

Appendices

A. SCHEDULE OF SIGNIFICANT INTERCHANGES ASSUMED FOR TRANSFER LIMITS STUDIES

SUMMARY OF NET INTERCHANGE SCHEDULES

TO FROM	NYISO	PJM	IESO	ISONE	NB/NS	Trans Énergie	Cross- Sound	Neptune- HVdc	Linden VFT	HTP	NNC Transfer	Other Control Areas	TOTAL EXPORT+ IMPORT-
NYISO		36	0	88	0	-602	-330	-660	-300	-0	-100	121	-1747
PJM	-36		0	0	0	0	0	660	300	0	0	-119	805
IESO	0	0		0	0	-1250	0	0	0	0	0	0	-1250
ISONE	-88	0	0		0	-900	330	0	0	0	100	0	-558
NB/NS	0	0	0	0		-254	0	0	0	0	0	0	-254
Trans Énergie	602	0	1250	900	254		0	0	0	0	0	45	3051

APPENDIX A
SUMMARY OF WINTER 2014-15 BASE TRANSFERS

NEW BRUNSWICK/NOVA SCOTIA	
New Brunswick to TransÉnergie: Madawaska and Eel River HVdc	-254
New Brunswick to New England	0
Total Export (+) / Import (-)	-254

NEW ENGLAND	
New England to New Brunswick	0
New England to TransÉnergie: Sandy Pond HVdc	-700
New England to TransÉnergie: Vermont	-200
New England to New York	-88
New England to NY: Norwalk Harbor-Northport	100
New England to NY: Cross-Sound	330
Total Export (+) / Import (-)	-558

NEW YORK ISO	
New York to TransÉnergie	-602
New York to New England	88
New York to New England: Norwalk Harbor-Northport	-100
New York to New England: Cross-Sound	-330
New York to PJM: NYPA to PA-RECS	73
New York to PJM: Sithe Allegheny	-37
New York to PJM: Non-Firm Energy	0
New York to PJM: Linden VFT	-300
New York to PJM: Neptune HVdc	-660
New York to PJM: HTP	0
New York to MISO: NYPA to AMP- Ohio	121
New York to IESO (Ontario)	0
Total Export (+) / Import (-)	-1747

APPENDIX A
SUMMARY OF WINTER 2014-15 BASE TRANSFERS

IESO (Ontario)	
IESO to TransÉnergie	-1250
IESO to New York	0
IESO to PJM	0
IESO to MISO	0
Total Export (+) / Import (-)	-1250

PJM	
PJM to New York: NYPA to PA-RECS	-73
PJM to New York: Sithe Allegheny	37
PJM to New York: Non Firm Energy	0
PJM to New York: Neptune HVdc	660
PJM to New York: Linden VFT	300
PJM to New York: HTP	0
Miscellaneous Transfers to Other Areas	-119
Total Export (+) / Import (-)	805

TRANSÉNERGIE	
TransÉnergie to New Brunswick: Madawaska and Eel River HVdc	254
TransÉnergie to New England: Sandy Pond HVdc	700
TransÉnergie to New England: Vermont	200
TransÉnergie to New York	602
TransÉnergie to IESO (Ontario)	1250
TransÉnergie to Cornwall	45
Total Export (+) / Import (-)	3051

B. WINTER 2014-15 BASE CASE CONDITIONS

Winter 2014-15 Conditions

GENERATION FACILITIES (LEVEL OF GENERATION IN CASE)

The status and dispatch of gross generation levels represented in this analysis is listed below.

NYISO

Huntley	264 MW	In Service
Dunkirk	75 MW	In Service
Niagara	2684 MW	In Service
AES/Somerset	683 MW	In Service
Ginna	583 MW	In Service
Sithe/Independence	999 MW	In Service
Oswego #5	166 MW	In Service
Oswego #6	0 MW	Out of Service
Nine Mile Pt #1	636 MW	In Service
Nine Mile Pt #2	1301 MW	In Service
J.A. Fitzpatrick	848 MW	In Service
Maple Ridge Wind Farm	97 MW	In Service
St. Lawrence/FDR (17-32)	553 MW	In Service
Athens	675 MW	In Service
Bethlehem Energy Center	503 MW	In Service
Empire	440 MW	In Service
Gilboa	373 MW	In Service
Bowline Pt 1	386 MW	In Service
Bowline Pt 2	0 MW	Out of Service
Roseton 1	567 MW	In Service
Roseton 2	205 MW	In Service
Indian Pt #2	1029 MW	In Service
Indian Pt #3	1044 MW	In Service
Astoria Energy II	500 MW	In Service
Bayonne Energy Center	400 MW	In Service
ConEd Astoria Units (Astoria 3)	352 MW	In Service
NYPA Astoria Combined-Cycle	292 MW	In Service
Ravenswood #3	0 MW	Out of Service
ECP/Linden Cogen	378 MW	In Service
Arthur Kill #3	192 MW	In Service

Northport 1	100 MW	In Service
Northport 2	0 MW	Out of Service
Northport 3	0 MW	Out of Service
Northport 4	0 MW	Out of Service

ISO-NE

Millstone Point #2	934 MW	In Service
Millstone Point #3	1276 MW	In Service
Vermont Yankee	0 MW	Retired
Northfield 1, 2, 3 & 4	0 MW	Out of Service
Bear Swamp 1 & 2	0 MW	Out of Service
Norwalk Harbor 1 & 2	0/0 MW	Out of Service
Seabrook	1310 MW	In Service

Ontario

Beck 1	346 MW	In Service
Beck 2	1120 MW	In Service
Thorold	228 MW	In Service
Decew Falls	80 MW	In Service
Bruce A	1561 MW	In Service
Bruce B	3288 MW	In Service
Darlington	3639 MW	In Service
Lambton	0 MW	Out of Service
Pickering A	415 MW	In Service
Pickering B	1919 MW	In Service
Nanticoke	0 MW	Out of Service
Saunders	673 MW	In Service

PJM

Peach Bottom #2	1145 MW	In Service
Peach Bottom #3	1186 MW	In Service
Salem #1	1174 MW	In Service
Salem #2	1150 MW	In Service
Limerick #1	1100 MW	In Service
Limerick #2	1195 MW	In Service
Hope Creek	1170 MW	In Service

Susquehanna #1	1335 MW	In Service
Susquehanna #2	1210 MW	In Service

TransÉnergie HVdc CONVERTER SCHEDULES

Chateauguay HVdc	127 MW	In Service
Sandy Pond HVdc	700 MW	In Service
Highgate HVdc	199 MW	In Service
Madawaska HVdc	0 MW	Out of Service
Eel River HVdc	0 MW	Out of Service

AREA LOADS & LOSSES

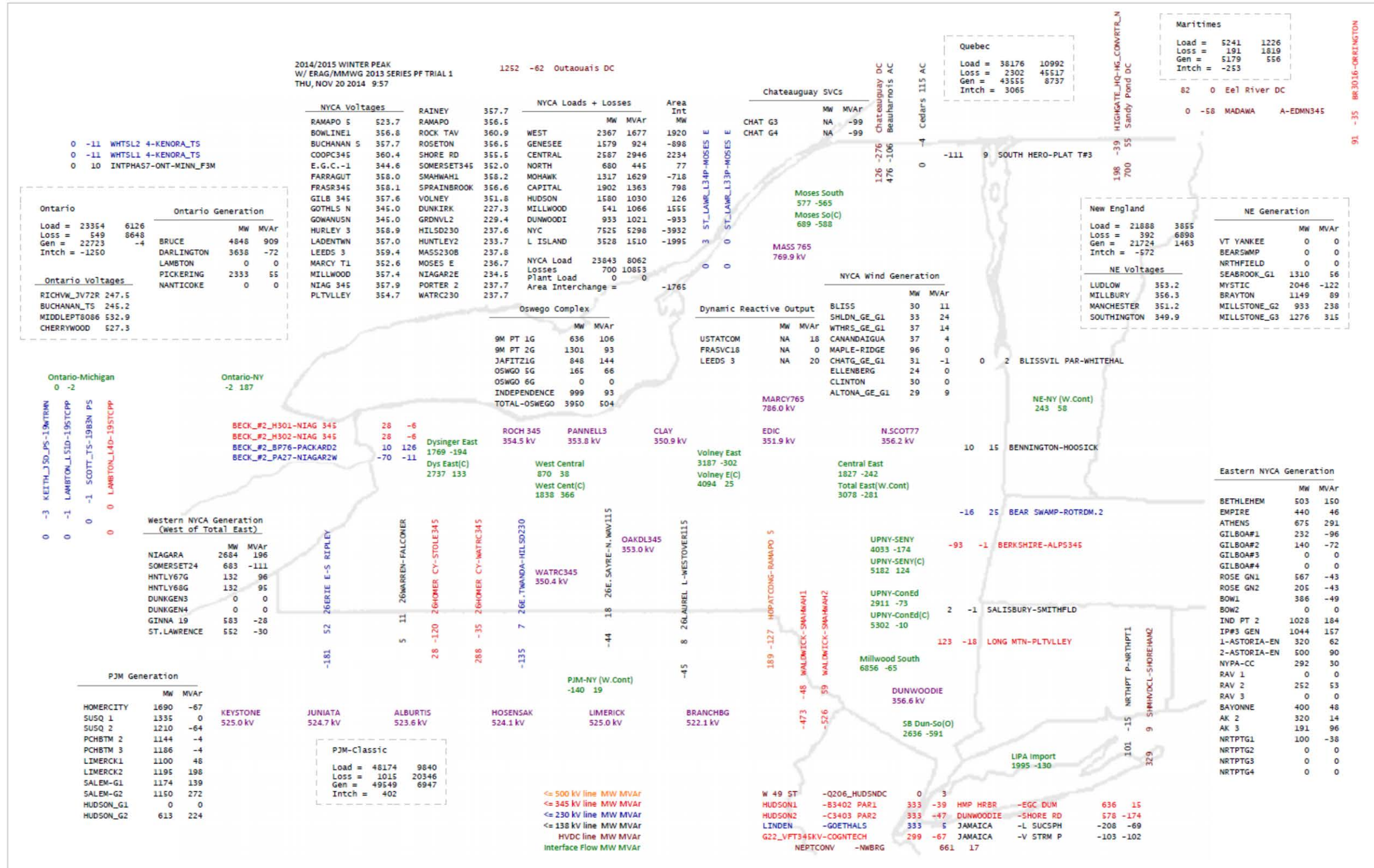
NYISO	24,543 MW
ISO-NE	22,280 MW
IESO (Ontario)	23,604 MW
PJM	48,949 MW

PHASE ANGLE REGULATOR SCHEDULES

Inghams (CD-ED)	120 MW
Sandbar PAR (PV-20)	100 MW
St. Lawrence-Moses L33P	0 MW
St. Lawrence-Moses L34P	0 MW
Norwalk Harbor-Northport	100 MW
Jamaica-Valley Stream	-107 MW
Jamaica-Lake Success	-210 MW
Hudson-Farragut (B3402)	333 MW
Hudson-Farragut (C3403)	333 MW
Linden-Goethals	333 MW
Waldwick-Hinchmans	325 MW
Waldwick-Fairlawn	345 MW
Waldwick-Hillsdale	330 MW
Ramapo PAR #1 (+ to NY)	95 MW
Ramapo PAR #2 (+ to NY)	95 MW
East Garden City #1	320 MW
East Garden City #2	320 MW

C. POWER FLOW TRANSCRIPTION DIAGRAM

SYSTEM OVERVIEW



D. RATINGS OF MAJOR TRANSMISSION FACILITIES IN NEW YORK

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
ACADEMY__138A_138B_PAR1	PAR1	138	301	360	451	325751	150
ACADEMY__138A_138B_PAR8	PAR8	138	301	360	451	325750	150
ACADEMY__345_138_TR1	TR1	345	303	368	446	325753	150
ACADEMY__345_138_TR8	TR8	345	303	368	446	325752	150
ADIRNDCK-CHASLAKE_230_13	13	230	478	478	634	325233	3
ADIRNDCK-EDIC_PTR_230_12-AP	12-AP	230	478	478	634	25082	80
ALBANY__-GREENBSH_115_1	1	115	227	248	268	25860	85
ALBANY__-GREENBSH_115_2	2	115	227	248	268	25868	85
ALBANY__-TRINITY__115_5	5	115	214	256	317	25861	73
ALBANY__-TRINITY__115_9	9	115	159	178	258	25872	77
ALCOA__-DENNISON_115_12-AD	12-AD	115	213	234	251	25227	15
ALCOA__-NOGDNBRG_115_13-ANO	13-ANO	115	156	170	181	25230	23
ALCOA_PA-ALCOA__115_R8105	R8105	115	263	294	348	25202	38
AMAWALK_-MOHANSIC_115_995 U.G.	995UG	115	88	88	98	26481	11
AMAWALK_-MOHANSIC_115_996 U.G.	996UG	115	107	107	107	26480	12
AMERISTD-GARDNVLB_115_182-3	182-3	115	168	212	239	26015	62
ANDOVER_-PALMITER_115_157_932	157_932	115	97	117	119	25094	0
ARCADE__-HOMER_HL_115_151(167)	151-2	115	141	144	159	26452	35
ARSENAL_-REYNOLDS_115_31	31	115	156	170	181	26423	47
ASH_____-TEMPLE__115_9	9	115	207	233	233	26062	11
ASHLEYRD-MASONCR__115_909	909	115	189	207	221	25847	21
ASHLEYRD-PLATSBRG_115_700	700	115	179	179	239	25845	25
ASTANNEX_138A_138B_PAR1	PAR1	138	415	477	544	325848	0
ASTANNEX_345_138_TR1	TR1	345	320	390	468	325847	0
ASTANNEX-ASTORIAE_138_34091	34091	138	288	318	346	325849	0
ASTANNEX-E13THSTA_345_Q35L	Q35L	345	565	645	1595	25134	264
ASTANNEX-E13THSTA_345_Q35M	Q35M	345	565	645	1595	25142	235
ASTORIAE-ASTORIA3_138_34123	34123	138	299	335	400	25876	0
ASTORIAE-CORONA__138_34181	34181	138	195	249	378	25277	67
ASTORIAE-CORONA__138_34182	34182	138	195	249	378	25278	65
ASTORIAE-CORONA__138_34183	34183	138	195	249	378	25279	67
ASTORIAE-CORONA__138_34184	34184	138	195	249	378	25280	62
ASTORIAE-CORONA__138_34185	34185	138	195	249	378	25281	59
ASTORIAE-CORONA__138_34186	34186	138	195	249	378	25282	60
ASTORIAW-QUENBRDG_138_28241	28241	138	195	249	378	25315	94
ASTORIAW-QUENBRDG_138_28242	28242	138	195	249	378	25316	96
ASTORIAW-QUENBRDG_138_28243	28243	138	391	499	688	25317	176
ASTORIAW-QUENBRDG_138_28244	28244	138	413	557	688	25318	202
ATHENS__-PLSNTVLY_345_91	91	345	1624	1783	1946	25054	875
BAGATLRD-PILGRIM__138_564	564	138	572	628	698	325607	19
BAKER_ST-FALCONER_115_160-3	160-3	115	222	234	239	26513	3
BALLSTON-TAPBLSTN_115_302	302	115	141	144	165	325897	1
BARRETT__138A_138B_PAR	B_PAR	138	255	313	313	25590	125
BARRETT_-FREEPORT_138_459	459	138	193	281	313	26425	125
BATAVIA_-SBATAVIA_115_117	117	115	239	239	239	26017	48
BATH_____-MONTRFL__115_965	965	115	146	149	149	26163	11

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
BATH____-SPENCHIL_115_723	723	115	146	160	178	325797	52
BATNKILL-N.TROY__115_10	10	115	118	119	119	26474	17
BATTHILL-PYRITES__115_7-BHP	7-BHP	115	93	101	107	26065	18
BEAR SWP-ROTTRDAM_230_E205W	E205W	230	511	564	634	25030	16
BECK NM_-SWANROAD_115_BL 104	BL 104	115	199	199	199	25042	0
BECK____-NIAGARA__230_PA27	PA27	230	480	540	685	25025	70
BECK____-NIAGARA__345_PA301	PA301	345	1180	1469	1860	25040	29
BECK____-NIAGARA__345_PA302	PA302	345	1180	1469	1860	25041	29
BECK____-PACKARD__230_BP76	BP76	230	582	687	687	25024	10
BENNETT_-MORAINES__115_725	725	115	149	172	179	325858	62
BENNETT_-SPENCHIL_115_953	953	115	146	160	178	26164	36
BERKSHIR-ALPS____345_393	393	345	1601	1757	1912	25034	94
BERKSHIR-NORTHFLD_345_312	312	345	1345	1345	1793	25366	30
BERRY_RD-BAKER_ST_115_160-2	160-2	115	245	260	282	26512	17
BETHLHEM-ALBANY__115_18-BA	18-BA	115	388	427	474	26119	86
BIGTREE_-DAVIS_RD_115_904	904	115	179	197	213	25162	10
BIGTREE_-LANGNERD_115_903	903	115	179	197	213	326050	47
BLACKRVR-CLIMAX__115_1-BC	1-BC	115	141	144	159	26067	19
BLACKRVR-FORTDRUM_115_2-BF	2-BF	115	141	144	159	26068	23
BLACKRVR-LIGHTHSE_115_6	6	115	141	144	159	25506	14
BLISSVIL-WHITEHAL_115_K7	K7	115	239	239	239	25028	0
BLUE_CIR-PLSTVYCH_115_8-BP	8-BP	115	141	144	159	25498	43
BLUESTOR-PLSTVYCH_115_13-BP	13-BP	115	168	199	233	25505	37
BNNINGTN-HOOSICK__115_K6	K6	115	229	265	278	25029	10
BNVLMUNI-PORTER__115_2	2	115	141	144	159	325778	13
BOONVILLE-BNVLMUNI_115_2	2	115	124	124	124	26073	9
BOONVILLE-EDIC_PTR_115_1-BP	1-BP	115	127	127	127	26074	10
BOONVILLE-ROME____115_3-BR	3-BR	115	141	144	159	26071	25
BOONVILLE-ROME____115_4-BR	4-BR	115	128	135	152	26072	31
BORDRCTY-GUARDIAN_115_969	969	115	179	179	179	325283	100
BOWLINE__345_138_BK455	BK455	345	506	587	671	25664	127
BOWLINE_-WHAVSTRW_345_67-1	67-1	345	777	837	837	25567	386
BOWLINOR-CONGERS__138_561	561	138	378	414	431	26723	112
BRIGHAM_-LUDLUM_B_115_161-2	161-2	115	213	225	242	26020	52
BRISTLHL-CLAY____115_4	4	115	128	135	135	25518	28
BRISTLHL-S.OSWEGO_115_4	4	115	128	134	134	25512	29
BROOKHVN_138_69__BK 1	BK 1	138	258	304	338	26548	91
BROOKHVN_138_69__BK 2	BK 2	138	258	304	338	325152	84
BROOKHVN-EDWARDAV_138_864	864	138	308	481	593	25553	98
BROOKHVN-SILLSRD__138_874	874	138	572	628	698	325617	106
BROOKHVN-SILLSRD__138_887	887	138	457	502	558	325619	105
BROOKHVN-WILDWOOD_138_861	861	138	501	553	678	325932	61
BROWNFLS-HIGLEY__115_1-BH	1-BH	115	130	144	159	26078	2
BROWNFLS-TAYLORVL_115_3-BT	3-BT	115	130	144	150	26076	1
BROWNFLS-TAYLORVL_115_4-BT	4-BT	115	128	135	147	26077	1
BUCHAN_N_345_138_BK TA5	BK TA5	345	230	306	381	25425	85
BUCHAN_N-BUCHANAN_138_95891	95891	138	249	296	384	25568	84
BUCHAN_N-EASTVIEW_345_W93	W93	345	1823	2015	2557	25133	774

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
BUCHAN_S-MILLWOOD_345_W97	W97	345	1840	1973	2154	25146	522
BUCHAN_S-MILLWOOD_345_W98	W98	345	1840	1973	2154	25247	522
BUCHANAN-MILLWOOD_138_96951	96951	138	291	322	408	25283	15
BUCHANAN-MILLWOOD_138_96952	96952	138	291	322	408	25284	15
BULYMO__-BOONVILLE_115_6	6	115	140	144	145	325265	36
BURDECK_-ALTAMONT_115_17-BA	17-BA	115	141	144	165	26151	28
BURDECK_-VORHVSLE_115_19-BV	19-BV	115	128	135	152	26152	36
BURNS___138_69_BK 519	BK 519	138	208	258	284	25889	47
BURNS___-CORPDRIV_138_702	702	138	226	248	258	325812	67
BURNS___-N.HEMPST_138_531	531	138	282	309	321	25878	12
BURNS___-WHAVSTOR_138_541	541	138	282	309	321	25879	54
BUTLER__-MOHICAN__115_18	18	115	141	144	165	26434	26
C._ISLIP_138_69_BK 3	BK 3	138	259	304	319	26519	81
C._ISLIP-RONKOKMA_138_883	883	138	478	621	691	26497	7
C_BATNKILL-MULTP-10_115_10	10	115	222	234	268	26121	17
CANAL___-RIVRHEAD_138_910	910	138	258	304	338	325242	92
CANANDGA-STONYRDG_230_68	68	230	600	625	653	25176	234
CARD___-MILSTONE_345_383	383	345	1864	2187	2390	25332	9
CARMEL__-CROTONFL_115_991	991	115	261	287	311	26155	66
CARMEL__-WOODSTNY_115_992	992	115	261	287	311	325278	50
CARR_ST_-DEWITT___115_15-CD	15-CD	115	227	249	268	26093	16
CATON___-HILLSIDE_115_960	960	115	119	120	120	325290	15
CAVANARD-EDIC_PTR_115_7	7	115	141	144	159	325214	40
CEDAR___-WHITEHAL_115_6	6	115	141	144	165	26516	16
CHADWICK-E.WALDEN_115_DW-3	DW-3	115	225	251	282	26218	72
CHADWICK-WBALMVLE_115_DW-2	DW-2	115	219	232	255	26217	23
CHASLAKE-EDIC_PTR_230_11	11	230	511	564	586	25051	98
CHAT_TAP-LYON_MTN_115_911	911	115	173	191	205	325704	38
CHATEAUG-CHAT_TAP_115_911	911	115	173	191	205	325705	18
CHATGUAY-MASSENA__765_7040	7040	765	3975	3975	5300	25301	602
CHESTROR-SUGRLOAF_138_271	271	138	282	309	321	325424	100
CHRCHTWN-BLUESTOR_115_13-BC	13-BC	115	169	179	179	26685	48
CHRCHTWN-CRARYVIL_115_984	984	115	138	167	179	26500	16
CHRCHTWN-SCHODACK_115_14/984	14/984	115	168	199	199	26126	64
CHURCH_S-ROTTDRAM_115_10-AR	10-AR	115	141	144	165	26428	10
CLAY___345_115_BK 1	BK 1	345	354	410	448	25387	170
CLAY___345_115_BK 2	BK 2	345	590	764	796	25421	255
CLAY___-DEWITT___115_3-CD	3-CD	115	141	144	165	25519	69
CLAY___-DEWITT___115_5-CD	5-CD	115	245	260	282	25522	49
CLAY___-DEWITT___345_13-CD	13-CD	345	1431	1605	1721	25168	536
CLAY___-EDIC_PTR_345_1-16	41655	345	1591	1745	1904	25200	566
CLAY___-EDIC_PTR_345_2-15	41685	345	1591	1745	1904	25169	568
CLAY___-HOPKINS__115_11-CH	11-CH	115	252	252	252	25516	118
CLAY___-INDPDNCE_345_26	26	345	1918	2115	2390	25858	726
CLAY___-SOLVAY___115_14-CG_GE	14-CG	115	141	144	165	25517	50
CLAY___-TEALLAVE_115_10-CT	10-CT	115	141	144	165	25520	75
CLAY___-WOODARD__115_17	17	115	241	241	241	25515	52
CLIMAX__-TAYLORVL_115_8-CT	8-CT	115	128	135	152	26431	37

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
CLINTON_-IMC_TAP__115_15-CI	15-CI	115	141	144	165	26128	13
CLRKSCRN_345_115_BK1	BK1	345	280	313	336	325724	32
CLRKSCRN_345_115_BK2	BK2	345	280	313	336	325725	32
CLRKSCRN-OAKDALE__345_36	36	345	1279	1410	1781	325726	581
CLYDE___115_34__TR1	TR1	115	152	166	175	25221	19
CLYDE___-STATE_ST_115_971	971	115	146	159	159	68810	28
COBBLENM-COBBLENY_115_BK 1	BK 1	115	45	47	53	25426	12
COBBLENM-HOMER_HL_115_152-2	152-2	115	141	144	159	26022	10
CODNIGTN-E.ITHACA_115_981-1	981-1	115	133	149	162	25730	13
CODNIGTN-ETNA___115_998	998	115	266	293	299	25734	47
COFFEEN_-EWATRTWN_115_5	5	115	119	119	119	325769	21
COFFEEN_-GLENPARK_115_3-CG	3-CG	115	119	119	119	26069	49
COLDENHM-ROCKTVRN_115_J	J	115	256	282	349	26420	5
COLLIERS-RICHFELD_115_929	929	115	149	172	215	26169	2
COLTON___-FLATROCK_115_2-CF	2-CF	115	139	146	159	26088	2
COLTON___-HIGLEY___115_1-HC	1-HC	115	130	144	159	26087	1
COMSTKNM-MOHICAN__115_13	13-MW	115	141	144	159	26484	29
CONGERS_-SNKEHLRD_138_563	562	138	378	414	431	25887	87
COOPERNY-ROCKHILL_115_957	957	115	120	120	120	325614	24
COOPERS__345_115_BK 2	BK 2	345	256	295	300	25433	49
COOPERS__345_115_BK 3	BK 3	345	256	295	300	25434	49
COOPERS_-FERNDALE_115_950	950	115	179	179	179	26171	37
COOPERS_-MIDDLETP_345_CMT-34	CMT-34	345	1786	1793	1793	25110	598
COOPERS_-ROCKTVRN_345_CRT-42	CRT-42	345	1793	1793	1793	25111	514
CORONA___138A_138B_BK R1	B_BK R1	138	214	285	354	25621	50
CORONA___138A_138C_BK R2	C_BK R2	138	214	285	354	25622	50
CORONA___-JAMAICA__138_18001	18001	138	311	372	421	25285	50
CORONA___-JAMAICA__138_18002	18002	138	273	334	382	25286	50
CORPDRIV-HARNGCRN_138_703	703	138	189	222	250	25881	52
CORTLAND-FENERWND_115_3	3	115	152	166	175	325248	9
CORTLAND-TILDEN___115_18	18	115	224	239	239	26089	39
CORTLAND-TULLERHL_115_1	1	115	156	170	181	25059	31
CURRY_RD-WOLF_RD__115_8	8	115	141	144	165	26254	3
DANSKAMR-CHADWICK_115_DW-1	DW-1	115	225	251	291	26219	48
DANSKAMR-NCHELSEA_115_AC	AC	115	216	231	282	25829	170
DANSKAMR-NCHELSEA_115_DC	DC	115	200	217	334	25830	175
DANSKAMR-RYNDNS_HL_115_DR	DR	115	237	282	315	25831	0
DANSKAMR-WBALMVLE_115_DB	DB	115	146	160	178	26221	51
DAVIS_RD-STOLLERD_115_927	927	115	238	239	239	26172	10
DEERFLD_-SCOBIE___345_373	373	345	1677	1677	1677	26383	137
DELEMTER-LAKEVIEU_115_141	141	115	107	117	123	325873	29
DELEMTER-LAKEVIEU_115_142	142	115	107	117	123	325880	41
DELHI___-DELHI_TP_115_951-1	951-1	115	164	164	164	26174	55
DELHI___-GR.GORGE_115_916	916	115	90	90	90	26479	18
DELHI___-VINGR_TP_115_917_916	917-916	115	120	120	120	25911	40
DELHI_TP-COLLIERS_115_951-2	951-2	115	239	239	239	26203	38
DENNISON-NORFOLK__115_4-DA	4-DA	115	222	234	278	25225	7
DENNISON-ROSEMNTA_115_1-RD	1-RD	115	215	235	253	25523	0

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
DENNISON-ROSEMNTB_115_2-RD	2-RD	115	215	235	253	25524	0
DENNISON-SANDSTON_115_5-DS	5-DS	115	222	234	278	25226	7
DEPEW_TP-DEPEW_115_BK 1	BK 1	115	120	120	120	25428	8
DEPEW_TP-ERIE_ST_115_921	921	115	120	120	120	26010	14
DEWITT_345_115_BK 2	BK 2	345	619	758	796	25418	217
DEWITT_-TEALLAVE_115_4-DT	4-DT	115	141	144	165	26094	46
DULEY_-PATNODE_230_PND-1	PND-1	230	478	478	569	325856	120
DULEY_-PLATSBRG_230_DP-1	DP-1	230	288	320	356	25272	149
DUNKIRK_230_115_BK 31	BK 31	230	173	234	250	25386	38
DUNKIRK_230_115_BK 41	BK 41	230	166	226	250	25430	38
DUNKIRK_-BENETTNTM_115_142	142	115	199	199	199	26018	14
DUNKIRK_-BERRY_RD_115_160-1	160-1	115	239	239	239	26025	53
DUNKIRK_-BRIGHAM_115_161-1	161-1	115	211	217	239	26021	56
DUNKIRK_-LUDLUM_A_115_162-1	162-1	115	211	217	239	26027	50
DUNKIRK_-SILVRCRK_115_141	141	115	107	117	123	26026	13
DUNWODIE_138_138_BK N1	BK N1	138	376	428	500	25624	58
DUNWODIE_138_138_BK N2	BK N2	138	223	312	400	25623	115
DUNWODIE_138_138_BK S1	BK S1	138	443	585	600	25626	205
DUNWODIE_345_138_BK N1_W74	BKN1W74	345	490	575	667	25209	240
DUNWODIE_345_138_BK S1_W73	BKS1W73	345	386	454	511	25208	219
DUNWODIE-DUNWODIE_138_99997 TIE	99997	138	245	293	342	25532	15
DUNWODIE-E179THST_138_99153	99153	138	269	370	651	25287	205
DUNWODIE-MOTTHAVN_345_71	71	345	741	858	1309	25151	328
DUNWODIE-MOTTHAVN_345_72	72	345	741	858	1309	25191	300
DUNWODIE-SHERMCRK_138_99031	99031	138	154	196	308	25193	58
DUNWODIE-SHERMCRK_138_99032	99032	138	219	307	421	25239	115
DUNWODIE-SHORE_RD_345_Y50	Y50	345	664	913	1445	25091	578
E. ITHACA-ETNA_115_981-2	981-2	115	100	115	143	25733	60
E. SAYRE_-NWAVERLY_115_956	956	115	102	139	139	25013	45
E. TWANDA-HILLSIDE_230_70	70	230	512	564	598	25014	135
E. WALDEN_115_69_TR_3	TR_3	115	67	81	91	26681	14
E. WALDEN-COLDENHM_115_CW	CW	115	256	282	349	26225	21
E. WALDEN-MODENA_115_EM	EM	115	285	310	349	25832	18
E. WALDEN-ROCKTVRN_115_D	D	115	255	282	350	26226	9
E13THSTA_138_69_BK 111	BK 111	138	91	121	142	25526	10
E13THSTA_138_69_BK 112	BK 112	138	91	121	142	25527	10
E13THSTA_138_69_BK 113	BK 113	138	91	121	142	25528	10
E13THSTA_138_69_BK 114	BK 114	138	91	121	142	25529	10
E13THSTA_345_138_BK 10	BK 10	138	294	326	367	25467	93
E13THSTA_345_138_BK 11	BK 11	138	284	297	315	25468	84
E13THSTA_345_138_BK 12	BK 12	138	284	297	315	25463	88
E13THSTA_345_138_BK 13	BK 13	138	307	373	447	25464	7
E13THSTA_345_138_BK 14	BK 14	138	295	326	369	25465	80
E13THSTA_345_138_BK 15	BK 15	138	323	369	410	25466	91
E13THSTA_345_138_BK 16	BK 16	138	318	372	495	25469	90
E13THSTA-FARRAGUT_345_45	45	345	773	944	1347	25190	190
E13THSTA-FARRAGUT_345_46	46	345	786	955	1353	25251	138
E13THSTA-FARRAGUT_345_47	47	345	537	731	1157	25177	56

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
E13THSTA-FARRAGUT_345_48	48	345	692	832	1288	25252	57
E179THST-HELLGT_E_138_15053	15053	138	187	244	374	25289	110
E179THST-HELLGT_E_138_15054	15054	138	187	244	374	25290	109
E179THST-HELLTP_W_138_15055	15055	138	242	321	400	25288	226
E179THST-PARKCHTR_138_38X01	38X01	138	191	305	512	25327	40
E179THST-PARKCHTR_138_38X02	38X02	138	191	305	512	25328	40
E179THST-PARKCHTR_138_38X03	38X03	138	191	305	512	25329	22
E179THST-PARKCHTR_138_38X04	38X04	138	191	305	512	25330	22
EASTVIEW_345_138_BK 1N	BK 1N	138	438	493	493	25472	113
EASTVIEW_345_138_BK 1S	BK 1S	138	438	493	493	25373	116
EASTVIEW_345_138_BK 2N	BK 2N	138	438	493	493	25471	113
EASTVIEW_345_138_BK 2S	BK 2S	138	438	493	493	25470	112
EASTVIEW-SPRNBK__345_W64	W64	345	2430	2823	3357	25143	659
EASTVIEW-SPRNBK__345_W65	W65	345	1976	2387	2897	25144	658
EASTVIEW-SPRNBK__345_W78	W78	345	2430	2823	3357	25346	619
EASTVIEW-SPRNBK__345_W79	W79	345	1976	2387	2897	25153	617
EDIC____-FRASER__345_EF24-40	EF24-40	345	1793	1793	1793	25112	578
EDIC_PTR_230_115_BK 1P	BK 1P	230	320	365	398	25389	19
EDIC_PTR_230_115_BK 2P	BK 2P	230	320	365	398	25423	19
EDIC_PTR_345_115_BK 3E	BK 3E	345	524	602	760	25424	177
EDIC_PTR_345_115_BK 4E	BK 4E	345	603	721	796	25454	177
EDIC_PTR_345_230_BK 2E	BK 2E	230	551	626	758	25422	254
EDIC_PTR-N.SCTLND_345_14-EN	14-EN	345	1624	1783	1912	25170	592
EDIC_PTR-ROTTRDAM_230_30-PR	30-PR	230	511	564	634	25173	197
EDIC_PTR-ROTTRDAM_230_31-PR	31-PR	230	511	564	634	25194	197
EDIC_PTR-VALLEY__115_4-PV	4-PV	115	141	144	165	25231	65
EDIC_PTR-WATKINRD_115_5-PW	5-PW	115	141	144	165	25232	80
EDWARDAV-RIVRHEAD_138_893	893	138	308	345	375	325654	80
EELPOTRD-MEYER__115_968	968	115	133	149	162	325288	44
EFISHKCH_345_115_BK 1	BK 1	345	505	531	531	25724	2
EFISHKCH_345_115_BK 2	BK 2	345	558	560	560	325845	0
EFISHKIL_345_115_BK 1	BK 1	345	505	531	531	25724	2
EFISHKIL-WOOD_ST__345_F38	F38	345	2409	2679	3406	25367	754
EFISHKIL-WOOD_ST__345_F39	F39	345	2409	2679	3406	25368	831
EGRDNCTY_138_69_BK 1	BK 1	138	258	304	338	26652	74
EGRDNCTY_345_138_BK 1	BK 1	345	444	556	641	25551	320
EGRDNCTY_345_138_BK 2	BK 2	345	444	556	641	25552	320
EGRDNCTY_345C_345A_PAR1	A_PAR1	345	444	812	855	25678	320
EGRDNCTY_345C_345B_PAR2	B_PAR2	345	444	812	855	25679	320
EGRDNCTY-CARLPLCE_138_361	361	138	314	345	375	25533	18
EGRDNCTY-EGRDNCTR_345_Y49_ST	Y49_ST	345	693	940	1360	325158	641
EGRDNCTY-NEWBRDGE_138_462	462	138	188	267	470	25303	86
EGRDNCTY-NEWBRDGE_138_463	463	138	244	325	434	25304	86
EGRDNCTY-NEWBRDGE_138_465	465	138	262	344	442	25535	91
EGRDNCTY-ROSLYN__138_362	362	138	314	345	375	25534	6
EKINGSTN-RHINEBCK_115_ER	ER	115	219	232	255	26222	30
ELBRIDGE_345_115_BK 1	BK 1	345	542	621	796	25448	160
ELBRIDGE-GRS_LOCK_115_19-EG	19-EG	115	141	144	165	26097	14

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
ELBRIDGE-GRS_LOCK_115_3-EG	3-EG	115	176	181	209	26098	21
ELBRIDGE-HYATT___115_15-EH	15-EH	115	156	171	182	25109	23
ELBRIDGE-LAFAYTTE_345_17-LE	17-LE	345	940	1562	1912	25149	336
ELBRIDGE-MILTON_C_115_18-EM	18-EM	115	156	159	159	26095	27
ELBRIDGE-STATE_ST_115_5_972	5_972	115	146	167	178	25107	43
ELM_ST__-SENECA_A_230_71	71	230	223	254	262	26426	9
ELM_ST__-SENECA_B_230_72	72	230	223	254	262	26427	9
ELWOOD___138_69_BK_3	BK3	138	129	156	208	26540	5
ENDICOTT-RANGEHL___115_920	920	115	149	149	149	26158	24
ENDICOTT-ROBBLEAV_115_948	948	115	254	254	254	26159	24
ENORWICH-JENNISON_115_946	946	115	117	136	153	25729	18
ERIE SO.-S.RIPLEY_230_69	69	230	553	637	637	25016	181
ERIE_ST_-PAVNMTRD_115_926	926	115	252	269	269	26175	19
ERIEEAST-S.RIPLEY_230_69	69	230	553	637	637	25016	181
ETNA___-CLRKSCRN_115_715	715	115	304	313	345	325728	16
ETNA___-CLRKSCRN_115_947	947	115	292	313	345	325727	16
ETNA___-WILLET___115_945-2	945-2	115	149	169	175	25731	93
FAIRFIEL_-INGHAM_C_115_3	3	115	141	144	159	26106	62
FAIRPRTA-HOOK_TAP_115_1-FH	1-FH	115	176	181	210	26327	28
FAIRPRTB-ELBRIDGE_115_2-FE	2-FE	115	166	175	187	26099	10
FALCONER_SALAMANC_115_153	153	115	156	159	159	26033	4
FALCONER_SALAMANC_115_154	154	115	156	159	159	26032	8
FARMGTN_115_12_BK_3	BK_3	115	15	25	35	325380	9
FARMGTN_115_34_BK_1	BK_1	115	64	74	110	70259	27
FARMGTN_115_34_BK_2	BK_2	115	72	82	107	70258	16
FARMGTN_-BORDRCTY_115_977	977	115	187	206	219	25057	112
FARMGTN_-HAMLTNM_115_7-HF	7-HF	115	176	181	209	26101	3
FARRAGUT_345A_138C_BK_9X	BK_9X	345	130	174	216	25636	9
FARRAGUT_345A_138D_BK_10X	BK_10X	345	130	174	216	25637	9
FARRAGUT_345B_345A_TR11	TR11	345	543	737	930	25044	332
FARRAGUT_345C_345A_TR12	TR12	345	549	748	930	25043	332
FARRAGUT-GOWANUS__345_41	41	345	653	856	1316	25141	384
FARRAGUT-GOWANUS__345_42	42	345	653	856	1316	25140	384
FARRAGUT-HUDS_AVE_138_32077	32077	138	130	174	216	25291	9
FARRAGUT-HUDS_AVE_138_32078	32078	138	136	181	216	25292	8
FARRAGUT-HUDS_AVE_138_32711	32711	138	148	148	148	25293	9
FENERWND-ONEIDA___115_8	8	115	159	159	159	25894	3
FERNDALE-WWDBURNE_115_959	959	115	90	90	90	26180	11
FEURABSH-GREENBSH_115_17	17	115	311	341	375	25862	36
FEURABSH-NCATSKLL_115_2-FN	2-FN	115	141	144	165	25067	0
FISHKPLN-EFISHKIL_115_HF	HF	115	243	267	293	26227	14
FISHKPLN-SYLVANLK_115_FP	FP	115	256	282	350	25066	128
FITZPTRK-EDIC_PTR_345_FE1	FE1	345	1434	1434	1661	25077	724
FLATROCK-BROWNFLS_115_2-FBF	2-FBF	115	130	144	159	26079	0
FLATSTR_-EELPOTRD_115_968	968	115	133	149	162	325287	31
FORGEBRK-MERTPARK_115_WF	WF	115	243	260	282	26229	91
FORTDRUM-DEFERIET_115_2-FD	2-FD	115	141	144	165	26091	22
FORTDRUM-TAYLORVL_115_2	2-DT	115	128	135	152	26090	15

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
FOXHILLS-WILLWBRK_138_29211-1	29211-1	138	207	275	450	25771	173
FOXHILLS-WILLWBRK_138_29212-1	29212-1	138	207	275	450	25772	176
FRASER___345_115_BK 2	BK 2	345	356	420	420	25391	93
FRASER___-COOPERS___345_33	33	345	1482	1631	1793	25236	652
FRASER___-GILBOA___345_GF5-35	GF5-35	345	1747	1793	1793	25060	188
FRASERNY-DELHI_TP_115_951-3	951-3	115	239	239	239	26202	93
FREEPORT-NEWBRDGE_138_461	461	138	226	291	475	25155	164
FRESHKLS_138C_138A_R1 __ 21191	21191	138	327	435	539	25639	259
FRESHKLS_138C_138B_R2 __ 21192	21192	138	329	410	486	25640	259
FRESHKLS_345_138_TA 1	TA 1	138	327	435	540	25457	260
FRESHKLS_345_138_TB 1	TB 1	138	329	410	478	25458	260
FRONT_ST-ROSA_RD __115_11	11	115	239	239	239	26274	73
FROST_BR-LONG_MTN_345_352	352	345	1351	1554	1841	25363	210
FROST_BR-SOUTHNGT_345_329	329	345	1350	1554	1793	25364	402
FTZPK_NM-LIGHTHSE_115_3-FLH	3-FLH	115	119	119	159	25502	19
GARDNVLA_230_1___BK6P	BK6P	230	366	420	420	25405	101
GARDNVLA_230_1___BK7P	BK7P	230	245	296	300	25435	82
GARDNVLA-GIRDLERD_115_705	705	115	239	239	239	25116	31
GARDNVLA-LANGNERD_115_903	903	115	179	197	213	325284	60
GARDNVLA-STOLLERD_230_66	66	230	478	478	478	25180	17
GARDNVLB_230_115_BK 2	BK 2	230	317	334	396	25385	83
GARDNVLB_230_115_BK 3	BK 3	230	168	210	250	25416	56
GARDNVLB_230_115_BK 4	BK 4	230	169	211	250	25417	57
GARDNVLB-ARCADE___115_151	151	115	156	171	182	26040	46
GARDNVLB-BETHWEST_115_149	149	115	245	257	294	325317	15
GARDNVLB-BETHWEST_115_150	150	115	245	257	294	325318	5
GARDNVLB-CLVRBANK_115_141	141	115	107	117	123	26038	48
GARDNVLB-CLVRBANK_115_142	142	115	107	117	123	26037	47
GARDNVLB-COBBLENM_115_152-1	152-1	115	199	199	199	26023	56
GARDNVLB-DUNKIRK___230_73	73	230	637	637	637	25166	129
GARDNVLB-DUNKIRK___230_74	74	230	633	633	633	25197	130
GARDNVLB-GARDNVLA_115_GARD-NY	GARD_NY	115	712	813	985	25085	52
GARDNVLB-GARDNVLA_230_T8-12	T8-12	230	773	773	773	25089	166
GARDNVLB-WALDEN___115_54-1	54-1	115	168	212	239	26035	13
GE_R_D___-GROOMS___115_20_15	20_15	115	245	257	294	26266	35
GILBOA___-LEEDS___345_GL3	GL3	345	1762	1896	2151	25219	499
GILBOA___-N.SCTLND_345_GNS1	GNS1	345	1747	1896	2106	25052	59
GINNA___-PANNELRG_115_912	912	115	265	295	335	25260	49
GINNA___-S124_____115_913	913	115	321	359	436	26281	148
GINNA___-STA_135___115_909	909	115	282	298	313	325837	69
GINNA___-STA_135___115_937	937	115	282	298	313	325838	69
GINNA___-STA_204___115_908-1	908-1	115	322	360	415	26282	86
GINNA___-STA_204___115_911	911	115	320	358	414	26283	161
GIRDLERD-STOLLERD_115_706	706	115	228	229	239	325161	8
GLENWD___138_69___BK 5	BK 5	138	128	156	203	25735	65
GLENWD___138_69___BK 6	BK 6	138	128	156	208	70637	63
GLENWD___-CARLPLCE_138_363	363	138	370	393	434	25554	27
GLENWD___-GLENWDGT_138_366	366	138	370	392	434	25555	33

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
GLENWDGT-ROSLYN__138_364	364	138	370	393	434	25556	33
GOETHALS_345A_345B_BK 1N	BK 1N	345	591	787	978	25641	333
GOETHLSS-FRESHKLS_345_21	21	345	1016	1096	1362	25138	67
GOETHLSS-LINDN_CG_345_G23L	G23L	345	643	643	643	26000	337
GOETHLSS-LINDN_CG_345_G23M	G23M	345	643	643	643	325203	337
GOETHSLN_345/230_BK 1	BK 1	345	630	789	886	25642	334
GOETHSLN-FRESHKLS_345_22	22	345	1285	1618	1817	25137	67
GOLAH__-MORTIMER_115_110	110	115	158	159	159	26034	38
GOUDEY__-ROBBLEAV_115_940	940	115	292	320	351	325166	34
GOUVNEUR-BATTHILL_115_8-GBH	8-GBH	115	93	101	106	26066	14
GOWANUS__138A_138B_PAR R14	PAR R14	138	272	308	376	25794	249
GOWANUS__138A_138B_PAR R2	PAR R2	138	272	308	376	25793	249
GOWANUS__345_138_BK T14	BK T14	138	309	407	421	25475	251
GOWANUS__345_138_BK T2	BK T2	138	305	362	421	25476	250
GOWANUS_-GOETHLSS_345_26	26	345	561	748	1241	25571	437
GOWANUS_-GOETHSLN_345_25	25	345	561	748	1241	25139	437
GOWANUS_-GREENWD__138_42231	42231	138	273	387	516	25214	249
GOWANUS_-GREENWD__138_42232	42232	138	273	387	516	25215	249
GOWANUSA-GREENWD__138_42G24	42G24	138	270	307	322	26007	0
GOWANUSC-GREENWD__138_42G13	42G13	138	259	307	322	26006	0
GOWANUSN_345KV_REA_R41_REACTR	R41_REA	345	687	896	1315	26001	384
GOWANUSS_345KV_REA_R42_REACTR	R42_REA	345	687	896	1315	26003	384
GR.GORGE-VINGR_TP_115_916 N.O.	916 N.O	115	149	172	215	26478	0
GREENBSH-FT._ORAN_115_15	15	115	159	159	159	26130	32
GREENBSH-STEPHTWN_115_993	993	115	141	144	159	26447	14
GREENDGE-FLATSTR__115_968	968	115	133	149	162	26185	15
GREENDGE-MONTRFL__115_967	967	115	133	149	162	26184	26
GREENDGE-MONTRFL__115_970	970	115	146	160	178	26183	32
GREENLWN_138_69_BK5	BK5	138	129	156	203	26655	7
GREENLWN-ELWOOD__138_673	673	138	487	572	657	25546	99
GREENLWN-SYOSSET__138_676	676	138	318	399	561	25548	147
GREENWD_-FOXHILLS_138_29231	29231	138	195	249	378	25321	135
GREENWD_-FOXHILLS_138_29232	29232	138	195	249	378	25322	135
GRND_ISL-AMERISTD_115_182-2	182-2	115	168	212	239	26014	63
GROOMS__-JOHNSON__115_13	13	115	268	293	317	26267	26
GRS_LOCK-S.OSWEGO_115_9-GS	9-GS	115	171	171	171	25510	47
GRS_LOCK-TILDEN__115_16-GT	16-GT	115	141	144	165	26102	57
GUARDIAN-HALEYRD__115_969	969	115	179	179	179	26167	95
HALEYRD_-GREENDGE_115_969	969	115	179	179	179	325294	73
HAMLTNM-ELBRIDGE_115_7-HE	7-HE	115	189	199	199	26096	7
HAMLTNM-HAMLTNNY_115_BK1	BK 1	115	34	42	56	25394	10
HANCOCK_-HAZEL__115_955-1	955-1	115	119	120	120	26187	0
HARSNRAD-ROBNSNRD_115_907	907	115	261	287	306	26162	26
HAUPPAUG-C._ISLIP_138_889	889	138	237	321	473	25681	96
HAZEL__-FERNDALE_115_955-2	955-2	115	119	120	120	26181	10
HDSNBRDG-DEWITT__115_10	10	115	225	251	291	325260	72
HDSNBRDG-DEWITT__115_7	7	115	340	374	414	325261	45
HELLGATE-ASTORIAW_138_24053	24053	138	171	207	207	25212	87

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
HELLGATE-ASTORIAW_138_24054	24054	138	171	207	207	25213	87
HELLGT_E-ASTORIAE_138_34051	34051	138	195	249	378	25323	109
HELLGT_E-ASTORIAE_138_34052	34052	138	195	249	378	25324	109
HELLGT_W-ASTORIAW_138_24051	24051	138	188	264	447	25210	29
HELLGT_W-ASTORIAW_138_24052	24052	138	188	264	447	25211	20
HICKLING-CATON___115_958	958	115	119	120	120	26189	1
HICKLING-RIDGE_RD_115_964	964	115	127	147	167	26188	5
HILLBURN_138_69_BK 317	BK 317	138	187	230	265	26330	64
HILLBURN-RAMAPOOR_138_52	52	138	187	230	265	25882	64
HILLSIDE_115_1_BK3S	BK3S	230	299	336	336	325761	64
HILLSIDE_115_1_BK4S	BK4S	230	467	561	699	325762	33
HILLSIDE_230_1_BK3P	BK3P	230	299	336	336	325759	64
HILLSIDE_230_1_BK4P	BK4P	230	467	561	699	325760	49
HILLSIDE-CHEMUNG___115_962	962	115	170	179	179	25726	64
HILLSIDE-WATRCURE_230_69	69	230	657	657	657	25181	109
HINMAN___-HARSNRAD_115_908	908	115	297	306	306	26161	188
HISHELDN-STONCREK_230_81	81	230	506	556	603	325622	229
HOLBROOK-NSHORBCH_138_884	884	138	400	440	487	25341	11
HOLBROOK-SILLSRD___138_872	872	138	555	590	678	25340	43
HOLBROOK-WEST BUS_138_888	888	138	572	628	698	25542	202
HOLTSVLE-UNIONAVE_138_818	818	138	172	224	378	25584	0
HOLTSVLE-WEST BUS_138_877	877	138	878	993	1118	325909	0
HOMER C_-STOLLERD_345_37	37	345	754	840	840	25036	29
HOMER C_-WATRCURE_345_30	30	345	927	927	927	25018	284
HOMER_HL-NILE_____115_157-1	157-1	115	107	117	123	26041	33
HOOK_TAP-FARMGTN___115_7-HF	7-HF	115	176	181	199	26100	19
HOPATCON-RAMAPO___500_5018	5018	345	1156	1450	1915	25019	189
HOPKINS_-TEALLAVE_115_11-HT	11-HT	115	239	239	239	26105	78
HUDS_AVE-JAMAICA___138_701	701	138	172	234	371	25294	13
HUDS_AVE-JAMAICA___138_702	702	138	172	234	371	25295	13
HUDSON___-PLSTVYCH_115_12-HP	12-HP	115	159	159	159	25499	41
HUDSON___-VALKIN___115_15	15	115	145	159	159	26514	68
HUDSONP_-FARRAGUT_345_B3402	B3402	345	547	732	927	25020	332
HUDSONP_-FARRAGUT_345_C3403	C3403	345	565	763	827	25038	332
HUNTLEY_-ELM_ST___230_70	70	230	432	477	491	25855	46
HUNTLEY_-SAWYER___230_79	79	230	691	760	848	25127	340
HUNTLEY_-SAWYER___230_80	80	230	691	760	848	25128	383
HUNTLEY_-ST_60_36_115_36-1	36-1	115	199	199	199	26046	17
HUNTLEY_-ST_60_37_115_37-1	37-1	115	190	190	190	26045	16
HUNTLEY_-STA_129___115_39-1	39-1	115	176	181	209	26044	70
HUNTLEY_-STA_154___115_38-1	38-1	115	176	181	199	26047	71
HURLYAVE_345/115_BK 1	BK 1	345	486	560	560	25419	158
HURLYAVE-LINCNPBK_115_HP	HP	115	243	267	293	25833	68
HURLYAVE-OHIOVLLE_115_OR	OR	115	169	213	239	25834	35
HURLYAVE-ROSETON___345_303	303	345	1713	1885	1912	25218	450
HYATT___-BORDRCTY_115_979	979	115	156	171	179	25106	9
IMC_TAP_-MECO_____115_15-IM	15-IM	115	152	166	175	26132	22
INDCORTH-SPIERFLS_115_18	18	115	340	374	414	26149	101

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
INDK-OSW-LIGHTHSE_115_2-ILH	2-ILH	115	139	144	159	25503	5
INDN_PT3-BUCHAN_S_345_W96	W96	345	1793	1793	2266	25570	1043
INDPDNCE-SCRIBA___345_25	25	345	1918	2115	2390	25859	268
INGHAM_C_115_115_PAR 2	PAR 2	115	197	234	239	25242	120
INGHAM_C-INGHAM_E_115_R81	R81	115	222	234	239	25243	0
INGHAM_E-ESPRGFLD_115_7	7	115	114	131	152	25061	22
INGHAM_E-IMC_TAP___115_15-II	15-II	115	128	135	152	25871	36
INGHAM_E-STJHNVLE_115_6-IS	6-IS	115	104	107	122	26133	34
INGHAM_E-STONER___115_9-IS	9-IS	115	128	135	152	25863	32
JAMAICA_-LAKSUCSS_138_903	903	138	268	350	428	25090	209
JAMAICA_-VALLYSTR_138_901 L_M	901 L_M	138	307	391	441	25048	105
JENNISON-DELHI___115_949	949	115	117	120	120	26173	13
JENNISON-HANCOCK___115_954	954	115	119	120	120	26186	23
JENNISON-KATTLVLE_115_943	943	115	146	160	178	25898	67
JOHNSON_-MAPLEWOD_115_12	12	115	239	239	239	26268	51
KATONAH_-AMAWALK___115_995	995	115	261	287	311	325279	27
KATONAH_-CROTONFL_115_991	991	115	261	287	311	26157	17
KENTAVE_-GREENWD___138_31232-2	31231-2	138	195	249	310	25299	76
KENTS_FL-SCOTAFILT_115_913	913	115	120	120	120	26207	16
KINTIGH_-ROCHESTR_345_SR-1	SR-1	345	1591	1745	1793	25073	636
KNAPPCRN-SANDDOCK_115_KB_KC	KB_KC	115	238	262	291	26240	49
KNAPPCRN-SPACKILL_115_SK	SK	115	238	262	291	325777	30
LADENTWN-BOWLINE___345_68	68	345	777	837	837	25249	127
LADENTWN-BUCHAN_S_345_Y88	Y88	345	1823	2015	2557	25185	1
LADENTWN-WHAVSTRW_345_67-2	67-2	345	1976	2387	2895	25248	220
LAFAYTTE-CLRKSCRN_345_4-46	16893	345	1279	1410	1781	25049	647
LAFAYTTE-DEWITT___345_22-DL	22-DL	345	1643	1643	1643	25174	318
LAKEVIEU-CLVRBANK_115_142	142	115	107	117	123	325881	41
LAKSUCSS_138A_138B_PAR	B_PAR	138	366	450	450	25593	210
LANGDON_-NORTHSDE_115_936	936	115	206	227	239	26160	36
LAUREL L-GOUDEY___115_952	952	115	128	149	162	25012	46
LEEDS___-ATHENS___345_95	95	345	1624	1783	1946	25789	214
LEEDS___-HURLYAVE_345_301	301	345	1713	1885	1912	25055	608
LEEDS___-PLSNTVLY_345_92	92	345	1624	1783	1912	25056	886
LIGHTHSE-CLAY_____115_7-CL	7-CL	115	141	144	165	25521	18
LIGHTHSE-EWATRWN_115_5	5	115	119	119	119	25504	18
LINCNPRK-EKINGSTN_115_LR	LR	115	243	260	282	26223	39
LINDEN___-GOETHALS_230_A2253	A2253	230	688	785	908	25017	334
LOCKPORT-HINMAN___115_100	100	115	268	293	317	25087	168
LOCKPORT-N.AKRN_1_115_108-2	108-2	115	158	162	187	25266	52
LOCKPORT-OAKFIELD_115_112-1	112-1	115	166	175	187	25300	57
LOCKPORT-SWEDEN_A_115_111-1	111-1	115	199	199	199	25262	72
LOCKPORT-SWEDEN_B_115_113-1	113-1	115	174	191	199	25263	76
LOCKPORT-TELGRAPH_115_107-1	107-1	115	268	293	317	25265	78
LOCKPORT-TELGRAPH_115_114-1	114-1	115	174	191	199	25264	83
LOCUSTGR-NEWBRDGE_138_558	558	138	446	572	657	25158	411
LONG_MTN-PLSNTVLY_345_398	398	345	1283	1476	1590	25033	125
LONG_MTN-PLUM TRE_345_321	321	345	1601	1757	1984	25720	85

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
LONGLANE-BLUE_CIR_115_6-BS	6-BS	115	141	144	159	25864	74
LOVETT__138_69__BK 147	BK 147	138	94	130	149	26331	24
LOVETT__-BOWLINOR_138_56	56	138	279	305	317	25877	15
LOVETT__-STONYPNT_138_54	54	138	282	309	321	25885	2
LOWVILLE-BOONVILLE_115_5-LB	5-LB	115	128	135	152	26075	31
LUDLOW__-CARP HL__345_301	301	345	1569	1757	1886	25722	415
LUDLOW__-NORTHFLD_345_354	354	345	1601	1757	1984	25713	53
LU DLUM_A-FALCONER_115_162-2	162-2	115	107	117	123	26031	38
LU DLUM_B-FALCONER_115_161-3	161-3	115	107	117	123	26030	47
LUTHERFT-MALTA__115_1	1	115	213	292	324	325889	63
LUTHERFT-MALTA__115_302	2	115	213	292	318	325890	28
LUTHERFT-MULBRYNM_115_3	3	115	227	248	268	26477	2
LUTHERFT-MULBRYNM_115_308	308	115	227	248	268	325742	27
LYON_MTN-KNTFSRNC_115_911	911	115	149	171	184	26205	36
MALONE__-NICHVLVE_115_3-NM	3-NM	115	168	197	199	25585	33
MALONE__-WILLIS__115_1-MW	1-MW	115	168	191	199	25586	59
MALTA__-TAPBLSTN_115_1	1	115	268	293	317	325891	63
MALTA__-TAPBLSTN_115_302	302	115	268	293	317	325892	11
MANCHSTR-SPACKILL_115_MC	MC	115	238	262	291	325776	6
MAPLEWOD-ARSENAL__115_15	15	115	168	188	239	25844	41
MAPLEWOD-MENANDS__115_19-MM	19-MM	115	156	170	181	25870	44
MARCY__765_345_BK 1	BK 1	765	1756	1756	1756	25455	264
MARCY__765_345_BK 2	BK 2	765	1793	1793	2297	25456	229
MARCY__-COOPERS__345_UC2-41	UC2-41	345	1345	1345	1434	25113	561
MARCY__-EDIC_PTR_345_UE1-7	UE1-7	345	1918	2115	2390	25229	58
MARCY__-N.SCTLND_345_18	18	345	1793	1793	2297	25276	657
MARSHVLE-CLINTON__115_12	12	115	152	159	159	325267	4
MASSENA__765_230_BK 1	BK 1	765	1076	1254	1404	25665	107
MASSENA__765_230_BK 2	BK 2	765	1076	1254	1404	25666	0
MASSENA__-MARCY__765_MSU1	MSU1	765	3975	3975	5300	25224	493
MCADOO__-BATTHILL_115_6-MBH	6-MBH	115	93	101	107	26064	0
MCINTYRE-COLTON__115_8-MC	8-MC	115	93	101	106	25514	15
MCINTYRE-MCADOO__115_6	6	115	156	159	159	26108	13
MCKNOWNV-NEWKRMKL_115_8	8	115	291	320	356	26499	97
MECO__-CHURCH_S_115_10-AM	10-AM	115	152	166	175	26120	2
MENANDS__-REYNOLDS_115_2-MR	2-MR	115	255	282	316	26135	77
MENANDS__-RIVERSDE_115_3-MR	3-MR	115	227	239	239	26134	61
MERTPARK-WICCOPEE_115_WP	WP	115	244	260	282	325772	70
MEYER__115_1__BK4S	BK4S	230	271	331	336	325766	77
MEYER__230_1__BK4P	BK4P	230	271	331	336	325765	89
MEYER__-CANANDGA_230_60	60	230	591	649	715	325604	198
MEYER__-MORAINNE__115_966	966	115	149	172	191	26166	78
MIDDLEOR-SHOEMAKR_138_29	29	138	506	587	671	26468	262
MIDDLETP_345_138_BK 114	BK114	345	506	587	671	26465	263
MIDDLETP-ROCKTVRN_345_MTR-34	MTR-34	345	1918	2115	2390	26464	331
MIDDLTWN-SCOV RCK_345_384	384	345	896	1255	1434	26389	21
MILAN__-PLSTVYCH_115_10	10	115	146	160	178	26433	2
MILAN__-RHINEBCK_115_MR	MR	115	219	232	239	26242	5

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
MILLBURY-CARP HL_345_302	302	345	1475	1560	1919	25721	375
MILLERPL-HOLBROOK_138_885	885	138	555	590	678	26691	3
MILLIKEN-ETNA_115_974	974	115	231	260	286	26177	110
MILLIKEN-ETNA_115_975	975	115	231	260	286	26178	119
MILLWOOD_345_138_TA 1	TA 1	138	248	333	359	25530	35
MILLWOOD_345_138_TA 2	TA 2	138	234	305	321	25531	34
MILLWOOD-EASTVIEW_345_W82	W82	345	2430	2823	3357	25147	771
MILLWOOD-EASTVIEW_345_W85	W85	345	2430	2823	3357	25258	731
MILLWOOD-EASTVIEW_345_W99	W99	345	2430	2823	3357	25255	733
MILTON_C-GRS_LOCK_115_18-MG	18-MG	115	156	171	182	26104	19
MNCHESTR-CARD_345_368	368	345	1350	1554	1939	25710	631
MNCHESTR-MILSTONE_345_310	310	345	1811	2145	2372	25336	336
MNCHESTR-NO.BLOOM_345_3642	3642	345	956	956	956	26399	39
MNCHESTR-SCOV RCK_345_353	353	345	1518	1805	2217	25714	638
MNTNDALE-WWDBURNY_115_957	957	115	120	120	120	325616	15
MODENA_115_69_BK1	BK1	115	40	50	53	26325	2
MODENA_-OHIOVILLE_115_PX	PX	115	285	301	349	25835	9
MOHICAN_-BATNKILL_115_15	15	115	128	135	152	26122	12
MOHICAN_-MULBRYNM_115_3	3	115	227	248	268	26687	2
MONSEY_-BURNS_138_601	601	138	456	478	500	325608	84
MONTRFL_-CODNIGTN_115_982	982	115	133	149	162	25728	16
MONTRFL_-RIDGE_RD_115_963-2	963-2	115	133	145	149	26196	30
MONTRFL_-RIDGE_RD_115_978-2	978-2	115	133	149	162	26197	34
MONTVILL-MILSTONE_345_371	371	345	1864	2187	2390	25334	867
MORTIMER-FAIRPRTA_115_1-FM	1-FM	115	168	181	199	25163	74
MORTIMER-FAIRPRTB_115_2-FM	2-FM	115	166	175	187	25240	64
MORTIMER-PITSFRDB_115_24-1	41663	115	156	171	182	25096	0
MORTIMER-PITSFRDC_115_25-1	41664	115	139	145	162	25095	14
MOSES_230_115_BK 1	BK 1	230	526	589	722	25411	20
MOSES_230_115_BK 2	BK 2	230	526	589	722	25451	19
MOSES_230_115_BK 3	BK 3	230	220	276	287	25452	8
MOSES_230_115_BK 4	BK 4	230	598	598	797	25453	19
MOSES_-ADIRNDCK_230_MA1	MA1	230	447	473	517	25269	42
MOSES_-ADIRNDCK_230_MA2	MA2	230	447	473	517	25270	42
MOSES_-ALCOA_N._115_MAL4	MAL4	115	256	282	327	25582	102
MOSES_-ALCOA_N._115_MAL6	MAL6	115	279	282	327	25581	98
MOSES_-ALCOA_S._115_MAL5	MAL5	115	291	319	350	25583	90
MOSES_-MASSENA_230_MMS1	MMS1	230	1076	1254	1404	25274	107
MOSES_-MASSENA_230_MMS2	MMS2	230	1076	1254	1404	25275	0
MOSES_-MED-ENGS_115_MRG1	MRG1	115	145	145	157	26328	33
MOSES_-MED-ENGS_115_MRG2	MRG2	115	145	145	157	26335	11
MOSES_-REYNLDPA_115_MR3	MR3	115	145	145	157	26332	0
MOSES_-WILLIS_230_MW1	MW1	230	447	473	517	25188	115
MOSES_-WILLIS_230_MW2	MW2	230	447	473	517	25271	114
MOSHIER_-TAYLORVL_115_7-MT	7-MT	115	49	49	49	26109	13
MOTTHAVN-RAINEY_345_Q11	Q11	345	741	858	1309	325430	208
MOTTHAVN-RAINEY_345_Q12	Q12	345	741	858	1309	325431	195
MOUNTAIN-SWANROAD_115_103-2	103-2	115	224	250	282	26054	104

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
MULBRYNM-N.TROY__115_308	308	115	227	248	268	26475	42
N._SALEM-BATNKILL_115_989	989	115	45	52	57	26448	3
N.AKRN_1-BATAVIA__115_107-3	107-3	115	159	159	159	25124	22
N.AKRN_1-BATAVIA__115_108-1	108-1	115	152	159	159	25125	35
N.END__115_46__BK 1	BK 1	115	70	71	75	25849	43
N.END__-ASHLEYRD_115_702	702	115	351	386	434	25846	4
N.END__-PLATSBRG_115_701	701	115	239	239	239	25848	38
N.HEMPST-WHAVSTOR_138_530	530	138	282	309	321	26506	51
N.SCTLND_345_115_BK 1	BK 1	345	529	642	796	25445	89
N.SCTLND_345_115_BK 2	BK 2	345	629	796	796	25460	84
N.SCTLND-ALBANY__115_8-NA	8-NA	115	340	373	414	25496	28
N.SCTLND-ALPS____345_2-AN	2-AN	345	1278	1410	1792	25217	117
N.SCTLND-ALTAMONT_115_20-NV	20-NV	115	141	144	165	25492	54
N.SCTLND-BETHLHEM_115_4-NB	4-NB	115	311	313	313	25497	22
N.SCTLND-FEURABSH_115_3-NF	3-NF	115	311	341	375	25495	31
N.SCTLND-LEEDS____345_93-LN	93-LN	345	1534	1692	1912	25171	615
N.SCTLND-LEEDS____345_94-LN	94-LN	345	1534	1692	1912	25203	612
N.SCTLND-OWENSCRN_115_7	7	115	141	144	165	25491	99
N.SCTLND-OWENSCRN_115_9	9	115	141	144	165	25490	25
N.SCTLND-ROTTRDAM_115_13-NR	13-NR	115	255	282	358	25494	34
N.SCTLND-VORHVSLE_115_19-NV	19-NV	115	128	135	152	25493	36
N.TROY__-REYNOLDS_115_16-NR	16-NR	115	222	234	239	26139	70
N.TROY__-WYNTKLMN_115_14-NW	14-NW	115	168	212	239	26137	56
NANGOLA_-DELEMTER_115_141	141	115	107	117	123	325872	29
NANGOLA_-DELEMTER_115_142	142	115	107	117	123	325879	26
NANGOLA_-SILVRCRK_115_141	141	115	107	117	123	325871	17
NBRDWYNM-ERIE_ST__115_922	922	115	146	160	178	26011	51
NCATSKLL_115_69__TR 4	TR 4	115	57	71	79	25839	30
NCATSKLL_115_69__TR 5	TR 5	115	53	65	73	25818	31
NCATSKLL-MILAN____115_T7	T7	115	169	213	237	26243	4
NCHELSEA_115/69__BK TR1	BK TR1	115	40	50	53	25836	11
NCHELSEA-FISHKPLN_115_NF	NF	115	255	290	315	26228	127
NCHELSEA-FORGEBRK_115_FO	FO	115	225	251	282	26230	121
NEWBRDGE_345_138_BK_1	BK 1	345	375	375	375	325301	331
NEWBRDGE_345_138_BK_2	BK 2	345	375	375	375	325302	331
NEWBRDGE-BAGATLRD_138_563	563	138	465	621	691	25536	41
NEWBRDGE-EGRDNCTY_138_467	467	138	282	452	474	325378	73
NEWBRDGE-RULAND__138_561	561	138	314	345	375	25305	77
NEWBRDGE-RULAND__138_562	562	138	314	345	375	25306	77
NEWBRDGE-RULAND__138_567	567	138	279	452	473	325379	72
NEWKRMKL-ALBANY__115_7	7	115	340	371	413	325257	114
NIAGARA__230_115_BK T1	BK T1	230	220	276	288	25409	37
NIAGARA__230_115_BK T2	BK T2	230	286	359	452	25410	49
NIAGARA__345_230_BK 3	BK 3	345	441	552	575	25408	109
NIAGARA__345_230_BK 5	BK 5	345	441	552	575	25450	109
NIAGARA_-GARDNVLB_115_180	180	115	194	199	233	25104	111
NIAGARA_-KINTIGH__345_NS1-38	NS1-38	345	1591	1745	1793	25074	46
NIAGARA_-LOCKPORT_115_101	101	115	285	300	318	25267	116

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
NIAGARA_-MOUNTAIN_115_120	120	115	224	250	291	25135	104
NIAGARA_-PACKARD__115_191	191	115	319	339	383	25075	163
NIAGARA_-PACKARD__115_192	192	115	319	339	383	25099	172
NIAGARA_-PACKARD__115_193	193	115	349	359	411	25100	140
NIAGARA_-PACKARD__115_194	194	115	349	359	398	25101	140
NIAGARA_-PACKARD__115_195	195	115	349	359	398	25102	157
NIAGARA_-PACKARD__230_61	61	230	717	717	942	25186	313
NIAGARA_-PACKARD__230_62	62	230	717	717	942	25220	308
NIAGARA_-ROBNSNRD_230_64	64	230	639	678	717	25088	257
NIAGARA_-ROCHESTR_345_NR2	NR2	345	1591	1745	1904	25084	530
NIAGARA_-SANDBORN_115_102-2	102-2	115	319	339	383	25103	112
NIAGBLVD-NBRDWNM_115_181-2	181-2	115	194	199	233	26057	100
NICHLVLE-PARISHVL_115_3-PN	3-PN	115	156	170	181	26110	40
NILE____-ANDOVER__115_157-2	157-2	115	142	150	159	26016	16
NINEMILE-CLAY____345_8-NC	8-NC	345	1278	1410	1624	25167	564
NINEMILE-FTZPK_NM_115_4-NF	4-NF	115	119	119	159	25500	19
NINEMILE-SCRIBA__345_9-NS	9-NS	345	1278	1410	1792	25359	68
NOGDNBRG-MCINTYRE_115_9-NOM	9-NOM	115	159	159	159	26080	16
NORFOLK_-SANDSTON_115_4-NS	4-NS	115	268	293	317	26111	7
NORTHFLD-VRNON VT_345_381	381	345	1195	1195	1580	25707	83
NRTH1385-NOR HBR__138_601	601	138	147	199	409	325597	33
NRTH1385-NOR HBR__138_602	602	138	147	199	409	325598	33
NRTH1385-NOR HBR__138_603	603	138	147	199	409	325599	33
NRTH1385-NRTHPORT_138_1385	1385	138	441	598	598	25035	99
NRTHPORT_138_138_PS2	138_PS2	138	463	570	570	25599	182
NRTHPORT-ELWOOD__138_678	678	138	398	536	677	25543	84
NRTHPORT-ELWOOD__138_681	681	138	398	536	677	25544	98
NRTHPORT-PILGRIM__138_672	672	138	229	310	421	25307	72
NRTHPORT-PILGRIM__138_677	677	138	459	621	842	25308	155
NRTHPORT-PILGRIM__138_679	679	138	459	609	677	25309	155
OAKDALE__230_115_BK 1	BK 1	230	318	435	440	25400	51
OAKDALE__345_115_BK 2	BK 2	345	583	600	600	25401	174
OAKDALE__345_115_BK 3	BK 3	345	489	577	600	25399	158
OAKDALE_-DELHI____115_919	919	115	171	179	179	25897	32
OAKDALE_-ENDICOTT_115_938	938	115	171	188	239	26198	39
OAKDALE_-FRASER__345_32	32	345	1494	1692	1793	25235	363
OAKDALE_-GOUDEY__115_939	939	115	292	321	352	26182	161
OAKDALE_-KATTLVLE_115_943	943	115	171	188	221	26201	87
OAKDALE_-NORTHSDE_115_944	944	115	231	239	239	26199	31
OAKFIELD-BATAVIA__115_112-2	112-2	115	156	162	181	25126	40
OAKWOOD_-ELWOOD_E_138_674	674	138	487	572	657	25545	117
OAKWOOD_-SYOSSET__138_675	675	138	318	399	561	25547	157
OHIOVLE_115_69__BK TR1	BK TR1	115	40	50	53	25819	1
OHIOVLE-HIGHLAND_115_OR	OR	115	169	213	239	26247	24
ONEIDA__-WALESVIL_115_7	7	115	141	144	159	26115	21
ONEIDA__-YAHNUNDA_115_6	6	115	128	135	152	26113	32
OSWEGO__345_115_BK 7	BK 7	345	576	657	774	25372	219
OSWEGO__-ELBRIDGE_345_17-EO	17-EO	345	1278	1410	1792	25234	497

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
OSWEGO__-S.OSWEGO_115_3-OS	3-OS	115	209	239	239	25507	92
OSWEGO__-S.OSWEGO_115_5-OS	5-OS	115	209	239	239	25508	92
OSWEGO__-S.OSWEGO_115_8-OS	8-OS	115	478	478	478	25509	33
OSWEGO__-VOLNEY___345_11-OV	11-OV	345	1278	1410	1792	25199	276
OSWEGO__-VOLNEY___345_12-OV	12-OV	345	1278	1410	1792	25201	276
OWENSCRN-PLASTICS_115_7	7	115	141	144	165	325736	96
OWENSCRN-SABICO___115_9	9	115	141	144	159	325737	38
PACKARD__230_115_BK 3	BK 3	230	233	250	250	25414	20
PACKARD__230_115_BK 4	BK 4	230	235	250	250	25415	44
PACKARD_-GRND_ISL_115_182-1	182-1	115	243	249	297	26056	120
PACKARD_-NIAGBLVD_115_181-1	181-1	115	194	199	233	26055	111
PACKARD_-SAWYER___230_77	77	230	680	747	795	25164	301
PACKARD_-SAWYER___230_78	78	230	680	747	836	25195	303
PACKARD_-WALCK_RD_115_129	129	115	239	301	301	25906	120
PACKARD_-ZIMMERM1_115_130-2	130-2	115	213	225	242	26059	133
PANNELL__345_115_BK 1	BK 1	345	273	329	336	25396	82
PANNELL__345_115_BK 2	BK 2	345	273	328	336	25431	82
PANNELL__345_115_BK 3	BK 3	345	314	336	336	25572	67
PANNELL_-CLAY_____345_PC1	PC1	345	1195	1195	1195	25058	156
PANNELL_-CLAY_____345_PC2	PC2	345	1195	1195	1195	25050	157
PANNELRG-FARMGTN__115_4-FP	4-FP	115	265	293	317	25080	152
PANNELRG-PITSFRDB_115_24	24	115	139	145	162	26285	34
PANNELRG-PITSFRDC_115_25	25	115	156	171	182	26284	23
PARISHVL-COLTON___115_3-CP	3-CP	115	156	170	181	25241	39
PATROON_-MCKNOWNV_115_6	6	115	240	373	414	25866	69
PATROON_-PATRTAP__115_15	15	115	170	188	239	25867	2
PATRTAP_-MENANDS__115_15	15	115	141	144	165	26493	2
PAVMNTRD-STOLLERD_115_926	926	115	299	335	368	325220	6
PAWLING_-CROTONFL_115_994	994	115	179	179	179	25902	48
PEAT ST_-HDSNBRDG_115_10	10	115	225	251	291	26648	59
PEAT ST_-HDSNBRDG_115_7	7	115	340	374	414	26649	15
PETERBOR_ONEIDA___115_5	5	115	141	144	165	25896	28
PILGRIM_-HAUPPAUG_138_871	871	138	348	426	428	25550	139
PILGRIM_-WEST BUS_138_881	881	138	572	628	698	25537	36
PITSFRDB-QUAKERRD_115_23-1	41662	115	180	180	180	26288	26
PITSFRDB-STA_82___115_23-2	41693	115	176	181	209	26287	5
PLATSBRG-KENTS_FL_115_PS1	PS1	115	128	148	170	25078	15
PLATTSBURGH PMLD #2	PS-1/A	115	179	179	224	69888	12
PLSNTVLE-DUNWODIE_345_W89	W89	345	1976	2282	2542	25182	687
PLSNTVLE-DUNWODIE_345_W90	W90	345	1976	2282	2542	25250	726
PLSNTVLY-EFISHKIL_345_F36	F36	345	1976	2387	2895	25256	255
PLSNTVLY-EFISHKIL_345_F37	F37	345	1976	2387	2895	25257	255
PLSNTVLY-WOOD_ST__345_F30	F30	345	1976	2384	2895	25237	699
PLSNTVLY-WOOD_ST__345_F31	F31	345	1976	2384	2895	25238	667
PLSTVYCH_115_69__TR 10	TR 10	115	134	143	143	25840	54
PLSTVYCH_345_115_BK S1	BK S1	345	478	478	478	25382	7
PLSTVYCH-INWOOD___115_X-1	X-1	115	219	232	255	26209	36
PLSTVYCH-MANCHSTR_115_M	M	115	238	262	291	26208	9

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
PLSTVYCH-TODDHILL_115_C	C	115	174	190	202	325156	28
PORTER__-DERFIELD_115_8_26_25_23	8262523	115	127	127	127	26116	10
PORTJEFF_138_69__BK 7	BK 7	138	127	156	208	25601	59
PORTJEFF_138_69__BK 8	BK 8	138	129	159	212	25600	53
PORTJEFF-HOLBROOK_138_886	886	138	351	405	487	25540	1
PORTJEFF-SUPERCON_138_862	862	138	351	405	487	25539	1
PYRITES_-COLTON___115_7-PC	7-PC	115	93	101	107	26086	26
QUAKERRD-MACEDON___115_930	930	115	68	85	112	25093	33
QUAKERRD-PANNELL___115_925	925	115	351	372	414	25682	66
QUAKERRD-PANNELRG_115_914	914	115	265	295	335	25261	1
QUAKERRD-SLEIGHT___115_980(13)	980(13)	115	187	206	221	25079	85
QUAKERRD-STA_204___115_908	908	115	289	305	335	26286	51
QUENBRDG-VERNON___138_31281	31281	138	413	550	602	25159	161
QUENBRDG-VERNON___138_31282	31282	138	413	550	602	25160	106
QUENSBRY-CEDAR___115_10	10	115	156	170	181	26140	49
QUENSBRY-SHERMAN___115_17-QS	17-QS	115	141	144	165	26142	55
RAINEY__-FARRAGUT_345_61	61	345	698	840	1300	25152	43
RAINEY__-FARRAGUT_345_62	62	345	739	854	1293	25253	39
RAINEY__-FARRAGUT_345_63	63	345	698	840	1300	25254	43
RAINEY__-VERNON___138_36311	36311	138	280	325	413	25296	107
RAINEY__-VERNON___138_36312	36312	138	295	353	409	25297	57
RAMAPO___345_138_BK 1300	1300	345	451	546	619	25441	133
RAMAPO___345_138_BK 2300	2300	345	451	546	619	25442	136
RAMAPO___345_345_PAR3500	PAR3500	345	656	849	1093	25370	95
RAMAPO___345_345_PAR4500	PAR4500	345	728	931	1093	25371	95
RAMAPO___500_345_BK 1500	BK 1500	345	1160	1419	1923	25656	189
RAMAPO__-BUCHAN_N_345_Y94	Y94	345	1823	2015	2557	25184	169
RAMAPO__-LADENTWN_345_W72	W72	345	1823	2015	2557	25233	92
RAMAPOOR-TALLMAN___138_60	60	138	456	478	500	25880	149
REYNOLDS_345_115_BK 2	BK 2	345	585	676	796	25403	226
REYNOLDS-ALPS_____345_1-AR	1-AR	345	1912	1912	1912	25587	211
REYNOLDS-GREENBSH_115_9-RG	9-RG	115	398	398	398	26129	98
REYNOLDS-RVSD_TAP_115_4	4	115	239	239	239	325648	22
RICHFELD-ESPRGFLD_115_942	942	115	119	120	120	26176	18
RIDGE_RD-HILLSIDE_115_963	963	115	133	145	149	26190	13
RIDGE_RD-HILLSIDE_115_978-1	978-1	115	133	149	162	26191	8
RIVERSDE-RVSD_TAP_115_4	4	115	239	239	239	26144	22
RIVERSDE-TRINITY___115_18	18	115	159	178	258	26491	55
RIVERSDE-TRINITY___115_19	19	115	214	256	311	26492	63
ROBSNRD-STOLLERD_230_65	65	230	673	717	717	25065	215
ROCHESTR_345_115_BK 1	BK 1	345	582	630	630	25412	115
ROCHESTR_345_115_BK 2	BK 2	345	390	476	478	25432	137
ROCHESTR_345_115_BK 3	BK 3	345	582	630	630	25446	115
ROCHESTR_345_115_BK 5	BK 5	345	546	630	630	325381	233
ROCHESTR-PANNELL___345_RP1	RP1	345	1591	1745	1904	25192	273
ROCHESTR-PANNELL___345_RP2	RP2	345	1591	1745	1904	25172	274
ROCKHILL-MNTNDALE_115_957	957	115	120	120	120	325615	19
ROCKTVRN_345_115_BK TR1	BK TR1	345	485	530	530	25406	34

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
ROCKTVRN_345_115_BK TR3	BK TR3	345	485	533	560	26168	34
ROCKTVRN-RAMAPO__345_77	77	345	1822	2010	2271	25183	915
ROCKTVRN-SUGRLOAF_115_SL	SL	115	179	196	206	25420	0
ROME____-ONEIDA__115_1-RO	1-RO	115	168	187	216	26112	56
RONKOKMA-HOLBROOK_138_875	875	138	572	628	698	25541	46
ROSA_RD_-GE_R_D__115_14	14	115	245	257	294	26145	43
ROSETON_-EFISHKIL_345_305	305	345	2528	2772	3133	25108	1081
ROSETON_-ROCKTVRN_345_311	311	345	1713	1885	2102	25069	137
ROTTRDAM_230_115_BK 6	BK 6	230	406	447	585	25407	134
ROTTRDAM_230_115_BK 7	BK 7	230	346	396	448	25392	130
ROTTRDAM_230_115_BK 8	BK 8	230	377	427	474	25413	103
ROTTRDAM-BURDECK__115_17-RB	17-RB	115	141	144	165	25129	14
ROTTRDAM-BURDECK__115_19-RB	19-RB	115	128	135	152	26146	36
ROTTRDAM-CURRY_RD_115_11	11	115	141	144	165	25869	46
ROTTRDAM-FRONT_ST_115_16	16	115	268	293	317	26147	96
ROTTRDAM-SWAGRTWN_115_1	1	115	478	478	478	26429	84
ROTTRDAM-SWAGRTWN_115_2	2	115	282	288	318	26430	91
ROTTRDAM-WOODLAWN_115_35	35	115	141	144	165	25865	33
RULAND__-HOLBROOK_138_882	882	138	572	628	698	25538	11
RULAND__-PILGRIM__138_661	661	138	587	587	587	25310	21
RULAND__-PILGRIM__138_662	662	138	572	593	593	25311	21
RYAN____-PLATSBRG_230_RYP-2	RYP-2	230	288	320	356	25273	139
RYNDS_HL-HIGHLAND_115_HR	HR	115	237	267	293	325825	8
RYNDS_HL-INWOOD__115_IR	IR	115	219	232	255	26248	19
S HERO__-PLATSBRG_115_PV20	PV20	115	236	274	274	25027	111
S.MAHWAH-RAMAPOOR_138_51	51	138	282	309	321	25888	75
S.OSWEGO-CURTIS__115_10	10	115	199	199	199	25511	57
S.OSWEGO-HAMRHILL_115_6-IH	6-IH	115	139	144	161	25513	46
S.OSWEGO-NINEMILE_115_1-SN	1-SN	115	141	144	159	25501	22
S.OWEGO_-GOUDEY__115_961	961	115	143	157	167	25725	28
S.OWEGO_-NWAVERLY_115_962-2	962-2	115	143	157	167	25727	16
S.PERRY_-MEYER____115_934	934	115	106	116	120	26194	55
S.RIPLEY-DUNKIRK__230_68	68	230	511	564	607	25045	183
S42____-S124____115_932	932	115	176	243	454	325827	134
SABICO__-LONGLANE_115_7	7	115	199	199	199	26501	85
SALAMANC_HOMER_HL_115_153	153	115	156	159	159	325763	16
SALAMANC_HOMER_HL_115_154	154	115	156	159	159	325764	20
SANDBORN-LOCKPORT_115_102-1	102-1	115	285	300	318	26052	112
SANDDOCK-NCHELSEA_115_SC	KC	115	256	282	315	26249	72
SANDSTON-COLTON__115_4-SC	4-SC	115	222	234	278	26084	1
SANDSTON-COLTON__115_5-SC	5-SC	115	222	234	278	26085	4
SANDY PD-TEWKSBRY_345_337	337	345	2022	2182	2379	26366	32
SANDY PD-WACHUSST_345_314	314	345	2022	2325	2795	26352	128
SANDY PD-WACHUSST_345_343	343	345	1600	1760	1982	25716	133
SAWYER__-HUNTLEY__230_77	77	230	691	760	848	325043	253
SAWYER__-HUNTLEY__230_78	78	230	691	760	848	325044	254
SAWYER__-SUNY_77__230_79	79	230	691	760	800	325045	340
SAWYER__-SUNY_BUF_230_80	80	230	691	760	848	325046	337

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
SBATAVIA-GOLAH___115_119	119	115	168	185	196	26012	33
SCHODACK-GREENBSH_115_13	13	115	168	199	199	325804	73
SCOBIE__-AMHERST__345_380	380	345	1697	1697	1697	25708	349
SCOBIE__-SEABROOK_345_363	363	345	1494	1494	1494	26378	535
SCOTAFILT-MASONCR__115_909	909	115	189	207	221	325702	2
SCRIBA__-FITZPTRK_345_FS-10	FS-10	345	1434	1434	1912	25076	109
SCRIBA__-VOLNEY___345_20-SV	20-SV	345	1474	1626	1881	25204	731
SCRIBA__-VOLNEY___345_21-SV	21-SV	345	1912	1912	1912	25314	1010
SENECA_A-GARDNVLB_230_71	71	230	306	354	370	25856	9
SENECA_B-GARDNVLB_230_72	72	230	306	354	370	25857	9
SHALETON-CLVRBANK_115_141	141	115	107	117	123	325875	42
SHALETON-LAKEVIEU_115_141	141	115	107	117	123	325874	38
SHENDOAH-EFISHKIL_115_EF	EF	115	243	267	293	26251	12
SHERMAN_-SPIERFLS_115_17-SS	17-SS	115	141	144	159	26148	29
SHERMCRK-ACADEMY__138_331	331	138	345	431	546	325755	149
SHERMCRK-ACADEMY__138_332	332	138	345	431	546	325754	149
SHERMCRK-E179THST_138_15031	15031	138	184	235	371	25156	144
SHERMCRK-E179THST_138_15032	15032	138	184	235	371	25157	144
SHOEMAKR_138_69_BK 711	BK 711	138	212	281	319	26694	59
SHOR_NPX-SHOREHAM_138_NPX_CSC	NPX_CSC	138	601	650	747	325153	330
SHORE_RD_345_138_BK 1	BK 1	345	522	641	641	25439	289
SHORE_RD_345_138_BK 2	BK 2	345	522	641	641	25440	288
SHORE_RD-GLENWD___138_365	365	138	572	628	698	25205	90
SHORE_RD-GLENWD___138_366	366	138	586	650	747	25154	99
SHORE_RD-LAKSUCSS_138_367	367	138	260	409	632	25145	193
SHORE_RD-LAKSUCSS_138_368	368	138	260	409	632	25150	193
SHOREHAM-MILLERPL_138_879	879	138	501	553	678	25117	33
SHOREHAM-WILDWOOD_138_863	863	138	555	590	678	25115	134
SHOREHAM-WILDWOOD_138_867	867	138	501	553	678	25114	132
SLEIGHT_-CLYDE___115_971(3)	971(3)	115	152	166	175	26686	48
SMAHWAH_345_138_BK 258	258	345	441	516	559	25393	87
SMAHWAH_-RAMAPO___345_69	69	345	1601	2010	2268	25021	562
SMAHWAH_-RAMAPO___345_70	70	345	1822	2010	2552	25259	528
SPIERFLS-BUTLER___115_4-SFB	4-SFB	115	128	135	152	26136	39
SPIERFLS-MOHICAN__115_7	7	115	141	144	165	26435	33
SPIERFLS-QUENSBRY_115_5-SFQ	5-SFQ	115	128	135	152	26141	53
SPIERFLS-TAPBROOK_115_2	2	115	282	288	318	25874	31
SPIERFLS-TAPBROOK_115_302	302	115	222	234	278	25873	39
SPRNBRK__345_138_BK N7	BK N7	345	382	451	472	25628	183
SPRNBRK__345_138_BK S6	BK S6	345	382	451	472	25625	153
SPRNBRK_-ACADEMY__345_M29	M29	345	536	775	1369	325756	301
SPRNBRK_-DUNWODIE_138_99941	99941	138	385	464	464	25245	152
SPRNBRK_-DUNWODIE_138_99942	99942	138	409	438	464	25246	183
SPRNBRK_-DUNWODIE_345_W75	W75	345	2849	3170	3640	25071	253
SPRNBRK_-EGRDNCTR_345_Y49	Y49	345	693	940	1360	25105	644
SPRNBRK_-TREMONT__345_X28	X28	345	542	725	1220	25175	343
SPRNBRK_-W49TH_ST_345_M51	M51	345	799	956	1543	25053	336
SPRNBRK_-W49TH_ST_345_M52	M52	345	799	956	1543	25223	336

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
ST_60_36-LOCKPORT_115_36-2	36-2	115	176	181	199	26049	27
ST_60_37-LOCKPORT_115_37-2	37-2	115	176	181	199	26048	28
STA_128_-STA_82___115_906	906	115	155	171	181	26303	22
STA_129_-GARDNVLB_115_39-2	39-2	115	168	181	209	26036	36
STA_135_-STA_230___115_929	929	115	282	298	313	325839	61
STA_154_-GARDNVLB_115_38-2	38-2	115	168	203	237	26039	40
STA_158_-STA_128___115_924	924	115	155	171	181	26654	18
STA_162_-S.PERRY___115_906- 7X	906-7X	115	143	157	167	25062	31
STA_162_-STA_158___115_924	924	115	155	171	181	26653	8
STA_204___115_34___BK 1	BK 1	115	56	67	112	70539	29
STA_204___115_34___BK 2	BK 2	115	56	67	112	70540	34
STA_204_-S124_____115_911	911	115	321	359	436	26307	132
STA_23___-S42_____115_920	920	115	92	111	137	70027	0
STA_23___-STA_33___115_901	901	115	92	111	137	70028	50
STA_230_-QUAKERRD_115_929	929	115	282	298	313	325840	54
STA_33___115_34___BK10	BK 1_2	115	74	80	90	70541	45
STA_33___-MORTIMER_115_901	901	115	223	235	279	25097	0
STA_37___115_34___BK 8	BK 8	115	50	59	100	70542	30
STA_37___-STA_48___115_926	926	115	351	373	414	26314	49
STA_37___-STA_67___115_926	926	115	250	280	300	26313	79
STA_48___115_34___BK 6	BK 6	115	60	71	73	70544	19
STA_48___115_34___BK 9	BK 9	115	67	74	112	70543	19
STA_67___-ROCHESRG_115_922	922	115	343	391	416	26321	136
STA_67___-STA_82___115_903	903	115	343	416	433	26322	54
STA_82___-MORTIMER_115_7X8272	7X8272	115	337	414	460	25098	184
STA_82___-ROCHESRG_115_904	904	115	608	657	657	25081	219
STA_82___-ROCHESRG_115_905	905	115	608	657	657	26305	204
STA_82___-STA_33___115_902	902	115	225	239	239	70058	28
STATE_ST-WRGHTAVE_115_976	976	115	231	239	239	26200	22
STERLING-RULAND___138_663	663	138	245	304	338	26498	83
STJHNVLE-MARSHVLE_115_11	11	115	159	159	159	26127	31
STLAWRNC_230A_230C_PS 33	PS 33	230	285	298	363	25118	0
STLAWRNC_230B_230D_PS 34	PS 34	230	356	375	525	25119	0
STOLLERD_345_115_BK 3	BK 3	345	333	378	420	25461	14
STOLLERD_345_115_BK 4	BK 4	345	341	390	420	25462	14
STOLLERD-HISHELDN_230_67	67	230	506	556	603	25064	197
STONCREK-WETHSRFD_230_83	83	230	506	556	603	325973	256
STONER___-ROTTRDAM_115_12-SR	12-SR	115	102	102	102	25680	11
STONYRDG_230_115_BK1	BK1	230	291	336	336	325811	92
STONYRDG-HILLSIDE_230_72	72	230	610	669	737	325810	139
SUGRLOAF_138_69___BK 7108	BK 7108	138	192	226	253	25891	38
SUGRLOAF-RAMAPOOR_138_26	26	138	314	343	356	25326	0
SULLVNPB-STONYRDG_115_712	712	115	277	320	320	325809	92
SUNY_77_-GARDNVLB_230_79-1	79-1	230	691	760	790	25165	322
SUNY_BUF-GARDNVLB_230_80	80-1	230	691	760	848	25196	320
SWAGTN_E-BALLSTNE_115_1	1	115	238	238	238	26125	78
SWAGTN_W-BALLSTNW_115_2	2	115	238	238	238	26124	83
SWANROAD-LOCKPORT_115_103-1	103-1	115	211	217	242	26051	13

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
SWANROAD-LOCKPORT_115_104-2	104-2	115	199	199	199	26050	0
SWEDEN_A-MORTIMER_115_111-2	111-2	115	129	149	153	25347	37
SWEDEN_B-MORTIMER_115_113-2	113-2	115	129	149	153	25348	24
SYLVANLK-PAWLING_115_990	990	115	179	179	179	26156	111
SYOSSET_138_69_BK 5	BK 5	138	258	304	338	26565	24
SYOSSET_-LOCUSTGR_138_559	559	138	555	590	678	25904	357
TALLMAN_-MONSEY_138_602	602	138	456	478	500	325609	113
TAPBLSTN-TAPBROOK_115_302	302	115	268	293	317	325898	1
TAYLORVL-BULYMO_115_6	6	115	128	135	145	26070	43
TAYLORVL-LOWVILLE_115_5-TL	5-TL	115	128	135	152	26107	49
TEALLAVE-ASH_115_7-TA	7-TA	115	123	148	148	26063	31
TEALLAVE-ASH_115_8-AT	8-AT	115	123	148	148	26117	31
TEALLAVE-BM_CC_GM_115_6	6	115	227	239	239	26154	68
TEALLAVE-CURTIS_115_13	13	115	199	199	199	326066	7
TEALLAVE-ONEIDA_115_2-OT	2-OT	115	141	144	159	25895	52
TEALLAVE-PETERBOR_115_5	5	115	141	144	165	325164	62
TELGRAPH_115_34_114_BK 2	BK 2	115	66	79	79	26509	21
TELGRAPH_115_34_115_BK 1	BK 1	115	66	79	79	26013	26
TELGRAPH-MORTIMER_115_114-2	114-2	115	129	149	153	25349	46
TELGRAPH-N.AKRN_1_115_107-2	107-2	115	231	231	231	26508	51
TEMPLE_-PEAT ST_115_10-TP	10-TP	115	145	176	179	26715	59
TICONDRG-REPUBLIC_115_914(2)	914(2)	115	102	113	125	26470	7
TILDEN_-DEWITT_115_19-TD	19-TD	115	222	234	239	26092	27
TODDHILL-FISHKPLN_115_A	A	115	174	190	202	325157	11
TREMONT_138A_138B_BK 11	BK 11	138	271	329	377	25649	171
TREMONT_138C_138D_BK 12	BK 12	138	271	329	377	25650	171
TREMONT_345_138_BK 11	BK 11	345	299	350	407	25473	171
TREMONT_345_138_BK 12	BK 12	138	299	350	407	25474	172
TULLERHL-CLRKSCRN_115_1-716	1-716	115	156	170	181	26192	32
VALKIN_-FT._ORAN_115_15	15	115	159	159	159	325685	81
VALLEY_-FAIRFIEL_115_12	12	115	141	144	159	325743	46
VALLYSTR_138A_138B_PAR	B_PAR	138	366	450	450	25607	106
VALLYSTR-BARRETT_138_291	291	138	261	334	434	25312	70
VALLYSTR-BARRETT_138_292	292	138	261	334	434	25313	79
VALLYSTR-EGRDNCTY_138_262	262	138	189	263	458	25244	159
VERNON_-GREENWD_138_31231	31231	138	195	249	310	25337	25
VERNON_-KENTAVE_138_31232-1	31232-1	138	195	249	310	26123	76
VINGR_TP-VINEGAR_115_917 TAP	917 TAP	115	149	172	215	26455	8
VOLNEY_-CLAY_345_6-CV	6-CV	345	1431	1605	1881	25198	491
VOLNEY_-MARCY_345_19	19	345	1434	1793	2297	25345	690
VRNON VT-FITZWILL_345_379	379	345	896	896	896	26388	186
VT YANK_-VRNON VT_345_3340	3340	345	1266	1266	1434	25717	23
W.NYACK_138_69_BK 221	BK 221	138	212	281	319	26334	54
W.NYACK_-SNKEHLRD_138_562	563	138	212	281	319	325906	54
W_ERIAVE-SULLVNP_115_711	711	115	299	327	360	325808	71
W49TH_ST-E13THSTA_345_M54	M54	345	772	1009	1575	25228	19
W49TH_ST-E13THSTA_345_M55	M55	345	772	1009	1575	25222	43
WADNGRIV-NSHORBCH_138_878	878	138	555	590	678	325642	30

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
WADNGRIV-SHOREHAM_138_891	891	138	501	553	678	25342	30
WALDEN__-DEPEW_TP_115_54-2	54-2	115	168	212	239	26024	31
WALDEN__-WALDN_A2_115_BK 1	BK 1	115	44	44	51	25429	9
WALDWICK_345_230_BK1	BK1	345	622	763	850	25479	337
WALDWICK_345_230_BK2	BK2	345	630	768	841	25480	337
WALDWICK_345_230_BK3	BK3	345	690	852	952	25481	326
WALDWICK-SMAHWAH__345_J3410	J3410	345	743	1094	1974	25032	474
WALDWICK-SMAHWAH__345_K3411	K3411	345	746	1093	1975	25039	528
WARREN__-FALCONER_115_171	171	115	116	116	119	25015	6
WATKINRD-INGHAM_C_115_2-WI	2-WI	115	141	144	159	25805	54
WATRCURE_345_230_BK 1	BK 1	345	494	590	600	25402	166
WATRCURE-OAKDALE__230_71	71	230	318	435	440	25179	51
WATRCURE-OAKDALE__345_31	31	345	1076	1076	1076	25178	117
WEST BUS-SILLSRD__138_873	873	138	601	650	747	325618	32
WETHSRFD-MEYER____230_85	85	230	506	556	603	325623	287
WHAVSTOR-LOVETT__138_53	53	138	282	309	321	25884	10
WHAVSTOR-STONYPNT_138_542	542	138	282	309	321	326049	16
WHAVSTRW_345_138_BK 194	BK 194	345	451	546	619	25447	165
WHITEHAL-COMSTKNM_115_13	13	115	141	144	159	25903	23
WHITEHAL-TICONDRG_115_3	3	115	141	144	159	26471	33
WICCOPEE-SHENDOAH_115_FS	FS	115	243	260	282	325773	69
WILDWOOD_138_69__BK 4	BK 4	138	258	318	424	26550	91
WILDWOOD-RIVRHEAD_138_890	890	138	370	392	434	25905	114
WILLET__-ENORWICH_115_945-1	945-1	115	133	149	162	25732	66
WILLIS__230_115_BK 1	BK 1	230	172	201	225	25388	58
WILLIS__230_115_BK 2	BK 2	230	172	201	225	25390	58
WILLIS__-CHAT_TAP_115_911	911	115	173	187	200	26204	56
WILLIS__-PATNODE__230_WPN-1	WPN-1	230	478	478	569	325565	57
WILLIS__-RYAN____230_WRY-2	WRY-2	230	478	478	569	325566	54
WILLWBRK-FRESHKLS_138_29211-2	29211-2	138	207	275	450	25319	193
WILLWBRK-FRESHKLS_138_29212-2	29212-2	138	207	275	450	25320	196
WOLF_RD_-MENANDS__115_10	10	115	128	135	152	26255	44
WOOD_ST__345_115_BK 1	BK 1	345	350	400	420	25437	117
WOOD_ST__345_115_BK 2	BK 2	345	358	412	420	25438	97
WOOD_ST_-MILLWOOD_345_W80	W80	345	1976	2387	2895	25148	599
WOOD_ST_-PLSNTVLE_345_Y87	Y87	345	2103	2282	2542	25132	711
WOODARD_-ELBRIDGE_115_4	4	115	190	208	221	325316	11
WOODLAWN-STATE_CA_115_12	12	115	148	166	166	26490	1
WOODSTNY-AMAWALK__115_996	996	115	261	287	311	25574	68
WRGHTAVE-MILLIKEN_115_973	973	115	231	260	286	26195	11
WWDBURNY_115_69__BK 1	BK 1	115	50	50	50	25404	10
WYNTKLN-REYNOLDS_115_13-WR	13-WR	115	227	248	268	26143	80
YAHNUNDA-EDIC_PTR_115_3	3	115	141	144	159	26515	56
ZIMMERM1-HUNTLEY__115_130-1	130-1	115	211	217	239	26043	95
ZIMMERM2-HUNTLEY__115_133-2	133-2	115	211	217	242	26042	112

E. INTERFACE DEFINITIONS

NYISO OPERATING INTERFACES & OASIS TRANSMISSION PATHS

DYSINGER EAST		
<i>West (Zone A) – Genesee (Zone B)</i>		
Name	Line ID	Voltage (kV)
*Somerset-Rochester (Station 80)	SR1-39	345
Niagara-Rochester*	NR2	345
*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
<i>West (Zone A) – Central (Zone C)</i>		
*Stolle Road – High Sheldon	67	230
*Andover - Palmiter	932	115

WEST CENTRAL		
<i>Genesee (Zone B) – Central (Zone C)</i>		
Name	Line ID	Voltage (kV)
Pannell Rd-Clay*	PC1	345
Pannell Rd-Clay*	PC2	345
*Quaker-Macedon	930	115
*Mortimer-Hook Rd- Elbridge	1/7	115
*Mortimer-Elbridge	2	115
*Pannell-Farmington	4	115
*Quaker-Sleigh Rd	13	115
*St. 162 - S. Perry	906	115
Hook Rd (RGE-NGRID)	TB#3	34.5/115
Clyde	TR1	34.5/115
(Farmington 34.5/115kV)	#7	34.5/115
(Farmtn 34.5/115kV&12/115 kV)	#4	34.5/115 & 12/115
<i>West (Zone A) – Central (Zone C)</i>		
*Stolle Road – High Sheldon	67	230
*Andover - Palmiter	932	115

* indicates the metered end of the circuit

MOSES SOUTH		
<i>North (Zone D) – Mohawk Valley (Zone E)</i>		
Name	Line ID	Voltage (kV)
*Massena-Marcy	MSU1	765
*Moses-Adirondack	MA1	230
*Moses-Adirondack	MA2	230
*Dennison-Colton	4	115
*Dennison-Colton	5	115
*Alcoa-N. Ogdensburg	13	115
Malone-Colton*	3	115

UPNY-CONED		
<i>Hudson Valley (Zone G) – Millwood (Zone H)</i>		
Name	Line ID	Voltage (kV)
*Ladentown-Buchanan South	Y88	345
*Pleasant Valley-Wood St.	F30	345
*Pleasant Valley-Millwood	F31	345
*Pleasant Valley-E. Fishkill	F36	345
*Pleasant Valley-E. Fishkill	F37	345
*Ramapo-Buchanan North	Y94	345
Roseton-E. Fishkill*	305	345
*Fishkill Plains–Sylvan Lake	FP	115
East Fishkill 115/345*	BK1	115/345
East Fishkill 115/345*	BK2	115/345

CENTRAL EAST		
<i>Mohawk Valley (Zone E) – Capital (Zone F)</i>		
Name	Line ID	Voltage (kV)
Edic-New Scotland*	14	345
Marcy-New Scotland*	18	345
Porter-Rotterdam*	30	230
Porter-Rotterdam*	31	230
East Springfield - Inghams*	942	115
Inghams PAR	PAR	115
Inghams Bus Tie	R81	115
<i>North (Zone D) – ISONE (Zone N)</i>		
*Plattsburgh - Grand Isle	PV-20	115

* indicates the metered end of the circuit

TOTAL EAST		
<i>Mohawk Valley (Zone E) – Capital (Zone F)</i>		
Name	Line ID	Voltage (kV)
Edic-New Scotland*	14	345
Marcy-New Scotland*	18	345
*Fraser-Gilboa	GF5-35	345
Porter-Rotterdam*	30	230
Porter-Rotterdam*	31	230
East Springfield - Inghams*	942	115
Inghams PAR	PAR	115
Inghams Bus Tie	R81	115
<i>Mohawk Valley (Zone E) – Hudson Valley (Zone G)</i>		
Middletown-Rock Tavern*	MTR-34	345
Coopers-Rock Tavern*	CCRT-42	345
West Woodbourne 115/69*	T152	115/69
<i>North (Zone D) – ISONE (Zone N)</i>		
*Plattsburgh-Grand Isle	PV20	115
<i>PJM East (Zone P) – Hudson Valley (Zone G)</i>		
Hopatcong-Ramapo*	5018	500
*Waldwick- S.Mahwah	J3410	345
*Waldwick-S.Mahwah	K3411	345
<i>PJM East (Zone P) – NYC (Zone J)</i>		
Hudson-Farragut*	C3403	345
Hudson-Farragut*	B3402	345
Linden-Goethals*	A2253	230
<i>PJM (Rockland Electric) – Hudson Valley (Zone G)</i>		
*Cresskill – Sparkill	751	69
*Harings Corners – W. Nyack	701	69
*Harings Corners – Corporate Drive	703	138
*Montvale – Bluehill	44	69
*Montvale – Bluehill	43	69
*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*	BK258	138/345

* indicates the metered end of the circuit

SPRAIN BROOK-DUNWOODIE SOUTH		
<i>Dunwoodie (Zone I) – NYC (Zone J)</i>		
Name	Line ID	Voltage (kV)
*Dunwoodie-Mott Haven	71	345
*Dunwoodie-Mott Haven	72	345
Sprain Brook-Tremont*	X28	345
*Sprain Brook-West 49th Street	M51	345
*Sprain Brook-West 49th Street	M52	345
*Sprain Brook-Academy	M29	345
*Dunwoodie-Sherman Creek	99031	138
*Dunwoodie-Sherman Creek	99032	138
*Dunwoodie-East 179th Street	99153	138
<i>Long Island (Zone K) – NYC (Zone J)</i>		
*Lake Success-Jamaica	903	138
*Valley Stream-Jamaica	901L/M	138

CONED - LIPA		
<i>Dunwoodie (Zone I) – Long Island (Zone K)</i>		
Name	Line ID	Voltage (kV)
*Dunwoodie-Shore Road	Y50	345
*Sprain Brook-East Garden City	Y49	345
<i>NYC (Zone J) – Long Island (Zone K)</i>		
Jamaica-Valley Stream*	901L/M	138
Jamaica-Lake Success*	903	138

NYISO-ISONNE		
<i>North (Zone D) – ISONNE (Zone N)</i>		
Name	Line ID	Voltage (kV)
*Plattsburgh-Grand Isle	PV20	115
<i>Capital (Zone F) – ISONNE (Zone N)</i>		
*Alps-Berkshire	393	345
Rotterdam-Bear Swamp*	E205W	230
*Hoosick -Bennington	K6	115
*Whitehall-Blissville	K7	115
<i>Hudson Valley (Zone G) – ISONNE (Zone N)</i>		
Name	Line ID	Voltage (kV)
*Pleasant Valley-Long Mountain	398	345
Smithfield-Salisbury*	690	69

* indicates the metered end of the circuit

IESO (Ontario)-NYISO		
<i>Ontario East (Zone O) – North (Zone D)</i>		
Name	Line ID	Voltage (kV)
St. Lawrence-Moses*	L33P	230
St. Lawrence-Moses*	L34P	230
<i>Ontario South (Zone O) – West (Zone A)</i>		
Beck-Niagara*	PA301	345
Beck-Niagara*	PA302	345
Beck-Niagara*	PA27	230
*Beck-Packard	BP76	230
*Beck-Swan Rd.	BL104	115

PJM-NYISO		
<i>PJM East (Zone P) – NYC (Zone J)</i>		
Name	Line ID	Voltage (kV)
Hudson-Farragut*	C3403	345
Hudson-Farragut*	B3402	345
Linden-Goethals*	A2253	230
<i>PJM West – Central (Zone C)</i>		
*Homer City-Watercure	30	345
E. Towanda-Hillside*	70	230
Laurel Lake-Goudey*	952	115
*E. Sayre-N. Waverly	956	115
<i>PJM West – West (Zone A)</i>		
*Homer City-Stolle Rd	37	345
Erie East - South Ripley*	69	230
*Warren-Falconer	171	115
<i>PJM East (Zone P) – Hudson Valley (Zone G)</i>		
Hopatcong-Ramapo*	5018	500
*Waldwick-S.Mahwah	J3410	345
*Waldwick-S.Mahwah	K3411	345
<i>PJM (Rockland Electric) – Hudson Valley (Zone G)</i>		
*Cresskill – Sparkill	751	69
*Harings Corners – W. Nyack	701	69
*Harings Corners – Corporate Drive	703	138
*Montvale – Bluehill	44	69
*Montvale – Bluehill	43	69
*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*	BK258	138/345

* indicates the metered end of the circuit

F. ANNOTATED MUST OUTPUT

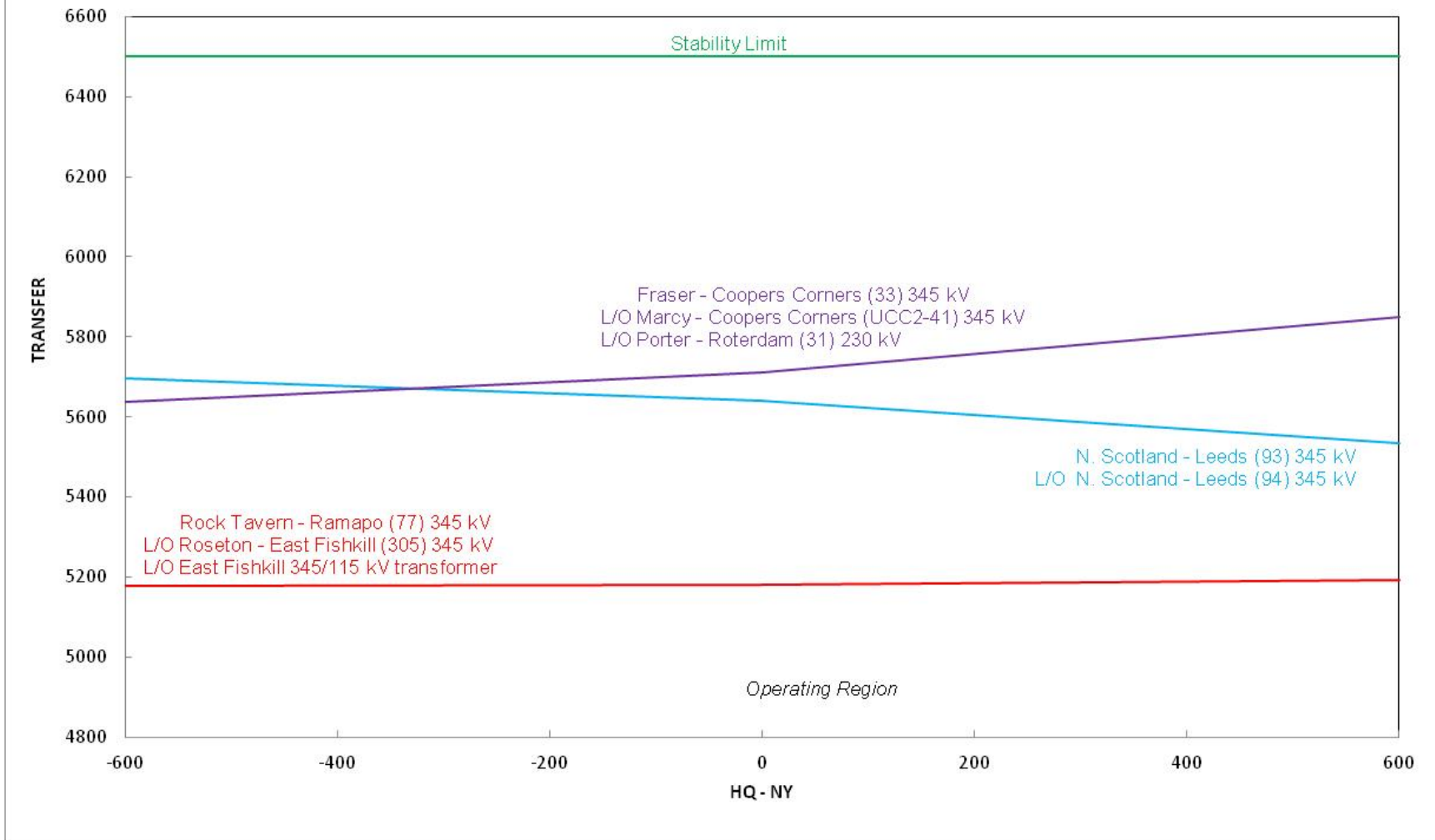
This Section Is Available Electronically If Requested

G. TRANSFER LIMIT SENSITIVITY GRAPHS

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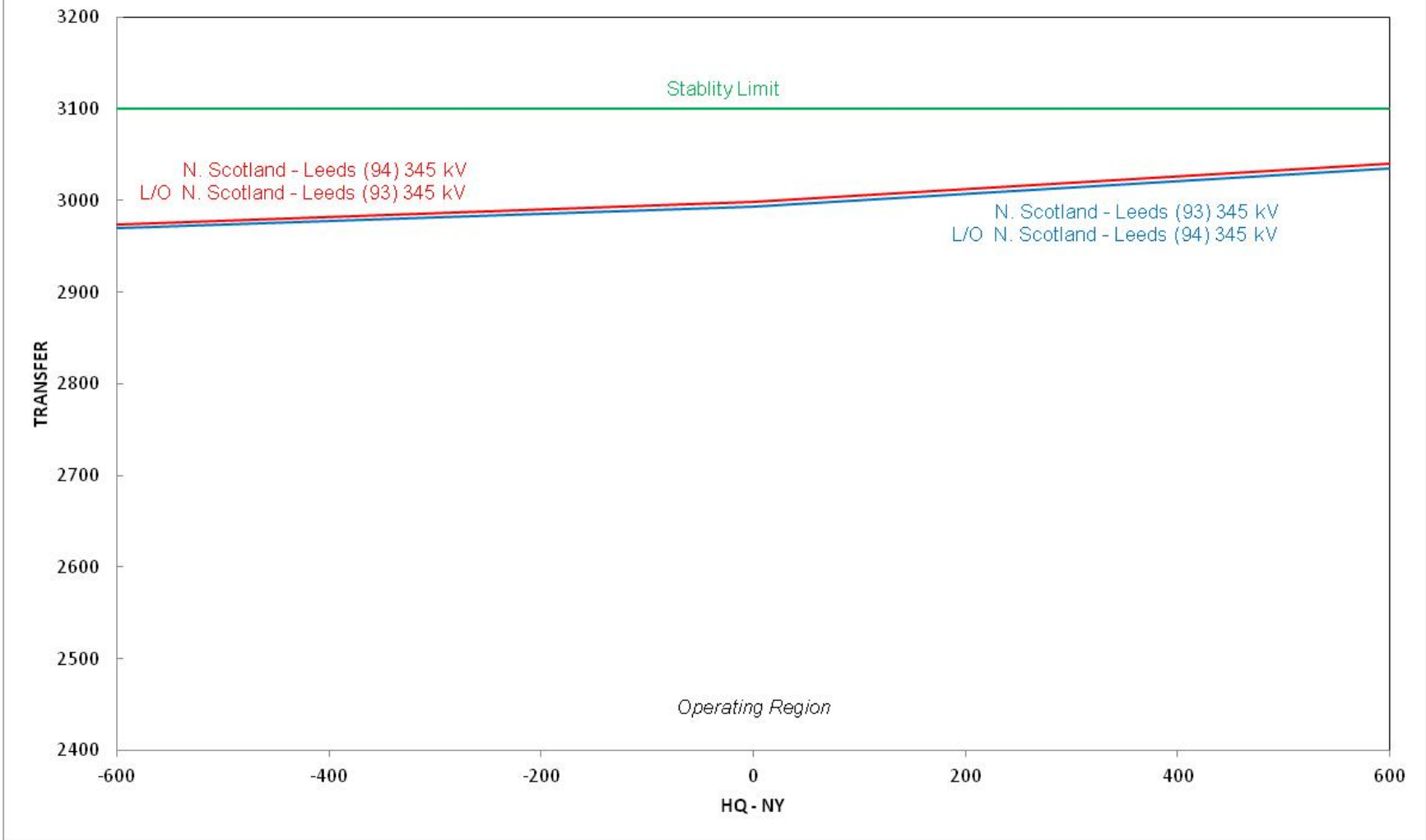
1. Total East vs. HQ-NY	G-1
2. Central East vs. HQ-NY	G-2
3. Moses South vs. HQ Export to New York	G-3
4. NE-NY vs. Norwalk-Northport PAR flow for Normal Transfer	G-4
5. NY-NE vs. Norwalk-Northport PAR flow for Normal Transfer	G-5
6. NYISO-IESO (ONTARIO) Transfer vs. L33P & L34P	G-6
7. IESO (ONTARIO)-NYISO Transfer vs. L33P & L34P	G-7

**Total East vs. HQ Export to New York
For Normal Transfer Criteria
Winter 2014-15**



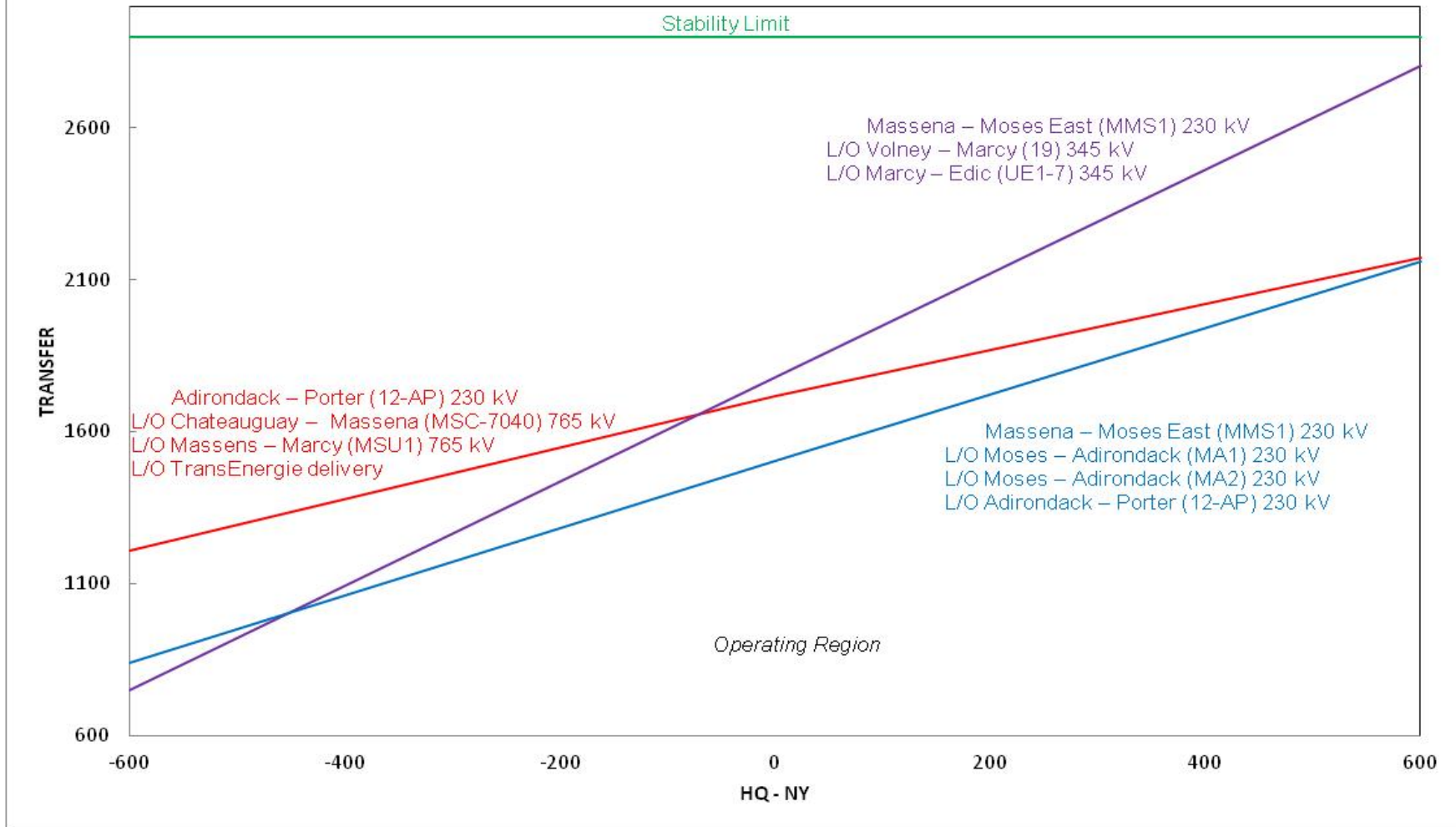
G-1

Central East vs. HQ Export to New York
For Normal Transfer Criteria
Winter 2014-15



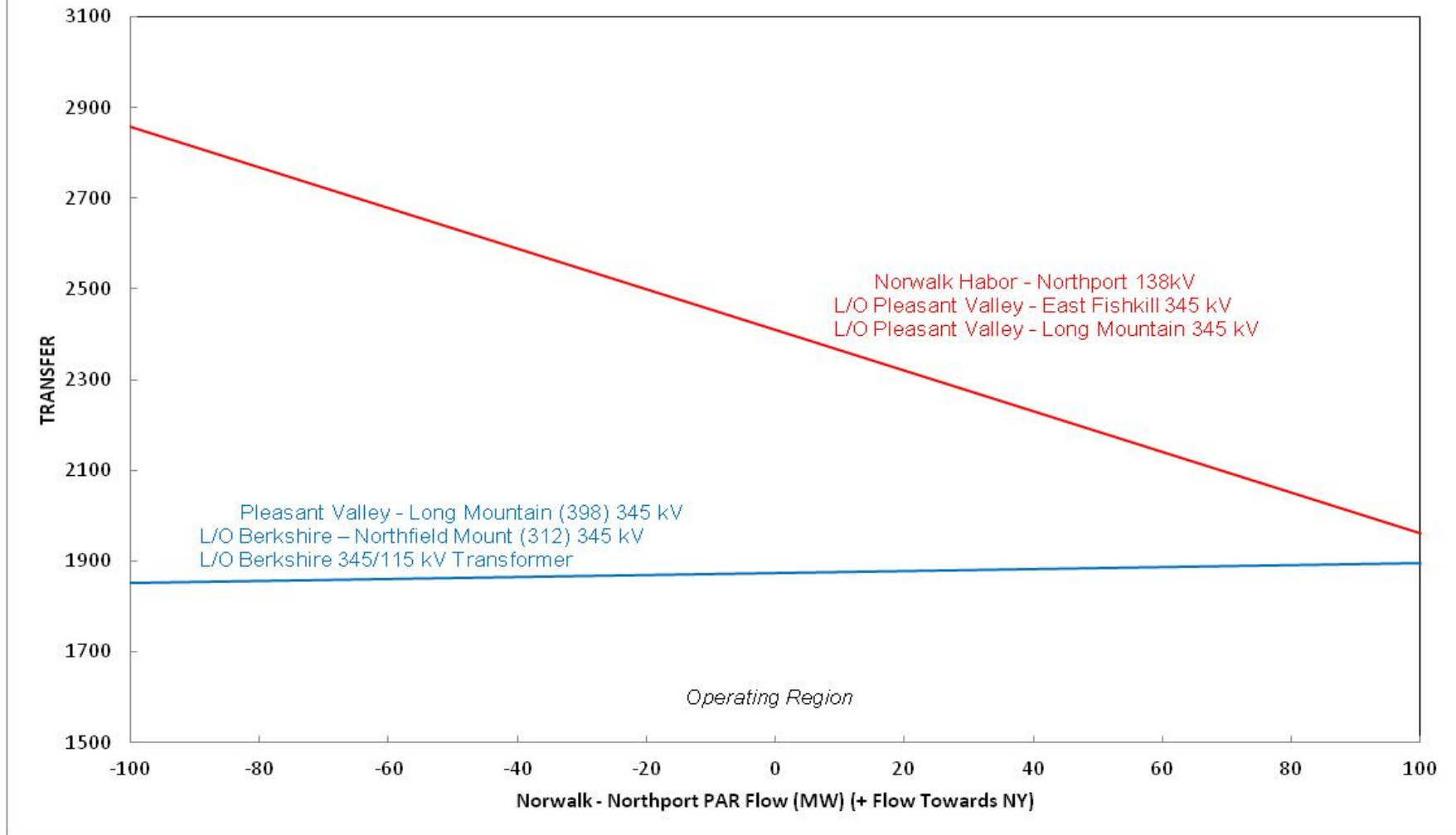
G-2

Moses South vs. HQ Export to New York
For Normal Transfer Criteria
Winter 2014-15



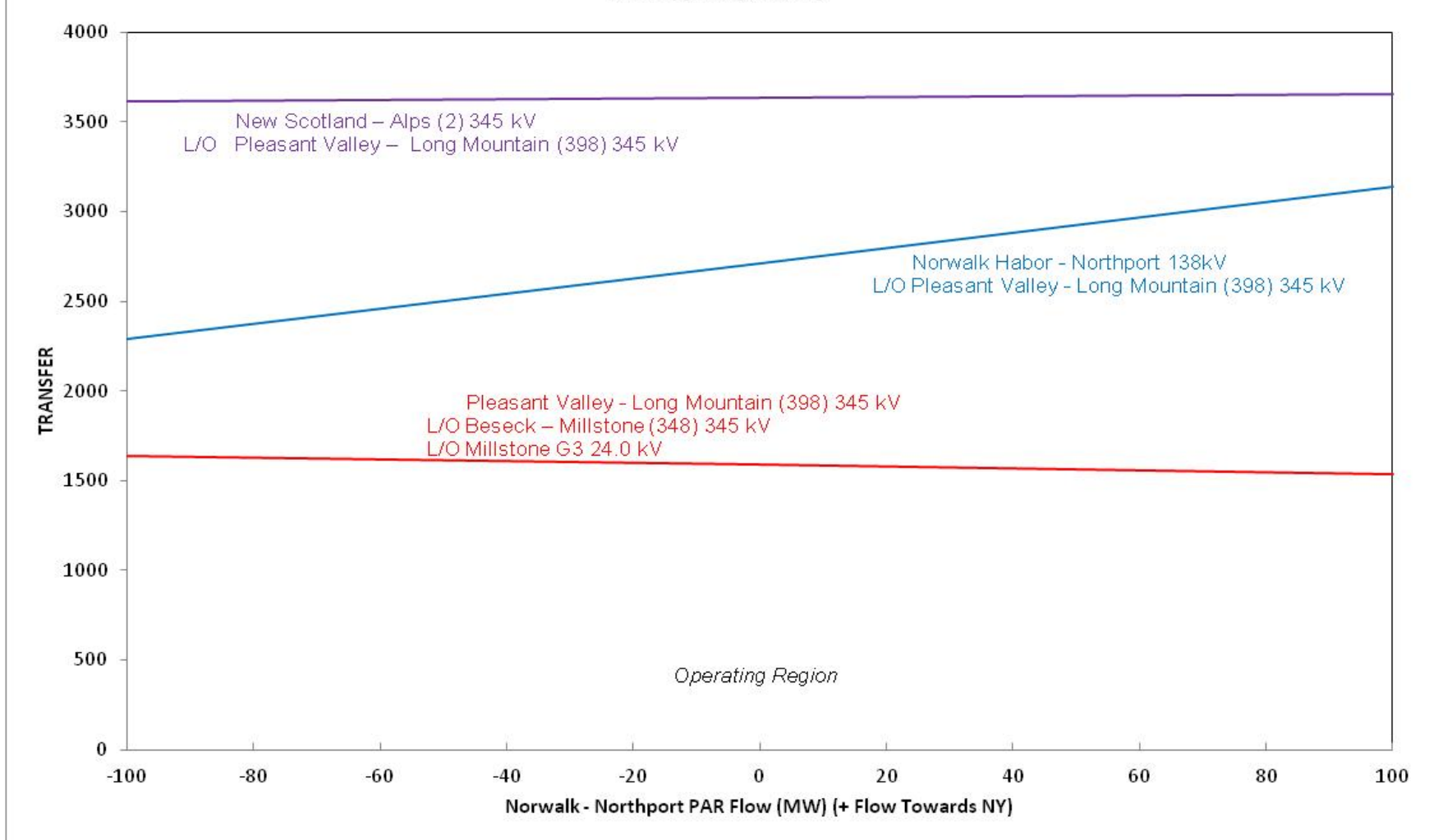
G-3

NE-NY vs. NORWALK-NORTHPORT PAR Flow
For Normal Transfer Criteria
Winter 2014-15



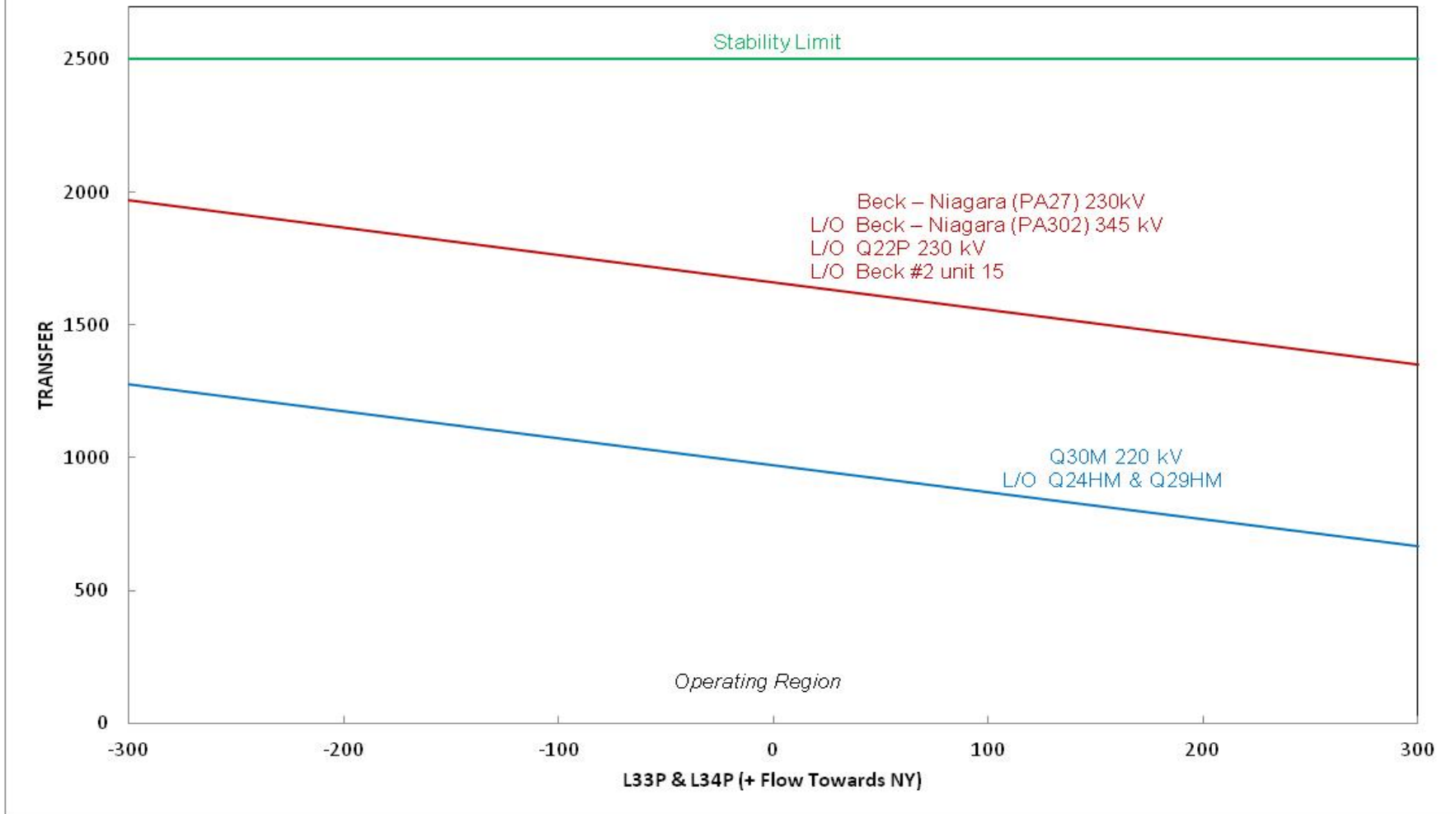
G-4

NY-NE vs. NORWALK-NORTHPORT PAR Flow
For Normal Transfer Criteria
Winter 2014-15



G-5

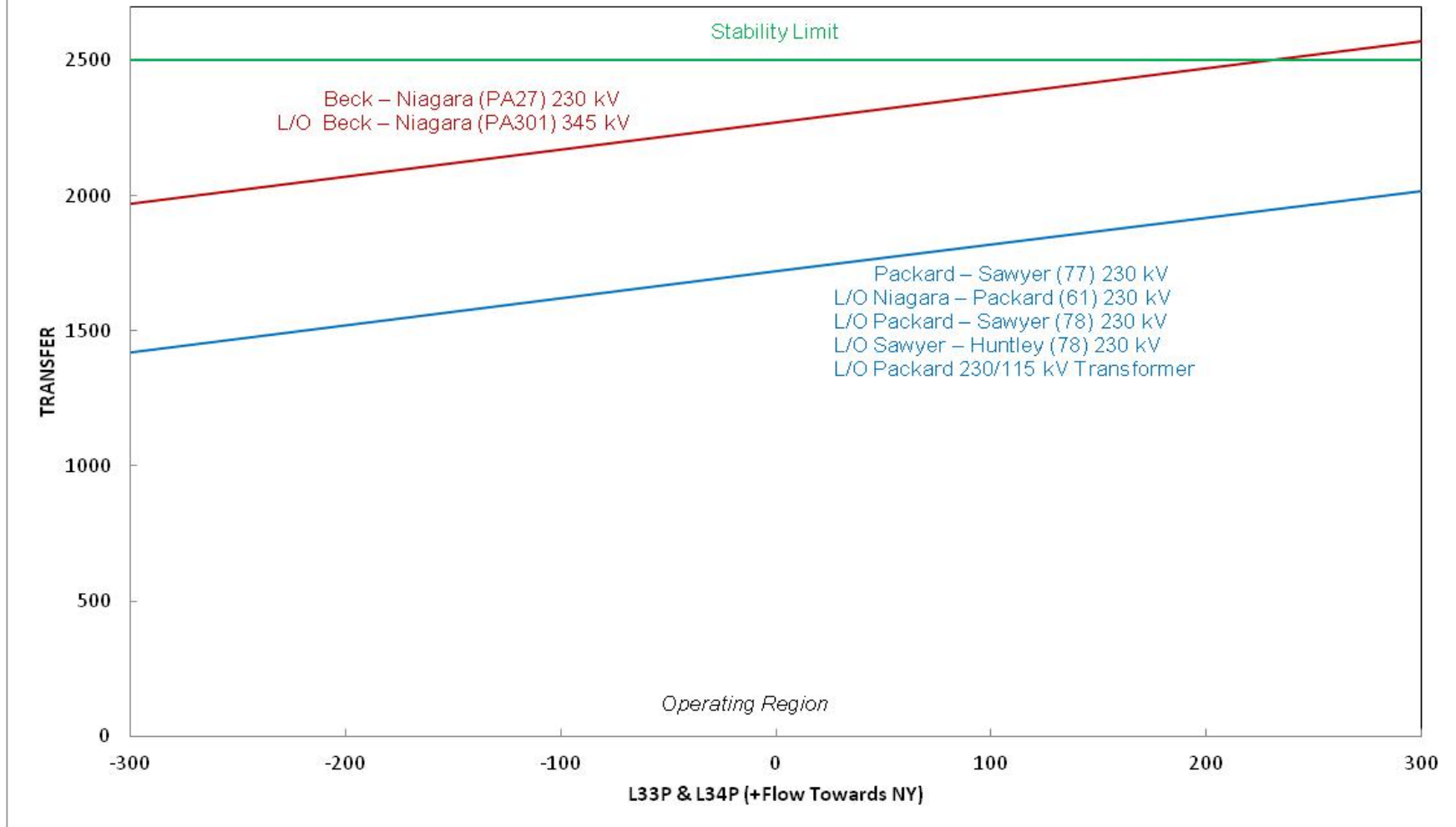
NY - IESO (Ontario) Transfer vs. L33P & L34P
For Normal Transfer Criteria
Winter 2014-15 with BP76 I/S



G-6

IESO (Ontario) - NY Transfer vs. L33P & L34P

For Normal Transfer Criteria
Winter 2014-15 with BP76 I/S



G-7

H. COMPARISON OF TRANSFER LIMITS WINTER 2014-15 vs. 2013-14

Comparison of Winter 2014-15 to Winter 2013-14 Thermal Limits

Interface		WINTER 2014-15		WINTER 2013-14		Delta
		Limit (MW)	Contingency	Limit (MW)	Contingency	
Dysinger East	Normal	3000	1	3050	1	-50
	Emergency	3325	2	3300	3	25
West Central	Normal	2100	1	2150	1	-50
	Emergency	2450	2	2400	3	50
UPNY - ConEd	Normal	4600	4	4625	4	-25
	Emergency	5050	5	5075	5	-25
Sprain Brook	Normal	3900	6	4025	6	-125
Dunwoodie-South	Emergency	4000	7	4125	7	-125
Con Ed - LIPA	Normal	950	8	925	10	25
	Emergency	1550	9	1525	11	25
Central East	MSC-7040 FLOW	HQ -> NY	600 MW	HQ -> NY	600 MW	
	Normal	3025	12	2975	12	50
	Emergency	3400	13	3350	13	50
	MSC-7040 FLOW		0 MW		0 MW	
	Normal	2975	12	2925	12	50
	Emergency	3350	13	3300	13	50
	MSC-7040 FLOW	NY -> HQ	600 MW	NY -> HQ	600 MW	
	Normal	2950	12	2900	12	50
	Emergency	3325	13	3275	13	50
Total East ²	MSC-7040 FLOW	HQ -> NY	600 MW	HQ -> NY	600 MW	
	Normal	5175	14	5075	14	100
	Emergency	6100	15	6125	15	-25
	MSC-7040 FLOW		0 MW		0 MW	
	Normal	5175	14	5050	14	125
	Emergency	6100	15	6100	15	0
	MSC-7040 FLOW	NY -> HQ	600 MW	NY -> HQ	600 MW	
	Normal	5175	14	5050	14	125
	Emergency	6100	15	6075	15	25
Moses - South	MSC-7040 FLOW	HQ -> NY	600 MW	HQ -> NY	600 MW	
	Normal	2150	16	2250	17	-100
	Emergency	2325	18	2925	20	-600
	MSC-7040 FLOW		0 MW		0 MW	
	Normal	1500	16	1800	17	-300
	Emergency	1600	18	2200	20	-600
	MSC-7040 FLOW	NY -> HQ	600 MW	NY -> HQ	600 MW	
	Normal	750	19	1225	21	-475
	Emergency	850	18	1475	20	-625

² Limits in this report do not include Neptune in the Total East Interface.

NYISO WINTER 2014-15 CROSS-STATE THERMAL LIMIT CONTINGENCY LIST

	Limiting Element				Contingency
(1)	Huntley – Sawyer (80) 230 kV	@LTE	760 MW	L/O	Huntley – Sawyer (79) 230 kV
(2)	Packard – Sawyer (77) 230 kV	@STE	795 MW	L/O	Packard – Sawyer (78) 230 kV
(3)	Wethersfield – Meyer (85) 230 kV	@NORM	506 MW		Pre – Contingency Loading
(4)	Leeds – Pleasant Valley (92) 345kV	@LTE	1783 MW	L/O	Athens – Pleasant Valley (91) 345kV
(5)	Leeds – Pleasant Valley (92) 345kV	@STE	1912 MW	L/O	Athens – Pleasant Valley (91) 345kV
(6)	Dunwoodie – Mott Haven (71) 345kV	@SCUC	1084 MW	L/O	Dunwoodie – Mott Haven (72) 345kV
(7)	Dunwoodie – Mott Haven (71) 345kV	@NORM	741 MW		Pre – Contingency Loading
(8)	Dunwoodie – Shore Rd. (Y50) 345kV	@LTE	977 MW	L/O	Sprain Brook – E.G.C. (Y49) 345kV Sprain Brook – Academy (M29) 345 kV
(9)	Dunwoodie – Shore Rd. (Y50) 345 kV	@NORM	741 MW		Pre – Contingency Loading
(10)	Dunwoodie – Shore Rd. (Y50) 345kV	@LTE	959 MW	L/O	Sprain Brook – E.G.C. (Y49) 345kV Sprain Brook – Academy (M29) 345 kV
(11)	Dunwoodie – Shore Rd. (Y50) 345 kV	@NORM	721 MW		Pre – Contingency Loading
(12)	New Scotland – Leeds (93-LN) 345kV	@LTE	1692 MW	L/O	New Scotland – Leeds (94-LN) 345kV
(13)	New Scotland – Leeds (93-LN) 345kV	@STE	1912 MW	L/O	New Scotland – Leeds (94-LN) 345kV
(14)	Rock Tavern – Ramapo (77) 345 kV	@LTE	2010 MW	L/O	Roseton – East Fishkill (305) 345 kV East Fishkill 345/115 kV Transformer
(15)	Rock Tavern – Ramapo (77) 345 kV	@STE	2271 MW	L/O	Roseton – East Fishkill (305) 345 kV
(16)	Massena – Moses East (MMS1) 230 kV	@LTE	1254 MW	L/O	Moses – Adirondack (MA1) 230 kV Moses – Adirondack (MA2) 230 kV Adirondack – Porter (12-AP) 230 kV
(17)	Adirondack – Porter (12-AP) 230 kV	@LTE	478 MW	L/O	Chateauguay – Massena (MSC-7040) 765 kV Massena – Marcy (MSU1) 765 kV and TransÉnergie delivery
(18)	Massena – Moses East (MMS1) 230 kV	@NORM	1076 MW		Pre – Contingency Loading
(19)	Massena – Moses East (MMS1) 230 kV	@LTE	1254 MW	L/O	Edic – Marcy (UE1-7) 345 kV Volney – Marcy (19) 345 kV

(20)	Massena – Moses East (MMS1 or MMS2) 230 kV	@STE	1404 MW	L/O	Massena – Moses East (MMS2 or MMS1) 230 kV
(21)	Massena – Moses East (MMS1) 230 kV	@LTE	1254 MW	L/O	Massena – Moses East (MMS2) 230 kV Massena 765/230 kV Transformer (AT2) Moses West 230/115 kV Transformer

I. GENERATION SHIFTS ASSUMED FOR THERMAL ANALYSIS

<----- STUDY SYSTEM ----->					<----- OPPOSING SYSTEM ----->				
<----- GENERATOR MW----- >					<----- GENERATOR MW----- >				
BUS NAME	BASE	SHIFT	CHANGE		BUS NAME	BASE	SHIFT	CHANGE	
DYSINGER EAST, WEST CENTRAL									
155715	LENNOX_GS-4	130.0	150.0	20.0	126340	KEYSPG-1	112.7	106.7	-6.0
156676	PICK_A_GS-4	0.0	20.0	20.0	126653	AK 2	320.0	305.0	-15.0
158740	NANTICOKE_G5	0.0	20.0	20.0	126654	AST 3	352.0	340.0	-12.0
160704	LAMBTON_GS-3	0.0	20.0	20.0	126658	RAV 2	252.8	244.8	-8.0
160705	LAMBTON_GS-4	0.0	20.0	20.0	126660	COGENGT2	59.0	57.0	-2.0
					126661	COGENGT3	59.0	57.0	-2.0
					126662	COGENGT4	59.0	57.0	-2.0
					126663	COGENGT5	66.9	64.9	-2.0
					126664	COGENST1	66.9	64.9	-2.0
					126665	COGENST2	66.9	64.9	-2.0
					126692	SCS18-G4	100.0	97.0	-3.0
					126710	SCS18-G5	100.0	97.0	-3.0
					126711	SCS18-G6	120.0	115.0	-5.0
					128901	BARETG2	100.0	98.0	-2.0
					129071	CAITH-GT	160.0	154.0	-6.0
					129093	PTJFEG4	192.2	187.2	-5.0
					148708	Q308_GT1	150.0	143.0	-7.0
					148709	Q308_GT2	150.0	143.0	-7.0
					148710	Q308_ST	200.0	191.0	-9.0
UPNY - CONED									
136702	OSWGO 5G	165.9	188.9	23.0	126251	ER G6	94.5	92.5	-2.0
136703	OSWGO 6G	0.0	27.0	27.0	126340	KEYSPG-1	112.7	106.7	-6.0
147763	MOS17-18	58.0	59.5	1.5	126341	KEYSPST1	65.2	62.2	-3.0
147808	ALTONA_GE_G1	29.3	30.8	1.5	126650	AK 3	197.2	195.2	-2.0
147855	CHATG_GE_G1	31.9	34.0	2.0	126653	AK 2	320.0	315.0	-5.0
148706	MRBLRV1_8G	64.6	69.6	5.0	126654	AST 3	352.0	341.0	-11.0
158740	NANTICOKE_G5	0.0	20.0	20.0	126658	RAV 2	252.8	243.8	-9.0
160704	LAMBTON_GS-3	0.0	20.0	20.0	126660	COGENGT2	59.0	57.0	-2.0
					126661	COGENGT3	59.0	57.0	-2.0
					126662	COGENGT4	59.0	57.0	-2.0
					126663	COGENGT5	66.9	64.9	-2.0
					126664	COGENST1	66.9	64.9	-2.0
					126665	COGENST2	66.9	64.9	-2.0
					126692	SCS18-G4	100.0	97.0	-3.0
					126710	SCS18-G5	100.0	97.0	-3.0
					126711	SCS18-G6	120.0	116.0	-4.0
					128253	BAY_G1	50.0	48.0	-2.0
					128254	BAY_G3	50.0	48.0	-2.0
					128255	BAY_G5	50.0	48.0	-2.0
					128256	BAY_G7	50.0	48.0	-2.0
					128647	BAY_G2	50.0	48.0	-2.0
					128648	BAY_G4	50.0	48.0	-2.0
					128649	BAY_G6	50.0	48.0	-2.0
					128650	BAY_G8	50.0	48.0	-2.0

<----- STUDY SYSTEM ----->					<----- OPPOSING SYSTEM ----->				
<----- GENERATOR MW----- >					<----- GENERATOR MW----- >				
BUS NAME	BASE	SHIFT	CHANGE		BUS NAME	BASE	SHIFT	CHANGE	
					128901	BARETG2	100.0	98.0	-2.0
					129071	CAITH-GT	160.0	154.0	-6.0
					129072	CAITH-ST	126.0	121.0	-5.0
					147788	POLETGT2	95.0	92.0	-3.0
					147789	POLETSTG	102.1	98.1	-4.0
					147790	POLETGT1	95.0	91.0	-4.0
SPRAIN BROOK DUNWOODIE - SOUTH									
136702	OSWGO 5G	165.9	187.9	22.0	126340	KEYSPG-1	112.7	108.7	-4.0
136703	OSWGO 6G	0.0	28.0	28.0	126341	KEYSPST1	65.2	63.2	-2.0
147763	MOS17-18	58.0	59.0	1.0	126650	AK 3	197.2	194.2	-3.0
147855	CHATG_GE_G1	31.9	35.0	3.0	126654	AST 3	352.0	327.0	-25.0
148706	MRBLRV1_8G	64.6	70.6	6.0	126658	RAV 2	252.8	238.8	-14.0
158740	NANTICOKE_G5	0.0	20.0	20.0	126660	COGENGT2	59.0	57.0	-2.0
160704	LAMBTON_GS-3	0.0	20.0	20.0	126661	COGENGT3	59.0	57.0	-2.0
					126662	COGENGT4	59.0	57.0	-2.0
					126663	COGENGT5	66.9	64.9	-2.0
					126692	SCS18-G4	100.0	97.0	-3.0
					126710	SCS18-G5	100.0	97.0	-3.0
					126711	SCS18-G6	120.0	115.0	-5.0
					147788	POLETGT2	95.0	91.0	-4.0
					147789	POLETSTG	102.1	98.1	-4.0
					147790	POLETGT1	95.0	91.0	-4.0
					148708	Q308_GT1	150.0	143.0	-7.0
					148709	Q308_GT2	150.0	143.0	-7.0
					148710	Q308_ST	200.0	193.0	-7.0
CONED - LIPA									
126650	AK 3	197.2	227.2	30.0	128901	BARETG2	100.0	84.0	-16.0
126653	AK 2	32.0	324.0	4.0	128918	FRPT-GT1	47.0	44.0	-3.0
126659	COGENGT1	0.0	6.0	6.0	128963	HEMP RR	72.0	65.0	-7.0
126660	COGENGT2	59.0	65.0	6.0	129053	PLWN_CC	75.0	71.0	-4.0
126661	COGENGT3	59.0	65.0	6.0	129071	CAITH-GT	160.0	142.0	-18.0
126662	COGENGT4	59.0	65.0	6.0	129072	CAITH-ST	126.0	110.0	-16.0
126664	COGENST1	66.9	72.9	6.0	129093	PTJFEFG4	192.2	173.2	-19.0
126665	COGENST2	66.9	72.9	6.0	147821	NYP A108	90.0	79.0	-11.0
126737	RNY 7EGT	0.0	10.0	10.0	147822	NYP A56	45.0	39.0	-6.0
126738	RNY 7WGT	0.0	10.0	10.0					
126739	RNY 9EGT	0.0	10.0	10.0					
CENTRAL EAST, TOTAL EAST									
136702	OSWGO 5G	186.6	203.6	17.0	126251	ER G6	94.5	92.5	-2.0
136703	OSWGO 6G	0.0	25.0	25.0	126340	KEYSPG-1	112.7	109.7	-3.0
137924	FLATRKG_S_V8	49.3	51.8	2.5	126341	KEYSPST1	65.2	62.2	-2.0
147763	MOS17-18	57.8	58.8	1.0	126606	COOP CITY	40.5	39.5	-1.0
147808	ALTONA_GE_G1	29.2	31.2	2.0	126653	AK 2	320.0	312.0	-8.0
147855	CHATG_GE_G1	31.9	33.9	2.0	126654	AST 3	352.0	342.0	-10.0
147971	ELNBG_GE_1G	24.3	25.8	1.5	126658	RAV 2	252.8	246.8	-6.0

<----- STUDY SYSTEM -----> <----- OPPOSING SYSTEM ----->

<----- GENERATOR MW----->				<----- GENERATOR MW----->			
BUS NAME	BASE	SHIFT	CHANGE	BUS NAME	BASE	SHIFT	CHANGE
NY - ONTARIO							
126650 AK 3	196.7	207.7	11.0	156661 DARLINGTON_G1	926.0	913.0	-13.0
126659 COGENGT1	0.0	3.0	3.0	156662 DARLINGTON_G2	900.0	887.0	-13.0
126660 COGENGT2	59.0	60.0	1.0	156663 DARLINGTON_G3	920.4	907.4	-13.0
126661 COGENGT3	59.0	60.0	1.0	156664 DARLINGTON_G4	928.1	915.1	-13.0
126662 COGENGT4	59.0	60.0	1.0	156683 PICK_B_GS-5	540.0	527.0	-13.0
126663 COGENGT5	66.9	67.9	1.0	156684 PICK_B_GS-6	534.1	521.1	-13.0
126664 COGENST1	66.9	67.9	1.0	156685 PICK_B_GS-7	540.0	531.0	-9.0
129024 NRTPTG1	100.0	108.0	8.0	156686 PICK_B_GS-8	540.0	527.0	-13.0
129025 NRTPTG2	0.0	6.0	6.0				
129026 NRTPTG3	0.0	6.0	6.0				
129027 NRTPTG4	0.0	5.0	5.0				
129095 PTJFGT2	0.0	1.0	1.0				
129096 PTJFGT3	0.0	1.0	1.0				
136702 OSWGO 5G	163.9	181.9	18.0				
136703 OSWGO 6G	0.0	18.0	18.0				
137456 ATHENSC1	150.0	153.0	3.0				
147778 GILBOA#2	139.5	143.5	4.0				
147780 GILBOA#4	0.0	11.0	11.0				
ONTARIO - NY							
156676 PICK_A_GS-4	0.0	16.0	16.0	125190 ROSE GN1	567.2	563.2	-4.0
158740 NANTICOKE_G5	0.0	16.0	16.0	126653 AK 2	320.0	312.0	-8.0
158741 NANTICOKE_G6	0.0	16.0	16.0	126654 AST 3	352.0	344	-8.0
158742 NANTICOKE_G7	0.0	16.0	16.0	130873 SOMERSET24	681.2	667.2	-14.0
160704 LAMBTON_GS-3	0.0	18.0	18.0	131461 CAYUGA 2	130.0	128.0	-2.0
160705 LAMBTON_GS-4	0.0	18.0	18.0	131462 CAYUGA 1	130.0	128.0	-2.0
				135800 HNTLY67G	170.0	167.0	-3.0
				135801 HNTLY68G	170.0	167.0	-3.0
				136702 OSWGO 5G	164.5	159.5	-5.0
				136706 HMGENBUS	59.5	58.5	-1.0
				136716 SITH-G2	161.5	156.5	-5.0
				136717 SITH-G3	161.5	156.5	-5.0
				136719 SITH-G5	176.6	172.6	-4.0
				136720 SITH-G6	176.6	171.6	-5.0
				137458 ATHENSC2	150.0	146.0	-4.0
				137459 ATHENSS2	75.0	73.0	-2.0
				137714 BETH STM	200.0	194.0	-6.0
				147797 JAFITZ1G	848.2	829.2	-19.0
NY - NE							
125192 ROSE GN2	205.0	223.0	18.0	105385 MERRIMACK_G1	109.5	106.5	-3.0
126252 ER G7	0.0	4.0	4.0	105476 NEWINGTON_C1	168.2	161.2	-7.0
126379 AST 2	0.0	2.0	2.0	105477 NEWINGTON_C2	168.2	161.2	-7.0
126468 ERGT1	173.8	178.8	5.0	105478 NEWINGTON_S1	195.0	187.0	-7.0
166469 ERGT2	0.0	5.0	5.0	105633 GRANITE R ST	225.6	218.6	-7.0
126650 AK 3	517.6	531.6	14.0	111067 MYSTIC GT 8A	242.0	236.0	-6.0
126659 COGENGT1	0.0	3.0	3.0	111068 MYSTIC 8ST	232.4	226.4	-6.0
126662 COGENGT4	100.0	101.0	1.0	111069 MYSTIC GT 9A	242.0	236.0	-6.0
126666 COGENST3	0.0	3.0	3.0	111071 MYSTIC GT 8B	242.0	236.0	-6.0
126737 RNY 7EGT	0.0	2.0	2.0	111072 MYSTIC GT 9B	244.0	238.0	-6.0

<----- STUDY SYSTEM -----> <----- OPPOSING SYSTEM ----->

<----- GENERATOR MW----->				<----- GENERATOR MW----->			
BUS NAME	BASE	SHIFT	CHANGE	BUS NAME	BASE	SHIFT	CHANGE
126738 RNY 7WGT	0.0	2.0	2.0	111093 EDGAR GT1	240.0	238.0	-2.0
126739 RNY 9EGT	0.0	2.0	2.0	111094 PILGRIM	700.0	683.0	-17.0
136703 OSWGO 6G	0.0	15.0	15.0	111095 ANP BLKSTN 1	298.7	294.7	-4.0
146840 BOW2	0.0	5.0	5.0	111096 ANP BLKSTN 2	297.7	294.7	-3.0
146841 BOW1	581.5	589.5	8.0	111097 EDGAR GT2	241.8	238.8	-3.0
147778 GILBOA#2	0.0	11.0	11.0	113405 MILLENIUM CT	235.9	228.9	-7.0
				116420 STONY BRK	85.0	82.0	-3.0

NE - NY

100368 YARMOUTH #4	0.0	9.0	9.0	125190 ROSE GN1	565.5	548.5	-17.0
111070 MYSTIC 9ST	234.5	236.5	2.0	125192 ROSE GN2	205.0	196.0	-9.0
111126 KENDALL CT	0.0	6.0	6.0	125193 DANSK G4	200.0	195.0	-5.0
111252 CANAL G2	0.0	22.0	22.0	125194 DANSK G3	125.0	123.0	-2.0
114856 BRAYTN PT 4	0.0	20.0	20.0	125195 DANSK G2	59.5	58.5	-1.0
114861 ANP BLLNGHM1	0.0	5.0	5.0	125196 DANSK G1	60.5	59.5	-1.0
114862 ANP BLLNGHM2	0.0	6.0	6.0	126651 IND PT 2	1028.8	1014.8	-14.0
116413 NORTHFIELD 3	0.0	7.0	7.0	136700 9M PT 2G	1301.1	1289.1	-12.0
116414 NORTHFIELD 4	0.0	6.0	6.0	137702 JMC2ST13	102.1	100.1	-2.0
122043 MIDDLETWN G4	0.0	17.0	17.0	137711 BETHGT1	101.1	98.1	-3.0
				137713 BETHGT3	101.1	98.1	-3.0
				147777 GILBOA#1	232.9	229.9	-3.0
				147797 JAFITZ1G	848.2	838.2	-10.0
				147798 IP#3 GEN	1044.3	1026.3	-18.0

NY - PJM

125192 ROSE GN2	205.0	228.8	23.8				
126666 COGENST3	0.0	8.0	8.0				
126711 SCS18-G6	120.0	127.4	7.4				
128901 BARETG2	100.0	102.7	2.7				
129025 NRTPTG2	0.0	7.0	7.0				
135800 HNTLY67G	132.0	136.0	4.0				
136702 OSWGO 5G	343.8	363.8	20.0				
137460 ATHENSC3	150.0	157.4	7.4				
137559 BESI20G1	109.0	116.4	7.4				
137713 BETHGT3	101.1	105.1	4.0				
147780 GILBOA#4	0.0	3.6	3.6				
147787 BLISS2_GE_1G	8.6	9.6	1.0				
147800 BLISS1_GE_1G	21.6	24.0	2.4				
147821 NYPA108	90.0	91.3	1.3				

Scale shift to all
PJM generation

PJM - NY

Scale shift from all
PJM generation

125190 ROSE GN1	458.5	453.2	-5.3
126251 ER G6	94.5	93.4	-1.1
126468 ERGT1	100.0	98.0	-2.0
126654 AST 3	352.0	340.9	-11.1
126692 SCS18-G4	100.0	98.0	-2.0
126710 SCS18-G5	100.0	98.0	-2.0
126711 SCS18-G6	120.0	118.0	-2.0

<----- STUDY SYSTEM ----->				<----- OPPOSING SYSTEM ----->				
<----- GENERATOR MW----- >				<----- GENERATOR MW----- >				
BUS NAME	BASE	SHIFT	CHANGE	BUS NAME	BASE	SHIFT	CHANGE	
				130873	SOMERSET24	268.0	265.8	-2.2
				131461	CAYUGA 2	130.0	127.8	-2.2
				131649	LEA 4S	57.9	56.9	-1.0
				135552	OXBOWNUG	60.0	58.0	-2.0
				136702	OSEGO 5G	140.2	137.4	-2.8
				136715	SITH-G1	136.5	131.5	-5.0
				136716	SITH-G2	136.5	131.5	-5.0
				136717	SITH-G3	111.5	107.2	-4.3
				137456	ATHENSC1	150.0	145.0	-5.0
				137458	ATHENSC2	150.0	144.1	-5.9
				137459	ATHENSS2	50.0	48.1	-1.9
				147797	JAFITZ1G	848.2	828.3	-20.0
				148708	Q308_GT1	150.0	145.0	-5.0
				148709	Q308_GT2	150.0	145.0	-5.0
				148710	Q308_ST	200.0	193.0	-7.0

J. DISTRIBUTION FACTORS

Table-1 DISTRIBUTION FACTORS FOR DYSINGER EAST CIRCUITS

Monitered Element	Base Flow	TRANSFER	KINTI-ROCH	NIAGAR-ROCH	STOLLE-HIGHSHELDON	WTHRS-MEYER	LOCKPT-SOUR	LOCKPT-SHEL	NIAGAR-ROCH
SOMERSET345 345 ROCH 345 345 1	636.11	24.51%	TRIP	45.09%	14.95%	14.95%	15.26%	13.85%	O/S
STOLE230 230 SHLDN230 230 1	196.62	11.24%	6.10%	7.38%	TRIP	TRIP	6.15%	5.59%	13.45%
PALMT115 115 ANDOVER1 115 1	0	0.00%	O/S	O/S	O/S	O/S	O/S	O/S	O/S
LOCKPORT 115 SHEL-113 115 1	75.88	2.78%	3.59%	4.35%	3.55%	3.55%	15.04%	TRIP	7.92%
LOCKPORT 115 NAKR-108 115 1	52.09	0.99%	1.28%	1.55%	1.27%	1.27%	3.77%	3.49%	2.83%
LOCKPORT 115 OAKFLDTP 115 1	57.41	1.16%	1.50%	1.82%	1.48%	1.48%	4.40%	4.07%	3.31%
LOCKPORT 115 SOUR-111 115 1	72.05	2.81%	3.64%	4.41%	3.60%	3.60%	TRIP	13.84%	8.03%
LOCKPORT 115 TELRD107 115 1	77.6	1.32%	1.71%	2.07%	1.69%	1.69%	6.06%	6.11%	3.77%
LOCKPORT 115 TELRD114 115 1	83.16	2.78%	3.60%	4.36%	3.56%	3.56%	11.62%	18.84%	7.93%
NIAG 345 345 ROCH 345 345 1	520.14	35.94%	54.63%	TRIP	21.92%	21.92%	22.37%	20.31%	TRIP
SUB-TOTALS		83.54%	76.06%	71.03%	52.02%	52.02%	84.68%	86.09%	47.23%
L33P-L34P	-0.79	0.00%	8.31%	10.06%	8.63%	8.63%	4.17%	3.78%	18.31%
PJM-NYISO	969.71	16.46%	15.63%	18.92%	39.35%	39.35%	11.15%	10.13%	34.46%
TOTALS		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Table-2 DISTRIBUTION FACTORS FOR WEST CENTRAL CIRCUITS

Monitered Element				Base Flow	TRANSFER	CLAY-PANNELL	STOLLE-SHLDN	S121-SLEGH	PANNEL-FARM	PANNEL-CLAY
STOLE230	230	SHLDN230	230 1	196.62	11.24%	3.12%	TRIP	2.98%	8.33%	7.41%
MACDN115	115	QUAKER	115 1	33.25	0.31%	0.49%	0.43%	20.33%	3.29%	1.15%
SLEIG115	115	S121 B#2	115 1	86.53	2.53%	3.69%	1.99%	TRIP	10.66%	8.77%
PALMT115	115	ANDOVER1	115 1	0	0.00%	O/S	O/S	O/S	O/S	O/S
S.PER115	115	STA 162	115 1	30.78	0.48%	2.00%	16.83%	2.31%	4.95%	4.74%
LAWLER-1	115	MORTIMER	115 1	74.46	2.57%	2.74%	1.36%	4.12%	14.41%	6.51%
MORTIMER	115	LAWLER-2	115 1	63.9	2.64%	2.96%	1.19%	4.44%	6.11%	7.03%
CLAY	345	PANNELL3	345 1	156.5	30.18%	TRIP	10.82%	19.24%	20.49%	O/S
CLAY	345	PANNELL3	345 2	157	30.28%	57.91%	10.85%	19.30%	20.56%	TRIP
FRMGTN-4	115	PANNELLI	115 1	154.2	3.30%	6.06%	8.56%	16.44%	TRIP	14.41%
SUB-TOTALS					83.54%	78.97%	52.02%	89.15%	88.80%	50.02%
L33P-L34P				-0.79	0.00%	7.39%	8.63%	3.09%	2.39%	17.56%
PJM-NYISO				969.71	16.46%	13.64%	39.35%	7.76%	8.81%	32.42%
TOTALS					100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Table-3 DISTRIBUTION FACTORS FOR TOTAL EAST CIRCUITS

Monitered Element	Base Flow	TRANSFER	PORTER-RTRDM	EDIC34-NSCOT	MARCY3-NSCOT	FRASER-GILBA	HOPATCONG-RAMPO	WALDWK-SMAWA	HUDSON-FARGT	LINDEN-GOETH	WALDWK-SMAWA	HUDSON-FARGT
NE_PV20_NY 115 PLAT T#3 115 1	112.3	0.00%	3.27%	2.85%	3.02%	1.76%	0.59%	0.04%	0.36%	0.48%	0.32%	0.54%
ROCK TAV 345 COOPC345 345 2	514.28	16.07%	3.74%	6.51%	6.88%	17.53%	3.43%	0.35%	0.42%	1.03%	2.79%	0.65%
RAMAPO 5 500 HOPATCONG 500 1	188.75	0.00%	1.80%	2.98%	3.07%	2.71%	TRIP	3.66%	9.54%	15.99%	30.64%	14.52%
COGNTECH 345 G22_VFT345KV 345 1	299.41	0.00%	0.25%	0.40%	0.41%	0.49%	2.67%	0.29%	2.85%	16.46%	2.42%	4.32%
B3402 PAR1 345 HUDSON1 345 1	332.83	0.00%	1.14%	1.83%	1.89%	2.43%	9.91%	2.71%	TRIP	17.42%	22.90%	O/S
C3403 PAR2 345 HUDSON2 345 1	332.12	0.00%	1.14%	1.83%	1.90%	2.43%	10.11%	2.63%	32.89%	17.65%	22.21%	TRIP
GOETHALS 230 LINDEN 230 1	334.59	0.00%	1.15%	1.86%	1.92%	2.30%	12.44%	1.30%	13.04%	TRIP	10.98%	19.76%
NEPTCONV 345 NWBRG 345 1	661.14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
COOPC345 345 MDTN TAP 345 1	594.55	17.25%	3.87%	6.73%	7.12%	18.27%	3.89%	0.33%	0.23%	0.92%	3.31%	0.38%
FRASR345 345 GILB 345 345 1	188.01	16.94%	9.54%	23.04%	23.77%	TRIP	2.49%	0.14%	2.15%	2.71%	1.04%	3.22%
E.SPR115 115 INGHAM-E 115 1	-22.29	0.89%	0.94%	-0.20%	-0.19%	2.54%	0.12%	0.01%	0.09%	0.11%	0.06%	0.13%
W.WDB115 115 W.WDBR69 69.0 1	9.88	0.54%	0.36%	0.48%	0.51%	1.18%	0.02%	0.00%	0.10%	0.11%	-0.04%	0.15%
EDIC 345 N.SCOT77 345 1	577.24	18.36%	13.57%	TRIP	32.03%	18.77%	2.23%	0.15%	1.32%	1.79%	1.25%	1.98%
PORTER 2 230 ROTRDM.2 230 1	191.69	4.84%	TRIP	5.54%	5.64%	3.18%	0.55%	0.04%	0.34%	0.45%	0.30%	0.50%
PORTER 2 230 ROTRDM.2 230 2	191.66	4.84%	33.54%	5.54%	5.64%	3.18%	0.55%	0.04%	0.33%	0.45%	0.30%	0.50%
INGMS-CD 115 INGHAM-E 115 1	119.96	0.00%	9.35%	3.68%	3.73%	0.75%	0.28%	0.02%	0.16%	0.22%	0.16%	0.24%
N.SCOT99 345 MARCY T1 345 1	657.08	20.27%	14.78%	34.31%	TRIP	20.75%	2.46%	0.16%	1.46%	1.98%	1.37%	2.19%
SMAHWAH1 345 WALDWICK 345 1	-474.21	-0.18%	0.78%	1.31%	1.34%	0.81%	24.37%	88.16%	17.76%	11.38%	O/S	26.03%
SMAHWAH1 345 SMAH138 138 1	-87.25	0.53%	0.00%	0.00%	0.00%	0.22%	-0.49%	-3.33%	-0.96%	-0.66%	0.55%	-1.41%
SMAHWAH2 345 WALDWICK 345 1	-527.63	0.18%	0.78%	1.31%	1.34%	0.96%	23.89%	TRIP	16.99%	10.86%	TRIP	24.90%
RAMP138 138 SMAH138 138 1	-74.08	-0.28%	0.01%	0.01%	0.01%	-0.11%	0.52%	2.68%	0.69%	0.46%	-0.28%	1.01%
BLUHILL 69.0 MONTVALE 69.0 1	3.45	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
BLUHILL 69.0 MONTVALE 69.0 2	3.45	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
HILB69 69.0 SMAH69 69.0 1	-7.9	-0.39%	-0.03%	-0.05%	-0.05%	-0.20%	-0.05%	0.40%	0.14%	0.09%	-0.18%	0.21%
SPARKILL 69.0 CRESSKIL 69.0 1	-4.35	0.03%	0.00%	0.01%	0.01%	0.02%	-0.01%	0.02%	0.02%	0.02%	-0.02%	0.03%
WNYA69 69.0 HCOR69 69.0 1	-0.14	0.10%	0.02%	0.03%	0.03%	0.06%	-0.02%	0.08%	0.08%	0.07%	-0.08%	0.12%
PEARL34 34.5 HCOR34 34.5 1	0.84	-0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-0.01%
L491T 69.0 MONTVALE 69.0 1	-22.96	0.04%	0.01%	0.01%	0.01%	0.02%	0.02%	0.10%	0.04%	0.03%	-0.02%	0.06%
CORPORATE DR 138 HCOR138 138 1	-52.39	-0.02%	0.00%	0.00%	0.00%	-0.01%	0.02%	0.04%	-0.01%	-0.01%	0.02%	-0.01%
TOTALS		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Table-4 DISTRIBUTION FACTORS FOR UPNY-CONED CIRCUITS

Monitered Element	Base Flow	TRANSFER	PLVLLY-MILLW	PLVLLY-FISHK	RAMAPO-BUCHN	LADNTW-BUCHS	LINDEN-GOETH	HUDSON-FARGT	ROSETN-FISHK
ROSETON 345 E FISHKILL 345 1	1080.85	19.80%	-11.16%	15.31%	15.17%	20.83%	7.45%	7.68%	TRIP
E FISH I 115 E FISHKILL 345 1	-2.1	1.77%	-0.46%	2.48%	0.66%	0.71%	0.42%	0.40%	6.39%
FISHKILL 115 SYLVN115 115 1	127.59	0.98%	0.79%	-0.09%	0.31%	0.57%	0.19%	0.18%	0.52%
BUCHANAN N 345 RAMAPO 345 1	-168.93	13.33%	3.00%	-0.21%	TRIP	40.50%	13.49%	14.99%	12.60%
BUCHANAN S 345 LADENTWN 345 1	0.44	13.12%	17.44%	-3.67%	53.56%	TRIP	19.61%	22.09%	22.88%
E FISHKILL 345 PLTVLLEY 345 1	254.67	8.05%	23.62%	TRIP	-0.54%	-7.03%	0.80%	0.59%	32.26%
E FISHKILL 345 PLTVLLEY 345 2	254.67	8.05%	23.62%	66.30%	-0.54%	-7.03%	0.80%	0.59%	32.26%
MILLWOOD 345 PLTVLLEY 345 1	670.27	17.57%	TRIP	8.70%	2.80%	12.31%	2.10%	1.64%	-8.66%
PLTVLLEY 345 WOOD B 345 1	698.74	17.34%	34.96%	9.10%	2.79%	11.89%	2.09%	1.65%	-8.37%
SUB-TOTALS		100.00%	91.82%	97.91%	74.21%	72.75%	46.94%	49.81%	89.88%
GOETHALS 230 LINDEN 230 1	334.59	0.00%	0.96%	0.13%	5.75%	6.32%	TRIP	13.04%	2.64%
B3402 PAR1 345 HUDSON1 345 1	332.83	0.00%	1.00%	0.13%	8.53%	9.51%	17.42%	TRIP	3.63%
C3403 PAR2 345 HUDSON2 345 1	332.12	0.00%	1.00%	0.13%	8.38%	9.33%	17.65%	32.89%	3.58%
NRTHPT P 138 NRTHPT1 138 1	99.85	0.00%	5.02%	1.66%	1.88%	0.72%	1.53%	1.41%	-0.30%
COGNTECH 345 G22_VFT345KV 345 1	299.41	0.00%	0.21%	0.03%	1.25%	1.38%	16.46%	2.85%	0.57%
TOTALS		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Table-5 DISTRIBUTION FACTORS FOR SPRAINBROOK DUNWOODIE SOUTH CIRCUITS

Monitered Element				Base Flow	TRANSFER	SPRAIN-TRMNT	SPRAIN-W49TH	DUNWDE-RAINY	VSTR-JAMAICA	LKSUC-JMAICA	REAC72-MOTT
SPRAINBROOK	345	TREMONT	345 1	343.03	0.00%	TRIP	0.52%	0.31%	4.16%	3.98%	0.40%
SPRAINBROOK	345	ACADEMY	345 1	301.12	0.00%	20.78%	0.46%	0.27%	3.69%	3.52%	0.35%
W 49 ST	345	REACM51	345 1	335.26	21.07%	6.99%	TRIP	18.92%	9.75%	8.82%	O/S
W 49 ST	345	REACM52	345 2	335.26	21.07%	6.99%	44.25%	18.92%	9.75%	8.82%	27.00%
DUN NO1R	138	S CREEK W	138 1	57.57	0.00%	11.84%	0.19%	0.22%	2.10%	2.05%	0.25%
DUN NO2R	138	S CREEK E	138 1	114.86	0.00%	13.35%	0.21%	0.25%	2.37%	2.31%	0.29%
DUN SO1R	138	E179 ST W	138 1	204.44	0.00%	18.37%	0.30%	0.34%	3.26%	3.17%	0.39%
JAMAICA	138	V STRM P	138 1	104.85	0.00%	5.06%	0.88%	0.71%	TRIP	44.26%	0.87%
JAMAICA	138	L SUCSPH	138 1	209.61	0.00%	4.61%	0.76%	0.72%	42.19%	TRIP	0.86%
REAC71	345	MOTT HAVEN	345 3	327.59	30.26%	5.44%	24.97%	TRIP	10.34%	11.01%	65.17%
REAC72	345	MOTT HAVEN	345 4	300.44	27.60%	4.96%	22.78%	55.76%	9.43%	10.04%	TRIP
SUB-TOTALS					100.00%	98.40%	95.32%	96.40%	97.05%	97.97%	95.57%
GOETHALS	230	LINDEN	230 1	334.59	0.00%	1.04%	1.09%	0.88%	0.83%	0.58%	1.07%
B3402 PAR1	345	HUDSON1	345 1	332.83	0.00%	0.17%	1.69%	1.28%	0.96%	0.65%	1.58%
C3403 PAR2	345	HUDSON2	345 1	332.12	0.00%	0.17%	1.66%	1.25%	0.98%	0.67%	1.55%
COGNTECH	345	G22_VFT345KV	345 1	299.41	0.00%	0.23%	0.24%	0.19%	0.18%	0.13%	0.23%
TOTALS					100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Table-6 DISTRIBUTION FACTORS FOR MOSES SOUTH CIRCUITS

Monitered Element				Base Flow	TRANSFER	MASSEN_CHAT	MASSEN-MARCY	MOSES2-ADRON	MOSES2-ADRONB1
ALCOA-NM	115	BRADY	115 1	22.89	1.39%	0.35%	2.21%	0.90%	1.89%
ALLENS F	115	COLTON	115 1	-39.32	1.96%	0.19%	1.88%	0.78%	1.63%
ANDRWS-4	115	DENNISON	115 1	7.31	2.62%	0.66%	4.14%	1.69%	3.55%
DENNISON	115	LWRNCE-B	115 1	6.99	2.62%	0.66%	4.15%	1.69%	3.55%
MARCY765	765	MASS 765	765 1	494.74	67.29%	71.26%	TRIP	38.62%	O/S
ADRON B1	230	MOSES W	230 1	42.08	12.06%	2.54%	19.06%	TRIP	TRIP
ADRON B2	230	MOSES W	230 1	42.11	12.06%	2.54%	19.06%	38.00%	48.97%
SUB-TOTALS					100.00%	78.19%	50.49%	81.67%	59.58%
MOSES E	230	ST_LAWR_L33P	230 1	0.44	0.00%	8.26%	16.12%	5.85%	13.03%
MOSES E	230	ST_LAWR_L34P	230 1	0.35	0.00%	10.28%	20.07%	7.28%	16.22%
MOSES W	230	WILLIS E	230 1	113.77	0.92%	1.71%	7.48%	2.94%	6.29%
MOSES W	230	WILLIS W	230 1	113.09	0.91%	1.70%	7.44%	2.93%	6.26%
TOTALS					101.83%	100.14%	101.59%	100.67%	101.39%

Table-7 DISTRIBUTION FACTORS FOR NEISO NYISO CIRCUITS

Monitered Element	Base Flow	TRANSFER	NHHAR_GEN	YRMTH_GEN	SBRK_GEN	HIGATE_DC	ELLRIVER	MADWAS_DC	ALPS34-MANY	PV.345-LNGMT
NE_PV20_NY 115 PLAT T#3 115 1	-112.3	0.00%	4.15%	7.57%	7.36%	36.30%	7.61%	7.61%	7.88%	5.11%
NE_K37_NY 115 WHITEHAL 115 1	-0.04	0.00%	2.36%	5.05%	4.89%	6.98%	5.06%	5.06%	9.61%	4.51%
NE_K6_NY 115 HOOSICK 115 1	10.16	3.15%	1.36%	2.41%	2.43%	1.27%	2.41%	2.41%	9.53%	2.66%
NE_E205W_NY 230 ROTRDM.2 230 1	-16.05	8.36%	4.07%	7.25%	7.35%	3.70%	7.25%	7.25%	14.65%	6.78%
NE_393_NY 345 ALPS345 345 1	-93.68	37.29%	18.65%	31.45%	31.18%	21.49%	31.44%	31.44%	TRIP	37.05%
NE_398_NY 345 PLTVLLEY 345 1	124.65	50.08%	49.92%	33.70%	34.10%	21.58%	33.67%	33.67%	45.01%	TRIP
NE_690_NY 69.0 SMITHFLD 69.0 1	2.05	1.13%	1.09%	0.80%	0.81%	0.49%	0.80%	0.80%	1.20%	2.81%
NE_601_NY 138 NRTHPT P 138 1	33.46	0.00%	6.16%	3.94%	3.98%	2.74%	3.94%	3.94%	4.06%	13.76%
NE_602_NY 138 NRTHPT P 138 2	33.36	0.00%	6.14%	3.93%	3.96%	2.73%	3.92%	3.92%	4.05%	13.72%
NE_603_NY 138 NRTHPT P 138 3	33.13	0.00%	6.10%	3.90%	3.94%	2.72%	3.90%	3.90%	4.02%	13.62%
SHMHVDCL 192 SHOREHAM2 138 1	330	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
TOTALS		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Table-8 DISTRIBUTION FACTORS FOR ONTARIO NYISO CIRCUITS

Monitered Element				Base Flow	TRANSFER	PA27-NIAGAR	BP76-PACKD2	STLAWR34-MOSES	STLAWR33-MOSES	BECKB-NIAGAR	BECKA-PA302
PACKARD2	230	BECK_#2_BP76	230 1	10.63	17.83%	27.38%	TRIP	4.27%	4.85%	18.53%	38.85%
NIAG 345	345	BECK_#2_H301	345 1	28.55	31.46%	33.14%	30.81%	7.81%	8.88%	52.30%	TRIP
NIAG 345	345	BECK_#2_H302	345 1	28.55	31.46%	33.14%	30.81%	7.81%	8.88%	TRIP	O/S
MOSES E	230	ST_LAWR_L33P	230 1	-0.44	0.00%	0.98%	1.02%	TRIP	55.82%	1.12%	2.36%
MOSES E	230	ST_LAWR_L34P	230 1	-0.35	0.00%	1.22%	1.27%	61.13%	TRIP	1.40%	2.94%
NIAGAR2W	230	BECK_#2_PA27	230 1	-70.04	19.25%	TRIP	31.39%	4.70%	5.34%	22.85%	47.91%
SUB-TOTALS					100.00%	95.86%	95.30%	85.72%	83.77%	96.21%	92.05%
ON-MICH				0.39	0.00%	3.87%	4.39%	13.14%	14.94%	3.54%	7.43%
TOTALS					100.00%	99.73%	99.69%	98.86%	98.71%	99.75%	99.48%

Table-9 DISTRIBUTION FACTORS FOR PJM-NYISO CIRCUITS

Monitered Element	Base Flow	TRANSFER	ERIESO-FALCS	HMRCTY-STOLL	HMRCTY-WATER	E.TOWD-HILLS	HOPATCONG-RAMPO	WALDWK-SMAWA	HUDSON-FARGT	LINDEN-GOETH	WALDWK-SMAWA	HUDSON-FARGT
RAMAPO 5 500 HOPATCONG 500 1	188.75	0.00%	6.15%	6.56%	10.84%	7.84%	TRIP	3.66%	9.54%	15.99%	30.64%	14.52%
COGNTECH 345 G22_VFT345KV 345 1	299.41	0.00%	0.63%	0.67%	1.09%	0.81%	2.67%	0.29%	2.85%	16.46%	2.42%	4.32%
B3402 PAR1 345 HUDSON1 345 1	332.83	0.00%	2.65%	2.83%	4.53%	3.52%	9.91%	2.71%	TRIP	17.42%	22.90%	O/S
C3403 PAR2 345 HUDSON2 345 1	332.12	0.00%	2.67%	2.85%	4.57%	3.55%	10.11%	2.63%	32.89%	17.65%	22.21%	TRIP
GOETHALS 230 LINDEN 230 1	334.59	0.00%	2.95%	3.15%	5.11%	3.79%	12.44%	1.30%	13.04%	TRIP	10.98%	19.76%
NEPTCONV 345 NWBRG 345 1	661.14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
STOLE345 345 26HOMER CY 345 1	28.78	14.04%	15.64%	TRIP	13.32%	2.32%	1.38%	0.10%	0.57%	0.85%	0.88%	0.86%
WATRC345 345 26HOMER CY 345 1	289.48	23.01%	6.40%	16.36%	TRIP	13.98%	2.80%	0.21%	1.12%	1.69%	1.78%	1.70%
HILSD230 230 26E.TWANDA 230 1	-134.4	21.63%	6.14%	4.13%	20.24%	TRIP	2.93%	0.24%	1.27%	1.82%	2.02%	1.91%
WESTOVER115 115 26LAUREL L 115 1	-46.26	6.57%	1.01%	0.83%	2.54%	10.77%	0.92%	0.07%	0.39%	0.57%	0.63%	0.60%
N.WAV115 115 26E.SAYRE 115 1	-44.78	7.95%	2.05%	1.54%	4.26%	29.39%	1.07%	0.09%	0.46%	0.66%	0.73%	0.69%
S RIPLEY 230 26ERIE E 230 1	-181.17	20.31%	TRIP	21.80%	7.27%	4.81%	1.80%	0.13%	0.75%	1.11%	1.15%	1.13%
FALCONER 115 26WARREN 115 1	5.66	6.50%	21.22%	8.51%	1.87%	2.70%	0.62%	0.05%	0.26%	0.38%	0.40%	0.39%
SMAHWAH1 345 WALDWICK 345 1	-474.21	-0.09%	3.23%	3.43%	5.66%	4.43%	24.37%	88.16%	17.76%	11.38%	O/S	26.03%
SMAHWAH1 345 SMAH138 138 1	-87.25	0.24%	-0.31%	-0.33%	-0.57%	-0.43%	-0.49%	-3.33%	-0.96%	-0.66%	0.55%	-1.41%
SMAHWAH2 345 WALDWICK 345 1	-527.63	0.09%	2.99%	3.18%	5.23%	4.10%	23.89%	TRIP	16.99%	10.86%	TRIP	24.90%
RAMP138 138 SMAH138 138 1	-74.08	-0.13%	0.20%	0.21%	0.36%	0.27%	0.52%	2.68%	0.69%	0.46%	-0.28%	1.01%
BLUHILL 69.0 MONTVALE 69.0 1	3.45	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
BLUHILL 69.0 MONTVALE 69.0 2	3.45	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
HILB69 69.0 SMAH69 69.0 1	-7.9	-0.18%	0.12%	0.12%	0.22%	0.16%	-0.05%	0.40%	0.14%	0.09%	-0.18%	0.21%
SPARKILL 69.0 CRESSKIL 69.0 1	-4.35	0.01%	0.00%	0.00%	0.00%	0.00%	-0.01%	0.02%	0.02%	0.02%	-0.02%	0.03%
WNYA69 69.0 HCOR69 69.0 1	-0.14	0.05%	0.00%	0.00%	-0.01%	0.00%	-0.02%	0.08%	0.08%	TRIP	-0.08%	0.12%
PEARL34 34.5 HCOR34 34.5 1	0.84	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-0.01%
L491T 69.0 MONTVALE 69.0 1	-22.96	0.02%	0.00%	0.00%	0.00%	0.00%	0.02%	0.10%	0.04%	0.03%	-0.02%	0.06%
CORPORATE DR 138 HCOR138 138 1	-52.39	-0.01%	0.00%	0.00%	0.00%	0.00%	0.02%	0.04%	-0.01%	-0.01%	0.02%	-0.01%
SUB-TOTALS		100.00%	73.71%	75.84%	86.53%	92.02%	94.88%	99.62%	97.87%	96.76%	96.73%	96.79%
MICH-ON	-0.39	0.00%	24.63%	22.51%	12.55%	7.42%	4.74%	0.35%	1.97%	2.94%	3.03%	2.98%
TOTALS		100.00%	98.34%	98.35%	99.08%	99.44%	99.63%	99.97%	99.84%	99.70%	99.76%	99.76%

Table-10a GENERATION SHIFT FACTORS WITH ALL PARS HOLDING MW FLOW

Monitered Element	CENTRAL-EAST	ONT-NYISO	ONTARIO-MICH	PJM-NYISO	WEST-CENTRAL	BBURG-RAMAPO	MARCY-SOUTH	UTICA-ALBANY
Base Flow	1827.58	-3.46	0.72	822.05	952.93	188.45	1145.25	1617.6
DUM1	46.06%	0.00%	0.00%	0.00%	81.40%	0.00%	22.96%	44.82%
DUM2	46.06%	0.00%	0.00%	0.00%	81.40%	0.00%	22.96%	44.82%
NIAGARA	46.06%	0.00%	0.00%	0.00%	81.40%	0.00%	22.96%	44.82%
HUNTLEY	45.86%	0.00%	0.00%	0.00%	80.59%	0.00%	22.68%	44.61%
OSWEGO	50.75%	0.00%	0.00%	0.00%	-2.17%	0.00%	29.95%	50.03%
GILBOA	1.58%	0.00%	0.00%	0.00%	0.27%	0.00%	1.26%	1.20%
BETH	-15.55%	0.00%	0.00%	0.00%	-0.26%	0.00%	11.14%	-13.62%
ATHENS	-5.70%	0.00%	0.00%	0.00%	-0.07%	0.00%	5.02%	-5.61%
ROSETON	0.31%	0.00%	0.00%	0.00%	0.01%	0.00%	-0.24%	0.29%
BOWLINE	1.29%	0.00%	0.00%	0.00%	0.02%	0.00%	-1.09%	1.25%
INDIANPT2	1.01%	0.00%	0.00%	0.00%	0.01%	0.00%	-0.85%	0.97%
BRAYTON	-8.64%	0.00%	0.00%	0.00%	-0.16%	0.00%	6.54%	-7.99%
SBRK	-9.17%	0.00%	0.00%	0.00%	-0.17%	0.00%	6.94%	-8.49%
LAMBTON	46.44%	100.00%	0.00%	0.00%	83.54%	0.00%	23.52%	45.24%
BECK	46.44%	100.00%	0.00%	0.00%	83.54%	0.00%	23.52%	45.24%
CONEMAUGH	41.64%	0.00%	0.00%	100.00%	39.11%	0.00%	16.46%	39.95%
SALEM	41.53%	0.00%	0.00%	100.00%	37.80%	0.00%	16.30%	39.83%
PORTLAND	41.46%	0.00%	0.00%	100.00%	36.97%	0.00%	16.19%	39.75%
EDDYSTONE	41.53%	0.00%	0.00%	100.00%	37.73%	0.00%	16.29%	39.82%
BRANDON	41.62%	0.00%	0.00%	100.00%	38.82%	0.00%	16.43%	39.93%
KARNS	41.77%	0.00%	0.00%	100.00%	40.50%	0.00%	16.65%	40.10%
ZEEL	41.77%	0.00%	0.00%	100.00%	40.48%	0.00%	16.65%	40.10%
BOWEN	41.73%	0.00%	0.00%	100.00%	40.04%	0.00%	16.59%	40.05%
BAYSHORE	41.80%	0.00%	0.00%	100.00%	40.82%	0.00%	16.70%	40.13%
MTSTORM	41.69%	0.00%	0.00%	100.00%	39.63%	0.00%	16.54%	40.01%
HATFIELD	41.70%	0.00%	0.00%	100.00%	39.76%	0.00%	16.55%	40.02%
NEWTON	41.75%	0.00%	0.00%	100.00%	40.24%	0.00%	16.62%	40.07%
HOPATCONG-RAMAPO	-6.79%	-5.12%	4.74%	5.12%	-6.05%	TRIP	-3.83%	-5.79%

Table-10b GENERATION SHIFT FACTORS WITH ALL PARS HOLDING MW FLOW

Monitered Element	CENTRAL-EAST	ONT-NYISO	ONTARIO-MICH	PJM-NYISO	WEST-CENTRAL	BBURG-RAMAPO	MARCY-SOUTH	UTICA-ALBANY
Base Flow	1827.58	-3.46	0.72	822.05	952.93	188.45	1145.25	1617.6
DUM1	29.53%	-15.96%	14.86%	15.96%	50.44%	9.34%	14.32%	25.52%
DUM2	29.53%	-15.96%	14.86%	15.96%	50.44%	9.34%	14.32%	25.52%
NIAGARA	29.53%	-15.96%	14.86%	15.96%	50.44%	9.34%	14.32%	25.52%
HUNTLEY	28.97%	-16.44%	15.31%	16.44%	48.50%	9.62%	13.91%	24.98%
OSWEGO	41.20%	-8.37%	7.77%	8.37%	-13.46%	4.02%	23.69%	36.93%
GILBOA	-3.98%	-3.86%	3.58%	3.86%	-4.87%	0.83%	-1.71%	-4.49%
BETH	-21.28%	-4.32%	4.00%	4.32%	-4.76%	0.80%	8.74%	-16.77%
ATHENS	-9.78%	-3.01%	2.79%	3.01%	-3.59%	-0.09%	2.90%	-9.44%
ROSETON	-1.81%	-1.51%	1.40%	1.51%	-1.81%	-1.67%	-1.28%	-1.71%
BOWLINE	1.29%	0.14%	-0.13%	-0.14%	0.14%	-5.77%	-0.85%	1.09%
INDIANPT2	0.99%	0.11%	-0.10%	-0.11%	0.10%	-4.59%	-0.65%	0.84%
BRAYTON	-14.28%	-3.30%	3.06%	3.30%	-2.92%	0.11%	5.53%	-8.16%
SBRK	-15.67%	-3.58%	3.31%	3.58%	-3.04%	0.26%	6.15%	-8.34%
LAMBTON	23.44%	43.84%	55.47%	56.16%	26.34%	12.89%	10.66%	19.76%
BECK	30.05%	78.12%	20.39%	21.88%	47.69%	9.28%	14.73%	25.82%
CONEMAUGH	13.54%	9.04%	-8.41%	90.96%	11.52%	17.72%	4.79%	11.53%
SALEM	9.08%	5.93%	-5.49%	94.07%	6.89%	20.28%	2.79%	7.73%
PORTLAND	7.88%	4.39%	-4.07%	95.62%	5.13%	18.26%	2.18%	6.71%
EDDYSTONE	9.06%	5.85%	-5.42%	94.15%	6.81%	20.40%	2.77%	7.71%
BRANDON	12.45%	9.84%	-9.09%	90.16%	10.72%	18.47%	4.39%	10.59%
KARNS	18.36%	24.69%	-23.64%	75.32%	18.96%	15.36%	7.64%	15.55%
ZEEL	18.18%	24.06%	-22.93%	75.95%	18.70%	15.44%	7.54%	15.40%
BOWEN	15.84%	16.61%	-14.91%	83.39%	15.29%	16.62%	6.18%	13.44%
BAYSHORE	18.16%	22.86%	-22.11%	77.14%	18.72%	15.43%	7.50%	15.39%
MTSTORM	14.43%	12.73%	-11.77%	87.27%	13.26%	17.35%	5.39%	12.26%
HATFIELD	14.70%	12.42%	-11.52%	87.58%	13.48%	17.16%	5.49%	12.50%
NEWTON	16.59%	18.67%	-16.69%	81.33%	16.36%	16.24%	6.60%	14.07%
HOPATCONG-RAMAPO	-6.79%	-5.12%	4.74%	5.12%	-6.05%	TRIP	-3.83%	-5.79%