 49 ST 345	2	16.2%	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%
SUB-TOTALS				96.7%	95.7%	95.9%	86.6%	83.2%	92.2%	92.5%
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%
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	69.9%	TRIP	65.6%	43.9%	O/S
DENNISON 115	ANDRWS-4 115	1	2.2%	4.2%	0.8%	1.5%	3.6%
MOSES W 230	ADRON B1 230	1	8.9%	18.7%	3.2%	TRIP	TRIP
MOSES W 230	ADRON B2 230	1	8.9%	18.7%	3.2%	36.3%	48.5%
DENNISON 115	LWRNCE-B 115	1	2.2%	4.2%	0.8%	1.5%	3.6%
ALCOA-NM 115	BRADY 115	1	1.1%	2.0%	0.4%	0.7%	1.7%
ALLENS F 115	COLTON 115	1	1.0%	1.9%	0.3%	0.7%	1.7%
	SUB-TOTALS			49.7%	74.3%	84.7%	59.2%
MOSES-L33P				6.2%	1.6%	2.1%	5.3%
MOSES-L34P				6.2%	1.6%	2.1%	5.3%
MOSES-WILLE				22.5%	12.9%	6.7%	18.0%
MOSES-WILLW				17.3%	9.9%	5.1%	13.9%
	TOTALS		94.1%	101.9%	100.3%	100.7%	101.7%

TABLE 7

DISTRIBUTION FACTORS FOR NYISO-ISON E CIRCUITS

FROM	TO		% Pickup CK 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	34.4%	TRIP	39.2%	21.3%	42.1%	36.5%	36.1%	17.4%	36.5%	36.5%
PLAT T#3 115	GRAND IS 115	1	4.5%	6.9%	4.1%	3.4%	6.0%	6.4%	6.3%	51.0%	6.4%	6.4%
HOOSICK 115	BNNINGTN 115	1	2.6%	9.8%	2.9%	1.6%	2.2%	2.6%	2.7%	0.9%	2.6%	2.6%
WHITEHAL 115	BLISSVIL 115	1	4.3%	10.3%	4.2%	2.4%	6.6%	5.2%	5.0%	6.7%	5.2%	5.2%
ROTRDM.2 230	BRSWAMP 230	1	7.0%	15.9%	7.1%	4.6%	6.4%	7.9%	8.0%	2.8%	7.9%	7.9%
PLTVLLEY 345	CTNY398 345	1	46.0%	43.2%	TRIP	45.0%	26.1%	29.7%	30.0%	14.7%	29.7%	29.7%
NRTHPT P 138	NORHR138 138	1	0.0%	12.5%	39.5%	20.6%	9.8%	10.8%	10.9%	6.1%	10.8%	10.8%
TOTALS			98.8%	98.6%	96.9%	98.8%	99.2%	99.1%	99.1%	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%	1.4%	1.4%	TRIP	63.4%	1.6%
STLAWL33 230	MOSES E 230	1	0.0%	1.1%	1.1%	57.1%	TRIP	1.2%
BECK B 345	NIAG 345 345	1	23.6%	33.7%	30.8%	8.6%	7.3%	TRIP
BECK A 345	NIAG 345 345	1	23.6%	33.6%	30.7%	8.6%	7.3%	52.6%
PA27 REG 230	NIAGAR2W 230	1	14.1%	TRIP	31.3%	5.2%	4.4%	23.2%
BP76 REG 230	PACKARD2 230	1	12.1%	26.0%	TRIP	4.4%	3.7%	17.6%
				-----	-----	-----	-----	-----
	SUB-TOTALS			95.8%	95.3%	83.8%	86.2%	96.2%
IMO-MICH				4.0%	4.5%	15.1%	12.8%	3.6%
			-----	-----	-----	-----	-----	-----
	TOTALS		73.4%	99.8%	99.7%	98.9%	99.0%	99.8%

TABLE 9

DISTRIBUTION FACTORS FOR PJM-NYISO CIRCUITS

		% Pickup of										
CK	Transfer	ERIE E - S RIPLEY	HMRCTY- STOLL	HMRCTY- WATER	E.TOWD- HILLS	BRBURG- RAMPO	WALDWK- SMAWA	HUDSON- FARGT	LINDEN- GOETH	WALDWK- SMAWA	HUDSON- FARGT	
S RIPLEY 230	1	14.0%	TRIP	22.1%	7.7%	4.7%	2.4%	0.1%	0.8%	1.6%	1.3%	1.1%
FALCONER 115	1	4.7%	21.4%	8.4%	1.8%	3.0%	0.8%	0.0%	0.3%	0.5%	0.5%	0.4%
STOLE345 345	1	9.2%	15.6%	TRIP	15.2%	2.0%	1.7%	0.1%	0.6%	1.1%	0.9%	0.8%
WATRC345 345	1	16.8%	6.6%	18.6%	TRIP	13.3%	3.7%	0.2%	1.2%	2.4%	2.0%	1.7%
HILSD230 230	1	16.4%	5.9%	3.5%	19.2%	TRIP	3.5%	0.2%	1.2%	2.3%	2.1%	1.8%
N.WAV115 115	1	6.2%	2.0%	1.4%	4.0%	31.3%	1.3%	0.1%	0.5%	0.9%	0.8%	0.7%
GOUDY115 115	1	5.1%	0.9%	0.7%	2.3%	12.2%	1.1%	0.1%	0.4%	0.7%	0.7%	0.6%
RAMAPO 5 500	1	0.0%	6.3%	6.4%	11.2%	7.4%	TRIP	2.9%	7.3%	20.8%	25.3%	10.5%
FARRGUT2 345	1	0.0%	2.3%	2.3%	3.9%	2.9%	8.1%	2.8%	29.7%	19.2%	25.2%	TRIP
FARRGUT1 345	1	0.0%	2.3%	2.3%	4.0%	2.9%	8.0%	2.9%	TRIP	18.9%	25.8%	O/S
GOETHALS 230	1	0.0%	3.3%	3.3%	5.7%	3.8%	16.1%	1.3%	13.3%	TRIP	11.4%	19.3%
SMAHWAH1 345	1	-0.1%	3.2%	3.2%	5.6%	4.2%	22.9%	88.8%	21.6%	13.6%	O/S	30.4%
SMAHWAH2 345	1	0.1%	3.0%	3.0%	5.2%	3.9%	22.7%	TRIP	20.7%	13.0%	TRIP	29.2%
SUB-TOTALS			72.9%	75.3%	85.8%	91.6%	92.4%	99.6%	97.5%	95.0%	95.9%	96.4%
			25.6%	23.2%	13.3%	7.9%	7.1%	0.4%	2.3%	4.7%	3.8%	3.3%
TOTALS		72.4%	98.5%	98.5%	99.1%	99.5%	99.5%	100.0%	99.8%	99.7%	99.7%	99.8%

TABLE 10A

GENERATION SHIFT FACTORS WITH ALL PAR'S HOLDING MW FLOW

	WEST - CENTRAL	UTICA - ALBANY	MARCY - SOUTH	CENTRAL - EAST	ONT - NYISO	ONTARIO - MICH	PJM - NYISO
ALBANY	0.3%	12.8%	-10.8%	15.1%	0.0%	0.1%	-0.1%
BB-RAMAPO	45.0%	39.9%	16.9%	43.5%	-100.0%	18.0%	-18.0%
BECK	-77.4%	-43.8%	-22.2%	-47.2%	0.0%	-90.6%	-9.4%
BOWEN	-48.7%	-40.3%	-17.5%	-43.9%	0.0%	-22.0%	22.0%
BOWLINE	0.0%	-1.2%	1.1%	-1.3%	0.0%	0.0%	0.0%
BRANDON	-46.5%	-40.0%	-17.1%	-43.6%	0.0%	-19.3%	19.2%
BRAYTON	0.3%	6.4%	-8.4%	11.3%	0.0%	0.1%	-0.1%
CONEMAUGH	-46.4%	-40.0%	-17.1%	-43.6%	0.0%	-18.5%	18.4%
DUNKIRK	-67.7%	-42.2%	-20.1%	-45.7%	0.0%	-2.5%	2.5%
EDDYSTON	-45.2%	-39.9%	-17.0%	-43.5%	0.0%	-18.2%	18.2%
GILBOA	-0.3%	-0.3%	-1.5%	-1.2%	0.0%	-0.1%	0.1%
HATFIELD	-47.7%	-40.2%	-17.3%	-43.8%	0.0%	-19.9%	19.9%
HUDSON	-44.7%	-39.8%	-16.9%	-43.5%	0.0%	-17.9%	17.9%
HUNTLEY	-76.4%	-43.4%	-21.7%	-46.8%	0.0%	4.8%	-4.9%
INDIANPT2	0.0%	-0.9%	0.9%	-1.0%	0.0%	0.0%	0.0%
JEAMOS	-48.9%	-40.3%	-17.5%	-43.9%	0.0%	-22.0%	22.0%
LAMBTON	-69.1%	-42.8%	-20.9%	-46.2%	0.0%	-70.5%	-29.6%
MTSTORM	-47.7%	-40.2%	-17.3%	-43.8%	0.0%	-20.2%	20.2%
NEWTON	-49.4%	-40.4%	-17.6%	-43.9%	0.0%	-23.1%	23.1%
NIAGARA	-77.2%	-43.6%	-22.0%	-47.0%	0.0%	4.7%	-4.7%
NORWALK	0.2%	4.3%	-5.2%	6.8%	0.0%	0.1%	-0.1%
OSWEGO	2.7%	-48.9%	-29.0%	-51.9%	0.0%	0.9%	-0.9%
PORTLAND	-44.5%	-39.8%	-16.9%	-43.4%	0.0%	-17.8%	17.8%
ROSETON	0.0%	-0.2%	0.3%	-0.3%	0.0%	0.0%	0.0%
SALEM	-45.3%	-39.9%	-17.0%	-43.5%	0.0%	-18.3%	18.2%

TABLE 10B

GENERATION SHIFT FACTORS WITH PAR'S FREE FLOW

	WEST- CENTRAL	UTICA- ALBANY	MARCY- SOUTH	CENTRAL- EAST	BBURG- RAMAPO	IMO- NYISO	IMO MICH	PJM- NYISO
ALBANY	4.3%	16.0%	-8.6%	20.7%	-1.5%	4.5%	-4.2%	-4.5%
BB-RAMAPO	7.8%	8.2%	5.1%	9.4%	-100.0%	7.6%	-7.1%	-7.6%
BECK	-44.9%	-27.2%	-15.2%	-30.9%	-10.4%	-77.4%	-21.3%	-22.6%
BOWEN	-15.1%	-14.8%	-6.8%	-17.0%	-18.2%	-18.3%	16.7%	-81.6%
BOWLINE	-0.2%	-1.2%	0.8%	-1.4%	4.4%	-0.2%	0.2%	0.3%
BRANDON	-10.7%	-11.6%	-4.9%	-13.3%	-20.3%	-11.2%	10.4%	-88.8%
BRAYTON	3.0%	9.2%	-6.0%	14.9%	-0.9%	3.6%	-3.3%	-3.5%
CONEMAUGH	-11.3%	-12.4%	-5.2%	-14.2%	-19.7%	-10.5%	9.9%	-89.4%
DUNKIRK	-37.6%	-22.9%	-11.9%	-26.1%	-12.6%	7.2%	-6.8%	-7.2%
EDDYSTONE	-7.1%	-8.6%	-3.1%	-9.8%	-22.4%	-6.9%	6.5%	-93.0%
GILBOA	4.5%	4.8%	1.3%	4.5%	-1.6%	4.1%	-3.9%	-4.1%
HATFIELD	-13.5%	-13.8%	-6.1%	-15.9%	-18.7%	-14.1%	13.2%	-85.9%
HUDSON	-1.9%	-2.8%	-0.5%	-3.2%	-5.4%	-1.8%	1.7%	-98.1%
HUNTLEY	-46.6%	-26.4%	-14.4%	-29.9%	-10.7%	16.5%	-15.5%	-16.5%
INDIANPT2	-0.1%	-0.9%	0.6%	-1.1%	3.5%	-0.2%	0.1%	0.2%
JEAMOS	-15.5%	-15.1%	-7.0%	-17.3%	-18.0%	-18.5%	17.2%	-81.5%
LAMBTON	-24.5%	-21.0%	-11.2%	-24.2%	-14.3%	-43.7%	-55.9%	-56.3%
MTSTORM	-13.2%	-13.5%	-5.9%	-15.5%	-19.0%	-14.3%	13.3%	-85.7%
NEWTON	-16.3%	-15.6%	-7.3%	-17.9%	-17.6%	-20.8%	18.9%	-79.1%
NIAGARA	-48.3%	-26.9%	-14.8%	-30.5%	-10.4%	16.2%	-15.3%	-16.2%
NORWALK	1.3%	3.6%	-1.8%	5.2%	0.1%	1.5%	-1.4%	-1.4%
OSWEGO	13.0%	-37.8%	-23.7%	-41.7%	-5.0%	8.8%	-8.3%	-8.8%
PORTLAND	-5.4%	-7.2%	-2.4%	-8.3%	-17.5%	-5.2%	4.9%	-94.7%
ROSETON	1.7%	1.6%	1.3%	1.7%	0.9%	1.6%	-1.5%	-1.5%
SALEM	-7.1%	-8.6%	-3.2%	-9.9%	-22.4%	-7.0%	6.6%	-92.9%

This page is intentionally left blank

APPENDIX F

ANNOTATED TLTG OUTPUT

This Section Is Available
On Computer Diskette If Requested

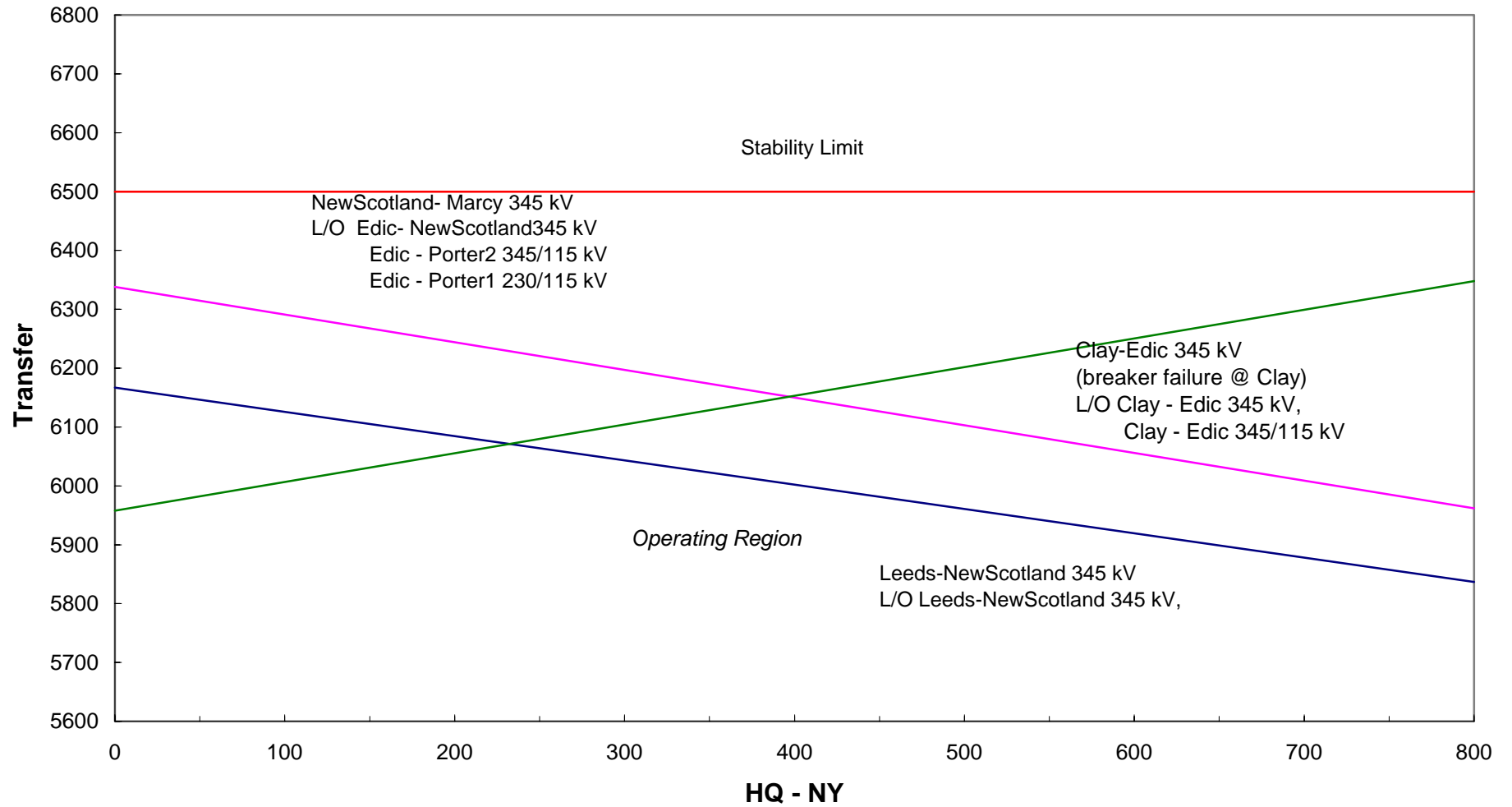
This page is intentionally left blank

APPENDIX G
TRANSFER LIMIT SENSITIVITY GRAPHS

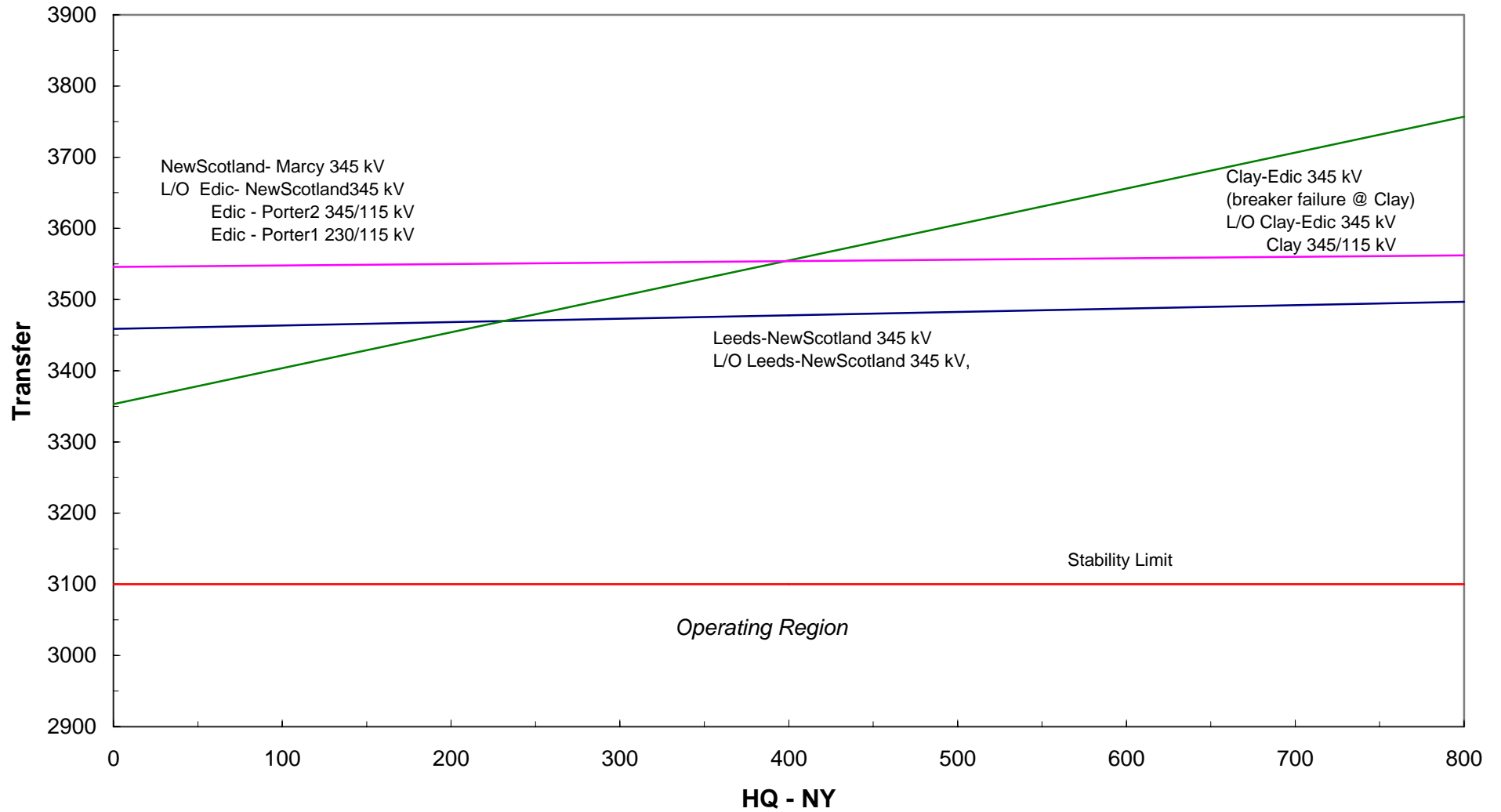
INDEX

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. Moses South vs HQ Export to New York	.....	G-7
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
9. NY-NE vs Norwalk-Northport Par flow for Normal Transfer	.....	G-10
10. NY-NE vs Norwalk-Northport Par flow for Emergency Transfer	.....	G-11
11. NYISO-IMO (ONTARIO) Transfer vs L33 & L34	.....	G-12
12. IMO (ONTARIO)-NYISO Transfer vs L33 & L34	.....	G-13

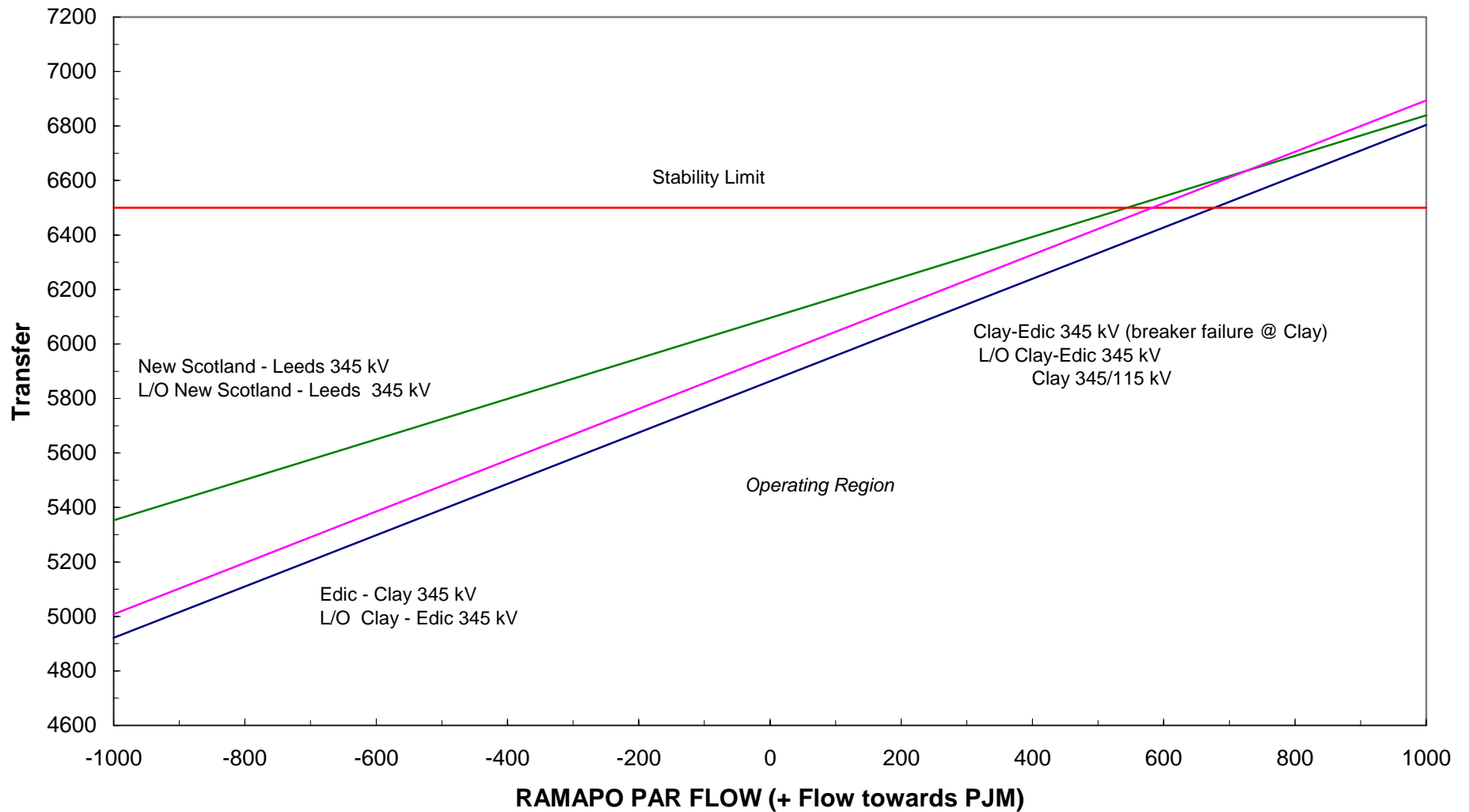
Total East vs. HQ
For Normal Transfer Criteria
Winter 2003



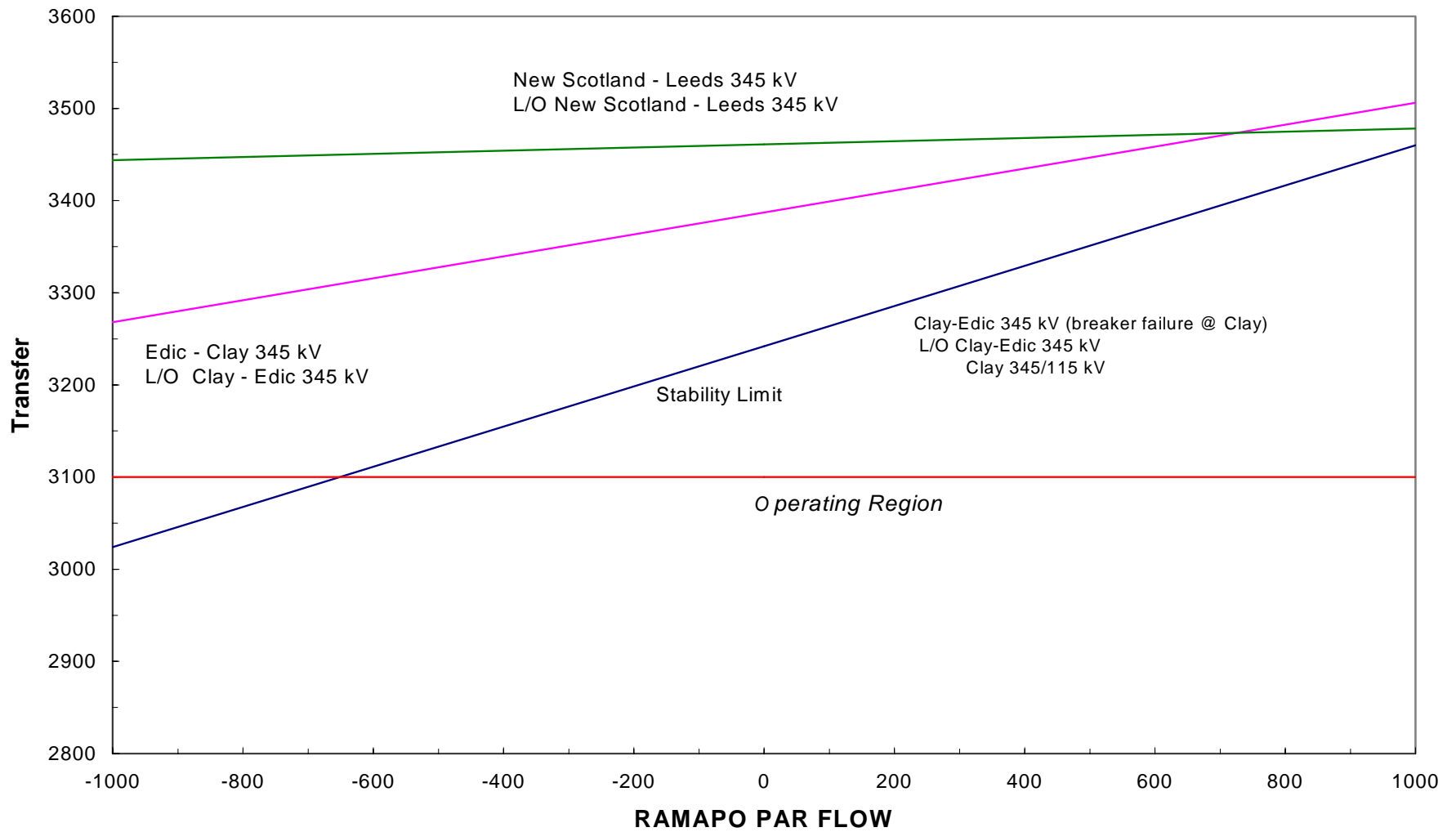
Central East vs. HQ For Normal Transfer Criteria Winter 2003



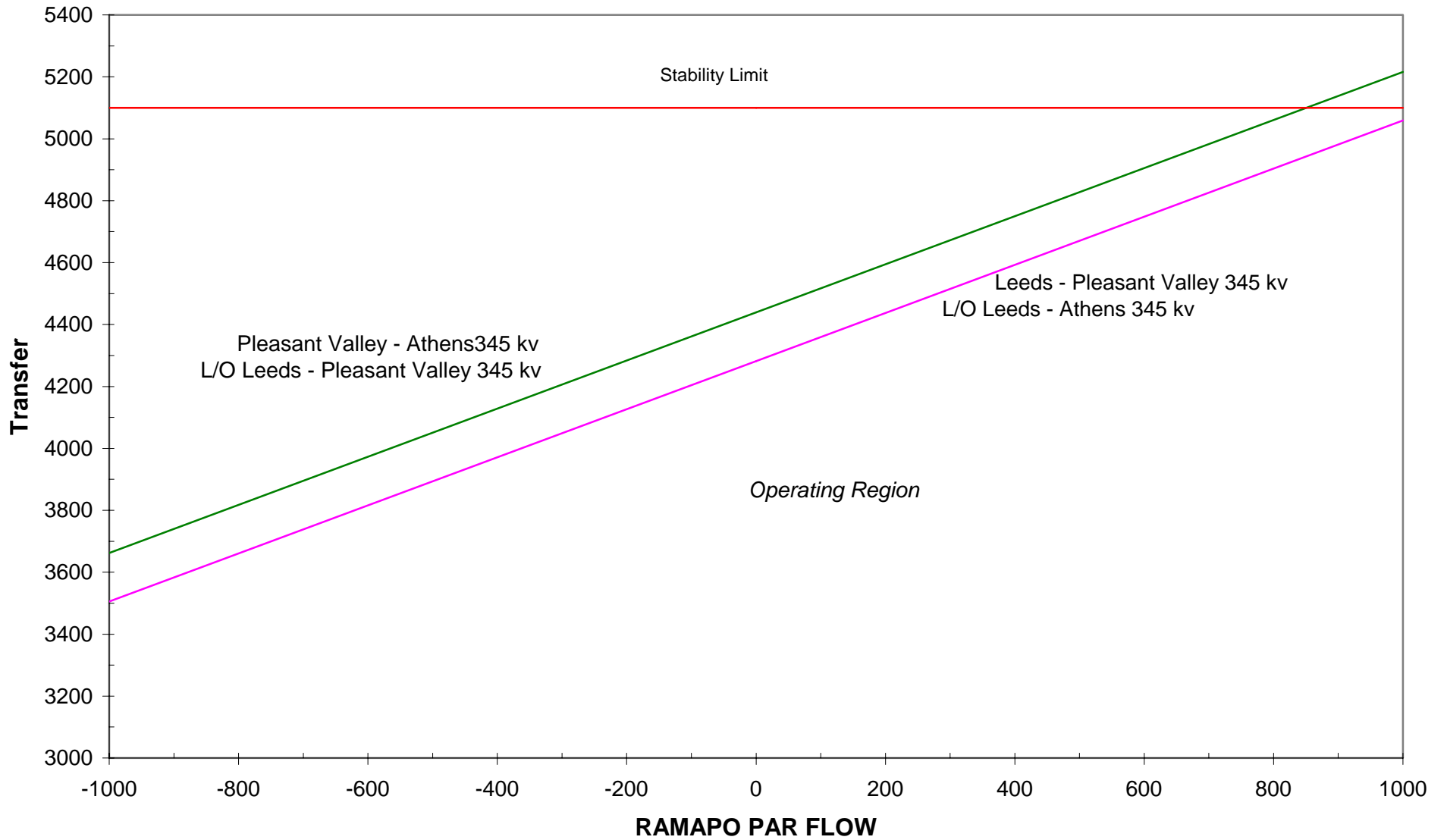
Total East vs. RAMAPO PAR Flow For Normal Transfer Criteria Winter 2003



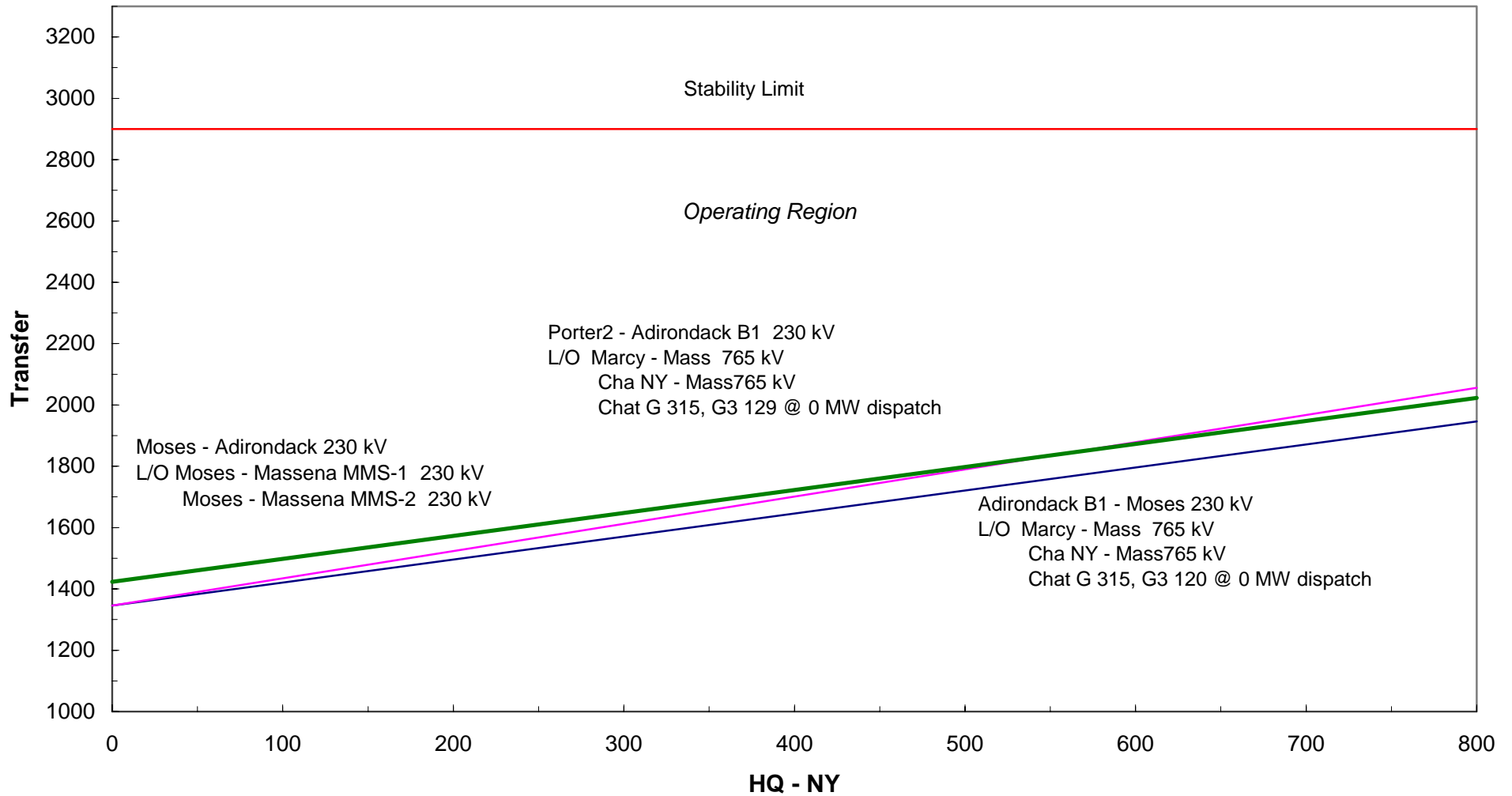
Central East vs. RAMAPO PAR Flow
For Normal Transfer Criteria
Winter 2003



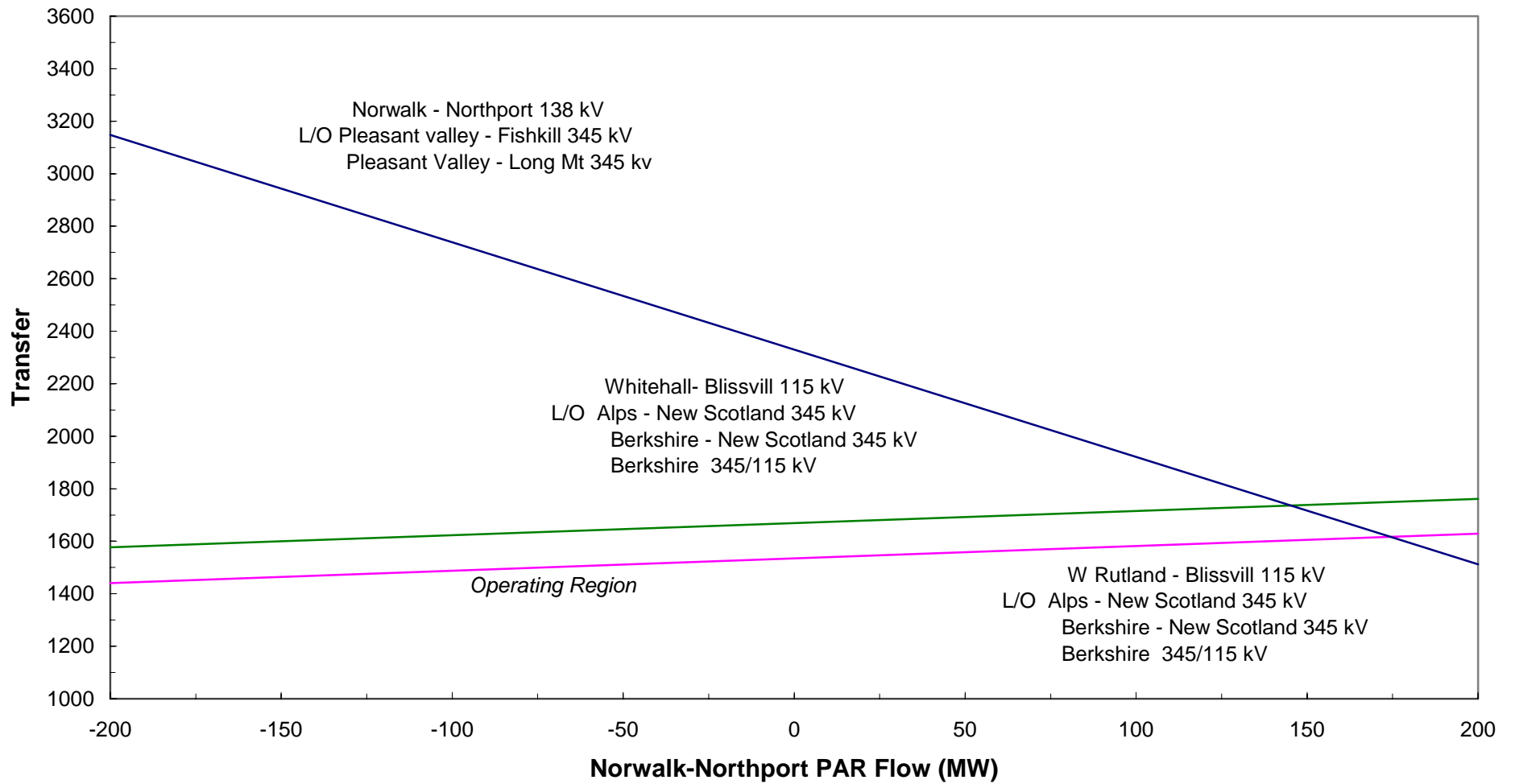
UPNY CONED vs. RAMAPO PAR Flow
For Normal Transfer Criteria
Winter 2003



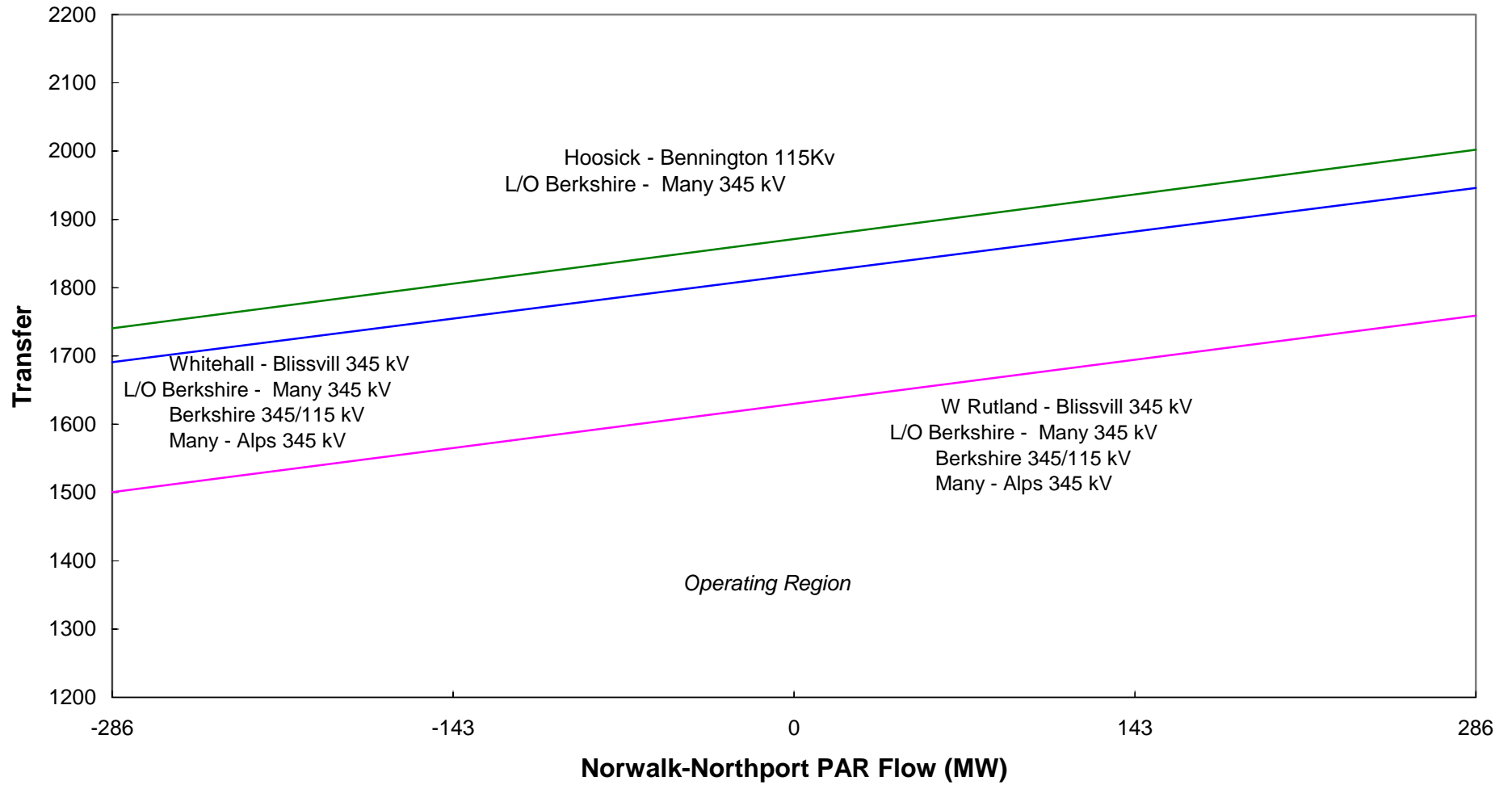
Moses South vs. HQ Export to New York For Normal Transfer Criteria Winter 2003



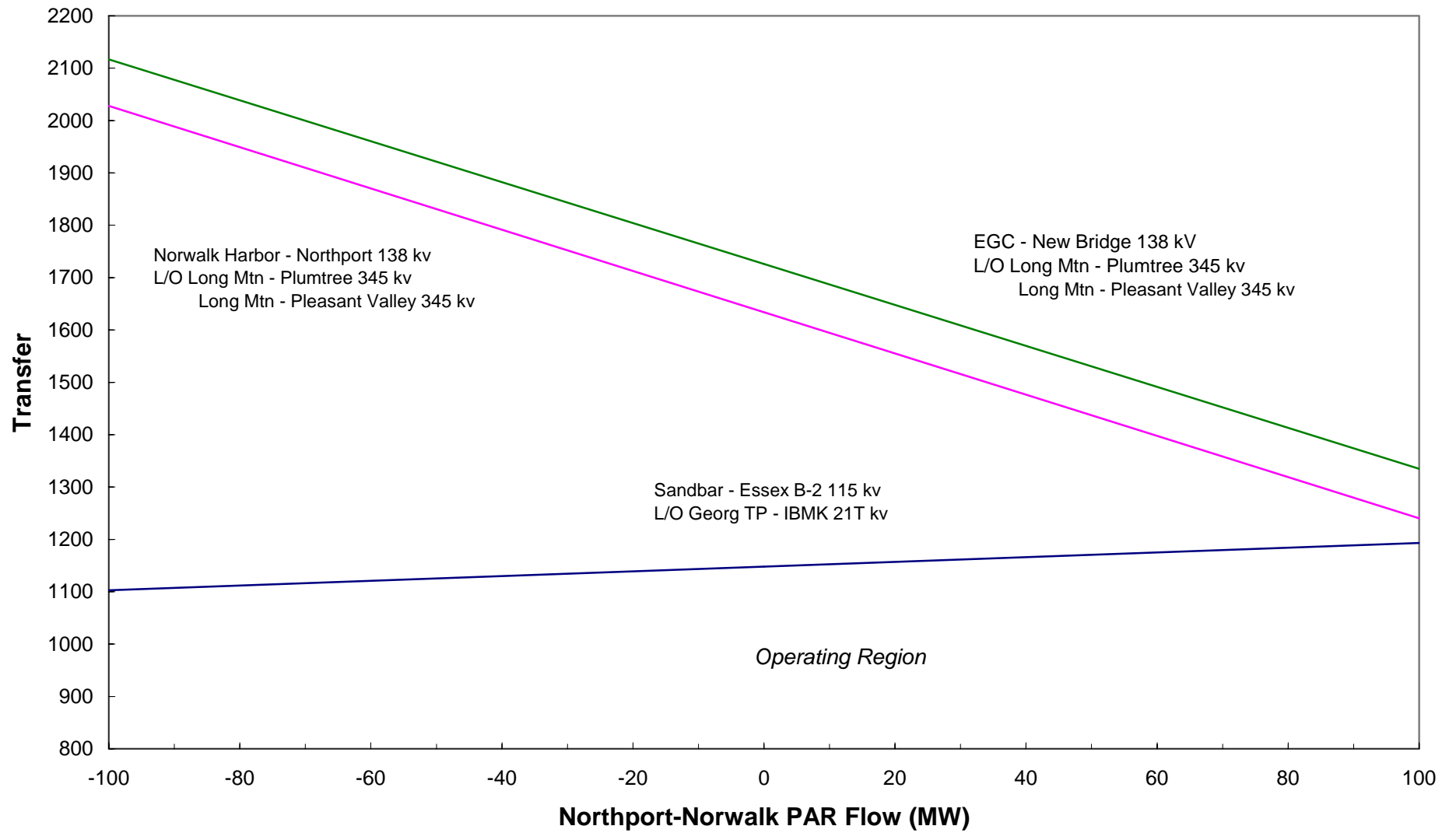
NE-NY vs. NORWALK-NORTHPORT PAR Flow
For Normal Transfer Criteria
Winter 2003



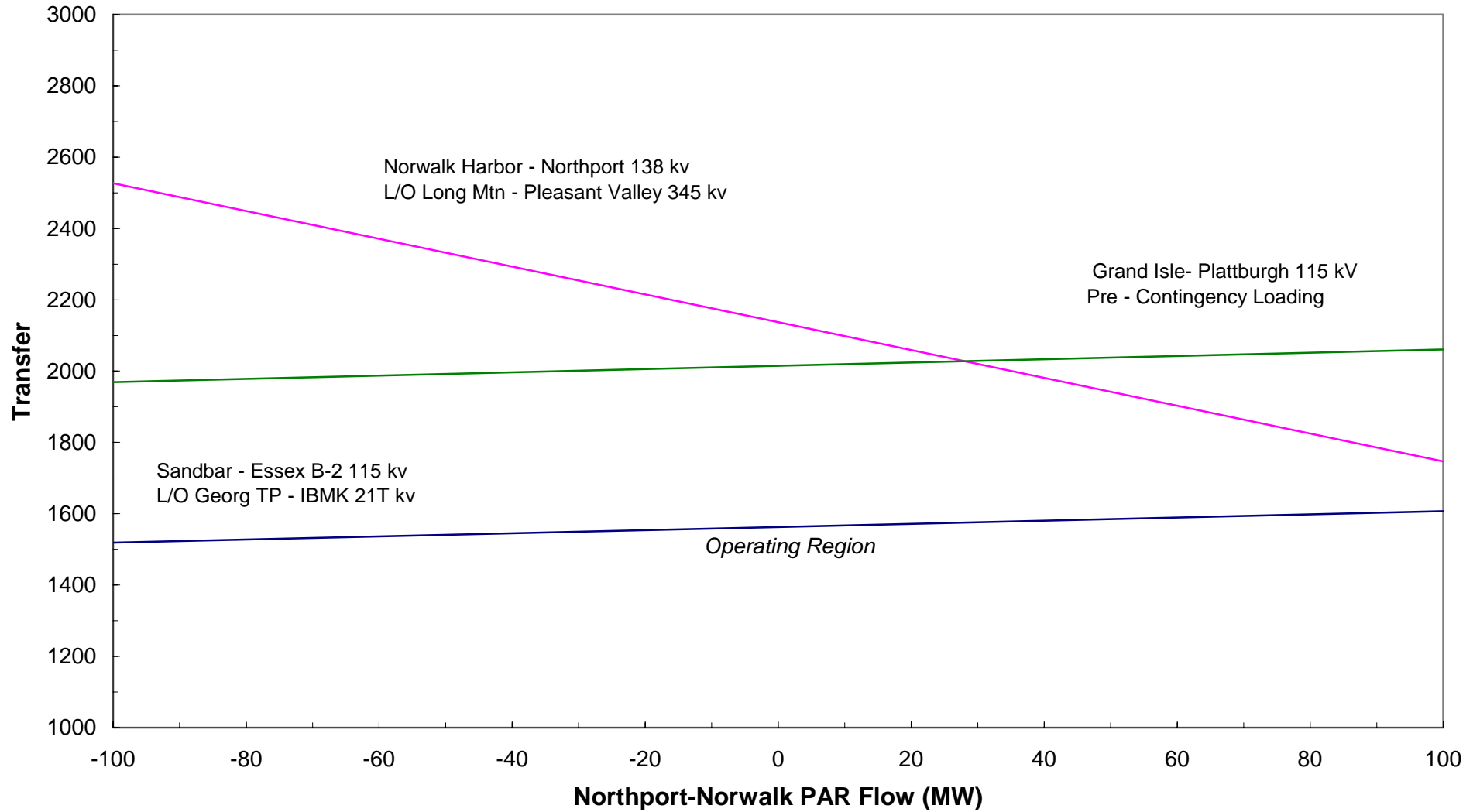
NE-NY vs. NORWALK-NORTHPORT PAR Flow
For Emergency Transfer Criteria
Winter 2003



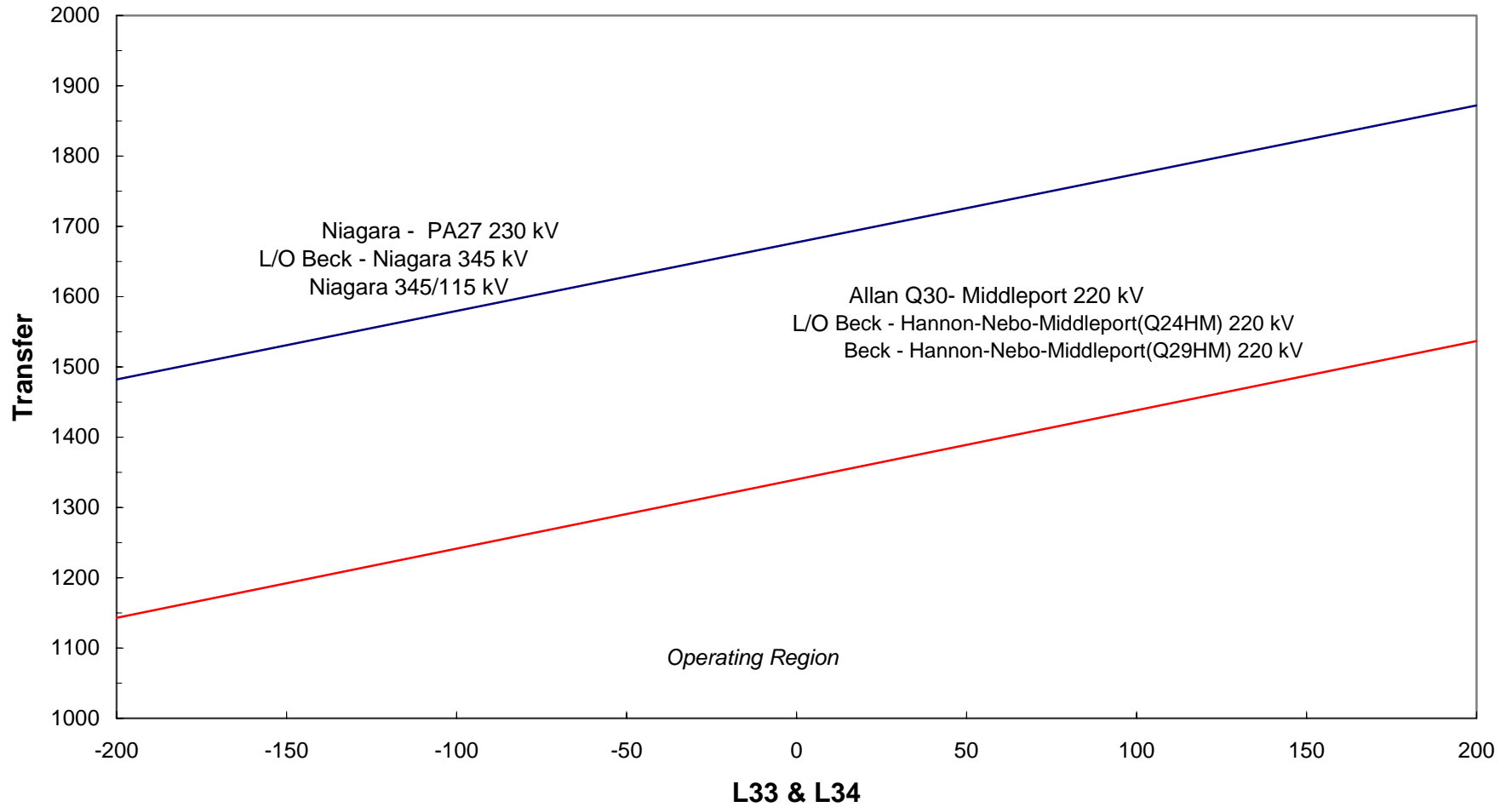
NY-NE vs. NORTHPORT-NORWALK PAR Flow
For Normal Transfer Criteria
Winter 2003



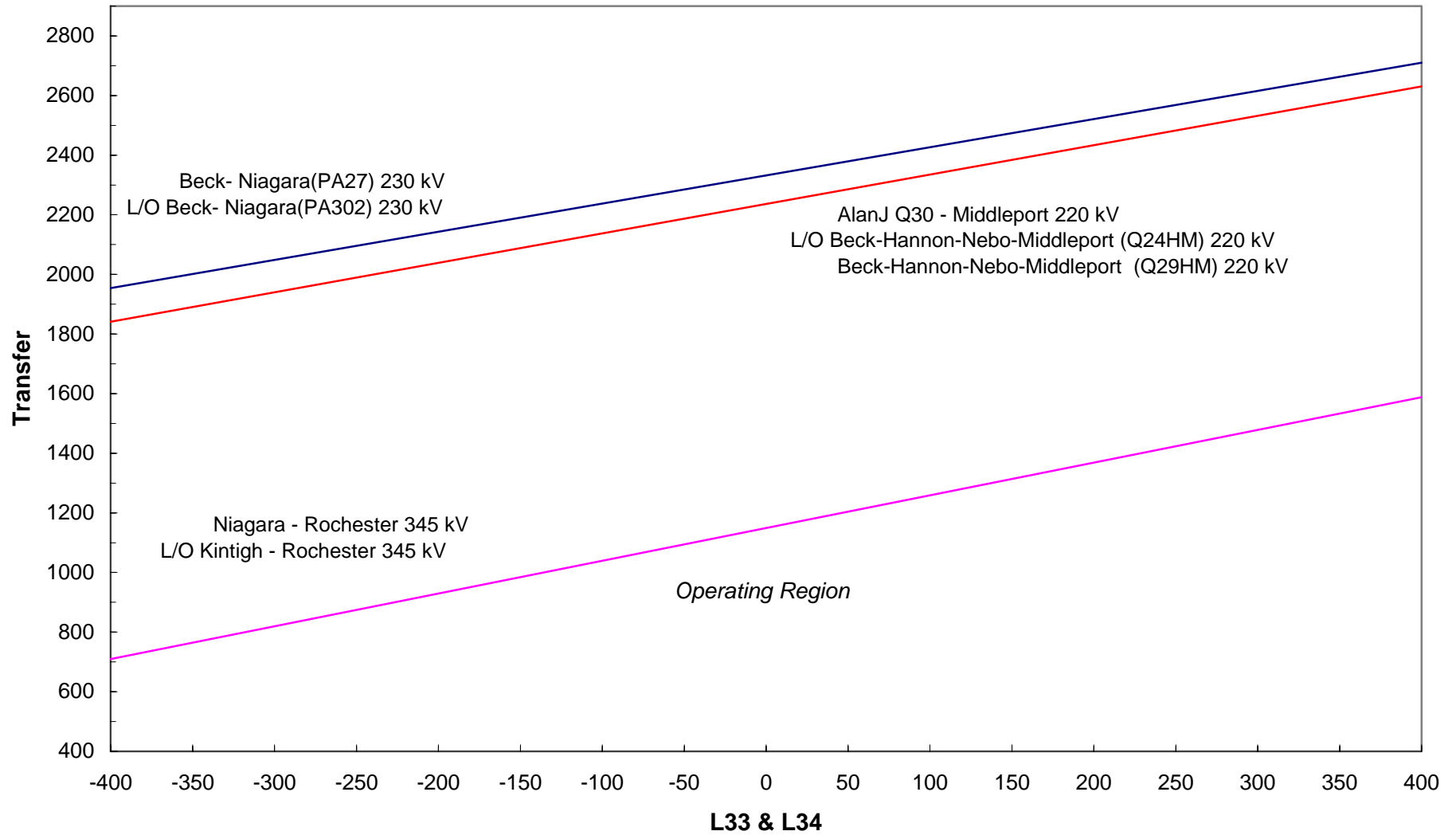
NY-NE vs. NORTHPORT-NORWALK PAR Flow
For Emergency Transfer Criteria
Winter 2003



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



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



APPENDIX H

**COMPARISON OF TRANSFER LIMITS
WINTER 2003-04 vs. WINTER 2002-03**

Comparison of WINTER 2003-04 to WINTER 2002-03 Thermal Limits

		WINTER 2003-04		WINTER 2002-03		DELTA
Interface	Rating	Limit (MW)	Contingency	Limit (MW)	Contingency	
Dysinger East	Normal	3350	1	3325	1	25
	Emergency	3625	2	3600	2	25
West Central	Normal	2425	3	2650	3	-225
	Emergency	2475	4	2700	4	-225
UPNY - ConEd	Normal	4350	5	4725	5	-375
	Emergency	4800	6	5175	6	-375
SprBk/Dun-South	Normal	3775	7	3425	17	350
	Emergency	4050	8	4025	8	25
Con Ed - LIPA	Normal	900	11	975	9	-75
	Emergency	1375	10	1500	10	-125
Central East HQ ----> NY 400 MW	Normal	3475	12	3350	12	125
	Emergency	3600	4	3400	4	200
HQ ----> NY 0 MW	Normal	3350	3	3200	3	150
	Emergency	3375	4	3250	4	125
Total East HQ ----> NY 400 MW	Normal	6000	12	5975	12	25
	Emergency	6225	4	6100	13	125
HQ ----> NY 0 MW	Normal	5950	3	5750	3	200
	Emergency	6025	4	5850	4	175
Moses - South HQ ----> NY 400 MW	Normal	1625	15	1675	14	-50
	Emergency	2650	16	2275	16	375
HQ ----> NY 0 MW	Normal	1325	14	1325	14	0
	Emergency	2175	16	2175	16	0

NYISO WINTER 2003-04 CROSS-STATE THERMAL LIMIT CONTINGENCY LIST

	<u>Limiting Element</u>				<u>Contingency</u>
(1)	Niagara - Rochester (NR-2) 345kV	@LTE	1745 MW	L/O	AES/Somerset - Rochester (SR-1) 345kV
(2)	Niagara - Rochester (NR-2) 345kV	@STE	1904 MW	L/O	AES/Somerset - Rochester (SR-1) 345kV
(3)	Clay – Edic 345kV	@LTE	1434 MW	L/O	Clay – Edic 345kV Clay 345/115kV
(4)	Clay – Edic 345kV	@STE	1434 MW	L/O	Clay – Edic 345kV
(5)	Leeds - Pleasant Valley (92) 345kV	@LTE	1783 MW	L/O	Leeds - Pleasant Valley (91) 345kV
(6)	Leeds - Pleasant Valley (92) 345kV	@STE	1912 MW	L/O	Athens - Pleasant Valley (91) 345kV
(7)	Dunwoodie - Rainey 345 kV	@SCUC	992 MW	L/O	Dunwoodie – Rainey 345kV
(8)	Dunwoodie - Rainey 345 kV	@STE	1113 MW	L/O	Dunwoodie – Rainey 345kV
(9)	Dunwoodie – Shore Rd. 345 kV	@LTE	925 MW	L/O	Sprain Brook – E.G.C. 345 kV
(10)	Dunwoodie – Shore Rd. 345 kV	@NOR	664 MW	L/O	Pre-Contingency Loading
(11)	Sprain Brook – E.G.C. 345 kV	@LTE	940 MW	L/O	Dunwoodie – Shore Rd. 345 kV
(12)	New Scotland - Leeds (93) 345kV	@LTE	1692 MW	L/O	New Scotland - Leeds (94) 345kV
(13)	Marcy – Coopers Corners 345kV	@STE	1345 MW	L/O	Fraser – Coopers Corners 345kV
(14)	Moses - Adirondack 230kV	@LTE	359 MW	L/O	Moses - Massena MMS-1 230kV Moses - Massena MMS-2 230kV
(15)	Moses - Adirondack 230kV	@LTE	359 MW	L/O	Marcy - Massena 765kV Chateauguay - Massena 765kV and Quebec delivery
(16)	Moses – Massena MMS-1 230kV	@STE	1404 MW	L/O	Moses - Massena MMS-2 230kV
(17)	Dunwoodie - Rainey 345 kV	@LTE	871 MW	L/O	Dunwoodie – Rainey 345kV

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	4/1796
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