

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		35	0	90	0	-1310	-330	-660	-315	-320	-100	121	-2789
PJM	-35		0	0	0	0	0	660	315	320	0	3033	4293
IESO	0	0		0	0	-1250	0	0	0	0	0	0	-1250
ISONE	-90	0	0		-800	-1725	330	0	0	0	100	0	-2185
NB/NS	0	0	0	800		-600	0	0	0	0	0	0	200
Trans Énergie	1310	0	1250	1725	600		0	0	0	0	0	45	4830

APPENDIX A
SUMMARY OF SUMMER 2015 BASE TRANSFERS

NEW BRUNSWICK/NOVA SCOTIA	
New Brunswick to TransÉnergie: Madawaska and Eel River HVdc	-600
New Brunswick to New England	800
Total Export (+) / Import (-)	200

NEW ENGLAND	
New England to New Brunswick	-800
New England to TransÉnergie: Sandy Pond HVdc	-1500
New England to TransÉnergie: Vermont	-225
New England to New York	-90
New England to NY: Norwalk Harbor-Northport	100
New England to NY: Cross-Sound	330
Total Export (+) / Import (-)	-2185

NEW YORK ISO	
New York to TransÉnergie	-1310
New York to New England	90
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	-38
New York to PJM: Non-Firm Energy	0
New York to PJM: Linden VFT	-315
New York to PJM: Neptune HVdc	-660
New York to PJM: HTP	320
New York to MISO: NYPA to AMP- Ohio	121
New York to IESO (Ontario)	0
Total Export (+) / Import (-)	-2789

APPENDIX A
SUMMARY OF SUMMER 2015 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	38
PJM to New York: Non Firm Energy	0
PJM to New York: Neptune HVdc	660
PJM to New York: Linden VFT	315
PJM to New York: HTP	-320
Miscellaneous Transfers to Other Areas	3033
Total Export (+) / Import (-)	4293

TRANSÉNERGIE	
TransÉnergie to New Brunswick: Madawaska and Eel River HVdc	600
TransÉnergie to New England: Sandy Pond HVdc	1500
TransÉnergie to New England: Vermont	225
TransÉnergie to New York	1310
TransÉnergie to IESO (Ontario)	1250
TransÉnergie to Cornwall	45
Total Export (+) / Import (-)	4830

B. SUMMER 2015 BASE CASE CONDITIONS

Summer 2015 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	372 MW	In Service
Dunkirk	75 MW	In Service
Niagara	2679 MW	In Service
AES/Somerset	664 MW	In Service
Ginna	581 MW	In Service
Sithe/Independence	909 MW	In Service
Oswego #5	416 MW	In Service
Oswego #6	820 MW	In Service
Nine Mile Pt #1	635 MW	In Service
Nine Mile Pt #2	1287 MW	In Service
J.A. Fitzpatrick	837 MW	In Service
Maple Ridge Wind Farm	33 MW	In Service
St. Lawrence/FDR (17-32)	786 MW	In Service
Athens	666 MW	In Service
Bethlehem Energy Center	625 MW	In Service
Empire	553 MW	In Service
Gilboa	165 MW	In Service
Bowline Pt 1	558 MW	In Service
Bowline Pt 2	183 MW	In Service
Roseton 1	388 MW	In Service
Roseton 2	595 MW	In Service
Indian Pt #2	1020 MW	In Service
Indian Pt #3	1035 MW	In Service
Astoria Energy II	538 MW	In Service
Bayonne Energy Center	461 MW	In Service
ConEd Astoria Units (Astoria 3)	370 MW	In Service
NYPA Astoria Combined-Cycle	458 MW	In Service
Ravenswood #3	946 MW	In Service
ECP/Linden Cogen	546 MW	In Service
Arthur Kill #3	173 MW	In Service

Northport 1	265 MW	In Service
Northport 2	250 MW	In Service
Northport 3	250 MW	In Service
Northport 4	265 MW	In 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	450 MW	In Service
Bear Swamp 1 & 2	120 MW	In Service
Norwalk Harbor 1 & 2	0/0 MW	Out of Service
Seabrook	1317 MW	In Service

Ontario

Beck 1	323 MW	In Service
Beck 2	664 MW	In Service
Thorold	228 MW	In Service
Decew Falls	15 MW	In Service
Bruce A	1590 MW	In Service
Bruce B	3288 MW	In Service
Darlington	3697 MW	In Service
Lambton	0 MW	Out of Service
Pickering A	500 MW	In Service
Pickering B	1961 MW	In Service
Nanticoke	0 MW	Out of Service
Saunders	673 MW	In Service

PJM

Peach Bottom #2	1144 MW	In Service
Peach Bottom #3	1149 MW	In Service
Salem #1	1170 MW	In Service
Salem #2	1158 MW	In Service
Limerick #1	1154 MW	In Service
Limerick #2	1172 MW	In Service
Hope Creek	1174 MW	In Service

Susquehanna #1	1290 MW	In Service
Susquehanna #2	1289 MW	In Service

TransÉnergie HVdc CONVERTER SCHEDULES

Chateauguy HVdc	838 MW	In Service
Sandy Pond HVdc	1500 MW	In Service
Highgate HVdc	222 MW	In Service
Madawaska HVdc	300 MW	In Service
Eel River HVdc	300 MW	In Service

AREA LOADS & LOSSES

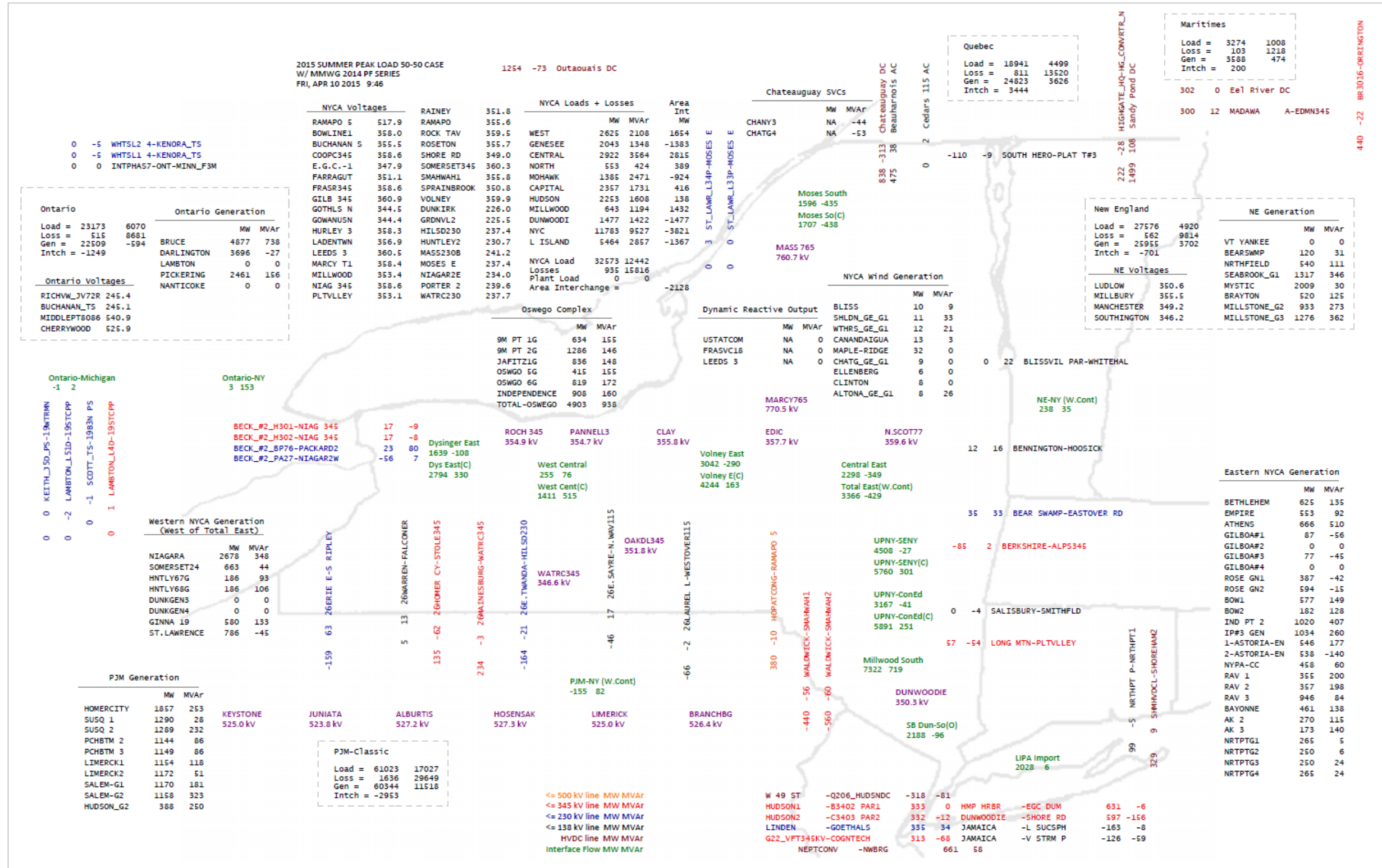
NYISO	33,567 MW
ISO-NE	28,141 MW
IESO (Ontario)	23,690 MW
PJM	62,210 MW

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	-123 MW
Jamaica-Lake Success	-165 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)	190 MW
Ramapo PAR #2 (+ to NY)	190 MW
East Garden City #1	315 MW
East Garden City #2	315 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	251	312	372	325751	155
ACADEMY__138A_138B_PAR8	PAR8	138	251	312	372	325750	155
ACADEMY__345_138_TR1	TR1	345	252	316	364	325753	155
ACADEMY__345_138_TR8	TR8	345	252	316	364	325752	155
ADIRNDCK-CHASLAKE_230_13	13	230	434	478	560	325233	119
ADIRNDCK-EDIC_PTR_230_12-AP	12-AP	230	440	478	560	25082	144
ALBANY__-GREENBSH_115_1	1	115	186	208	237	25860	110
ALBANY__-GREENBSH_115_2	2	115	186	208	237	25868	110
ALBANY__-TRINITY__115_5	5	115	198	244	280	25861	90
ALBANY__-TRINITY__115_9	9	115	147	178	258	25872	96
ALCOA__-DENNISON_115_12-AD	12-AD	115	175	202	222	25227	36
ALCOA__-NOGDNRG_115_13-ANO	13-ANO	115	128	147	159	25230	28
ALCOA_PA-ALCOA__115_R8105	R8105	115	206	247	310	25202	7
AMAWALK_-MOHANSIC_115_995 U.G.	995UG	115	78	78	80	26481	11
AMAWALK_-MOHANSIC_115_996 U.G.	996UG	115	97	97	97	26480	12
AMERISTD-GARDNVLB_115_182-3	182-3	115	129	182	236	26015	52
ANDOVER_-PALMITER_115_157_932	157_932	115	79	101	119	25094	0
ARCADE__-HOMER_HL_115_151(167)	151-2	115	116	120	145	26452	30
ARSENAL_-REYNOLDS_115_31	31	115	128	147	159	26423	63
ASH_____-TEMPLE__115_9	9	115	207	233	233	26062	8
ASHLEYRD-MASONCR__115_909	909	115	155	179	193	25847	15
ASHLEYRD-PLATSBRG_115_700	700	115	174	179	220	25845	20
ASTANNEX_138A_138B_PAR1	PAR1	138	347	416	464	325848	75
ASTANNEX_345_138_TR1	TR1	345	268	335	393	325847	75
ASTANNEX-ASTORIAE_138_34091	34091	138	236	272	304	325849	75
ASTANNEX-E13THSTA_345_Q35L	Q35L	345	499	741	1476	25134	218
ASTANNEX-E13THSTA_345_Q35M	Q35M	345	499	741	1476	25142	244
ASTORIAE-ASTORIA3_138_34123	34123	138	271	311	400	25876	133
ASTORIAE-CORONA__138_34181	34181	138	174	235	368	25277	140
ASTORIAE-CORONA__138_34182	34182	138	174	235	368	25278	136
ASTORIAE-CORONA__138_34183	34183	138	174	235	368	25279	140
ASTORIAE-CORONA__138_34184	34184	138	174	235	368	25280	131
ASTORIAE-CORONA__138_34185	34185	138	174	235	368	25281	124
ASTORIAE-CORONA__138_34186	34186	138	174	235	368	25282	127
ASTORIAW-QUENBRDG_138_28241	28241	138	174	235	368	25315	133
ASTORIAW-QUENBRDG_138_28242	28242	138	174	235	368	25316	137
ASTORIAW-QUENBRDG_138_28243	28243	138	348	469	688	25317	250
ASTORIAW-QUENBRDG_138_28244	28244	138	363	525	688	25318	288
ATHENS__-PLSNTVLY_345_91	91	345	1331	1538	1724	25054	953
BAGATLRD-PILGRIM__138_564	564	138	487	543	623	325607	55
BAKER_ST-FALCONER_115_160-3	160-3	115	176	197	239	26513	7
BALLSTON-TAPBLSTN_115_302	302	115	116	120	145	325897	9
BARRETT__138A_138B_PAR	B_PAR	138	224	278	313	25590	97
BARRETT_-FREEPORT_138_459	459	138	187	262	313	26425	97
BATAVIA_-SBATAVIA_115_117	117	115	220	239	239	26017	52
BATH_____-MONTRFL__115_965	965	115	124	139	149	26163	3

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
BATH____-SPENCHIL_115_723	723	115	124	139	159	325797	38
BATNKILL-EASTOVER_115_10	10	115	186	214	237	26474	40
BATTHILL-PYRITES__115_7-BHP	7-BHP	115	76	87	94	26065	15
BEAR SWP-EASTOVER_230_E205	E205W	230	440	505	555	25030	36
BECK NM_-SWANROAD_115_BL 104	BL 104	115	168	181	199	25042	0
BECK____-NIAGARA__230_PA27	PA27	230	400	460	558	25025	56
BECK____-NIAGARA__345_PA301	PA301	345	1070	1322	1714	25040	18
BECK____-NIAGARA__345_PA302	PA302	345	1070	1322	1714	25041	18
BECK____-PACKARD__230_BP76	BP76	230	500	587	588	25024	23
BENNETT_-MORaine__115_725	725	115	125	152	179	325858	61
BENNETT_-SPENCHIL_115_953	953	115	124	139	159	26164	33
BERKSHIR-ALPS____345_393	393	345	1434	1649	1912	25034	86
BERKSHIR-NORTHFLD_345_312	312	345	1345	1345	1793	25366	25
BERRY_RD-BAKER_ST_115_160-2	160-2	115	193	213	240	26512	23
BETHLHEM-ALBANY__115_18-BA	18-BA	115	329	369	423	26119	90
BIGTREE_-DAVIS_RD_115_904	904	115	139	163	183	25162	1
BIGTREE_-LANGNERD_115_903	903	115	139	163	183	326050	60
BLACKRVR-CLIMAX__115_1-BC	1-BC	115	116	120	145	26067	42
BLACKRVR-FORTDRUM_115_2-BF	2-BF	115	116	120	145	26068	14
BLACKRVR-LIGHTHSE_115_6	6	115	116	120	145	25506	13
BLISSVIL-WHITEHAL_115_K7	K7	115	187	217	229	25028	0
BLUESTOR-PLSTVYCH_115_13	13	115	116	120	145	25505	40
BLUESTOR-PLSTVYCH_115_8	8	115	160	166	206	25498	42
BNNINGTN-HOOSICK__115_K6	K6	115	150	217	239	25029	12
BNVLMUNI-PORTER__115_2	2	115	107	107	107	325778	9
BOONVLE-BNVLMUNI_115_2	2	115	96	96	96	26073	12
BOONVLE-EDIC_PTR_115_1-BP	1-BP	115	100	100	100	26074	7
BOONVLE-ROME____115_3-BR	3-BR	115	116	120	145	26071	33
BOONVLE-ROME____115_4-BR	4-BR	115	105	114	134	26072	40
BORDRCTY-GUARDIAN_115_969	969	115	176	179	179	325283	113
BOWLINE__345_138_BK455	BK455	345	506	587	671	25664	221
BOWLINE_-WHAVSTRW_345_67-1	67-1	345	687	747	747	25567	577
BOWLINOR-CONGERS__138_561	561	138	317	363	383	26723	187
BRIGHAM_-LUDLUM_B_115_161-2	161-2	115	168	185	206	26020	58
BRISTLHL-CLAY____115_4	4	115	104	104	104	25518	39
BRISTLHL-S.OSWEGO_115_4	4	115	103	103	103	25512	38
BROOKHVN_138_69__BK 1	BK 1	138	227	263	302	26548	96
BROOKHVN_138_69__BK 2	BK 2	138	227	263	302	325152	89
BROOKHVN-EDWARDV_138_864	864	138	308	481	555	25553	144
BROOKHVN-SILLSRD__138_874	874	138	487	543	623	325617	139
BROOKHVN-SILLSRD__138_887	887	138	390	435	498	325619	139
BROOKHVN-WILDWOOD_138_861	861	138	434	480	586	325932	52
BROWNFLS-HIGLEY__115_1-BH	1-BH	115	102	122	135	26078	36
BROWNFLS-TAYLORVL_115_3-BT	3-BT	115	102	120	129	26076	37
BROWNFLS-TAYLORVL_115_4-BT	4-BT	115	105	114	126	26077	37
BUCHAN_N_345_138_BK TA5	BK TA5	345	195	272	343	25425	110
BUCHAN_N-BUCHANAN_138_95891	95891	138	225	273	345	25568	110
BUCHAN_N-EASTVIEW_345_W93	W93	345	1722	1894	2404	25133	784

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
BUCHAN_S-MILLWOOD_345_W97	W97	345	1490	1664	1876	25146	552
BUCHAN_S-MILLWOOD_345_W98	W98	345	1490	1664	1876	25247	552
BUCHANAN-MILLWOOD_138_96951	96951	138	275	302	383	25283	9
BUCHANAN-MILLWOOD_138_96952	96952	138	275	302	383	25284	9
BULYMO__-BOONVILLE_115_6	6	115	116	120	124	325265	49
BURDECK_-ALTAMONT_115_17-BA	17-BA	115	116	120	145	26151	41
BURDECK_-VORHVSLE_115_19-BV	19-BV	115	116	120	145	26152	49
BURNS____138_69__BK 519	BK 519	138	208	258	284	25889	87
BURNS____-CORPDRIV_138_702	702	138	189	217	226	325812	112
BURNS____-N.HEMPST_138_531	531	138	236	270	285	25878	27
BURNS____-WHAVSTOR_138_541	541	138	236	270	285	25879	96
BUTLER__-MOHICAN__115_18	18	115	116	120	145	26434	26
C._ISLIP_138_69__BK 3	BK 3	138	228	263	302	26519	115
C._ISLIP-RONKOKMA_138_883	883	138	380	538	617	26497	72
C_BATNKILL-MULTP-10_115_10	10	115	182	197	237	26121	40
CANAL____-RIVRHEAD_138_910	910	138	227	263	302	325242	141
CANANDGA-STONYRDG_230_68	68	230	498	534	566	25176	188
CARD____-MILSTONE_345_383	383	345	1488	1912	2097	25332	119
CARMEL__-CROTONFL_115_991	991	115	215	247	275	26155	76
CARMEL__-WOODSTNY_115_992	992	115	215	247	275	325278	56
CARR_ST_-DEWITT___115_15-CD	15-CD	115	187	213	236	26093	13
CATON____-HILLSIDE_115_960	960	115	102	113	120	325290	26
CAVANARD-EDIC_PTR_115_7	7	115	116	120	145	325214	57
CEDAR____-WHITEHAL_115_6	6	115	116	120	145	26516	18
CHADWICK-E.WALDEN_115_DW-3	DW-3	115	176	211	240	26218	45
CHADWICK-WBALMVLE_115_DW-2	DW-2	115	175	193	220	26217	3
CHASLAKE-EDIC_PTR_230_11	11	230	440	505	516	25051	150
CHAT_TAP-LYON_MTN_115_911	911	115	135	159	175	325704	30
CHATEAUG-CHAT_TAP_115_911	911	115	135	159	175	325705	10
CHATGUAY-MASSENA__765_7040	7040	765	3975	3975	5300	25301	1308
CHESTROR-SUGRLOAF_138_271	271	138	236	270	285	325424	109
CHRCHTWN-BLUESTOR_115_13	13	115	129	158	179	26685	53
CHRCHTWN-CRARYVIL_115_984	984	115	113	144	173	26500	28
CHRCHTWN-SCHODACK_115_14/984	14/984	115	175	196	196	26126	81
CHURCH_S-ROTRDAM_115_10-AR	10-AR	115	116	120	145	26428	32
CLAY____345_115_BK 1	BK 1	345	308	367	405	25387	246
CLAY____345_115_BK 2	BK 2	345	478	637	794	25421	246
CLAY____-DEWITT___115_3-CD	3-CD	115	116	120	139	25519	71
CLAY____-DEWITT___115_5-CD	5-CD	115	193	213	240	25522	57
CLAY____-DEWITT___345_13-CD	13-CD	345	1109	1344	1529	25168	568
CLAY____-EDIC_PTR_345_1-16	42370	345	1301	1501	1685	25200	509
CLAY____-EDIC_PTR_345_2-15	42036	345	1301	1501	1685	25169	510
CLAY____-HOPKINS__115_11-CH	11-CH	115	208	208	208	25516	129
CLAY____-INDPDNCE_345_26	26	345	1670	1931	2210	25858	860
CLAY____-SOLVAY___115_14-CG _GE	14-CG	115	116	120	145	25517	76
CLAY____-TEALLAVE_115_10-CT	10-CT	115	116	120	145	25520	83
CLAY____-WOODARD__115_17	17	115	192	192	192	25515	87
CLIMAX__-TAYLORVL_115_8-CT	8-CT	115	105	114	134	26431	12

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
CLINTON_-IMC_TAP__115_15-CI	15-CI	115	116	120	145	26128	15
CLRKSCRN_345_115_BK1	BK1	345	235	255	295	325724	34
CLRKSCRN_345_115_BK2	BK2	345	235	255	295	325725	34
CLRKSCRN-OAKDALE__345_36	36	345	1207	1327	1590	325726	772
CLYDE___115_34__TR1	TR1	115	125	143	154	25221	22
CLYDE___-STATE_ST_115_971	971	115	120	146	159	68810	1
COBBLENM-COBBLENY_115_BK 1	BK 1	115	40	41	45	25426	14
COBBLENM-HOMER_HL_115_152-2	152-2	115	116	120	145	26022	20
CODNIGTN-E. ITHACA_115_981-1	981-1	115	108	128	143	25730	35
CODNIGTN-ETNA___115_998	998	115	227	253	283	25734	73
COFFEEN_-EWATRTWN_115_5	5	115	119	119	119	325769	26
COFFEEN_-GLENPARK_115_3-CG	3-CG	115	119	119	119	26069	52
COLDENHM-ROCKTVRN_115_J	J	115	232	257	304	26420	21
COLLIERS-RICHFELD_115_929	929	115	125	152	215	26169	5
COLTON_-FLATROCK_115_2-CF	2-CF	115	114	123	142	26088	37
COLTON_-HIGLEY___115_1-HC	1-HC	115	128	147	159	26087	38
COMSTKNM-MOHICAN__115_13	13-MW	115	116	120	145	26484	38
CONGERS_-SNKEHLRD_138_563	562	138	317	363	383	25887	148
COOPERNY-ROCKHILL_115_957	957	115	108	120	120	325614	35
COOPERS__345_115_BK 2	BK 2	345	220	261	300	25433	70
COOPERS__345_115_BK 3	BK 3	345	220	261	300	25434	70
COOPERS_-FERNDALD_115_950	950	115	176	179	179	26171	53
COOPERS_-MIDDLETP_345_CMT-34	CMT-34	345	1464	1793	1793	25110	671
COOPERS_-ROCKTVRN_345_CRT-42	CRT-42	345	1704	1793	1793	25111	563
CORONA___138A_138B_BK R1	B_BK R1	138	181	253	319	25621	1
CORONA__138A_138C_BK R2	C_BK R2	138	181	253	319	25622	1
CORONA_-JAMAICA__138_18001	18001	138	255	322	361	25285	1
CORONA_-JAMAICA__138_18002	18002	138	222	288	322	25286	1
CORPDRIV-HARNGCRN_138_703	703	138	189	222	250	25881	89
CORTLAND-FENERWND_115_3	3	115	125	143	154	325248	2
CORTLAND-TILDEN___115_18	18	115	176	208	236	26089	50
CORTLAND-TULLERHL_115_1	1	115	128	147	159	25059	1
CURRY_RD-WOLF_RD__115_8	8	115	116	120	145	26254	16
DANSKAMR-CHADWICK_115_DW-1	DW-1	115	176	211	259	26219	43
DANSKAMR-MARLBORO_115_DB	DB	115	183	215	237	26221	60
DANSKAMR-NCHELSEA_115_AC	AC	115	183	211	240	25829	171
DANSKAMR-NCHELSEA_115_DC	DC	115	178	199	295	25830	177
DANSKAMR-RYNDSD_HL_115_DR	DR	115	183	248	279	25831	0
DAVIS_RD-STOLLERD_115_927	927	115	203	226	239	26172	28
DEERFLD_-SCOBIE___345_373	373	345	1373	1373	1373	26383	417
DELEMTER-LAKEVIEU_115_141	141	115	88	101	108	325873	27
DELEMTER-LAKEVIEU_115_142	142	115	88	101	108	325880	38
DELHI___-DELHI_TP_115_951-1	951-1	115	164	164	164	26174	47
DELHI___-GR.GORGE_115_916	916	115	90	90	90	26479	13
DELHI___-VINGR_TP_115_917_916	917-916	115	120	120	120	25911	20
DELHI_TP-COLLIERS_115_951-2	951-2	115	227	239	239	26203	49
DENNISON-NORFOLK__115_4-DA	4-DA	115	220	252	280	25225	17
DENNISON-ROSEMNTA_115_1-RD	1-RD	115	176	203	223	25523	0

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
DENNISON-ROSEMNTB_115_2-RD	2-RD	115	176	203	223	25524	0
DENNISON-SANDSTON_115_5-DS	5-DS	115	182	197	248	25226	19
DEPEW_TP-DEPEW_115_BK 1	BK 1	115	108	120	120	25428	13
DEPEW_TP-ERIE_ST_115_921	921	115	120	120	120	26010	24
DEWITT__345_115_BK 2	BK 2	345	517	658	794	25418	232
DEWITT__-TEALLAVE_115_4-DT	4-DT	115	116	120	145	26094	55
DULEY__-PATNODE__230_PND-1	PND-1	230	397	459	503	325856	103
DULEY__-PLATSBRG_230_DP-1	DP-1	230	249	277	318	25272	111
DUNKIRK__230_115_BK 31	BK 31	230	139	197	248	25386	41
DUNKIRK__230_115_BK 41	BK 41	230	133	190	248	25430	41
DUNKIRK_-BENETTNM_115_142	142	115	168	181	206	26018	12
DUNKIRK_-BERRY_RD_115_160-1	160-1	115	193	213	239	26025	56
DUNKIRK_-BRIGHAM__115_161-1	161-1	115	168	181	206	26021	61
DUNKIRK_-LUDLUM_A_115_162-1	162-1	115	168	181	206	26027	52
DUNKIRK_-SILVRCKR_115_141	141	115	88	101	108	26026	11
DUNWODIE_138__138__BK N1	BK N1	138	315	375	433	25624	66
DUNWODIE_138__138__BK N2	BK N2	138	194	293	400	25623	115
DUNWODIE_138__138__BK S1	BK S1	138	345	491	600	25626	178
DUNWODIE_345_138_BK N1_W74	BKN1W74	345	411	494	554	25209	306
DUNWODIE_345_138_BK S1_W73	BKS1W73	345	310	387	424	25208	269
DUNWODIE-DUNWODIE_138_99997 TIE	99997	138	205	255	311	25532	2
DUNWODIE-E179THST_138_99153	99153	138	233	348	617	25287	178
DUNWODIE-MOTTHAVN_345_71	71	345	707	833	1298	25151	202
DUNWODIE-MOTTHAVN_345_72	72	345	707	833	1298	25191	201
DUNWODIE-SHERMCRK_138_99031	99031	138	139	187	303	25193	66
DUNWODIE-SHERMCRK_138_99032	99032	138	189	288	393	25239	115
DUNWODIE-SHORE_RD_345_Y50	Y50	345	600	862	1526	25091	598
E.ITHACA-ETNA__115_981-2	981-2	115	84	101	143	25733	78
E.SAYRE_-NWAVERLY_115_956	956	115	108	128	143	25013	47
E.TWANDA-HILLSIDE_230_70	70	230	483	531	617	25014	166
E.WALDEN_115_69__TR _3	TR _3	115	52	69	81	26681	20
E.WALDEN-COLDENHM_115_CW	CW	115	232	257	304	26225	10
E.WALDEN-MODENA__115_EM	EM	115	232	257	304	25832	14
E.WALDEN-ROCKTVRN_115_D	D	115	233	265	312	26226	14
E13THSTA_138_69__BK 111	BK 111	138	76	108	159	25526	10
E13THSTA_138_69__BK 112	BK 112	138	76	108	159	25527	10
E13THSTA_138_69__BK 113	BK 113	138	76	108	159	25528	10
E13THSTA_138_69__BK 114	BK 114	138	76	108	159	25529	10
E13THSTA_345_138_BK 10	BK 10	138	251	280	305	25467	148
E13THSTA_345_138_BK 11	BK 11	138	273	288	315	25468	135
E13THSTA_345_138_BK 12	BK 12	138	273	288	315	25463	141
E13THSTA_345_138_BK 13	BK 13	138	258	320	368	25464	86
E13THSTA_345_138_BK 14	BK 14	138	251	280	305	25465	125
E13THSTA_345_138_BK 15	BK 15	138	274	312	343	25466	144
E13THSTA_345_138_BK 16	BK 16	138	270	304	338	25469	145
E13THSTA-FARRAGUT_345_45	45	345	745	913	1339	25190	367
E13THSTA-FARRAGUT_345_46	46	345	760	927	1350	25251	465
E13THSTA-FARRAGUT_345_47	47	345	358	645	1011	25177	55

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
E13THSTA-FARRAGUT_345_48	48	345	554	740	1150	25252	40
E179THST-HELLGT_E_138_15053	15053	138	165	229	364	25289	31
E179THST-HELLGT_E_138_15054	15054	138	165	229	364	25290	5
E179THST-HELLTP_W_138_15055	15055	138	210	301	384	25288	175
E179THST-PARKCHTR_138_38X01	38X01	138	169	288	501	25327	20
E179THST-PARKCHTR_138_38X02	38X02	138	169	288	501	25328	20
E179THST-PARKCHTR_138_38X03	38X03	138	169	288	501	25329	7
E179THST-PARKCHTR_138_38X04	38X04	138	169	288	501	25330	7
EASTOVER_230_115_TR 1	TR 1	230	381	494	597	326097	127
EASTVIEW_345_138_BK 1N	BK 1N	138	370	424	424	25472	187
EASTVIEW_345_138_BK 1S	BK 1S	138	370	424	424	25373	192
EASTVIEW_345_138_BK 2N	BK 2N	138	370	424	424	25471	186
EASTVIEW_345_138_BK 2S	BK 2S	138	370	424	424	25470	186
EASTVIEW-SPRNBRK__345_W64	W64	345	2296	2658	3202	25143	596
EASTVIEW-SPRNBRK__345_W65	W65	345	1720	2215	2657	25144	604
EASTVIEW-SPRNBRK__345_W78	W78	345	2296	2658	3202	25346	566
EASTVIEW-SPRNBRK__345_W79	W79	345	1720	2215	2657	25153	563
EBATAVIA-GOLAH__115_119	119	115	129	160	173	26012	16
EDIC____-FRASER__345_EF24-40	EF24-40	345	1793	1793	1793	25112	769
EDIC_PTR_230_115_BK 1P	BK 1P	230	269	320	338	25389	23
EDIC_PTR_230_115_BK 2P	BK 2P	230	269	320	338	25423	23
EDIC_PTR_345_115_BK 3E	BK 3E	345	455	539	679	25424	199
EDIC_PTR_345_115_BK 4E	BK 4E	345	505	629	794	25454	199
EDIC_PTR_345_230_BK 2E	BK 2E	230	479	562	683	25422	289
EDIC_PTR-N.SCTLND_345_14-EN	14-EN	345	1331	1538	1724	25170	752
EDIC_PTR-ROTTRDAM_230_30-PR	30-PR	230	440	505	560	25173	269
EDIC_PTR-ROTTRDAM_230_31-PR	31-PR	230	440	505	560	25194	269
EDIC_PTR-VALLEY__115_4-PV	4-PV	115	116	120	145	25231	75
EDIC_PTR-WATKINRD_115_5-PW	5-PW	115	116	120	145	25232	85
EDWARDAV-RIVRHEAD_138_893	893	138	257	297	332	325654	120
EELPOTRD-MEYER__115_968	968	115	108	128	143	325288	36
EFISHKCH_345_115_BK 1	BK 1	345	412	497	530	25724	61
EFISHKCH_345_115_BK 2	BK 2	345	439	497	560	325845	0
EFISHKIL_345_115_BK 1	BK 1	345	412	497	530	25724	61
EFISHKIL-WOOD_ST__345_F38	F38	345	1839	2520	3202	25367	784
EFISHKIL-WOOD_ST__345_F39	F39	345	1839	2520	3202	25368	871
EGRDNCTY_138_69__BK 1	BK 1	138	227	263	302	26652	120
EGRDNCTY_345_138_BK 1	BK 1	345	444	513	641	25551	315
EGRDNCTY_345_138_BK 2	BK 2	345	444	513	641	25552	315
EGRDNCTY_345C_345A_PAR1	A_PAR1	345	444	599	787	25678	315
EGRDNCTY_345C_345B_PAR2	B_PAR2	345	444	599	787	25679	315
EGRDNCTY-CARLPLCE_138_361	361	138	257	297	332	25533	88
EGRDNCTY-EGRDNCTR_345_Y49_ST	Y49_ST	345	637	900	1329	325158	630
EGRDNCTY-NEWBRDGE_138_462	462	138	200	281	493	25303	37
EGRDNCTY-NEWBRDGE_138_463	463	138	200	294	418	25304	37
EGRDNCTY-NEWBRDGE_138_465	465	138	216	311	424	25535	48
EGRDNCTY-ROSLYN__138_362	362	138	257	297	332	25534	47
EKINGSTN-RHINEBCK_115_ER	ER	115	175	193	220	26222	29

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
ELBRIDGE_345_115_BK 1	BK 1	345	470	557	717	25448	255
ELBRIDGE-GRS_LOCK_115_19-EG	19-EG	115	116	120	145	26097	5
ELBRIDGE-GRS_LOCK_115_3-EG	3-EG	115	145	151	185	26098	9
ELBRIDGE-HYATT_115_15-EH	15-EH	115	129	148	160	25109	65
ELBRIDGE-LAFAYTTE_345_17-LE	17-LE	345	940	1517	1830	25149	520
ELBRIDGE-MILTON_C_115_18-EM	18-EM	115	129	136	136	26095	13
ELBRIDGE-STATE_ST_115_5_972	5_972	115	120	144	156	25107	92
ELM_ST_-SENECA_A_230_71	71	230	223	254	262	26426	17
ELM_ST_-SENECA_B_230_72	72	230	223	254	262	26427	17
ELWOOD_138_69_BK 3	BK3	138	108	133	156	26540	65
ENDICOTT-RANGEHL_115_920	920	115	149	149	149	26158	19
ENDICOTT-ROBBLEAV_115_948	948	115	249	254	254	26159	54
ENORWICH-JENNISON_115_946	946	115	80	110	131	25729	12
ERIE SO.-S.RIPLEY_230_69	69	230	488	607	637	25016	159
ERIE_ST_-PAVNMTRD_115_926	926	115	215	240	269	26175	7
ERIEEAST-S.RIPLEY_230_69	69	230	488	607	637	25016	159
ETNA_-CLRKSCRN_115_715	715	115	242	255	295	325728	33
ETNA_-CLRKSCRN_115_947	947	115	242	255	295	325727	33
ETNA_-WILLET_115_945-2	945-2	115	125	149	156	25731	90
FAIRFIEL_-INGHAM_C_115_3	3	115	116	120	145	26106	56
FAIRPORT-ELBRIDGE_115_2	2	115	145	151	185	26099	16
FAIRPORT-HOOK_TAP_115_1	1	115	145	151	185	26327	24
FALCONER_SALAMANC_115_153	153	115	128	147	159	26033	13
FALCONER_SALAMANC_115_154	154	115	128	147	159	26032	18
FARMGTN_115_12_BK 3	BK 3	115	15	25	35	325380	5
FARMGTN_115_34_BK 1	BK 1	115	57	68	95	70259	38
FARMGTN_115_34_BK 2	BK 2	115	57	68	95	70258	29
FARMGTN_-BORDRCTY_115_977	977	115	150	177	193	25057	103
FARMGTN_-HAMLTNNM_115_7-HF	7-HF	115	145	151	185	26101	32
FARRAGUT_345A_138C_BK 9X	BK 9X	345	110	155	195	25636	68
FARRAGUT_345A_138D_BK 10X	BK 10X	345	110	155	195	25637	68
FARRAGUT_345B_345A_TR11	TR11	345	497	705	930	25044	333
FARRAGUT_345C_345A_TR12	TR12	345	503	699	930	25043	0
FARRAGUT-GOWANUS_345_41	41	345	630	829	1301	25141	558
FARRAGUT-GOWANUS_345_42	42	345	630	829	1301	25140	558
FARRAGUT-HUDS_AVE_138_32077	32077	138	106	106	106	25291	68
FARRAGUT-HUDS_AVE_138_32078	32078	138	114	169	194	25292	68
FARRAGUT-HUDS_AVE_138_32711	32711	138	148	148	148	25293	68
FENERWND-ONEIDA_115_8	8	115	146	157	159	25894	11
FERNDALE-WWDBURNE_115_959	959	115	90	90	90	26180	17
FEURABSH-GREENBSH_115_17	17	115	176	197	248	25862	24
FEURABSH-NCATSKLL_115_2-FN	2-FN	115	116	120	145	25067	0
FISHKPLN-EFISHKIL_115_HF	HF	115	198	230	260	26227	38
FISHKPLN-SYLVANLK_115_FP	FP	115	203	226	239	25066	126
FITZPTRK-EDIC_PTR_345_FE1	FE1	345	1434	1434	1661	25077	749
FLATROCK-BROWNFLS_115_2-FBF	2-FBF	115	102	122	135	26079	36
FLATSTR_-EELPOTRD_115_968	968	115	108	128	143	325287	21
FORGEBRK-MERTPARK_115_WF	WF	115	194	214	240	26229	84

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
FORTDRUM-DEFERIET_115_2-FD	2-FD	115	116	120	145	26091	0
FORTDRUM-TAYLORVL_115_2	2-DT	115	102	114	134	26090	7
FOXHILLS-WILLWBRK_138_29211-1	29211-1	138	182	262	439	25771	118
FOXHILLS-WILLWBRK_138_29212-1	29212-1	138	182	262	439	25772	132
FRASER___345_115_BK 2	BK 2	345	305	386	420	25391	97
FRASER__-COOPERS__345_33	33	345	1207	1404	1703	25236	695
FRASER__-GILBOA___345_GF5-35	GF5-35	345	1428	1605	1793	25060	264
FRASERNY-DELHI_TP_115_951-3	951-3	115	227	239	239	26202	97
FREEPORT-NEWBRDGE_138_461	461	138	209	278	467	25155	134
FRESHKLS_138C_138A_R1__21191	21191	138	275	387	486	25639	249
FRESHKLS_138C_138B_R2__21192	21192	138	272	372	439	25640	249
FRESHKLS_345_138_TA 1	TA 1	138	275	387	486	25457	250
FRESHKLS_345_138_TB 1	TB 1	138	272	372	440	25458	250
FRONT_ST+ROSA_RD__115_11	11	115	200	239	239	26274	83
FROST_BR-LONG_MTN_345_352	352	345	1240	1240	1425	25363	267
FROST_BR-SOUTHNGT_345_329	329	345	1240	1446	1601	25364	502
FTZPK_NM-LIGHTHSE_115_3-FLH	3-FLH	115	116	119	145	25502	24
GARDNVLA_230_1___BK6P	BK6P	230	304	387	420	25405	105
GARDNVLA_230_1___BK7P	BK7P	230	202	253	300	25435	88
GARDNVLA-GIRDLERD_115_705	705	115	215	239	239	25116	16
GARDNVLA-LANGNERD_115_903	903	115	139	163	183	325284	81
GARDNVLA-STOLLERD_230_66	66	230	474	478	478	25180	6
GARDNVLB_230_115_BK 2	BK 2	230	258	280	354	25385	107
GARDNVLB_230_115_BK 3	BK 3	230	141	182	250	25416	74
GARDNVLB_230_115_BK 4	BK 4	230	141	183	250	25417	74
GARDNVLB-ARCADE___115_151	151	115	129	148	160	26040	43
GARDNVLB-BETHWEST_115_149	149	115	200	217	260	325317	16
GARDNVLB-BETHWEST_115_150	150	115	200	217	260	325318	5
GARDNVLB-CLVRBANK_115_141	141	115	88	101	107	26038	43
GARDNVLB-CLVRBANK_115_142	142	115	88	101	108	26037	44
GARDNVLB-COBBLENM_115_152-1	152-1	115	187	199	199	26023	50
GARDNVLB-DUNKIRK__230_73	73	230	556	584	601	25166	121
GARDNVLB-DUNKIRK__230_74	74	230	505	505	505	25197	122
GARDNVLB-GARDNVLA_115_GARD-NY	GARD_NY	115	550	682	947	25085	28
GARDNVLB-GARDNVLA_230_T8-12	T8-12	230	636	739	773	25089	199
GARDNVLB-WALDEN__115_54-1	54-1	115	129	181	206	26035	19
GE_R_D__-GROOMS___115_20_15	20_15	115	200	217	260	26266	34
GILBOA__-LEEDS___345_GL3	GL3	345	1428	1605	1971	25219	478
GILBOA__-N.SCTLND_345_GNS1	GNS1	345	1428	1605	1868	25052	53
GINNA___-PANNELRG_115_912	912	115	207	247	285	25260	34
GINNA___-S124_____115_913	913	115	251	301	392	26281	151
GINNA___-STA_135__115_909	909	115	226	249	269	325837	75
GINNA___-STA_135__115_937	937	115	226	249	269	325838	75
GINNA___-STA_204__115_908-1	908-1	115	252	302	355	26282	79
GINNA___-STA_204__115_911	911	115	251	300	354	26283	167
GIRDLERD-STOLLERD_115_706	706	115	203	226	239	325161	20
GLENWD__138_69__BK 5	BK 5	138	112	138	156	25735	91
GLENWD__138_69__BK 6	BK 6	138	112	138	156	70637	90

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
GLENWD__-CARLPLCE_138_363	363	138	291	321	372	25554	9
GLENWD__-GLENWDGT_138_366	366	138	291	321	372	25555	1
GLENWDGT-ROSLYN___138_364	364	138	291	321	372	25556	1
GOETHALS_345A_345B_BK 1N	BK 1N	345	499	699	880	25641	333
GOETHLSS-FRESHKLS_345_21	21	345	919	1006	1286	25138	164
GOETHLSS-LINDN_CG_345_G23L	G23L	345	643	643	643	26000	428
GOETHLSS-LINDN_CG_345_G23M	G23M	345	643	643	643	325203	428
GOETHSLN_345/230_BK 1	BK 1	345	528	727	817	25642	335
GOETHSLN-FRESHKLS_345_22	22	345	981	1390	1602	25137	164
GOLAH___-MORTIMER_115_110	110	115	130	136	159	26034	54
GOUDEY__-ROBBLEAV_115_940	940	115	238	277	305	325166	38
GOUVNEUR-BATTHILL_115_8-GBH	8-GBH	115	76	87	94	26066	12
GOWANUS__138A_138B_PAR R14	PAR R14	138	248	335	421	25794	100
GOWANUS__138A_138B_PAR R2	PAR R2	138	245	302	347	25793	100
GOWANUS__345_138_BK T14	BK T14	138	248	335	421	25475	100
GOWANUS__345_138_BK T2	BK T2	138	245	302	347	25476	100
GOWANUS_-GOETHLSS_345_26	26	345	492	702	1211	25571	431
GOWANUS_-GOETHSLN_345_25	25	345	492	702	1211	25139	431
GOWANUS_-GREENWD__138_42231	42231	138	254	372	516	25214	100
GOWANUS_-GREENWD__138_42232	42232	138	254	372	516	25215	100
GOWANUSA-GREENWD__138_42G24	42G24	138	244	268	268	26007	209
GOWANUSC-GREENWD__138_42G13	42G13	138	239	268	268	26006	201
GOWANUSN_345KV_REA_R41_REACTR	R41_REA	345	687	896	1315	26001	558
GOWANUSS_345KV_REA_R42_REACTR	R42_REA	345	687	896	1315	26003	558
GR.GORGE-VINGR_TP_115_916 N.O.	916 N.O	115	125	152	193	26478	0
GREENBSH-FT._ORAN_115_15	15	115	129	166	206	26130	42
GREENBSH-STEPHTWN_115_993	993	115	116	120	145	26447	18
GREENDGE-FLATSTR__115_968	968	115	108	128	143	26185	3
GREENDGE-MONTRFL__115_967	967	115	108	128	143	26184	23
GREENDGE-MONTRFL__115_970	970	115	124	139	159	26183	30
GREENLWN_138_69__BK5	BK5	138	108	133	156	26655	50
GREENLWN-ELWOOD___138_673	673	138	394	466	568	25546	141
GREENLWN-SYOSSET__138_676	676	138	269	358	541	25548	24
GREENWD_-FOXHILLS_138_29231	29231	138	174	235	368	25321	0
GREENWD_-FOXHILLS_138_29232	29232	138	174	235	368	25322	0
GRND_ISL-AMERISTD_115_182-2	182-2	115	168	181	206	26014	53
GROOMS__-JOHNSON__115_13	13	115	220	252	280	26267	40
GRS_LOCK-S.OSWEGO_115_9-GS	9-GS	115	135	135	135	25510	76
GRS_LOCK-TILDEN___115_16-GT	16-GT	115	116	120	145	26102	46
GUARDIAN-HALEYRD__115_969	969	115	176	179	179	26167	107
HALEYRD_-GREENDGE_115_969	969	115	176	179	179	325294	84
HAMLTNNM-ELBRIDGE_115_7-HE	7-HE	115	155	179	193	26096	43
HAMLTNNM-HAMLTNNY_115_BK1	BK 1	115	30	37	56	25394	11
HANCOCK_-HAZEL___115_955-1	955-1	115	102	113	120	26187	0
HARSNRAD-ROBNSNRD_115_907	907	115	215	247	275	26162	46
HAUPPAUG-C._ISLIP_138_889	889	138	207	299	420	25681	75
HAZEL___-FERNDALE_115_955-2	955-2	115	102	113	120	26181	11
HDSNBRDG-DEWITT__115_10	10	115	207	233	233	325260	79

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
HDSNBRDG-DEWITT__115_7	7	115	237	274	318	325261	53
HELLGATE-ASTORIAW_138_24053	24053	138	140	186	186	25212	138
HELLGATE-ASTORIAW_138_24054	24054	138	140	186	186	25213	137
HELLGT_E-ASTORIAE_138_34051	34051	138	174	235	368	25323	8
HELLGT_E-ASTORIAE_138_34052	34052	138	174	235	368	25324	5
HELLGT_W-ASTORIAW_138_24051	24051	138	160	250	436	25210	50
HELLGT_W-ASTORIAW_138_24052	24052	138	160	250	436	25211	51
HICKLING-CATON__115_958	958	115	102	113	120	26189	6
HICKLING-RIDGE_RD_115_964	964	115	96	124	147	26188	16
HILLBURN_138_69__BK 317	BK 317	138	187	230	265	26330	98
HILLBURN-RAMAPOOR_138_52	52	138	187	230	265	25882	98
HILLSIDE_115_1_BK3S	BK3S	230	254	304	336	325761	85
HILLSIDE_115_1_BK4S	BK4S	230	410	511	630	325762	45
HILLSIDE_230_1_BK3P	BK3P	230	254	304	336	325759	85
HILLSIDE_230_1_BK4P	BK4P	230	410	511	630	325760	67
HILLSIDE-CHEMUNG__115_962	962	115	150	176	179	25726	72
HILLSIDE-WATRCURE_230_69	69	230	550	637	657	25181	229
HINMAN__-HARSNRAD_115_908	908	115	238	287	306	26161	170
HISHELDN-STONCREK_230_81	81	230	417	479	533	325622	247
HOLBROOK-NSHORBCH_138_884	884	138	328	379	434	25341	8
HOLBROOK-SILLSRD__138_872	872	138	434	480	586	25340	8
HOLBROOK-WEST BUS_138_888	888	138	487	543	623	25542	221
HOLTSVLE-UNIONAVE_138_818	818	138	172	224	362	25584	133
HOLTSVLE-WEST BUS_138_877	877	138	487	543	623	325909	0
HOMER C_-STOLLERD_345_37	37	345	639	769	840	25036	134
HOMER C_-WATRCURE_345_30	30	345	926	927	927	25018	0
HOMER_HL-NILE____115_157-1	157-1	115	88	101	108	26041	25
HOOK_TAP-FARMGTN__115_7-HF	7-HF	115	145	151	185	26100	3
HOPATCON-RAMAPO__500_5018	5018	500	999	1301	1713	25019	380
HOPKINS_-TEALLAVE_115_11-HT	11-HT	115	221	239	239	26105	94
HUDS_AVE-JAMAICA__138_701	701	138	147	221	360	25294	27
HUDS_AVE-JAMAICA__138_702	702	138	147	221	360	25295	27
HUDSON__-PLSTVYCH_115_12-HP	12-HP	115	129	157	159	25499	49
HUDSON__-VALKIN____115_15	15	115	129	159	159	26514	83
HUDSONP_-FARRAGUT_345_B3402	B3402	345	508	684	931	25020	333
HUDSONP_-FARRAGUT_345_C3403	C3403	345	508	741	931	25038	333
HUNTLEY_-ELM_ST__230_70	70	230	432	477	491	25855	59
HUNTLEY_-SAWYER__230_79	79	230	566	654	755	25127	382
HUNTLEY_-SAWYER__230_80	80	230	566	654	755	25128	434
HUNTLEY_-ST_60_36_115_36-1	36-1	115	168	175	176	26046	29
HUNTLEY_-ST_60_37_115_37-1	37-1	115	148	148	148	26045	28
HUNTLEY_-STA_129__115_39-1	39-1	115	145	151	185	26044	68
HUNTLEY_-STA_154__115_38-1	38-1	115	145	151	185	26047	69
HURLYAVE_345/115_BK 1	BK 1	345	419	481	488	25419	194
HURLYAVE-LINCNPBK_115_HP	HP	115	198	230	260	25833	86
HURLYAVE-OHIOVLE_115_OR	OR	115	129	183	211	25834	49
HURLYAVE-ROSETON__345_303	303	345	1396	1623	1870	25218	467
HYATT__-BORDRCTY_115_979	979	115	129	148	160	25106	42

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
IMC_TAP-MECO___115_15-IM	15-IM	115	125	143	154	26132	20
INDCORTH-SPIERFLS_115_18	18	115	278	321	368	26149	127
INDK-OSW-LIGHTHSE_115_2-ILH	2-ILH	115	114	120	142	25503	14
INDN_PT3-BUCHAN_S_345_W96	W96	345	1574	1762	1991	25570	1033
INDPDNCE-SCRIBA___345_25	25	345	1670	1931	2210	25859	41
INGHAM_C_115_115_PAR 2	PAR 2	115	167	197	239	25242	120
INGHAM_C-INGHAM_E_115_R81	R81	115	182	197	239	25243	0
INGHAM_E-ESPRGFLD_115_7	7	115	79	105	131	25061	18
INGHAM_E-IMC_TAP___115_15-II	15-II	115	105	114	134	25871	35
INGHAM_E-STJHNVLE_115_6-IS	6-IS	115	86	90	107	26133	34
INGHAM_E-STONER___115_9-IS	9-IS	115	105	114	134	25863	38
JAMAICA_-LAKSUCSS_138_903	903	138	238	328	428	25090	164
JAMAICA_-VALLYSTR_138_901 L_M	901 L_M	138	272	361	441	25048	127
JENNISON-DELHI___115_949	949	115	80	110	120	26173	23
JENNISON-HANCOCK___115_954	954	115	102	113	120	26186	31
JENNISON-KATTLVLE_115_943	943	115	110	139	159	25898	60
JOHNSON_-MAPLEWOD_115_12	12	115	220	239	239	26268	71
KATONAH_-AMAWALK___115_995	995	115	215	247	275	325279	31
KATONAH_-CROTONFL_115_991	991	115	215	247	275	26157	22
KENTAVE_-GREENWD___138_31232-2	31231-2	138	174	226	247	25299	93
KENTS_FL-SCOTAFILT_115_913	913	115	120	120	120	26207	17
KINTIGH_-ROCHESTR_345_SR-1	SR-1	345	1301	1501	1685	25073	578
KNAPPCRN-SANDDOCK_115_KB_KC	KB_KC	115	198	226	260	26240	42
KNAPPCRN-SPACKILL_115_SK	SK	115	198	226	260	325777	10
LADENTWN-BOWLINE___345_68	68	345	687	747	747	25249	38
LADENTWN-BUCHAN_S_345_Y88	Y88	345	1703	1894	2404	25185	70
LADENTWN-WHAVSTRW_345_67-2	67-2	345	1720	2215	2657	25248	305
LAFAYTTE-CLRKSCRN_345_4-46	16893	345	1207	1327	1479	25049	843
LAFAYTTE-DEWITT___345_22-DL	22-DL	345	1164	1164	1164	25174	334
LAKEVIEU-CLVRBANK_115_142	142	115	88	101	108	325881	38
LAKSUCSS_138A_138B_PAR	B_PAR	138	305	379	428	25593	165
LANGDON_-NORTHSDE_115_936	936	115	176	196	225	26160	60
LAUREL L-GOUDEY___115_952	952	115	108	128	143	25012	68
LEEDS___-ATHENS___345_95	95	345	1331	1538	1724	25789	305
LEEDS___-HURLYAVE_345_301	301	345	1396	1623	1870	25055	661
LEEDS___-PLSNTVLY_345_92	92	345	1331	1538	1724	25056	966
LIGHTHSE-CLAY___115_7-CL	7-CL	115	108	108	108	25521	6
LIGHTHSE-EWATRWN_115_5	5	115	116	119	119	25504	17
LINCNPRK-EKINGSTN_115_LR	LR	115	194	214	240	26223	42
LINDEN_-GOETHALS_230_A2253	A2253	230	541	715	845	25017	336
LOCKPORT-HINMAN___115_100	100	115	220	252	280	25087	134
LOCKPORT-N.AKRON___115_108	108	115	130	136	165	25266	53
LOCKPORT-OAKFIELD_115_112	112	115	131	144	158	25300	58
LOCKPORT-SWEDEN___115_111	111	115	199	199	199	25262	62
LOCKPORT-SWEDEN___115_113	113	115	143	165	180	25263	66
LOCKPORT-TELGRAPH_115_107	107	115	220	252	280	25265	74
LOCKPORT-TELGRAPH_115_114-1	114-1	115	143	165	180	25264	70
LOCUSTGR-NEWRDGE_138_558	558	138	359	466	568	25158	217

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
LONG_MTN-PLSNTVLY_345_398	398	345	1135	1313	1596	25033	58
LONG_MTN-PLUM_TRE_345_321	321	345	1434	1649	1936	25720	208
LONGLANE-LAFARGE_115_6	6	115	116	120	145	25864	79
LOVETT__138_69__BK 147	BK 147	138	94	130	149	26331	39
LOVETT__-BOWLINOR_138_56	56	138	234	267	281	25877	33
LOVETT__-STONYPNT_138_54	54	138	236	270	285	25885	6
LOWVILLE-BOONVLL_115_5-LB	5-LB	115	105	114	134	26075	44
LUDLOW__-CARP HL_345_301	301	345	1240	1416	1489	25722	133
LUDLOW__-NORTHFLD_345_354	354	345	1434	1649	1936	25713	312
LUDDLUM_A-FALCONER_115_162-2	162-2	115	88	101	108	26031	41
LUDDLUM_B-FALCONER_115_161-3	161-3	115	88	101	108	26030	55
LUTHERFT-MALTA__115_1	1	115	197	256	287	325889	71
LUTHERFT-MALTA__115_302	2	115	197	256	287	325890	41
LUTHERFT-MULBRYNM_115_3	3	115	254	294	333	26477	7
LUTHERFT-MULBRYNM_115_308	308	115	189	228	252	325742	64
LYON_MTN-KNTFSRNC_115_911	911	115	125	140	156	26205	29
MALONE__-NICHVLVLE_115_3-NM	3-NM	115	129	163	183	25585	26
MALONE__-WILLIS__115_1-MW	1-MW	115	129	159	175	25586	37
MALTA__-TAPBLSTN_115_1	1	115	220	252	280	325891	71
MALTA__-TAPBLSTN_115_302	302	115	220	252	280	325892	14
MANCHSTR-SPACKILL_115_MC	MC	115	198	226	260	325776	13
MAPLEWOD-ARSENAL__115_15	15	115	129	176	224	25844	55
MAPLEWOD-MENANDS__115_19-MM	19-MM	115	128	147	159	25870	54
MARCY____765_345_BK 1	BK 1	765	1488	1650	1756	25455	683
MARCY____765_345_BK 2	BK 2	765	1488	1650	1971	25456	599
MARCY__-COOPERS__345_UC2-41	UC2-41	345	1345	1345	1434	25113	682
MARCY__-EDIC_PTR_345_UE1-7	UE1-7	345	1677	1953	2322	25229	465
MARCY__-N.SCTLND_345_18	18	345	1488	1650	1971	25276	839
MARSHVLE-CLINTON__115_12	12	115	125	143	154	325267	4
MASSENA__765_230_BK 1	BK 1	765	936	1151	1348	25665	5
MASSENA__765_230_BK 2	BK 2	765	936	1151	1348	25666	13
MASSENA_-MARCY____765_MSU1	MSU1	765	3975	3975	5300	25224	1282
MCADOO__-BATHILL_115_6-MBH	6-MBH	115	76	87	94	26064	3
MCINTYRE-COLTON__115_8-MC	8-MC	115	76	87	94	25514	9
MCINTYRE-MCADOO__115_6	6	115	128	147	159	26108	13
MCKNOWNV-NEWKRMKL_115_8	8	115	248	277	317	26499	109
MECO____-CHURCH_S_115_10-AM	10-AM	115	125	143	154	26120	6
MENANDS_-REYNOLDS_115_2-MR	2-MR	115	217	250	280	26135	113
MENANDS_-RIVERSDE_115_3-MR	3-MR	115	185	201	239	26134	84
MERTPARK-WICCOPEE_115_WP	WP	115	194	214	240	325772	54
MEYER____115_1__BK4S	BK4S	230	235	286	336	325766	66
MEYER____230_1__BK4P	BK4P	230	235	286	336	325765	77
MEYER__-CANANDGA_230_60	60	230	483	556	634	325604	176
MEYER__-MORAINE_115_966	966	115	125	152	191	26166	75
MIDDLEOR-SHOEMAKR_138_29	29	138	506	587	671	26468	343
MIDDLETP_345_138_BK 114	BK114	345	506	587	671	26465	344
MIDDLETP-ROCKTVRN_345_MTR-34	MTR-34	345	1704	1852	2362	26464	322
MIDDLTWN-SCOV RCK_345_384	384	345	717	1004	1219	26389	527

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
MILAN___-PLSTVYCH_115_10	10	115	124	138	158	26433	7
MILAN___-RHINEBCK_115_MR	MR	115	175	193	220	26242	1
MILLBURY-CARP HL_345_302	302	345	1313	1405	1494	25721	147
MILLERPL-HOLBROOK_138_885	885	138	434	480	586	26691	23
MILLIKEN-ETNA___115_974	974	115	185	224	255	26177	119
MILLIKEN-ETNA___115_975	975	115	185	224	255	26178	129
MILLWOOD_345_138_TA 1	TA 1	138	216	307	346	25530	64
MILLWOOD_345_138_TA 2	TA 2	138	205	297	321	25531	62
MILLWOOD-EASTVIEW_345_W82	W82	345	2296	2658	3202	25147	791
MILLWOOD-EASTVIEW_345_W85	W85	345	2296	2658	3202	25258	753
MILLWOOD-EASTVIEW_345_W99	W99	345	2296	2658	3202	25255	756
MILTON_C-GRS_LOCK_115_18-MG	18-MG	115	129	148	160	26104	15
MNCHESTR-CARD_____345_368	368	345	1240	1446	1888	25710	544
MNCHESTR-MILSTONE_345_310	310	345	1488	1912	2097	25336	367
MNCHESTR-NO.BLOOM_345_3642	3642	345	956	956	956	26399	155
MNCHESTR-SCOV RCK_345_353	353	345	1240	1604	2097	25714	291
MNTNDALE-WWDBURNY_115_957	957	115	108	120	120	325616	22
MODENA___115_69_BK1	BK1	115	33	41	53	26325	2
MODENA___OHIOVLE_115_PX	PX	115	232	253	304	25835	2
MOHICAN_-BATNKILL_115_15	15	115	105	114	134	26122	32
MOHICAN_-MULBRYNM_115_3	3	115	116	120	145	26687	2
MONSEY___-BURNS____138_601	601	138	425	451	475	325608	133
MONTRFL_-CODNIGTN_115_982	982	115	108	128	144	25728	55
MONTRFL_-RIDGE_RD_115_963-2	963-2	115	108	127	133	26196	40
MONTRFL_-RIDGE_RD_115_978-2	978-2	115	108	128	145	26197	41
MONTVILL-MILSTONE_345_371	371	345	1488	1912	2097	25334	691
MORTIMER-FAIRPORT_115_1	1	115	129	151	185	25163	56
MORTIMER-FAIRPORT_115_2	2	115	129	144	158	25240	33
MORTIMER-PITSFRDB_115_24-1	42028	115	129	148	160	25096	6
MORTIMER-PITSFRDC_115_25-1	42029	115	114	123	142	25095	31
MOSES___230_115_BK 1	BK 1	230	401	490	646	25411	44
MOSES___230_115_BK 2	BK 2	230	401	490	646	25451	43
MOSES___230_115_BK 3	BK 3	230	192	240	287	25452	17
MOSES___230_115_BK 4	BK 4	230	537	598	773	25453	44
MOSES___-ADIRNDCK_230_MA1	MA1	230	348	386	440	25269	133
MOSES___-ADIRNDCK_230_MA2	MA2	230	348	386	440	25270	133
MOSES___-ALCOA_N._115_MAL4	MAL4	115	218	253	291	25582	82
MOSES___-ALCOA_N._115_MAL6	MAL6	115	218	253	291	25581	79
MOSES___-ALCOA_S._115_MAL5	MAL5	115	238	275	310	25583	74
MOSES___-MASSENA__230_MMS1	MMS1	230	936	1151	1348	25274	5
MOSES___-MASSENA__230_MMS2	MMS2	230	936	1151	1348	25275	13
MOSES___-MED-ENGS_115_MRG1	MRG1	115	145	145	157	26328	28
MOSES___-MED-ENGS_115_MRG2	MRG2	115	145	145	157	26335	7
MOSES___-REYNLDPA_115_MR3	MR3	115	145	145	157	26332	0
MOSES___-WILLIS___230_MW1	MW1	230	349	386	440	25188	126
MOSES___-WILLIS___230_MW2	MW2	230	349	386	440	25271	125
MOSHIER_-TAYLORVL_115_7-MT	7-MT	115	49	49	49	26109	18
MOTTHAVN-RAINEY___345_Q11	Q11	345	707	833	1298	325430	42

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
MOTHAVN-RAINEY__345_Q12	Q12	345	707	833	1298	325431	38
MOUNTAIN-SWANROAD_115_103-2	103-2	115	176	211	239	26054	118
MULBRYNM-EASTOVER_115_308	308	115	186	214	237	26475	91
N._SALEM-BATNKILL_115_989	989	115	40	50	57	26448	5
N.AKRON_-BATAVIA__115_107	107	115	159	159	159	25124	23
N.AKRON_-BATAVIA__115_108	108	115	125	136	154	25125	35
N.END____115_46__BK 1	BK 1	115	61	61	69	25849	37
N.END____-ASHLEYRD_115_702	702	115	287	333	388	25846	5
N.END____-PLATSBRG_115_701	701	115	239	239	239	25848	32
N.HEMPST-WHAVSTOR_138_530	530	138	236	270	285	26506	88
N.SCTLND_345_115_BK 1	BK 1	345	458	570	731	25445	107
N.SCTLND_345_115_BK 2	BK 2	345	510	690	794	25460	101
N.SCTLND-ALBANY__115_8-NA	8-NA	115	278	321	368	25496	15
N.SCTLND-ALPS____345_2-AN	2-AN	345	1204	1326	1685	25217	182
N.SCTLND-ALTAMONT_115_20-NV	20-NV	115	116	120	145	25492	72
N.SCTLND-BETHLHEM_115_4-NB	4-NB	115	254	266	266	25497	15
N.SCTLND-FEURABSH_115_3-NF	3-NF	115	254	292	333	25495	5
N.SCTLND-LEEDS____345_93-LN	93-LN	345	1331	1538	1724	25171	740
N.SCTLND-LEEDS____345_94-LN	94-LN	345	1331	1538	1724	25203	736
N.SCTLND-OWENSCRN_115_7	7	115	116	120	145	25491	28
N.SCTLND-OWENSCRN_115_9	9	115	116	120	145	25490	3
N.SCTLND-ROTRDAM_115_13-NR	13-NR	115	241	265	333	25494	50
N.SCTLND-VORHVSLE_115_19-NV	19-NV	115	116	120	145	25493	50
N.TROY__-EASTOVER_115_306	308	115	186	214	237	326095	2
N.TROY__-EASTOVER_115_307	10	115	182	197	237	326096	2
N.TROY__-REYNOLDS_115_16-NR	16-NR	115	182	197	237	26139	59
N.TROY__-WYNTKLNM_115_14-NW	14-NW	115	129	182	237	26137	39
NANGOLA_-DELEMTER_115_141	141	115	88	101	108	325872	27
NANGOLA_-DELEMTER_115_142	142	115	88	101	108	325879	23
NANGOLA_-SILVRCKR_115_141	141	115	88	101	108	325871	16
NBRDWNM-ERIE_ST__115_922	922	115	124	139	159	26011	44
NCATSKLL_115_69__TR 4	TR 4	115	48	60	74	25839	19
NCATSKLL_115_69__TR 5	TR 5	115	44	55	73	25818	20
NCATSKLL-MILAN____115_T7	T7	115	129	182	199	26243	13
NHELSEA_115/69__BK TR1	BK TR1	115	33	41	53	25836	15
NHELSEA-FISHKPLN_115_NF	NF	115	183	248	279	26228	114
NHELSEA-FORGEBRK_115_FO	FO	115	176	211	240	26230	125
NEPTUNE_-DUFFYAVE_345_NEPTUNE	NEPTUNE	345	660	785	785	325304	660
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	377	538	617	25536	19
NEWBRDGE-EGRDNCTY_138_467	467	138	282	422	474	325378	41
NEWBRDGE-RULAND____138_561	561	138	257	297	332	25305	80
NEWBRDGE-RULAND____138_562	562	138	257	297	332	25306	80
NEWBRDGE-RULAND____138_567	567	138	279	422	473	325379	77
NEWKRMKL-ALBANY__115_7	7	115	275	303	354	325257	129
NIAGARA__230_115_BK T1	BK T1	230	192	239	288	25409	71
NIAGARA__230_115_BK T2	BK T2	230	249	359	424	25410	45

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
NIAGARA__345_230_BK 3	BK 3	345	384	479	575	25408	83
NIAGARA__345_230_BK 5	BK 5	345	384	479	575	25450	83
NIAGARA_-GARDNVLB_115_180	180	115	160	166	206	25104	118
NIAGARA_-KINTIGH__345_NS1-38	NS1-38	345	1301	1501	1685	25074	85
NIAGARA_-LOCKPORT_115_101	101	115	233	253	318	25267	125
NIAGARA_-MOUNTAIN_115_120	120	115	176	211	258	25135	118
NIAGARA_-PACKARD__115_191	191	115	248	275	328	25075	160
NIAGARA_-PACKARD__115_192	192	115	247	275	328	25099	168
NIAGARA_-PACKARD__115_193	193	115	273	301	351	25100	139
NIAGARA_-PACKARD__115_194	194	115	273	301	351	25101	139
NIAGARA_-PACKARD__115_195	195	115	273	301	352	25102	160
NIAGARA_-PACKARD__230_61	61	230	620	717	841	25186	327
NIAGARA_-PACKARD__230_62	62	230	620	717	841	25220	321
NIAGARA_-ROBSNRD_230_64	64	230	496	550	657	25088	304
NIAGARA_-ROCHESTR_345_NR2	NR2	345	1301	1501	1685	25084	446
NIAGARA_-SANDBORN_115_102-2	102-2	115	247	275	328	25103	122
NIAGBLVD-NBRDWNM_115_181-2	181-2	115	174	181	226	26057	110
NICHLVLE-PARISHVL_115_3-PN	3-PN	115	128	147	159	26110	33
NILE____-ANDOVER__115_157-2	157-2	115	105	114	134	26016	10
NINEMILE-CLAY____345_8-NC	8-NC	345	1032	1271	1416	25167	688
NINEMILE-FTZPK_NM_115_4-NF	4-NF	115	119	119	159	25500	25
NINEMILE-SCRIBA__345_9-NS	9-NS	345	1032	1284	1562	25359	59
NOGDNBRG-MCINTYRE_115_9-NOM	9-NOM	115	159	159	159	26080	21
NORFOLK_-SANDSTON_115_4-NS	4-NS	115	220	252	280	26111	21
NORTHFLD-VRNON VT_345_381	381	345	1195	1195	1323	25707	199
NRTH1385-NOR HBR__138_601	601	138	147	182	409	325597	33
NRTH1385-NOR HBR__138_602	602	138	147	182	409	325598	33
NRTH1385-NOR HBR__138_603	603	138	147	182	409	325599	33
NRTH1385-NRTHPORT_138_1385	1385	138	428	513	513	25035	100
NRTHPORT_138_138_PS2	138_PS2	138	406	505	570	25599	183
NRTHPORT-ELWOOD__138_678	678	138	352	504	604	25543	161
NRTHPORT-ELWOOD__138_681	681	138	352	504	604	25544	170
NRTHPORT-PILGRIM__138_672	672	138	204	267	353	25307	151
NRTHPORT-PILGRIM__138_677	677	138	409	527	604	25308	323
NRTHPORT-PILGRIM__138_679	679	138	409	527	604	25309	323
OAKDALE__230_115_BK 1	BK 1	230	275	400	440	25400	17
OAKDALE__345_115_BK 2	BK 2	345	491	587	600	25401	239
OAKDALE__345_115_BK 3	BK 3	345	420	499	600	25399	216
OAKDALE_-DELHI____115_919	919	115	161	177	179	25897	22
OAKDALE_-ENDICOTT_115_938	938	115	161	177	225	26198	118
OAKDALE_-FRASER____345_32	32	345	1255	1518	1793	25235	295
OAKDALE_-GOUDEY____115_939	939	115	238	274	306	26182	138
OAKDALE_-KATTLVLE_115_943	943	115	139	163	192	26201	75
OAKDALE_-NORTHSDE_115_944	944	115	185	224	239	26199	70
OAKFIELD-BATAVIA__115_112-2	112-2	115	128	136	158	25126	43
OAKWOOD_-ELWOOD_E_138_674	674	138	394	466	568	25545	82
OAKWOOD_-SYOSSET__138_675	675	138	269	358	541	25547	16
OHIOVLE_115_69__BK TR1	BK TR1	115	33	41	53	25819	2

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
OHIOVLE-HIGHLAND_115_OR	OR	115	129	183	239	26247	28
ONEIDA_-WALESVIL_115_7	7	115	116	120	145	26115	29
ONEIDA_-YAHNUNDA_115_6	6	115	105	114	134	26113	23
OSWEGO___345_115_BK 7	BK 7	345	489	552	690	25372	285
OSWEGO_-ELBRIDGE_345_17-EO	17-EO	345	1207	1326	1426	25234	775
OSWEGO_-S.OSWEGO_115_3-OS	3-OS	115	209	239	239	25507	121
OSWEGO_-S.OSWEGO_115_5-OS	5-OS	115	209	239	239	25508	121
OSWEGO_-S.OSWEGO_115_8-OS	8-OS	115	400	462	478	25509	43
OSWEGO_-VOLNEY___345_11-OV	11-OV	345	1200	1326	1685	25199	84
OSWEGO_-VOLNEY___345_12-OV	12-OV	345	1200	1326	1685	25201	84
OWENSCRN-PLASTICS_115_7	7	115	116	120	145	325736	29
OWENSCRN-SABICO___115_9	9	115	116	120	145	325737	17
PACKARD__230_115_BK 3	BK 3	230	189	250	250	25414	18
PACKARD__230_115_BK 4	BK 4	230	190	250	250	25415	65
PACKARD_-GRND_ISL_115_182-1	182-1	115	200	208	265	26056	130
PACKARD_-NIAGBLVD_115_181-1	181-1	115	160	166	206	26055	124
PACKARD_-SAWYER___230_77	77	230	556	644	704	25164	310
PACKARD_-SAWYER___230_78	78	230	556	644	746	25195	312
PACKARD_-WALCK_RD_115_129	129	115	239	283	283	25906	157
PACKARD_-ZIMMERM1_115_130-2	130-2	115	168	185	206	26059	160
PANNELL__345_115_BK 1	BK 1	345	228	282	336	25396	134
PANNELL__345_115_BK 2	BK 2	345	228	282	336	25431	134
PANNELL__345_115_BK 3	BK 3	345	255	319	336	25572	116
PANNELL_-CLAY_____345_PC1	PC1	345	1195	1195	1195	25058	114
PANNELL_-CLAY_____345_PC2	PC2	345	1195	1195	1195	25050	114
PANNELRG-FARMGTN__115_4-FP	4-FP	115	207	247	280	25080	149
PANNELRG-PITSFRDB_115_24	24	115	114	123	142	26285	70
PANNELRG-PITSFRDC_115_25	25	115	129	147	159	26284	51
PARISHVL-COLTON___115_3-CP	3-CP	115	128	147	159	25241	30
PATROON_-MCKNOWNV_115_6	6	115	258	321	368	25866	75
PATROON_-PATRTAP__115_15	15	115	160	176	224	25867	15
PATRTAP_-MENANDS__115_15	15	115	116	120	145	26493	15
PAVMNTRD-STOLLERD_115_926	926	115	249	287	327	325220	31
PAWLING_-CROTONFL_115_994	994	115	176	179	179	25902	43
PEAT ST_-HDSNBRDG_115_10	10	115	207	233	233	26648	61
PEAT ST_-HDSNBRDG_115_7	7	115	278	318	318	26649	15
PETERBOR_ONEIDA___115_5	5	115	116	120	145	25896	23
PILGRIM_-HAUPPAUG_138_871	871	138	305	367	420	25550	140
PILGRIM_-WEST BUS_138_881	881	138	487	543	623	25537	89
PITSFRDB-QUAKERRD_115_23-1	42027	115	180	180	180	26288	51
PITSFRDB-STA_82___115_23-2	42058	115	145	151	185	26287	7
PLATSBRG-KENTS_FL_115_PS1	PS1	115	96	123	150	25078	6
PLATTSBURGH PMLD #2	PS-1/A	115	157	179	197	69888	6
PLSNTVLE-DUNWODIE_345_W89	W89	345	1720	1977	2265	25182	696
PLSNTVLE-DUNWODIE_345_W90	W90	345	1720	1977	2265	25250	739
PLSNTVLY-EFISHKIL_345_F36	F36	345	1720	2215	2657	25256	244
PLSNTVLY-EFISHKIL_345_F37	F37	345	1720	2215	2657	25257	244
PLSNTVLY-WOOD_ST__345_F30	F30	345	1720	2214	2657	25237	736

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
PLSNTVLY-WOOD_ST_345_F31	F31	345	1720	2214	2657	25238	701
PLSTVYCH_115_69_TR 10	TR 10	115	107	120	143	25840	70
PLSTVYCH_345_115_BK S1	BK S1	345	396	450	450	25382	48
PLSTVYCH-INWOOD_115_X-1	X-1	115	175	193	220	26209	40
PLSTVYCH-MANCHSTR_115_M	M	115	183	226	260	26208	36
PLSTVYCH-TODDHILL_115_C	C	115	143	164	178	325156	40
PORTER_-DERFIELD_115_8_26_25_23	8262523	115	116	120	127	26116	11
PORTJEFF_138_69_BK 7	BK 7	138	112	138	156	25601	71
PORTJEFF_138_69_BK 8	BK 8	138	114	141	156	25600	58
PORTJEFF-HOLBROOK_138_886	886	138	295	357	434	25540	73
PORTJEFF-SUPERCON_138_862	862	138	295	357	434	25539	75
PYRITES_-COLTON_115_7-PC	7-PC	115	76	87	94	26086	23
QUAKERRD-MACEDON_115_930	930	115	60	75	112	25093	46
QUAKERRD-PANNELL_115_925	925	115	275	305	355	25682	116
QUAKERRD-PANNELRG_115_914	914	115	207	247	285	25261	28
QUAKERRD-SLEIGHT_115_980(13)	980(13)	115	150	169	188	25079	78
QUAKERRD-STA_204_115_908	908	115	227	251	285	26286	39
QUENBRDG-VERNON_138_31281	31281	138	363	455	602	25159	213
QUENBRDG-VERNON_138_31282	31282	138	363	455	602	25160	156
QUENSBRV-CEDAR_115_10	10	115	128	147	159	26140	59
QUENSBRV-SHERMAN_115_17-QS	17-QS	115	116	120	145	26142	66
RAINEY_-FARRAGUT_345_61	61	345	651	811	1287	25152	213
RAINEY_-FARRAGUT_345_62	62	345	691	818	1281	25253	197
RAINEY_-FARRAGUT_345_63	63	345	651	811	1287	25254	213
RAINEY_-VERNON_138_36311	36311	138	233	280	317	25296	168
RAINEY_-VERNON_138_36312	36312	138	245	303	342	25297	116
RAMAPO_345_138_BK 1300	1300	345	451	546	619	25441	233
RAMAPO_345_138_BK 2300	2300	345	451	546	619	25442	237
RAMAPO_345_345_PAR3500	PAR3500	345	554	745	1001	25370	190
RAMAPO_345_345_PAR4500	PAR4500	345	575	803	1081	25371	190
RAMAPO_500_345_BK 1500	BK 1500	345	995	1304	1750	25656	380
RAMAPO_-BUCHAN_N_345_Y94	Y94	345	1703	1894	2404	25184	124
RAMAPO_-LADENTWN_345_W72	W72	345	1722	1894	2404	25233	196
RAMAPOOR-TALLMAN_138_60	60	138	425	451	475	25880	236
REYNOLDS_345_115_BK 2	BK 2	345	459	562	755	25403	280
REYNOLDS-ALPS_345_1-AR	1-AR	345	1670	1912	1912	25587	267
REYNOLDS-GREENBSH_115_9-RG	9-RG	115	329	398	398	26129	101
REYNOLDS-RVSD_TAP_115_4	4	115	220	239	239	325648	35
RICHFELD-ESPRGFLD_115_942	942	115	102	113	120	26176	14
RIDGE_RD-HILLSIDE_115_963	963	115	108	127	133	26190	10
RIDGE_RD-HILLSIDE_115_978-1	978-1	115	108	128	145	26191	10
RIVERSDE-RVSD_TAP_115_4	4	115	220	239	239	26144	35
RIVERSDE-TRINITY_115_18	18	115	147	178	243	26491	68
RIVERSDE-TRINITY_115_19	19	115	198	242	278	26492	79
ROBSNDRD-STOLLERD_230_65	65	230	550	637	717	25065	235
ROCHESTR_345_115_BK 1	BK 1	345	494	603	630	25412	164
ROCHESTR_345_115_BK 2	BK 2	345	330	415	478	25432	199
ROCHESTR_345_115_BK 3	BK 3	345	494	603	630	25446	164

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
ROCHESTR_345_115_BK 5	BK 5	345	462	567	630	325381	325
ROCHESTR-PANNELL__345_RP1	RP1	345	1301	1501	1685	25192	79
ROCHESTR-PANNELL__345_RP2	RP2	345	1301	1501	1685	25172	79
ROCKHILL-MNTNDALE_115_957	957	115	108	120	120	325615	29
ROCKTVRN_345_115_BK TR1	BK TR1	345	396	445	445	25406	71
ROCKTVRN_345_115_BK TR3	BK TR3	345	396	459	519	26168	71
ROCKTVRN-RAMAPO__345_77	77	345	1720	1890	2037	25183	956
ROCKTVRN-SUGRLOAF_115_SL	SL	115	177	204	218	25420	0
ROME____-ONEIDA__115_1-RO	1-RO	115	129	157	192	26112	45
RONKOKMA-HOLBROOK_138_875	875	138	487	543	623	25541	113
ROSA_RD_-GE_R_D__115_14	14	115	200	217	260	26145	44
ROSETON_-EFISHKIL_345_305	305	345	1936	2677	3133	25108	1231
ROSETON_-ROCKTVRN_345_311	311	345	1396	1623	1870	25069	213
ROTTRDAM_230_115_BK 6	BK 6	230	344	375	523	25407	155
ROTTRDAM_230_115_BK 7	BK 7	230	300	355	402	25392	150
ROTTRDAM_230_115_BK 8	BK 8	230	326	369	423	25413	120
ROTTRDAM-BURDECK__115_17-RB	17-RB	115	116	120	145	25129	24
ROTTRDAM-BURDECK__115_19-RB	19-RB	115	105	114	134	26146	49
ROTTRDAM-CURRY_RD_115_11	11	115	116	120	145	25869	45
ROTTRDAM-EASTOVER_230_38	38	230	443	512	574	326094	92
ROTTRDAM-FRONT_ST_115_16	16	115	220	252	280	26147	111
ROTTRDAM-SWAGRTWN_115_1	1	115	418	478	478	26429	112
ROTTRDAM-SWAGRTWN_115_2	2	115	232	241	291	26430	107
ROTTRDAM-WOODLAWN_115_35	35	115	116	120	145	25865	34
RULAND__-HOLBROOK_138_882	882	138	487	543	623	25538	11
RULAND__-PILGRIM__138_661	661	138	555	555	555	25310	107
RULAND__-PILGRIM__138_662	662	138	487	543	555	25311	107
RYAN____-PLATSBRG_230_RYP-2	RYP-2	230	249	277	318	25273	109
RYNDS_HL-HIGHLAND_115_HR	HR	115	183	230	260	325825	8
RYNDS_HL-INWOOD__115_IR	IR	115	175	193	220	26248	24
S HERO__-PLATSBRG_115_PV20	PV20	115	210	245	258	25027	111
S.MAHWAH-RAMAPOOR_138_51	51	138	236	270	285	25888	117
S.OSWEGO-CURTIS__115_10	10	115	187	199	199	25511	75
S.OSWEGO-HAMRHILL_115_6-IH	6-IH	115	114	120	142	25513	48
S.OSWEGO-NINEMILE_115_1-SN	1-SN	115	116	120	145	25501	28
S.OWEGO_-GOUDEY__115_961	961	115	112	131	143	25725	31
S.OWEGO_-NWAVERLY_115_962-2	962-2	115	111	131	143	25727	21
S.PERRY_-MEYER__115_934	934	115	82	96	104	26194	54
S.RIPLEY-DUNKIRK__230_68	68	230	475	475	475	25045	161
S42____-S124____115_932	932	115	163	234	354	325827	134
SABICO__-LONGLANE_115_7	7	115	199	199	199	26501	15
SALAMANC_HOMER_HL_115_153	153	115	128	147	159	325763	22
SALAMANC_HOMER_HL_115_154	154	115	128	147	159	325764	27
SANDBORN-LOCKPORT_115_102-1	102-1	115	233	253	318	26052	122
SANDDOCK-NCHELSEA_115_SC	KC	115	183	248	279	26249	73
SANDSTON-COLTON__115_4-SC	4-SC	115	182	197	248	26084	15
SANDSTON-COLTON__115_5-SC	5-SC	115	182	197	248	26085	18
SANDY PD-TEWKSBRY_345_337	337	345	1802	1908	2045	26366	478

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
SANDY PD-WACHUSST_345_314	314	345	1731	2108	2400	26352	370
SANDY PD-WACHUSST_345_343	343	345	1435	1609	1741	25716	382
SAWYER__-HUNTLEY__230_77	77	230	566	654	755	325043	252
SAWYER__-HUNTLEY__230_78	78	230	566	654	755	325044	253
SAWYER__-SUNY_77__230_79	79	230	566	654	710	325045	382
SAWYER__-SUNY_BUF_230_80	80	230	566	654	755	325046	379
SCHODACK-GREENBSH_115_13	13	115	129	166	199	325804	93
SCOBIE__-AMHERST__345_380	380	345	1431	1431	1431	25708	342
SCOBIE__-SEABROOK_345_363	363	345	1494	1494	1494	26378	382
SCOTAFLT-MASONCR__115_909	909	115	155	179	193	325702	2
SCRIBA__-FITZPTRK_345_FS-10	FS-10	345	1434	1434	1912	25076	73
SCRIBA__-VOLNEY__345_20-SV	20-SV	345	1200	1396	1686	25204	560
SCRIBA__-VOLNEY__345_21-SV	21-SV	345	1670	1912	1912	25314	774
SENECA_A-GARDNVLB_230_71	71	230	306	354	370	25856	17
SENECA_B-GARDNVLB_230_72	72	230	306	354	370	25857	17
SHALETON-CLVRBANK_115_141	141	115	88	101	108	325875	37
SHALETON-LAKEVIEU_115_141	141	115	88	101	108	325874	35
SHENDOAH-EFISHKIL_115_EF	EF	115	198	230	260	26251	24
SHERMAN_-SPIERFLS_115_17-SS	17-SS	115	116	120	145	26148	37
SHERMCRK-ACADEMY__138_331	331	138	313	406	524	325755	154
SHERMCRK-ACADEMY__138_332	332	138	313	406	524	325754	154
SHERMCRK-E179THST_138_15031	15031	138	162	220	360	25156	100
SHERMCRK-E179THST_138_15032	15032	138	162	220	360	25157	99
SHOEMAKR_138_69_BK 711	BK 711	138	212	281	319	26694	87
SHOR_NPX-SHOREHAM_138_NPX_CSC	NPX_CSC	138	489	552	664	325153	330
SHORE_RD_345_138_BK 1	BK 1	345	457	569	641	25439	298
SHORE_RD_345_138_BK 2	BK 2	345	457	569	641	25440	297
SHORE_RD-GLENWD__138_365	365	138	487	543	623	25205	81
SHORE_RD-GLENWD__138_366	366	138	489	552	664	25154	92
SHORE_RD-LAKSUCSS_138_367	367	138	236	409	581	25145	209
SHORE_RD-LAKSUCSS_138_368	368	138	236	409	581	25150	209
SHOREHAM-MILLERPL_138_879	879	138	434	480	586	25117	23
SHOREHAM-WILDWOOD_138_863	863	138	434	480	586	25115	148
SHOREHAM-WILDWOOD_138_867	867	138	434	480	586	25114	146
SLEIGHT_-CLYDE____115_971(3)	971(3)	115	145	151	179	26686	23
SMAHWAH__345_138_BK 258	258	345	441	516	559	25393	176
SMAHWAH_-RAMAPO__345_69	69	345	1226	1737	2268	25021	617
SMAHWAH_-RAMAPO__345_70	70	345	1720	1890	2398	25259	562
SPIERFLS-BUTLER__115_4-SFB	4-SFB	115	105	114	134	26136	40
SPIERFLS-MOHICAN__115_7	7	115	116	120	145	26435	34
SPIERFLS-QUENSBRY_115_5-SFQ	5-SFQ	115	105	114	134	26141	65
SPIERFLS-TAPBROOK_115_2	2	115	232	241	291	25874	47
SPIERFLS-TAPBROOK_115_302	302	115	182	197	248	25873	41
SPRNBRK__345_138_BK N7	BK N7	345	284	397	417	25628	217
SPRNBRK__345_138_BK S6	BK S6	345	284	397	417	25625	200
SPRNBRK_-ACADEMY__345_M29	M29	345	474	719	1351	325756	310
SPRNBRK_-DUNWODIE_138_99941	99941	138	294	416	464	25245	199
SPRNBRK_-DUNWODIE_138_99942	99942	138	330	402	464	25246	216

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
SPRNBK_-DUNWODIE_345_W75	W75	345	2331	2658	3202	25071	141
SPRNBK_-EGRDNCTR_345_Y49	Y49	345	637	900	1329	25105	634
SPRNBK_-TREMONT_345_X28	X28	345	465	675	1182	25175	392
SPRNBK_-W49TH_ST_345_M51	M51	345	760	927	1527	25053	216
SPRNBK_-W49TH_ST_345_M52	M52	345	760	927	1527	25223	216
ST_60_36-LOCKPORT_115_36-2	36-2	115	145	151	178	26049	41
ST_60_37-LOCKPORT_115_37-2	37-2	115	145	151	171	26048	42
STA_128_-STA_82___115_906	906	115	129	147	159	26303	28
STA_129_-GARDNVLB_115_39-2	39-2	115	129	151	185	26036	31
STA_135_-STA_230___115_929	929	115	226	249	269	325839	49
STA_154_-GARDNVLB_115_38-2	38-2	115	129	171	206	26039	35
STA_158_-STA_128___115_924	924	115	129	147	159	26654	25
STA_162_-S.PERRY___115_906- 7X	906-7X	115	111	131	143	25062	36
STA_162_-STA_158___115_924	924	115	129	147	159	26653	0
STA_204___115_34___BK 1	BK 1	115	56	67	112	70539	33
STA_204___115_34___BK 2	BK 2	115	56	67	112	70540	40
STA_204_-S124_____115_911	911	115	251	301	392	26307	133
STA_23___-S42_____115_920	920	115	74	94	133	70027	70
STA_23___-STA_33___115_901	901	115	74	94	133	70028	68
STA_230_-QUAKERRD_115_929	929	115	226	249	269	325840	37
STA_33___115_34___BK10	BK 1_2	115	75	90	132	70541	61
STA_37___115_34___BK 8	BK 8	115	50	59	100	70542	44
STA_37___-STA_48___115_926	926	115	275	305	355	26314	101
STA_37___-STA_67___115_926	926	115	250	280	300	26313	145
STA_48___115_34___BK 6	BK 6	115	57	66	69	70544	34
STA_48___115_34___BK 9	BK 9	115	59	66	112	70543	32
STA_67___-ROCHESRG_115_922	922	115	311	364	376	26321	198
STA_67___-STA_82___115_903	903	115	311	364	384	26322	131
STA_82___-MORTIMER_115_7X8272	7X8272	115	258	358	410	25098	106
STA_82___-ROCHESRG_115_904	904	115	506	584	618	25081	309
STA_82___-ROCHESRG_115_905	905	115	506	584	618	26305	280
STA_82___-STA_251___115_902	902	115	175	211	239	70058	68
STATE_ST-WRGHTAVE_115_976	976	115	185	221	239	26200	24
STERLING-RULAND___138_663	663	138	195	263	302	26498	145
STJHNVLE-MARSHVLE_115_11	11	115	159	159	159	26127	32
STLAWRNC_230A_230C_PS 33	PS 33	230	240	259	334	25118	0
STLAWRNC_230B_230D_PS 34	PS 34	230	300	336	466	25119	0
STOLLERD_345_115_BK 3	BK 3	345	288	333	420	25461	67
STOLLERD_345_115_BK 4	BK 4	345	296	390	420	25462	67
STOLLERD-HISHELDN_230_67	67	230	417	479	533	25064	238
STONCREK-WETHSRFD_230_83	83	230	417	479	533	325973	246
STONER___-ROTRDAM_115_12-SR	12-SR	115	84	84	84	25680	8
STONYRDG_230_115_BK1	BK1	230	247	336	336	325811	98
STONYRDG-HILLSIDE_230_72	72	230	498	574	653	325810	89
SUGRLOAF_138_69___BK 7108	BK 7108	138	192	226	253	25891	59
SUGRLOAF-RAMAPOOR_138_26	26	138	264	300	316	25326	14
SULLVNPK-STONYRDG_115_712	712	115	235	272	313	325809	97
SUNY_77_-GARDNVLB_230_79-1	79-1	230	566	654	699	25165	368

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
SUNY_BUF-GARDNVLB_230_80	80-1	230	566	654	722	25196	365
SWAGTN_E-BALLSTNE_115_1	1	115	223	223	223	26125	92
SWAGTN_W-BALLSTNW_115_2	2	115	271	313	359	26124	110
SWANROAD-LOCKPORT_115_103-1	103-1	115	168	181	199	26051	18
SWANROAD-LOCKPORT_115_104-2	104-2	115	168	181	199	26050	0
SWEDEN__-MORTIMER_115_111	111	115	129	149	153	25347	27
SWEDEN__-MORTIMER_115_113	113	115	129	149	153	25348	14
SYLVANLK-PAWLING__115_990	990	115	203	227	239	26156	108
SYOSSET__138_69__BK 5	BK 5	138	227	263	302	26565	125
SYOSSET_-LOCUSTGR_138_559	559	138	434	480	586	25904	135
TALLMAN_-MONSEY___138_602	602	138	425	451	475	325609	179
TAPBLSTN-TAPBROOK_115_302	302	115	220	252	280	325898	9
TAYLORVL-BULYMO___115_6	6	115	105	114	124	26070	55
TAYLORVL-LOWVILLE_115_5-TL	5-TL	115	102	114	134	26107	61
TEALLAVE-ASH_____115_7-TA	7-TA	115	120	148	148	26063	40
TEALLAVE-ASH_____115_8-AT	8-AT	115	120	148	148	26117	40
TEALLAVE-BM_CC_GM__115_6	6	115	187	213	236	26154	97
TEALLAVE-CURTIS___115_13	13	115	187	199	199	326066	11
TEALLAVE-ONEIDA___115_2-OT	2-OT	115	116	120	145	25895	48
TEALLAVE-PETERBOR_115_5	5	115	116	120	145	325164	59
TELGRAPH_115_34__114__BK 2	BK 2	115	52	63	63	26509	18
TELGRAPH_115_34__115__BK 1	BK 1	115	52	63	63	26013	20
TELGRAPH-MORTIMER_115_114	114	115	129	149	153	25349	38
TELGRAPH-N.AKRON__115_107	107	115	179	179	179	26508	54
TEMPLE__-PEAT ST__115_10-TP	10-TP	115	119	152	179	26715	61
TICONDRG-REPUBLIC_115_914(2)	914(2)	115	64	64	64	26470	6
TILDEN__-DEWITT___115_19-TD	19-TD	115	182	197	236	26092	38
TODDHILL-FISHKPLN_115_A	A	115	143	164	178	325157	16
TREMONT__138A_138B_BK 11	BK 11	138	243	279	312	25649	195
TREMONT__138C_138D_BK 12	BK 12	138	243	279	312	25650	196
TREMONT__345_138_BK 11	BK 11	345	245	299	339	25473	196
TREMONT__345_138_BK 12	BK 12	138	246	299	339	25474	196
TULLERHL-CLRKSCRN_115_1-716	1-716	115	128	147	159	26192	2
VALKIN__-FT._ORAN_115_15	15	115	186	214	237	325685	99
VALLEY__-FAIRFIEL_115_12	12	115	116	120	145	325743	52
VALLYSTR_138A_138B_PAR	B_PAR	138	305	379	428	25607	127
VALLYSTR-BARRETT__138_291	291	138	214	301	418	25312	149
VALLYSTR-BARRETT__138_292	292	138	214	301	418	25313	169
VALLYSTR-EGRDNCTY_138_262	262	138	200	276	479	25244	133
VERNON__-GREENWD__138_31231	31231	138	174	226	247	25337	103
VERNON__-KENTAVE__138_31232-1	31232-1	138	174	226	247	26123	48
VINGR_TP-VINEGAR__115_917 TAP	917 TAP	115	125	152	193	26455	3
VOLNEY__-CLAY_____345_6-CV	6-CV	345	1109	1344	1686	25198	757
VOLNEY__-MARCY_____345_19	19	345	1434	1650	1971	25345	738
VRNON VT-FITZWILL_345_379	379	345	896	896	896	26388	98
VT YANK_-VRNON VT_345_3340	3340	345	1224	1230	1434	25717	31
W.NYACK__138_69__BK 221	BK 221	138	212	281	319	26334	96
W.NYACK__-SNKEHLRD_138_562	563	138	212	267	281	325906	96

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
W_ERIAVE-SULLVNP_115_711	711	115	245	272	313	325808	76
W49TH_ST-E13THSTA_345_M54	M54	345	753	986	1566	25228	98
W49TH_ST-E13THSTA_345_M55	M55	345	753	986	1566	25222	237
WADNGRIV-NSHORBCH_138_878	878	138	434	480	586	325642	13
WADNGRIV-SHOREHAM_138_891	891	138	434	480	586	25342	13
WALDEN__-DEPEW_TP_115_54-2	54-2	115	119	119	119	26024	45
WALDEN__-WALDN_A2_115_BK 1	BK 1	115	38	39	42	25429	15
WALDWICK_345_230_BK1	BK1	345	549	713	806	25479	337
WALDWICK_345_230_BK2	BK2	345	557	716	794	25480	337
WALDWICK_345_230_BK3	BK3	345	609	794	901	25481	326
WALDWICK-SMAHWAH_345_J3410	J3410	345	672	1043	1920	25032	441
WALDWICK-SMAHWAH_345_K3411	K3411	345	675	1041	1920	25039	561
WARREN__-FALCONER_115_171	171	115	116	116	119	25015	5
WATKINRD-INGHAM_C_115_2-WI	2-WI	115	116	120	145	25805	61
WATRCURE_345_230_BK 1	BK 1	345	426	520	600	25402	253
WATRCURE-OAKDALE__230_71	71	230	275	400	440	25179	17
WATRCURE-OAKDALE__345_31	31	345	963	1074	1076	25178	20
WEST BUS-SILLSRD__138_873	873	138	487	543	623	325618	1
WETHSRFD-MEYER____230_85	85	230	417	479	533	325623	254
WHAVSTOR-LOVETT__138_53	53	138	236	270	285	25884	12
WHAVSTOR-STONYPNT_138_542	542	138	236	270	285	326049	22
WHAVSTRW_345_138_BK 194	BK 194	345	451	546	619	25447	272
WHITEHAL-COMSTKNM_115_13	13	115	116	120	145	25903	27
WHITEHAL-TICONDRG_115_3	3	115	116	120	145	26471	38
WICCOPEE-SHENDOAH_115_FS	FS	115	194	214	240	325773	54
WILDWOOD_138_69__BK 4	BK 4	138	227	282	318	26550	96
WILDWOOD-RIVRHEAD_138_890	890	138	291	321	372	25905	146
WILLET__-ENORWICH_115_945-1	945-1	115	108	128	145	25732	71
WILLIS__230_115_BK 1	BK 1	230	150	184	216	25388	39
WILLIS__230_115_BK 2	BK 2	230	150	184	216	25390	39
WILLIS__-CHAT_TAP_115_911	911	115	138	154	170	26204	41
WILLIS__-PATNODE__230_WPN-1	WPN-1	230	397	459	503	325565	85
WILLIS__-RYAN____230_WRY-2	WRY-2	230	397	459	503	325566	85
WILLWBRK-FRESHKLS_138_29211-2	29211-2	138	182	262	439	25319	164
WILLWBRK-FRESHKLS_138_29212-2	29212-2	138	182	262	439	25320	178
WOLF_RD_-MENANDS__115_10	10	115	116	120	145	26255	65
WOOD_ST__345_115_BK 1	BK 1	345	302	354	420	25437	131
WOOD_ST__345_115_BK 2	BK 2	345	311	368	420	25438	107
WOOD_ST_-MILLWOOD_345_W80	W80	345	1720	2215	2657	25148	626
WOOD_ST_-PLSNTVLE_345_Y87	Y87	345	1775	1977	2265	25132	736
WOODARD_-ELBRIDGE_115_4	4	115	156	179	195	325316	34
WOODLAWN-STATE_CA_115_12	12	115	116	120	145	26490	10
WOODSTNY-AMAWALK__115_996	996	115	215	247	275	25574	74
WRGHTAVE-MILLIKEN_115_973	973	115	185	221	249	26195	25
WWDBURNY_115_69__BK 1	BK 1	115	48	50	50	25404	10
WYNTKLN-REYNOLDS_115_13-WR	13-WR	115	186	214	237	26143	78
YAHNUNDA-EDIC_PTR_115_3	3	115	116	120	145	26515	65
ZIMMERM1-HUNTLEY__115_130-1	130-1	115	168	181	206	26043	113

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
ZIMMERM2-HUNTLEY__115_133-2	133-2	115	168	181	206	26042	125

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-N. Akron	108	115
*Lockport-Oakfield	112	115
*Lockport-Sweden 1	111	115
*Lockport-Sweden 3	113	115
*Lockport-Telegraph	107	115
*Lockport-Telegraph	114	115
<i>West (Zone A) – Central (Zone C)</i>		
*Stolle Road-High Sheldon	67	230
*Andover-Palmiter	932	115

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-Norfolk	4	115
*Dennison-Sandstone	5	115
*Alcoa-N. Ogdensburg	13	115
Parishville-Colton*	3	115

* indicates the metered end of the circuit

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-Wood St.	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*	7	115
Inghams PAR	PAR	115
Inghams Bus Tie	R81	115
<i>North (Zone D) – ISONE (Zone N)</i>		
*Plattsburgh-Sand Bar	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*	7	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
Middletown 138/345*	BK114	138/345
West Woodbourne 115/69*	BK1	115/69
<i>North (Zone D) – ISONE (Zone N)</i>		
*Plattsburgh-Sand Bar	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-Sand Bar	PV20	115
<i>Capital (Zone F) – ISONNE (Zone N)</i>		
*Alps-Berkshire	393	345
Eastover-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-Mainesburg	47	345
Mainesburg 345*/115	BK1	345/115
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

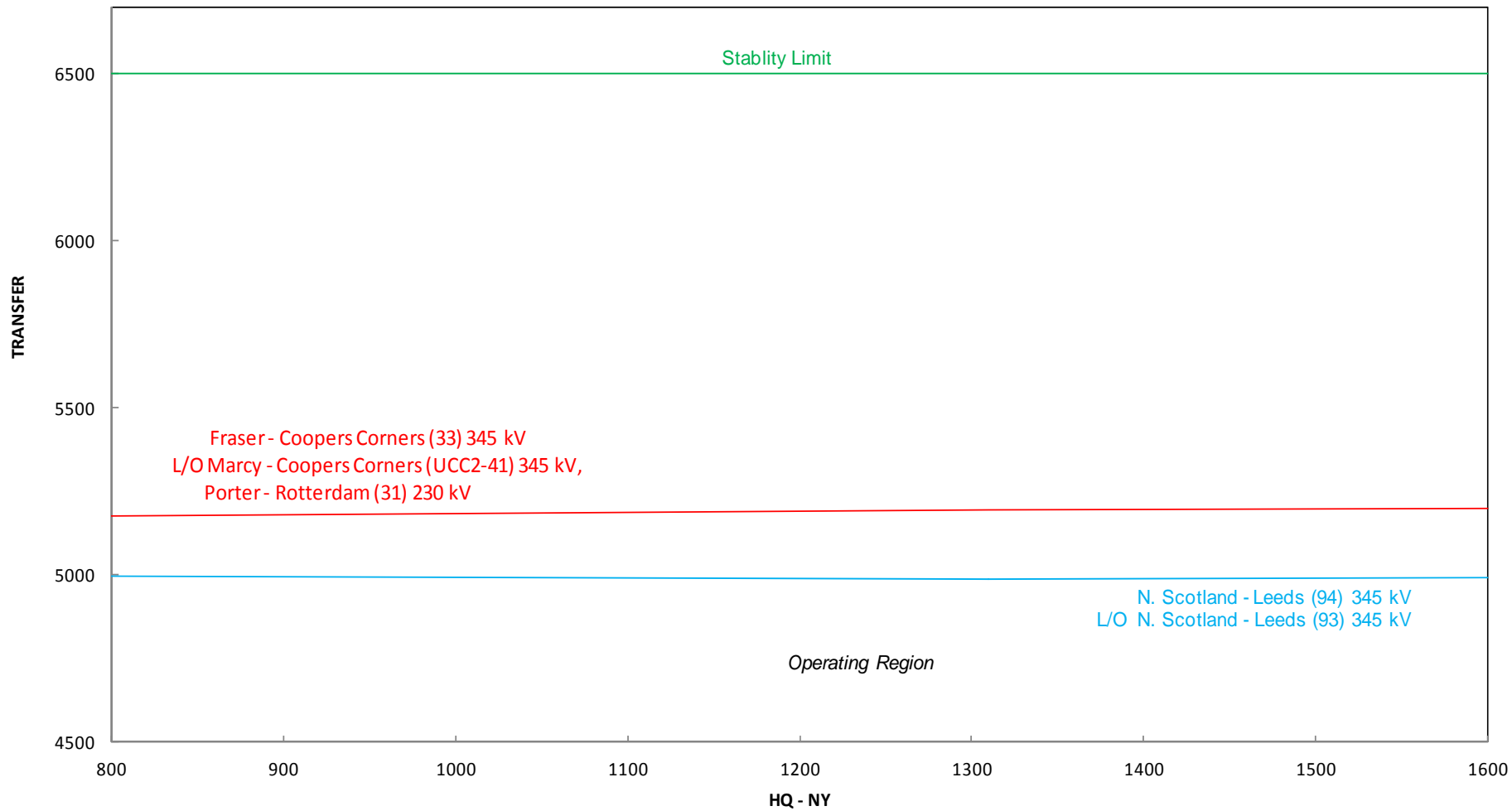
This Section Is Available Electronically If Requested

G. TRANSFER LIMIT SENSITIVITY GRAPHS

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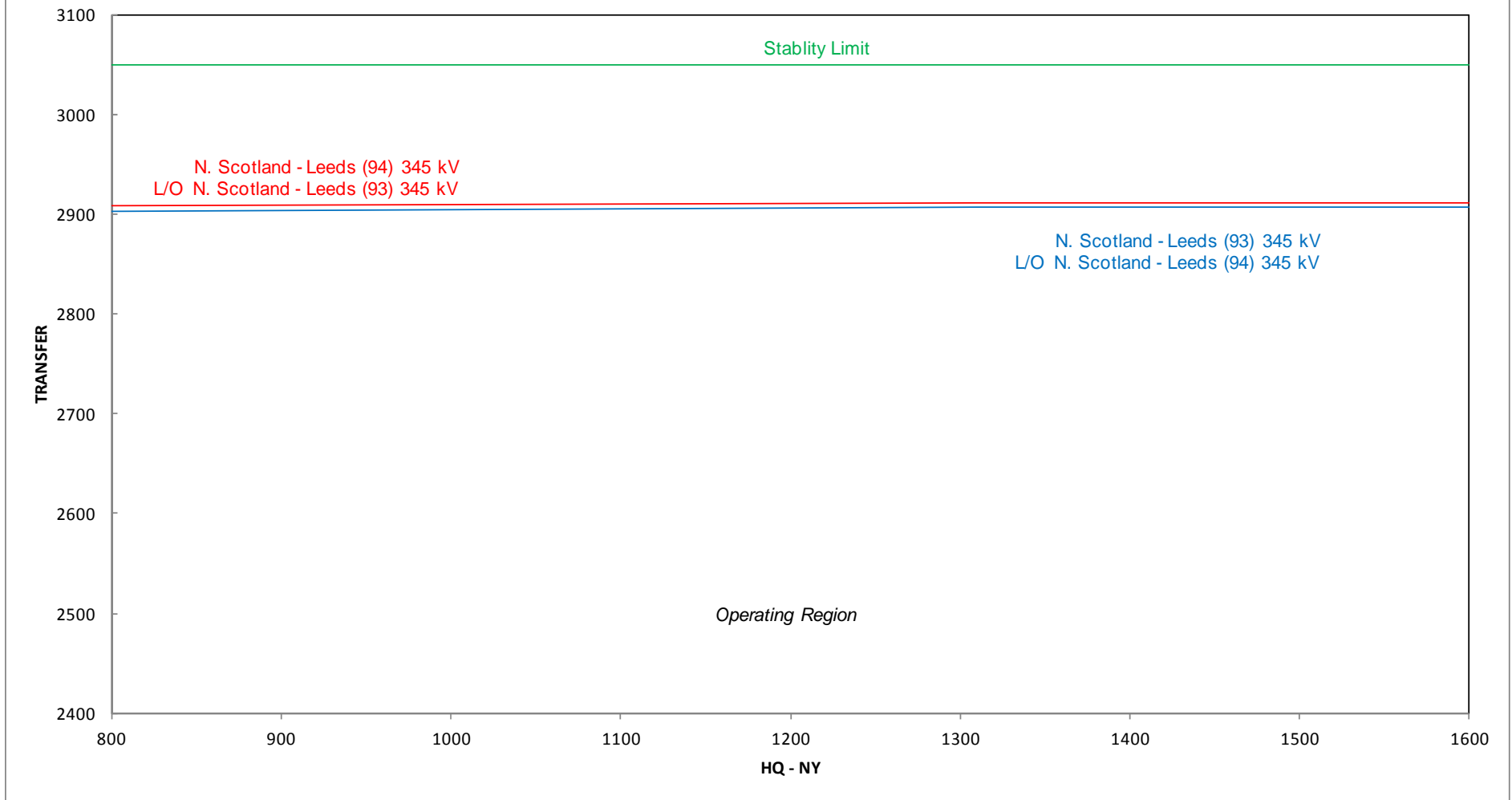
1. Total East vs. HQ-NY	G-1
2. Central East vs. HQ-NY	G-2
3. Moses South vs. HQ Export to New York	G-3
4. NE-NY vs. Norwalk-Northport PAR flow for Normal Transfer	G-4
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6. NYISO-IESO (ONTARIO) Transfer vs. L33P & L34P	G-6
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Total East vs. HQ Export to New York
For Normal Transfer Criteria
Summer 2015



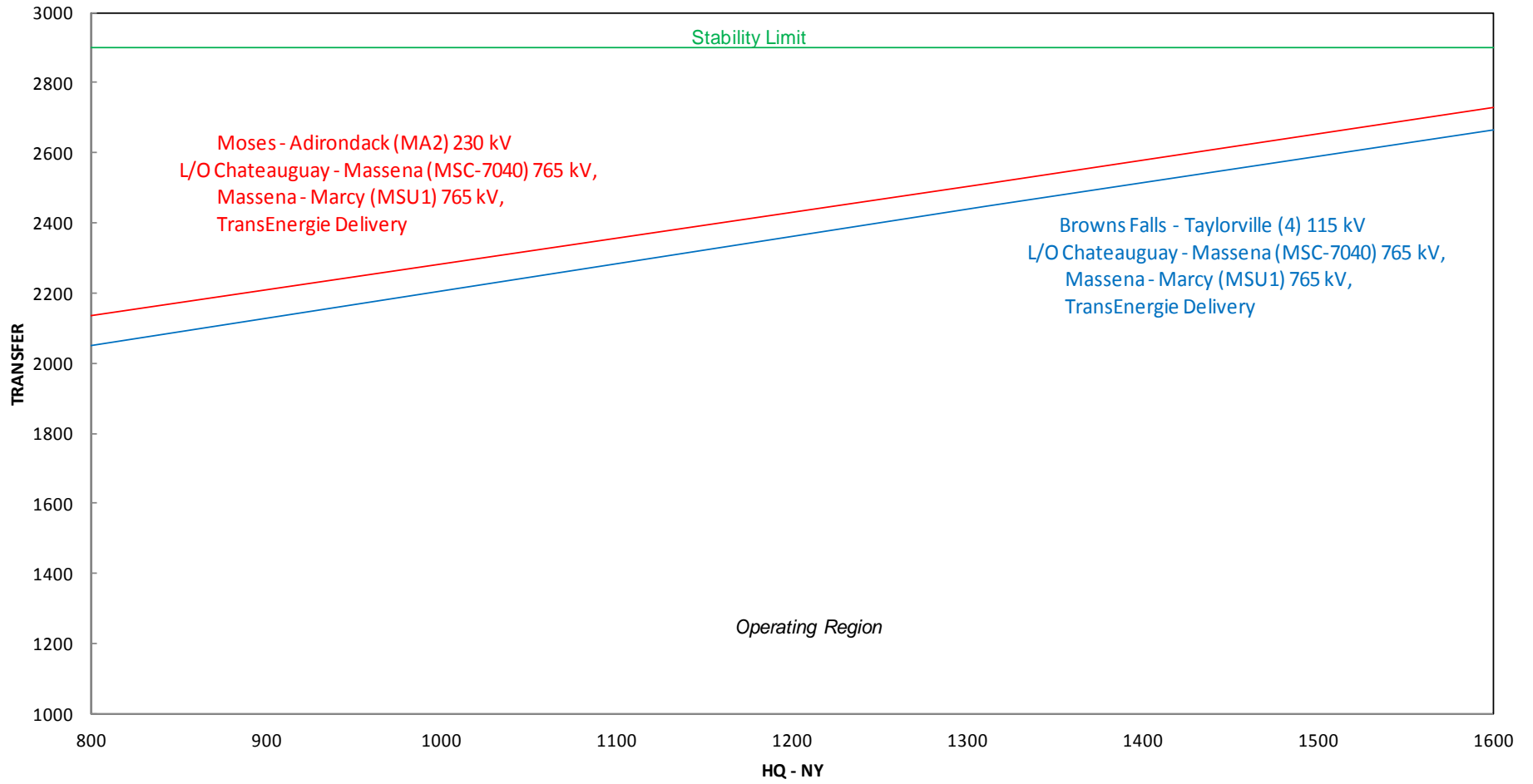
G-1

Central East vs. HQ Export to New York
For Normal Transfer Criteria
Summer 2015



G-2

Moses South vs. HQ Export to New York For Normal Transfer Criteria Summer 2015

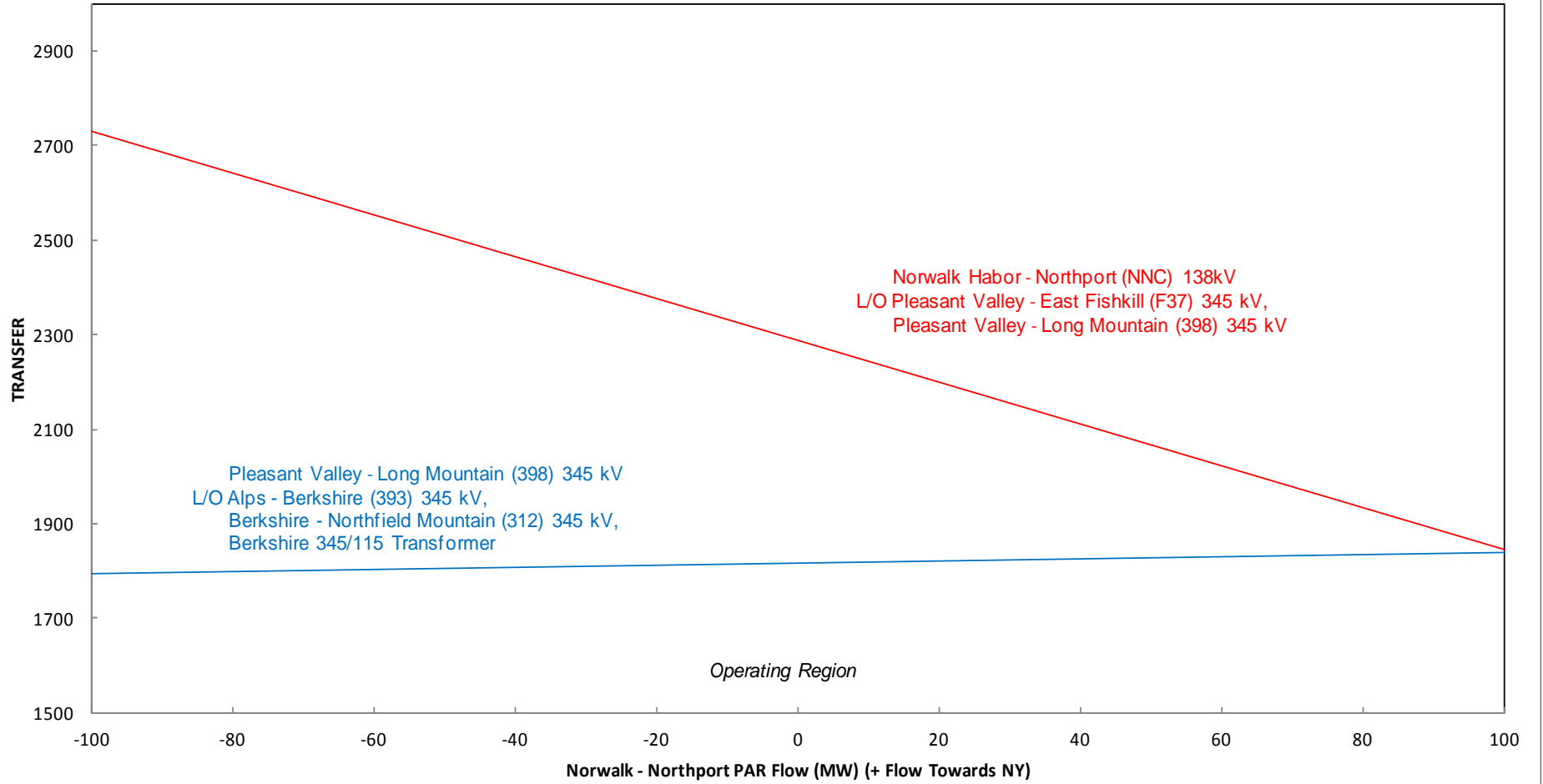


G-3

NE-NY vs. NORWALK-NORTHPORT PAR Flow

For Normal Transfer Criteria

Summer 2015

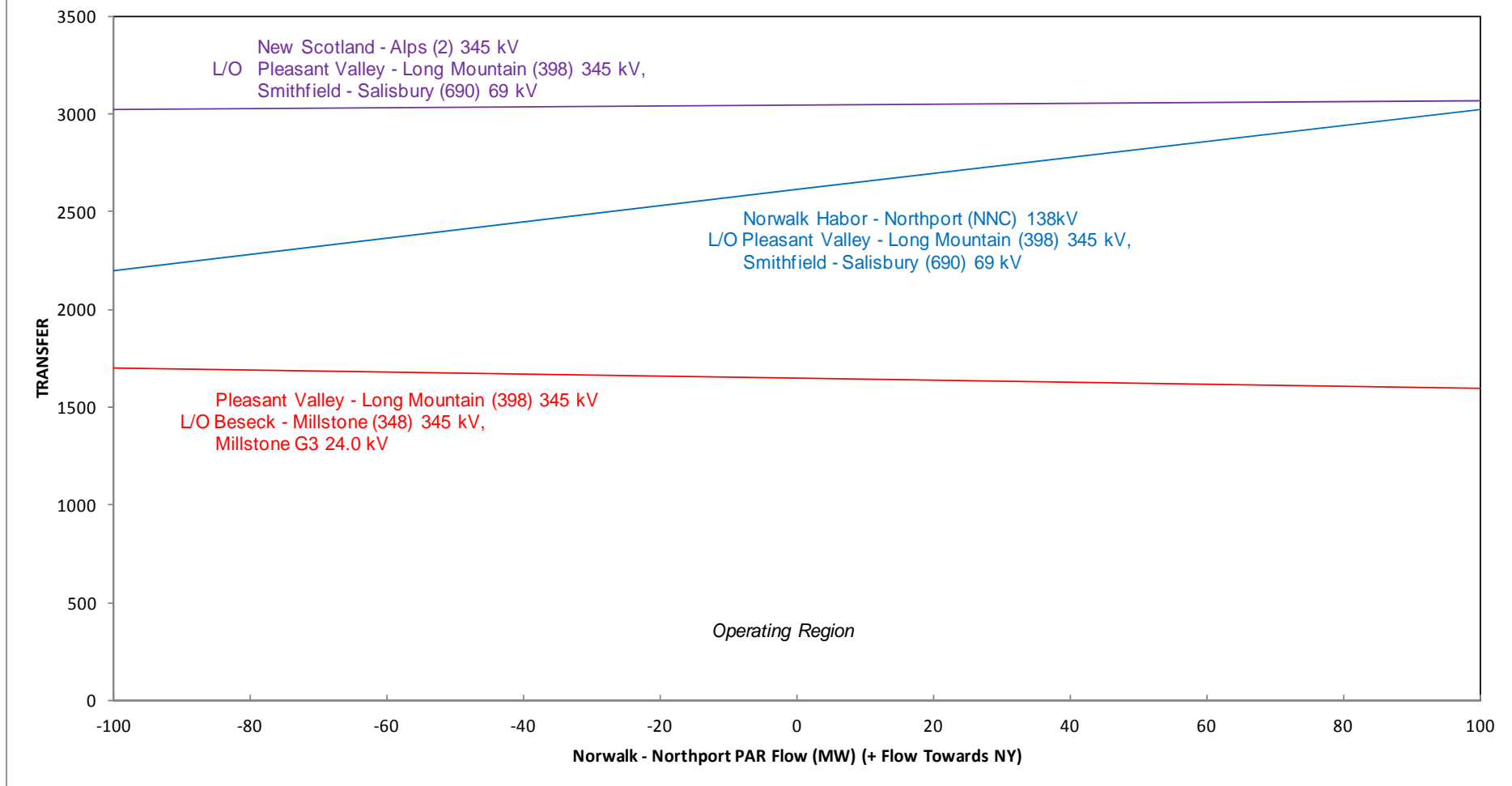


G-4

NY-NE vs. NORWALK-NORTHPORT PAR Flow

For Normal Transfer Criteria

Summer 2015

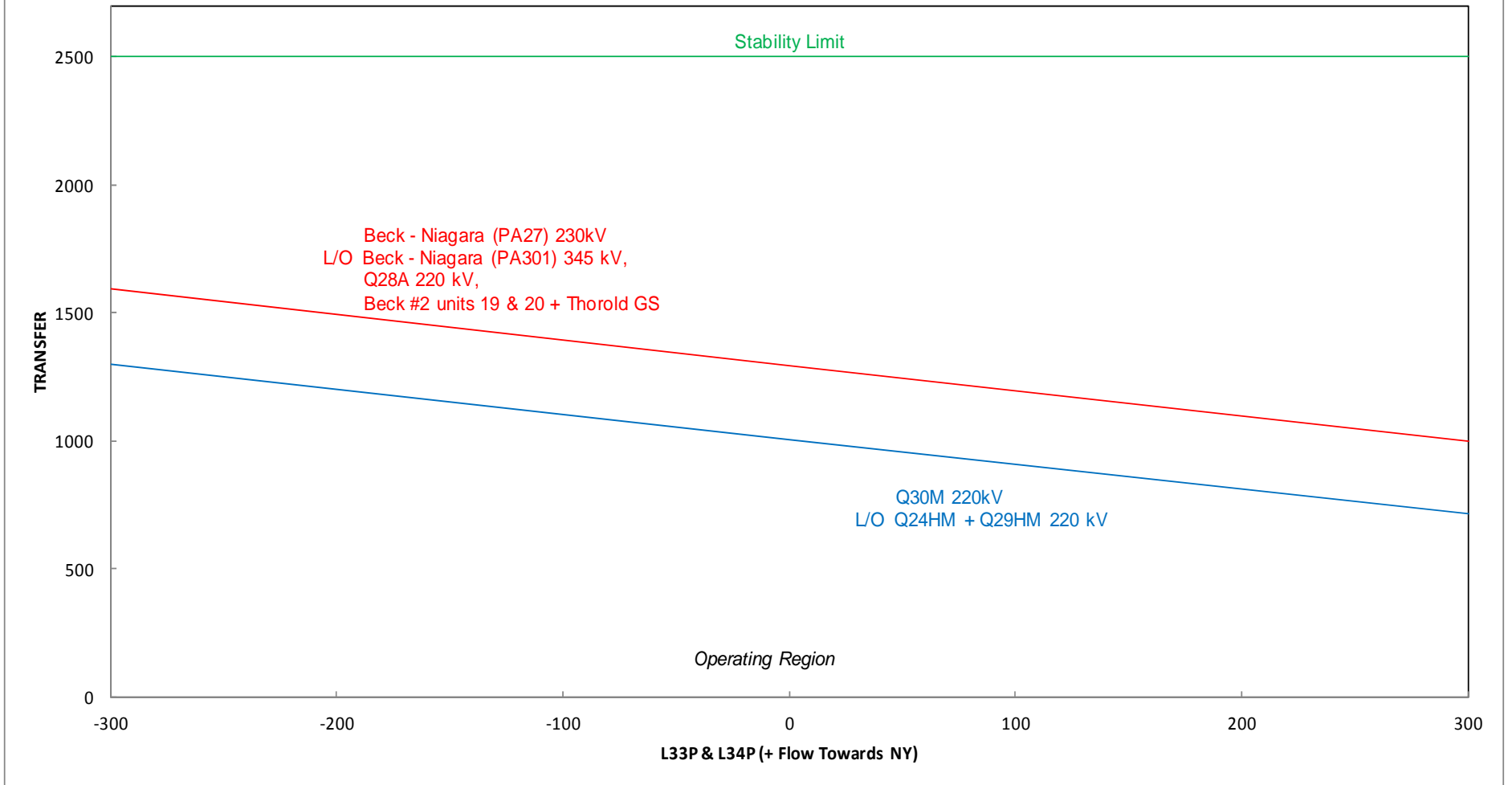


G-5

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

For Normal Transfer Criteria

Summer 2015

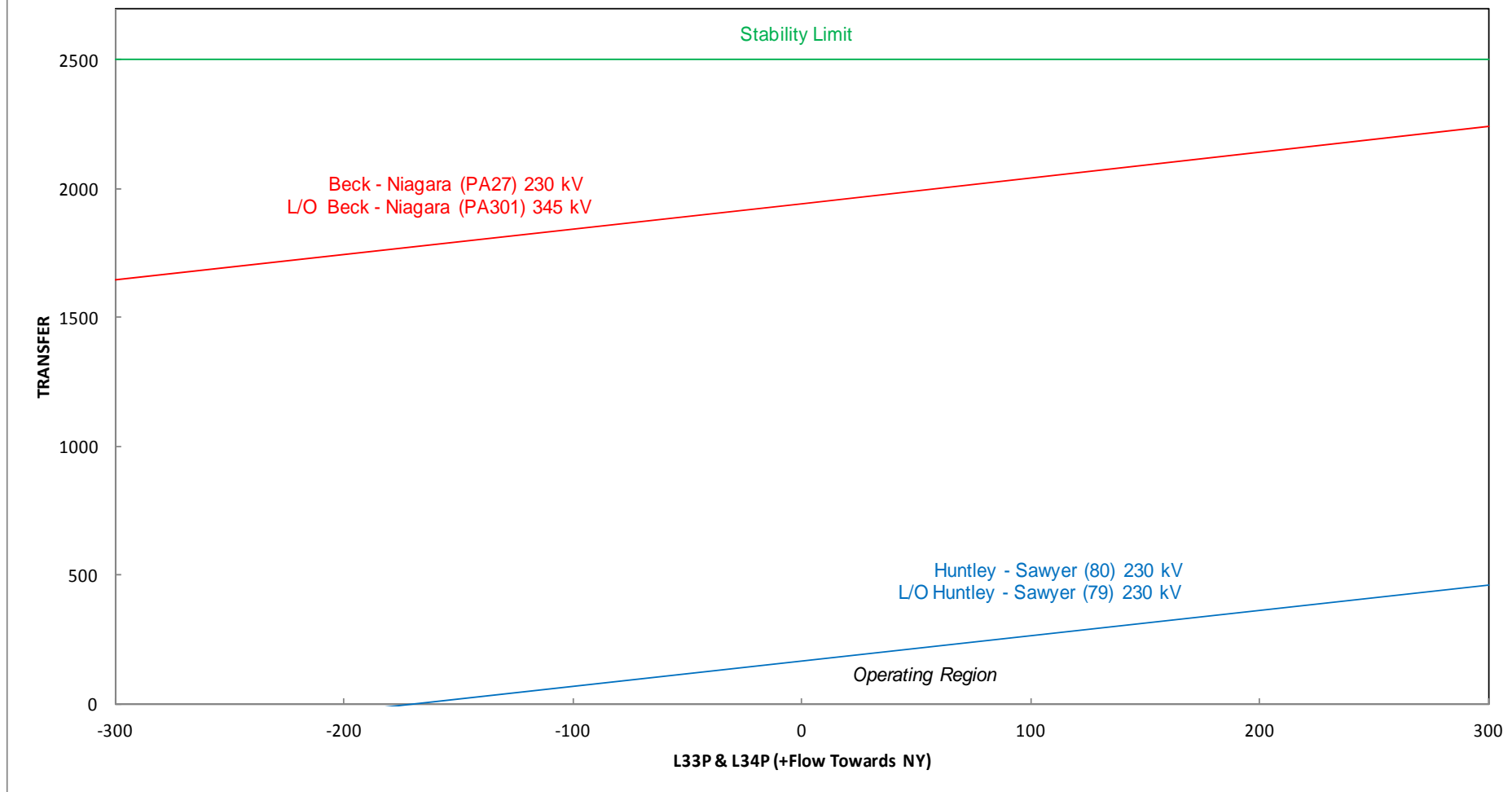


G-6

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

For Normal Transfer Criteria

Summer 2015



G-7

H. COMPARISON OF TRANSFER LIMITS SUMMER 2015 vs. 2014

Comparison of Summer 2015 to Summer 2014 Thermal Limits

Interface		SUMMER 2015		SUMMER 2014		Delta
		Limit (MW)	Contingency	Limit (MW)	Contingency	
Dysinger East	Normal	1675	1	1675	1	0
	Emergency	2350	2	2200	2	150
UPNY - ConEd	Normal	3600	3	3600	3	0
	Emergency	4225	4	4250	4	-25
Sprain Brook	Normal	4150	5	4125	5	25
Dunwoodie-South	Emergency	4150	6	4150	6	0
Con Ed - LIPA	Normal	900	7	900	7	0
	Emergency	1450	8	1450	8	0
Central East	MSC-7040 FLOW	1600 MW		1600 MW		
	Normal	2900	9	2875	11	25
	Emergency	3200	10	3200	12	0
	MSC-7040 FLOW	1310 MW		1310 MW		
	Normal	2900	9	2875	11	25
	Emergency	3200	10	3200	12	0
	MSC-7040 FLOW	800 MW		800 MW		
	Normal	2900	9	2875	11	25
	Emergency	3200	10	3175	12	25
Total East ³	MSC-7040 FLOW	1600 MW		1600 MW		
	Normal	4975	9	4975	13	0
	Emergency	5625	10	5625	14	0
	MSC-7040 FLOW	1300 MW		1300 MW		
	Normal	4975	9	5000	13	-25
	Emergency	5625	10	5625	14	0
	MSC-7040 FLOW	800 MW		800 MW		
	Normal	4975	9	4975	13	0
	Emergency	5625	10	5650	14	-25
Moses - South	MSC-7040 FLOW	1600 MW		1600 MW		
	Normal	2650	15	2175	18	475
	Emergency	2650	16	2675	16	-25
	MSC-7040 FLOW	1300 MW		1300 MW		
	Normal	2425	15	2250	18	175
	Emergency	2675	16	2750	16	-75
	MSC-7040 FLOW	800 MW		800 MW		
	Normal	2050	15	2050	19	0
	Emergency	2550	17	2350	20	200

³ Limits in this report do not include Neptune in the Total East Interface.

NYISO SUMMER 2015 CROSS-STATE THERMAL LIMIT CONTINGENCY LIST

	Limiting Element				Contingency
(1)	Huntley – Sawyer (80) 230 kV	LTE	654 MW	L/O	Huntley – Sawyer (79) 230 kV
(2)	Huntley – Sawyer (80) 230 kV	STE	755 MW	L/O	Huntley – Sawyer (79) 230 kV
(3)	Leeds – Pleasant Valley (92) 345 kV	LTE	1538 MW	L/O	Athens – Pleasant Valley (91) 345 kV
(4)	Leeds – Pleasant Valley (92) 345 kV	STE	1724 MW	L/O	Athens – Pleasant Valley (91) 345 kV
(5)	Mott Haven – Rainey (Q11) 345 kV	SCUC	1066 MW	L/O	(SB:RAIN345_7W) Mott Haven – Rainey (Q12) 345 kV Rainey 345/138 kV Transformer 7W Rainey – East 75 St. 138 kV East 75 St. – West 110 St. 138 kV
(6)	Dunwoodie – Mott Haven (71) 345 kV	NORM	707 MW		Pre-Contingency Loading
(7)	Dunwoodie – Shore Rd. (Y50) 345 kV	LTE	914 MW	L/O	Sprain Brook – E.G.C. (Y49) 345 kV Sprain Brook – Academy (M29) 345 kV
(8)	Dunwoodie – Shore Rd. (Y50) 345 kV	NORM	653 MW		Pre-Contingency Loading
(9)	New Scotland – Leeds (94) 345 kV	LTE	1538 MW	L/O	New Scotland – Leeds (93) 345 kV
(10)	New Scotland – Leeds (94) 345 kV	STE	1724 MW	L/O	New Scotland – Leeds (93) 345 kV
(11)	New Scotland – Leeds (93) 345 kV	LTE	1538 MW	L/O	New Scotland – Leeds (94) 345 kV
(12)	New Scotland – Leeds (93) 345 kV	STE	1724 MW	L/O	New Scotland – Leeds (94) 345 kV
(13)	Fraser–Coopers Corners (33) 345 kV	LTE	1404 MW	L/O	Marcy – Coopers Corners (UCC2-41) 345 kV Porter – Rotterdam (31) 230 kV
(14)	Rock Tavern – Ramapo (77) 345 kV	STE	2037 MW	L/O	Roseton – East Fishkill (305) 345 kV
(15)	Browns Falls – Taylorville (4) 115 kV	LTE	114 MW	L/O	Chateauguay–Massena (MSC-7040) 765 kV Massena – Marcy (MSU1) 765 kV and TransÉnergie delivery
(16)	Marcy 765/345 kV T2 Transformer	STE	1971 MW	L/O	Marcy 765/345 kV T1 Transformer
(17)	Browns Falls – Taylorville (4) 115 kV	STE	126 MW	L/O	Browns Falls – Taylorville (3) 115 kV
(18)	Marcy 765/345 kV T2 Transformer	LTE	1650 MW	L/O	Marcy 765/345 kV T1 Transformer
(19)	Moses - Adirondack (MA2) 230 kV	LTE	386 MW	L/O	Chateauguay – Massena (MSC-7040) 765 kV Massena – Marcy (MSU1) 765 kV and TransÉnergie delivery
(20)	Moses – Massena (MMS1) 230 kV	NORM	936 MW		Pre-Contingency Loading

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	BUS NAME	BASE	SHIFT	CHANGE
DYSINGER EAST											
155713	LENNOX_GS-2	0.0	20.0	20.0	126340	KEYSPG-1	146.0	142.5	-3.5		
156676	PICK_A_GS-4	0.0	20.0	20.0	126652	RAV 3	946.4	911.4	-35		
158740	NANTICOKE_G5	0.0	20.0	20.0	126654	AST 3	370.0	364.0	-6.0		
160704	LAMBTON_GS-3	0.0	20.0	20.0	126656	AST 5	359.0	357.0	-2.0		
160705	LAMBTON_GS-4	0.0	20.0	20.0	126658	RAV 2	357.0	351.0	-6.0		
					126660	COGENGT2	75.7	74.2	-1.5		
					126661	COGENGT3	75.7	74.2	-1.5		
					126662	COGENGT4	76.0	74.0	-2.0		
					126663	COGENGT5	75.7	73.7	-2.0		
					126664	COGENST1	55.7	53.7	-2.0		
					126665	COGENST2	56.1	54.1	-2.0		
					126692	SCS18-G4	165.0	162.0	-3.0		
					126710	SCS18-G5	165.0	162.0	-3.0		
					126711	SCS18-G6	216.0	209.5	-6.5		
					129025	NRTPTG2	250.0	243.5	-6.5		
					129026	NRTPTG3	250.0	243.5	-6.5		
					148708	Q308_GT1	156.6	154.6	-2.0		
					148709	Q308_GT2	156.6	154.6	-2.0		
					148710	Q308_ST	225.0	218.0	-7.0		
UPNY - CONED											
131831	NOEND1G\$	0.0	6.0	6.0	126251	ER G6	134.0	132.0	-2.0		
136702	OSWGO 5G	415.9	435.9	20.0	126340	KEYSPG-1	146.0	142.0	-4.0		
147763	MOS17-18	37.9	41.9	4.0	126652	RAV 3	946.4	918.4	-28.0		
158740	NANTICOKE_G5	0.0	20.0	20.0	126654	AST 3	370.0	365.0	-5.0		
158741	NANTICOKE_G6	0.0	20.0	20.0	126656	AST 5	359.0	357.0	-2.0		
160704	LAMBTON_GS-3	0.0	30.0	30.0	126657	RAV 1	355.0	348.0	-7.0		
					126658	RAV 2	357.0	350.0	-7.0		
					126660	COGENGT2	75.7	73.7	-2.0		
					126661	COGENGT3	75.7	73.7	-2.0		
					126662	COGENGT4	76.0	74.0	-2.0		
					126663	COGENGT5	75.7	73.7	-2.0		
					126664	COGENST1	55.7	53.7	-2.0		
					126665	COGENST2	56.1	54.1	-2.0		
					126692	SCS18-G4	165.0	162.5	-2.5		
					126710	SCS18-G5	165.0	163.0	-2.0		
					126711	SCS18-G6	216.0	511.0	-5.0		
					129025	NRTPTG2	250.0	245.5	-4.5		
					129026	NRTPTG3	250.0	245.5	-4.5		
					129027	NRTPTG4	265.0	261.0	-4.0		
					147788	POLETGT2	150.4	147.4	-3.0		
					147789	POLETSTG	157.6	153.6	-4.0		
					147790	POLETGT1	150.3	146.8	-3.5		

<----- STUDY SYSTEM ----->					<----- OPPOSING SYSTEM ----->				
<----- GENERATOR MW----- >					<----- GENERATOR MW----- >				
BUS NAME	BASE	SHIFT	CHANGE		BUS NAME	BASE	SHIFT	CHANGE	
SPRAIN BROOK DUNWOODIE - SOUTH									
131831	NOEND1G\$	0.0	3.8	3.8	126340	KEYSPG-1	146.0	141.0	-5.0
131832	NOEND2G\$	0.0	3.8	3.8	126341	KEYSPST1	71.9	68.9	-3.0
136702	OSWGO 5G	415.9	425.9	10.0	126652	RAV 3	946.4	916.4	-30.0
147763	MOS17-18	37.9	40.3	2.4	126654	AST 3	370.0	362.0	-8.0
158740	NANTICOKE_G5	0.0	20.0	20.0	126657	RAV 1	355.0	350.0	-5.0
158743	NANTICOKE_G8	0.0	20.0	20.0	126658	RAV 2	357.0	352.0	-5.0
160704	LAMBTON_GS-3	0.0	20.0	20.0	126660	COGENGT2	75.7	72.7	-3.0
160705	LAMBTON_GS-4	0.0	20.0	20.0	126661	COGENGT3	75.7	72.7	-3.0
					126662	COGENGT4	76.0	73.0	-3.0
					126663	COGENGT5	75.7	72.7	-3.0
					126692	SCS18-G4	165.0	162.0	-3.0
					126710	SCS18-G5	165.0	162.0	-3.0
					126711	SCS18-G6	216.0	210.0	-6.0
					147788	POLETGT2	150.4	147.4	-3.0
					147789	POLETSTG	157.6	153.6	-4.0
					147790	POLETGT1	150.3	148.3	-2.0
					148708	Q308_GT1	156.6	153.6	-3.0
					148709	Q308_GT2	156.6	153.6	-3.0
					148710	Q308_ST	225.0	220.0	-5.0
CONED - LIPA									
126379	AST 2	0.0	6.0	6.0	128901	BARETG2	181.0	163.0	-18.0
126650	AK 3	173.3	206.3	33.0	129025	NRTPTG2	250.0	234.0	-16.0
126653	AK 2	270.0	280.0	10.0	129026	NRTPTG3	250.0	234.0	-16.0
126659	COGENGT1	75.7	78.7	3.0	129027	NRTPTG4	265.0	249.0	-16.0
126660	COGENGT2	75.7	78.7	3.0	129092	PTJFEFG3	138.2	126.2	-12.0
126661	COGENGT3	75.7	78.7	3.0	129093	PTJFEFG4	181.0	169.0	-12.0
126662	COGENGT4	76.0	79.0	3.0	147821	NYPA108	88.0	83.0	-5.0
126664	COGENST1	55.7	61.7	6.0	147822	NYPA56	45.0	40.0	-5.0
126665	COGENST2	56.1	62.1	6.0					
126737	RNY 7EGT	0.0	9.0	9.0					
126738	RNY 7WGT	0.0	9.0	9.0					
126739	RNY 9EGT	0.0	9.0	9.0					
CENTRAL EAST, TOTAL EAST									
136702	OSWGO 5G	415.9	428.9	13.0	126251	ER G6	134.0	132.5	-1.5
147763	MOS17-18	37.9	40.9	3.0	126340	KEYSPG-1	146.0	143.0	-3.0
148706	MRBLRV1_8G	18.4	25.4	7.0	126341	KEYSPST1	71.9	70.4	-1.5
155713	LENNOX_GS-2	0.0	15.0	15.0	126652	RAV 3	946.4	927.9	-18.5
155715	LENNOX_GS-4	0.0	14.0	14.0	126654	AST 3	370.0	367.0	-3.0
158740	NANTICOKE_G5	0.0	14.0	14.0	126656	AST 5	359.0	357.0	-2.0
158741	NANTICOKE_G6	0.0	14.0	14.0	126657	RAV 1	355.0	350.0	-5.0
160704	LAMBTON_GS-3	0.0	20.0	20.0	126658	RAV 2	357.0	352.0	-5.0
					126660	COGENGT2	75.7	72.7	-3.0
					126661	COGENGT3	75.7	72.7	-3.0
					126663	COGENGT5	75.7	73.7	-2.0
					126664	COGENST1	55.7	53.7	-2.0

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

STUDY SYSTEM				OPPOSING SYSTEM					
BUS NAME	BASE	SHIFT	CHANGE	BUS NAME	BASE	SHIFT	CHANGE		
				126665	COGENST2	56.1	54.1	-2.0	
				126692	SCS18-G4	165.0	163.0	-2.0	
				126710	SCS18-G5	165.0	163.0	-2.0	
				126711	SCS18-G6	216.0	213.0	-3.0	
				128901	BARETG2	181.0	179.0	-2.0	
				129025	NRTPTG2	250.0	246.0	-4.0	
				129026	NRTPTG3	250.0	246.0	-4.0	
				129027	NRTPTG4	265.0	261.0	-4.0	
				129071	CAITH-GT	160.0	156.0	-4.0	
				129072	CAITH-ST	126.0	123.0	-3.0	
				129092	PTJFEG3	138.2	136.2	-2.0	
				129093	PTJFEG4	181.0	179.0	-2.0	
				147788	POLETGT2	150.4	148.4	-2.0	
				147789	POLETSTG	157.6	153.6	-4.0	
				147790	POLETGT1	150.3	148.3	-2.0	
				148708	Q308_GT1	156.6	154.6	-2.0	
				148709	Q308_GT2	156.6	154.6	-2.0	
				148710	Q308_ST	225.0	220.5	-4.5	
MOSES SOUTH									
147763	MOS17-18	37.9	87.9	50.0	126652	RAV 3	946.4	921.4	-25.0
147766	MOS21-22	106.9	156.9	50.0	126654	AST 3	370.0	365.0	-5.0
					130873	SOMERSET24	663.7	653.7	-10.0
					135800	HNTLY67G	186.0	181.0	-5.0
					135801	HNTLY68G	186.0	181.0	-5.0
					136715	SITH-G1	147.0	139.0	-8.0
					136716	SITH-G2	147.0	139.0	-8.0
					136717	SITH-G3	147.0	139.0	-8.0
					136718	SITH-G4	147.0	139.0	-8.0
					136719	SITH-S5	160.3	151.3	-9.0
					136720	SITH-S6	160.3	151.3	-93.0

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

<----- GENERATOR MW----->				<----- GENERATOR MW----->					
BUS NAME	BASE	SHIFT	CHANGE	BUS NAME	BASE	SHIFT	CHANGE		
NY - ONTARIO									
126379	AST 2	0.0	8.0	8.0	155714	LENNOX_GS-3	500.0	489.0	-11.0
126650	AK 3	173.3	182.3	9.0	156661	DARLINGTN_G1	916.0	905.0	-11.0
129024	NRTPTG1	265.0	269.0	4.0	156662	DARLINGTN_G2	912.0	901.0	-11.0
129025	NRTPTG2	250.0	254.0	4.0	156663	DARLINGTN_G3	920.4	909.4	-11.0
129026	NRTPTG3	250.0	254.0	4.0	156664	DARLINGTN_G4	928.1	916.1	-12.0
129027	NRTPTG4	265.0	269.0	4.0	156673	PICK_A_GS-1	500.0	489.0	-11.0
129096	PTJFGT3	138.2	139.2	1.0	156684	PICK_B_GS-6	477.0	466.0	-11.0
130841	SHLDN_GE_G1	11.2	13.2	2.0	156685	PICK_B_GS-7	482.8	471.8	-11.0
131126	WTHRS_GE_G1	12.6	15.6	3.0	156686	PICK_B_GS-8	502.8	491.8	-11.0
136702	OSWGO 5G	415.9	430.9	15.0					
137702	JMC2ST13	19.4	23.4	4.0					
147777	GILBOA#1	87.2	94.2	7.0					
147778	GILBOA#2	0.0	13.0	13.0					
147779	GILBOA#3	77.9	86.9	9.0					
147780	GILBOA#4	0.0	13.0	13.0					
ONTARIO - NY									
151720	ATIKOKAN_TGS	0.0	4.0	4.0	125190	ROSE GN1	387.7	383.7	-4.0
155713	LENNOX_GS-2	0.0	14.0	14.0	126652	RAV 3	946.4	932.4	-14.0
155715	LENNOX_GS-4	0.0	14.0	14.0	130873	SOMERSET24	641.9	625.9	-16.0
156676	PICK_A_GS-4	0.0	20.0	20.0	131461	CAYUGA 2	152.7	150.7	-2.0
156865	PORTLANDS_G3	0.0	8.0	8.0	131462	CAYUGA 1	149.7	146.7	-3.0
158740	NANTICOKE_G5	0.0	11.0	11.0	135800	HNTLY67G	186.0	182.0	-4.0
158741	NANTICOKE_G6	0.0	11.0	11.0	135801	HNTLY68G	186.0	182.0	-4.0
160704	LAMBTON_GS-3	0.0	15.0	15.0	136703	OSWGO 6G	820.0	815.0	-5.0
160725	BRIGHTON_GT2	0.0	3.0	3.0	136716	SITH-G2	147.0	142.0	-5.0
					136717	SITH-G3	147.0	142.0	-5.0
					136719	SITH-G5	160.3	155.3	-5.0
					136720	SITH-G6	160.3	155.3	-5.0
					137458	ATHENSC2	152.0	148.0	-4.0
					137459	ATHENSS2	70.0	68.0	-2.0
					137714	BETH STM	220.0	216.0	-4.0
					147797	JAFITZ1G	836.8	818.8	-18.0
NY - NE									
126379	AST 2	0.0	7.0	7.0	100386	WESTBROOK C1	175.7	173.7	-2.0
126650	AK 3	173.3	186.3	13.0	100425	NEWPAGE COGN	110.0	106.0	-4.0
126665	COGENST2	56.1	57.1	1.0	103060	MIS G1	160.7	158.7	-2.0
126666	COGENST3	55.0	56.5	1.5	103061	MIS G2	160.7	158.7	-2.0
126737	RNY 7EGT	0.0	2.5	2.5	103062	MIS ST	178.0	175.0	-3.0
126738	RNY 7WGT	0.0	2.5	2.5	105476	NEWINGTON_C1	162.8	160.8	-2.0
126739	RNY 9EGT	0.0	2.5	2.5	105477	NEWINGTON_C2	162.8	160.8	-2.0
129024	NRTPTG1	275.0	280.0	5.0	105478	NEWINGTON_S1	196.4	194.4	-2.0
129025	NRTPTG2	275.0	280.0	5.0	105633	GRANITE R ST	231.8	227.8	-4.0
129026	NRTPTG3	275.0	280.0	5.0	106056	GRANITE RDG1	227.2	223.2	-4.0
129027	NRTPTG4	275.0	280.0	5.0	106057	GRANITE RDG2	227.2	223.2	-4.0
129059	W.BABGT4	0.0	1.0	1.0	111063	MYSTIC 7GT	615.5	593.5	-22.0
129107	WADNGRV1	0.0	3.0	3.0	111067	MYSTIC GT 8A	240.7	237.7	-3.0
129108	WADNGRV2	0.0	3.0	3.0	111068	MYSTIC 8ST	232.4	229.4	-3.0
129109	WADNGRV3	0.0	3.0	3.0	111069	MYSTIC GT 9A	222.6	219.6	-3.0

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

BUS NAME	BASE	SHIFT	CHANGE	BUS NAME	BASE	SHIFT	CHANGE
136702 OSWGO 5G	415.9	427.9	12.0	111070 MYSTIC 9ST	234.5	231.5	-3.0
137702 JMC2ST13	19.4	23.4	4.0	111071 MYSTIC GT 8B	240.7	237.7	-3.0
147777 GILBOA#1	87.2	93.2	6.0	111072 MYSTIC GT 9B	222.6	219.6	-3.0
147779 GILBOA#3	67.1	73.1	6.0	111095 ANP BLKSTN 1	278.5	274.5	-4.0
147780 GILBOA#4	0.0	12.0	12.0	111251 CANAL G1	590.0	574.0	-16.0
				113096 BEARSWAMP 1	120.0	115.0	-5.0
				114857 BRAYTN PT 1	261.4	257.4	-4.0

NE - NY

105386 MERRIMACK_G2	230.0	231.0	1.0	125190 ROSE GN1	389.6	379.6	-10.0
105464 NEWINGTON_G1	0.0	19.0	19.0	125192 ROSE GN2	595.0	586.0	-9.0
111126 KENDALL CT	0.0	6.0	6.0	126651 IND PT 2	1020.1	1006.1	-14.0
113096 BEARSWAMP 1	120.0	123.0	3.0	136700 9M PT 2G	1287.0	1275.0	-12.0
114855 BRAYTN PT 3	0.0	17.0	17.0	137701 JMC2GT13	60.0	58.0	-2.0
116413 NORTHFIELD 3	0.0	11.0	11.0	137703 JMC2GT213	60.0	58.0	-2.0
116414 NORTHFIELD 4	0.0	11.0	11.0	137711 BETHGT1	135.0	132.0	-3.0
121560 PLAINFIELD	0.0	1.0	1.0	137713 BETHGT3	135.0	132.0	-3.0
122030 KLEEN_C1	110.0	113.0	3.0	146035 JMC_SELKIRK1	75.6	73.6	-2.0
122031 KLEEN_C2	110.0	113.0	3.0	146841 BOW1	577.8	565.8	-12.0
122032 KLEEN_S1	140.0	145.0	5.0	147777 GILBOA#1	87.2	84.2	-3.0
123653 NEW HAVN HBR	0.0	20.0	20.0	147797 JAFITZ1G	836.8	826.8	-10.0
				147798 IP#3 GEN	1034.8	1016.8	-18.0

NY - PJM

125192 ROSE GN2	554.7	558.7	4.0	Scale shift to all PJM generation
129025 NRTPTG2	315.0	318.0	3.0	
129107 WADNGRV1	50.0	55.0	5.0	
129108 WADNGRV2	50.0	55.0	5.0	
137456 ATHENSC1	152.0	163.0	11.0	
137458 ATHENSC2	152.0	162.0	10.0	
137713 BETHGT3	145.0	156.0	11.0	
145005 JAMESGN7	0.0	5.0	5.0	
147778 GILBOA#2	0.0	21.0	21.0	
147780 GILBOA#4	0.0	20.0	20.0	
147787 BLISS2_GE_1G	2.9	4.9	2.0	
147800 BLISS1_GE_1G	7.2	10.2	3.0	

PJM - NY

Scale shift from all PJM generation	125190 ROSE GN1	330.7	325.7	-5.0
	126251 ER G6	134.0	131.0	-3.0
	126654 AST 3	370.0	361.0	-9.0
	126656 AST 5	357.4	355.4	-2.0
	126710 SCS18-G5	165.0	163.0	-2.0
	126711 SCS18-G6	216.0	214.0	-2.0
	131648 LEA 3G	43.0	41.0	-2.0
	131649 LEA 4S	65.5	62.5	-3.0
	136703 OSEGO 6G	820.0	816.0	-4.0
	136704 OCWE GEN	32.4	31.4	-1.0
	136715 SITH-G1	97.0	92.0	-5.0

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

BUS NAME	BASE	SHIFT	CHANGE	BUS NAME	BASE	SHIFT	CHANGE
				136716 SITH-G2	97.0	92.0	-5.0
				136717 SITH-G3	107.0	102.0	-5.0
				137456 ATHENSC1	182.0	177.0	-5.0
				137458 ATHENSC2	182.0	177.0	-5.0
				137459 ATHENSS2	90.0	88.0	-2.0
				147797 JAFITZ1G	836.8	815.8	-21.0
				148708 Q308_GT1	156.6	150.6	-6.0
				148709 Q308_GT2	156.6	150.6	-6.0
				148710 Q308_ST	225.0	218.0	-7.0

J. DISTRIBUTION FACTORS

Table-1 DISTRIBUTION FACTORS FOR DYSINGER EAST CIRCUITS

Monitored Element	Base Flow	TRANSFER	NIAGAR-ROCH	SOMMERSET-ROCH	STOLLE-HIGHSHELDON	LOCKPT-SHEL	LOCKPT-SOUR	NIAGAR-ROCH
NIAG 345 345 ROCH 345 345 1	439.07	35.94%	TRIP	54.33%	21.72%	20.22%	22.27%	TRIP
SOMERSET345 345 ROCH 345 345 1	578.41	24.51%	44.80%	TRIP	14.81%	13.79%	15.19%	O/S
STOLE230 230 SHLDN230 230 1	237.62	11.22%	7.30%	6.04%	TRIP	5.57%	6.13%	13.22%
LOCKPORT 115 SHEL-113 115 1	66.21	2.78%	4.32%	3.57%	3.54%	TRIP	15.04%	7.82%
LOCKPORT 115 NAKR-108 115 1	53.46	0.99%	1.54%	1.28%	1.26%	3.48%	3.77%	2.80%
LOCKPORT 115 OAKFLDTP 115 1	57.77	1.16%	1.80%	1.49%	1.48%	4.07%	4.40%	3.26%
LOCKPORT 115 SOUR-111 115 1	62.19	2.82%	4.38%	3.62%	3.59%	13.84%	TRIP	7.93%
LOCKPORT 115 TELRD107 115 1	74.51	1.32%	2.05%	1.70%	1.68%	6.10%	6.06%	3.72%
LOCKPORT 115 TELRD114 115 1	70.24	2.78%	4.33%	3.58%	3.54%	18.84%	11.62%	7.84%
PALMT115 115 ANDOVER1 115 1	0	0.00%	O/S	O/S	O/S	O/S	O/S	O/S
SUB-TOTALS		83.52%	70.51%	75.61%	51.62%	85.90%	84.47%	46.58%
L33P-L34P	0.27	0.00%	10.61%	8.78%	9.11%	4.02%	4.43%	19.23%
PJM-NYISO	839.16	16.48%	18.88%	15.62%	39.27%	10.08%	11.10%	34.19%
TOTALS		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Table-2 DISTRIBUTION FACTORS FOR WEST CENTRAL CIRCUITS

Monitored Element				Base Flow	TRANSFER	CLAY-PANNELL	STOLLE-SHLDN	PANNEL-FARM	S121-SLEGH	PANNEL-CLAY
CLAY	345	PANNELL3	345 1	-113.51	30.19%	TRIP	10.65%	20.48%	19.23%	O/S
CLAY	345	PANNELL3	345 2	-113.87	30.29%	57.62%	10.68%	20.55%	19.29%	TRIP
STOLE230	230	SHLDN230	230 1	237.62	11.22%	3.06%	TRIP	8.33%	2.95%	7.23%
FRMGTN-4	115	PANNELLI	115 1	151.57	3.29%	6.05%	8.55%	TRIP	16.42%	14.28%
LAWLER-1	115	MORTIMER	115 1	57	2.57%	2.73%	1.35%	14.38%	4.08%	6.45%
MACDN115	115	QUAKER	115 1	46.19	0.31%	0.48%	0.42%	3.29%	20.33%	1.14%
MORTIMER	115	LAWLER-2	115 1	32.58	2.64%	2.95%	1.17%	6.08%	4.40%	6.96%
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	35.81	0.48%	1.99%	16.84%	4.94%	2.30%	4.70%
SLEIG115	115	S121 B#2	115 1	78.84	2.53%	3.68%	1.97%	10.65%	TRIP	8.69%
SUB-TOTALS					83.52%	78.57%	51.62%	88.70%	89.00%	49.44%
L33P-L34P				0.27	0.00%	7.83%	9.11%	2.48%	3.24%	18.48%
PJM-NYISO				839.16	16.48%	13.60%	39.27%	8.82%	7.76%	32.08%
TOTALS					100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Table-3 DISTRIBUTION FACTORS FOR TOTAL EAST CIRCUITS

Monitored Element	Base Flow	TRANSFER	EDIC34-NSCOT	FRASER-GILBA	MARCY3-NSCOT	WALDWK-SMAWA	PORTER-RTRDM	HOPATCONG-RAMPO	HUDSON-FARGT	LINDEN-GOETH	WALDWK-SMAWA	HUDSON-FARGT
EDIC 345 N.SCOT77 345 1	729.23	17.83%	TRIP	18.67%	31.77%	0.19%	13.86%	2.70%	1.16%	1.68%	1.65%	1.82%
FRASR345 345 GILB 345 345 1	263.72	17.97%	22.89%	TRIP	23.60%	0.19%	9.75%	3.15%	1.90%	2.49%	1.56%	2.95%
N.SCOT99 345 MARCY T1 345 1	838.98	19.66%	34.05%	20.63%	TRIP	0.21%	15.10%	2.97%	1.29%	1.86%	1.81%	2.01%
ROCK TAV 345 COOPC345 345 2	562.6	16.19%	6.37%	17.41%	6.73%	0.37%	3.75%	3.85%	0.33%	1.00%	3.07%	0.54%
ROCK TAV 345 MDTN TAP 345 1	321.93	13.51%	6.10%	16.21%	6.43%	0.46%	3.58%	2.64%	0.87%	1.32%	1.70%	1.36%
SMAHWAH1 345 WALDWICK 345 1	-440.24	-0.21%	1.64%	1.17%	1.68%	88.85%	0.98%	26.32%	16.15%	8.91%	O/S	24.62%
SMAHWAH2 345 WALDWICK 345 1	-560.51	0.21%	1.61%	1.32%	1.66%	TRIP	0.97%	25.79%	15.44%	8.49%	TRIP	23.54%
PORTER 2 230 ROTRDM.2 230 1	258.66	4.62%	5.69%	3.27%	5.79%	0.05%	TRIP	0.67%	0.31%	0.43%	0.41%	0.48%
PORTER 2 230 ROTRDM.2 230 2	258.63	4.62%	5.69%	3.27%	5.79%	0.05%	32.63%	0.67%	0.31%	0.43%	0.41%	0.48%
CORPORATE DR 138 HCOR138 138 1	-88.98	-0.02%	-0.01%	-0.01%	-0.01%	0.04%	0.00%	0.02%	0.00%	-0.01%	0.01%	-0.01%
MDTN TAP 345 SHOEMTAP 138 1	344.32	4.03%	0.50%	2.01%	0.54%	-0.13%	0.31%	1.74%	-0.74%	-0.42%	1.95%	-1.13%
RAMP138 138 SMAH138 138 1	-116.9	-0.42%	0.01%	-0.16%	0.01%	2.71%	0.01%	0.53%	0.65%	0.38%	-0.33%	0.99%
SMAHWAH1 345 SMAH138 138 1	-175.86	0.60%	-0.02%	0.22%	-0.01%	-3.36%	-0.01%	-0.55%	-0.89%	-0.54%	0.55%	-1.35%
E.SPR115 115 INGHAM-E 115 1	-18.31	1.04%	-0.18%	2.54%	-0.17%	0.01%	0.94%	0.16%	0.08%	0.10%	0.08%	0.12%
INGMS-CD 115 INGHAM-E 115 1	119.83	0.00%	3.61%	0.73%	3.66%	0.02%	9.16%	0.33%	0.14%	0.21%	0.21%	0.22%
NE_PV20_NY 115 PLAT T#3 115 1	111.44	0.00%	2.92%	1.77%	3.11%	0.05%	3.23%	0.67%	0.32%	0.45%	0.40%	0.50%
BLUHILL 69.0 MONTVALE 69.0 1	5.42	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	5.42	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	-30.83	-0.31%	-0.03%	-0.15%	-0.04%	0.41%	-0.02%	-0.01%	0.12%	0.06%	-0.13%	0.18%
L491T 69.0 MONTVALE 69.0 1	-46.45	0.03%	0.01%	0.02%	0.01%	0.10%	0.01%	0.02%	0.04%	0.03%	-0.02%	0.05%
SPARKILL 69.0 CRESSKIL 69.0 1	-14.19	0.03%	0.01%	0.02%	0.01%	0.02%	0.01%	0.00%	0.02%	0.02%	-0.02%	0.03%
W.WDB115 115 W.WDBR69 69.0 1	10.43	0.55%	0.48%	1.17%	0.50%	0.00%	0.37%	0.04%	0.09%	0.10%	-0.02%	0.14%
WNYA69 69.0 HCOR69 69.0 1	-7.2	0.11%	0.03%	0.07%	0.03%	0.09%	0.02%	-0.01%	0.07%	0.06%	-0.06%	0.11%
PEARL34 34.5 HCOR34 34.5 1	-0.38	-0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-0.01%
SUB-TOTALS		100.00%	91.37%	90.16%	91.09%	90.30%	94.61%	71.71%	37.64%	27.05%	13.23%	57.65%
RAMAPO 5 500 HOPATCONG 500 1	379.55	0.00%	3.75%	3.58%	3.86%	4.14%	2.29%	TRIP	8.28%	15.67%	36.75%	13.10%
NEPTCONV 345 NWBRG 345 1	661.09	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
COGNTECH 345 G22_VFT345KV 345 1	314.24	0.00%	0.37%	0.45%	0.39%	0.23%	0.24%	2.51%	3.69%	17.43%	2.09%	5.76%
B3402 PAR1 345 HUDSON1 345 1	332.52	0.00%	1.45%	1.92%	1.50%	2.21%	0.92%	7.39%	TRIP	19.72%	19.87%	O/S
C3403 PAR2 345 HUDSON2 345 1	331.78	0.00%	1.48%	1.96%	1.53%	2.19%	0.94%	7.70%	35.30%	20.13%	19.70%	TRIP
GOETHALS 230 LINDEN 230 1	336.23	0.00%	1.59%	1.93%	1.65%	0.93%	1.00%	10.70%	15.08%	TRIP	8.37%	23.50%
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

Monitored Element				Base Flow	TRANSFER	LADNTW-BUCHS	RAMAPO-BUCHN	PLVLLY-FISHK	PLVLLY-MILLW	HUDSON-FARGT	LINDEN-GOETH	ROSETN-FISHK
BUCHANAN S	345	LADENTWN	345 1	70.49	13.33%	TRIP	56.03%	-3.61%	17.90%	19.81%	17.02%	23.91%
BUCHANAN N	345	RAMAPO	345 1	-123.54	13.44%	42.64%	TRIP	-0.18%	3.29%	13.41%	11.72%	13.26%
E FISHKILL	345	PLTVLLEY	345 1	244.25	8.01%	-7.06%	-0.46%	TRIP	23.61%	0.42%	0.66%	32.38%
E FISHKILL	345	PLTVLLEY	345 2	244.25	8.01%	-7.06%	-0.46%	66.29%	23.61%	0.42%	0.66%	32.38%
MILLWOOD	345	PLTVLLEY	345 1	704.23	17.51%	12.88%	3.11%	8.70%	TRIP	1.35%	1.86%	-8.66%
PLTVLLEY	345	WOOD B	345 1	735.46	17.28%	12.45%	3.09%	9.10%	34.91%	1.36%	1.85%	-8.37%
ROSETON	345	E FISHKILL	345 1	1231.32	19.74%	22.15%	16.14%	15.35%	-11.15%	6.90%	6.61%	TRIP
E FISH I	115	E FISHKILL	345 1	-61.25	1.71%	0.77%	0.71%	2.48%	-0.46%	0.35%	0.37%	6.40%
E FISH I	115	E FISHKILL	345 2	0	0.00%	O/S	O/S	O/S	O/S	O/S	O/S	O/S
FISHKILL	115	SYLVN115	115 1	125.71	0.96%	0.60%	0.33%	-0.09%	0.79%	0.16%	0.17%	0.52%
SUB-TOTALS					100.00%	77.37%	78.52%	98.03%	92.51%	44.18%	40.91%	91.82%
B3402 PAR1	345	HUDSON1	345 1	332.52	0.00%	7.78%	6.92%	0.08%	0.74%	TRIP	19.72%	2.93%
C3403 PAR2	345	HUDSON2	345 1	331.78	0.00%	7.80%	6.95%	0.09%	0.75%	35.30%	20.13%	2.94%
GOETHALS	230	LINDEN	230 1	336.23	0.00%	5.11%	4.63%	0.10%	0.78%	15.08%	TRIP	2.14%
COGNTECH	345	G22_VFT345KV	345 1	314.24	0.00%	1.24%	1.12%	0.02%	0.18%	3.69%	17.43%	0.51%
NRTHPT P	138	NRTHPT1	138 1	100.35	0.00%	0.69%	1.87%	1.68%	5.04%	1.75%	1.81%	-0.35%
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

Monitored Element				Base Flow	TRANSFER	DUNWDE-RAINY	SPRAIN-TRMNT	SPRAIN-W49TH	VSTR-JAMAICA	LKSUC-JMAICA	REAC72-MOTT
REAC71	345	MOTT HAVEN	345 3	202.35	25.64%	TRIP	4.00%	18.33%	6.82%	6.84%	26.23%
REAC72	345	MOTT HAVEN	345 4	200.99	25.46%	21.97%	3.97%	18.20%	6.77%	6.79%	TRIP
SPRAINBROOK	345	TREMONT	345 1	391.71	0.00%	2.31%	TRIP	2.51%	5.06%	4.86%	2.84%
SPRAINBROOK	345	ACADEMY	345 1	310.64	0.00%	2.04%	21.23%	2.22%	4.47%	4.30%	2.51%
W 49 ST	345	REACM51	345 1	216.37	24.45%	17.96%	4.26%	TRIP	6.82%	6.62%	O/S
W 49 ST	345	REACM52	345 2	216.37	24.45%	17.96%	4.26%	20.44%	6.82%	6.62%	22.32%
DUN NO1R	138	S CREEK W	138 1	66.33	0.00%	1.27%	12.10%	1.20%	2.56%	2.50%	1.53%
DUN NO2R	138	S CREEK E	138 1	114.53	0.00%	1.44%	13.73%	1.36%	2.90%	2.84%	1.74%
DUN SO1R	138	E179 ST W	138 1	177.97	0.00%	1.98%	19.06%	1.89%	4.03%	3.93%	2.40%
JAMAICA	138	V STRM P	138 1	126.2	0.00%	4.62%	5.94%	4.72%	TRIP	45.48%	5.64%
JAMAICA	138	L SUCSPH	138 1	164.36	0.00%	4.43%	5.46%	4.38%	43.50%	TRIP	5.39%
SUB-TOTALS					100.00%	75.96%	94.00%	75.23%	89.74%	90.77%	70.60%
B3402 PAR1	345	HUDSON1	345 1	332.52	0.00%	8.51%	1.73%	8.78%	3.54%	3.20%	10.41%
C3403 PAR2	345	HUDSON2	345 1	331.78	0.00%	8.52%	1.74%	8.85%	3.58%	3.23%	10.43%
GOETHALS	230	LINDEN	230 1	336.23	0.00%	5.65%	2.04%	5.76%	2.53%	2.26%	6.90%
COGNTECH	345	G22_VFT345KV	345 1	314.24	0.00%	1.36%	0.49%	1.39%	0.61%	0.54%	1.66%
TOTALS					100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Table-6 DISTRIBUTION FACTORS FOR MOSES SOUTH CIRCUITS

Monitored Element				Base Flow	TRANSFER	MASSEN_CHAT	MASSEN-MARCY	MOSES2-ADRON	MOSES2-ADRONB1
MARCY765	765 MASS 765	765 1		1290.23	74.53%	65.64%	TRIP	44.31%	O/S
ADRON B1	230 MOSES W	230 1		136.27	9.35%	3.38%	18.77%	TRIP	TRIP
ADRON B2	230 MOSES W	230 1		136.29	9.35%	3.38%	18.77%	36.24%	48.60%
ALCOA-NM	115 BRADY	115 1		27.79	1.10%	0.45%	2.17%	0.74%	1.86%
ALLENS F	115 COLTON	115 1		-30.58	1.55%	0.28%	1.85%	0.65%	1.60%
ANDRWS-4	115 DENNISON	115 1		17.36	2.06%	0.84%	4.08%	1.39%	3.48%
DENNISON	115 LWRNCE-B	115 1		19.08	2.06%	0.84%	4.08%	1.39%	3.49%
SUB-TOTALS					100.00%	74.79%	49.71%	84.72%	59.02%
MOSES E	230 ST_LAWR_L33P	230 1		-0.01	0.00%	9.67%	16.82%	4.99%	13.57%
MOSES E	230 ST_LAWR_L34P	230 1		-0.26	0.00%	11.72%	20.38%	6.05%	16.45%
MOSES W	230 WILLIS E	230 1		124.37	0.72%	2.03%	7.35%	2.41%	6.18%
MOSES W	230 WILLIS W	230 1		123.62	0.72%	2.02%	7.31%	2.39%	6.14%
TOTALS					101.44%	100.21%	101.57%	100.56%	101.36%

Table-7 DISTRIBUTION FACTORS FOR NEISO NYISO CIRCUITS

Monitored Element				Base Flow	TRANSFER	NHHAR_GEN	YRMTH_GEN	SBRK_GEN	HIGATE_DC	ELLRIVER	MADWAS_DC	ALPS34-MANY	PV.345-LNGMT
NE_393_NY	345	ALPS345	345 1	-85.52	36.84%	18.71%	31.03%	30.75%	21.20%	31.02%	31.02%	TRIP	36.74%
NE_398_NY	345	PLTVLLEY	345 1	57.19	48.28%	49.54%	33.91%	34.32%	21.52%	33.89%	33.89%	44.54%	TRIP
NE_E205W_NY	230	EASTOVER RD	230 1	35.82	10.60%	4.15%	7.43%	7.54%	3.72%	7.43%	7.43%	16.24%	7.18%
NE_K7_NY	115	WHITEHAL	115 1	-0.16	0.00%	2.36%	4.92%	4.76%	6.87%	4.93%	4.93%	9.23%	4.41%
NE_K6_NY	115	HOOSICK	115 1	12.3	3.18%	1.35%	2.28%	2.30%	1.22%	2.28%	2.28%	8.69%	2.49%
NE_PV20_NY	115	PLAT T#3	115 1	-111.44	0.00%	4.14%	7.51%	7.30%	36.58%	7.55%	7.55%	7.92%	5.18%
NE_690_NY	69.0	SMITHFLD	69.0 1	-0.59	1.09%	1.08%	0.81%	0.82%	0.50%	0.81%	0.81%	1.18%	2.78%
NE_601_NY	138	NRTHPT P	138 1	33.63	0.00%	6.25%	4.05%	4.09%	2.81%	4.05%	4.05%	4.08%	13.80%
NE_602_NY	138	NRTHPT P	138 2	33.52	0.00%	6.23%	4.04%	4.08%	2.80%	4.04%	4.04%	4.07%	13.76%
NE_603_NY	138	NRTHPT P	138 3	33.3	0.00%	6.19%	4.01%	4.05%	2.78%	4.01%	4.01%	4.04%	13.67%
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

Monitored Element	Base Flow	TRANSFER	BECKB-NIAG	PA27-NIAG	BP76-PACKD2	STLAWR34-MOSES	STLAWR33-MOSES	BECKA-PA302
NIAG 345 345 BECK_#2_H301 345 1	17.55	31.38%	52.19%	33.05%	30.71%	7.44%	8.34%	TRIP
NIAG 345 345 BECK_#2_H302 345 1	17.55	31.38%	TRIP	33.05%	30.71%	7.44%	8.34%	O/S
NIAGAR2W 230 BECK_#2_PA27 230 1	-56.2	19.29%	22.78%	TRIP	31.31%	4.45%	4.99%	47.65%
PACKARD2 230 BECK_#2_BP76 230 1	23.47	17.96%	18.47%	27.32%	TRIP	4.03%	4.52%	38.63%
MOSES E 230 ST_LAWR_L33P 230 1	0.01	0.00%	1.20%	1.04%	1.08%	TRIP	57.38%	2.50%
MOSES E 230 ST_LAWR_L34P 230 1	0.26	0.00%	1.45%	1.26%	1.31%	62.00%	TRIP	3.03%
SUB-TOTALS		100.00%	96.09%	95.71%	95.13%	85.35%	83.57%	91.81%
ON-MICH	-1.22	0.00%	3.67%	4.03%	4.57%	13.56%	15.21%	7.68%
TOTALS		100.00%	99.76%	99.74%	99.70%	98.92%	98.78%	99.50%

Table-9 DISTRIBUTION FACTORS FOR PJM-NYISO CIRCUITS

Monitored Element	Base Flow	TRANSFER	HOPATCONG-RAMPO	HUDSON-FARGT	LINDEN-GOETH	WALDWK-SMAWA	HMRCTY-STOLL	E.TOWD-HILLS	ERIESO-FALCS	WALDWK-SMAWA	HUDSON-FARGT
RAMAPO 5 500 HOPATCONG 500 1	379.55	0.00%	TRIP	8.28%	15.67%	4.14%	7.50%	9.79%	6.90%	36.75%	13.10%
COGNTECH 345 G22_VFT345KV 345 1	314.24	0.00%	2.51%	3.69%	17.43%	0.23%	0.62%	0.66%	0.58%	2.09%	5.76%
B3402 PAR1 345 HUDSON1 345 1	332.52	0.00%	7.39%	TRIP	19.72%	2.21%	2.16%	2.43%	2.00%	19.87%	O/S
C3403 PAR2 345 HUDSON2 345 1	331.78	0.00%	7.70%	35.30%	20.13%	2.19%	2.22%	2.49%	2.05%	19.70%	TRIP
GOETHALS 230 LINDEN 230 1	336.23	0.00%	10.70%	15.08%	TRIP	0.93%	2.67%	2.79%	2.48%	8.37%	23.50%
NEPTCONV 345 NWBRG 345 1	661.09	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
SMAHWAH1 345 WALDWICK 345 1	-440.24	-0.09%	26.32%	16.15%	8.91%	88.85%	3.89%	4.29%	3.62%	O/S	24.62%
SMAHWAH2 345 WALDWICK 345 1	-560.51	0.09%	25.79%	15.44%	8.49%	TRIP	3.60%	3.95%	3.35%	TRIP	23.54%
STOLE345 345 26HOMER CY 345 1	135.78	13.82%	1.51%	0.49%	0.79%	0.12%	TRIP	2.46%	15.50%	1.06%	0.76%
WATRC345 345 26HOMER CY 345 1	0	0.00%	O/S	O/S	O/S	O/S	O/S	O/S	O/S	O/S	O/S
WATRC345 345 26MAINESBURG 345 1	234.2	24.07%	3.34%	1.06%	1.73%	0.26%	14.38%	23.23%	6.96%	2.38%	1.66%
HILSD230 230 26E.TWANDA 230 1	-164.48	21.95%	3.72%	1.03%	1.55%	0.24%	4.64%	TRIP	5.53%	2.20%	1.62%
S RIPLEY 230 26ERIE E 230 1	-159.23	19.78%	1.95%	0.63%	1.03%	0.15%	21.69%	4.11%	TRIP	1.39%	0.99%
FALCONER 115 26WARREN 115 1	5.44	6.28%	0.67%	0.21%	0.34%	0.05%	8.53%	2.00%	20.89%	0.46%	0.33%
N.WAV115 115 26E.SAYRE 115 1	-47.12	7.41%	1.24%	0.35%	0.53%	0.08%	1.77%	25.04%	1.77%	0.75%	0.55%
WESTOVER115 115 26LAUREL L 115 1	-68.17	6.70%	1.21%	0.34%	0.51%	0.08%	0.89%	9.21%	0.90%	0.73%	0.53%
CORPORATE DR 138 HCOR138 138 1	-88.98	-0.01%	0.02%	0.00%	-0.01%	0.04%	0.00%	0.00%	0.00%	0.01%	-0.01%
RAMP138 138 SMAH138 138 1	-116.9	-0.19%	0.53%	0.65%	0.38%	2.71%	0.27%	0.32%	0.25%	-0.33%	0.99%
SMAHWAH1 345 SMAH138 138 1	-175.86	0.27%	-0.55%	-0.89%	-0.54%	-3.36%	-0.38%	-0.46%	-0.36%	0.55%	-1.35%
BLUHILL 69.0 MONTVALE 69.0 1	5.42	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	5.42	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	-30.83	-0.14%	-0.01%	0.12%	0.06%	0.41%	0.11%	0.13%	0.10%	-0.13%	0.18%
SPARKILL 69.0 CRESSKIL 69.0 1	-14.19	0.01%	0.00%	0.02%	0.02%	0.02%	0.00%	0.00%	0.00%	-0.02%	0.03%
WNYA69 69.0 HCOR69 69.0 1	-7.2	0.05%	-0.01%	0.07%	0.06%	0.09%	0.00%	0.00%	0.00%	-0.06%	0.11%
L491T 69.0 MONTVALE 69.0 1	-46.45	0.01%	0.02%	0.04%	0.03%	0.10%	0.00%	0.00%	0.00%	-0.02%	0.05%
PEARL34 34.5 HCOR34 34.5 1	-0.38	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-0.01%
SUB-TOTALS		100.00%	94.03%	98.05%	96.82%	99.54%	74.55%	92.43%	72.52%	95.74%	96.95%
MICH-ON	1.22	0.00%	5.57%	1.82%	2.96%	0.44%	23.82%	7.07%	25.83%	3.97%	2.85%
TOTALS		100.00%	99.59%	99.87%	99.78%	99.97%	98.38%	99.50%	98.34%	99.71%	99.79%

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

Monitored Element	CENTRAL-EAST	ONT-NYISO	ONTARIO-MICH	PJM-NYISO	WEST-CENTRAL	BBURG-RAMAPO	MARCY-SOUTH	UTICA-ALBANY
Base Flow	2298.4	2.56	-1.16	586.69	412.18	379.5	1463.5	2085.45
DUM1	46.05%	0.00%	0.00%	-9.57%	81.39%	0.00%	22.99%	44.82%
DUM2	46.05%	0.00%	0.00%	-9.57%	81.39%	0.00%	22.99%	44.82%
NIAGARA	46.05%	0.00%	0.00%	-9.57%	81.39%	0.00%	22.99%	44.82%
HUNTLEY	45.86%	0.00%	0.00%	-9.95%	80.57%	0.00%	22.71%	44.61%
OSWEGO	50.74%	0.00%	0.00%	-1.19%	-2.17%	0.00%	29.96%	50.03%
GILBOA	1.51%	0.00%	0.00%	0.15%	0.27%	0.00%	1.31%	1.14%
BETH	-15.86%	0.00%	0.00%	-0.17%	-0.27%	0.00%	11.37%	-13.92%
ATHENS	-5.76%	0.00%	0.00%	-0.04%	-0.07%	0.00%	5.06%	-5.67%
ROSETON	0.28%	0.00%	0.00%	0.00%	0.00%	0.00%	-0.22%	0.26%
BOWLINE	1.31%	0.00%	0.00%	0.01%	0.02%	0.00%	-1.10%	1.26%
INDIANPT2	1.02%	0.00%	0.00%	0.01%	0.01%	0.00%	-0.86%	0.98%
BRAYTON	-8.47%	0.00%	0.00%	-0.09%	-0.15%	0.00%	6.43%	-7.84%
SBRK	-9.04%	0.00%	0.00%	-0.10%	-0.16%	0.00%	6.84%	-8.35%
LAMBTON	46.43%	100.00%	0.00%	-8.51%	83.52%	0.00%	23.55%	45.24%
BECK	46.43%	100.00%	0.00%	-8.51%	83.52%	0.00%	23.55%	45.24%
CONEMAUGH	41.64%	0.00%	0.00%	73.72%	39.21%	0.00%	16.52%	39.97%
SALEM	41.51%	0.00%	0.00%	75.07%	37.66%	0.00%	16.32%	39.82%
PORTLAND	41.44%	0.00%	0.00%	75.56%	36.86%	0.00%	16.22%	39.74%
EDDYSTONE	41.51%	0.00%	0.00%	75.10%	37.59%	0.00%	16.32%	39.82%
BRANDON	41.62%	0.00%	0.00%	74.50%	38.84%	0.00%	16.48%	39.94%
KARNS	41.77%	0.00%	0.00%	74.16%	40.53%	0.00%	16.71%	40.11%
ZEEL	41.77%	0.00%	0.00%	74.15%	40.52%	0.00%	16.70%	40.11%
BOWEN	41.73%	0.00%	0.00%	74.16%	40.14%	0.00%	16.65%	40.07%
BAYSHORE	41.79%	0.00%	0.00%	74.18%	40.76%	0.00%	16.74%	40.13%
MTSTORM	41.70%	0.00%	0.00%	74.16%	39.73%	0.00%	16.60%	40.03%
HATFIELD	41.71%	0.00%	0.00%	73.98%	39.87%	0.00%	16.61%	40.04%
NEWTON	41.75%	0.00%	0.00%	74.14%	40.33%	0.00%	16.68%	40.09%
HOPATCONG-RAMAPO	-8.17%	-5.98%	5.57%	9.31%	-6.59%	TRIP	-4.32%	-7.02%

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

Monitored Element	CENTRAL-EAST	ONT-NYISO	ONTARIO-MICH	PJM-NYISO	WEST-CENTRAL	BBURG-RAMAPO	MARCY-SOUTH	UTICA-ALBANY
Base Flow	2298.4	2.56	-1.16	586.69	412.18	379.5	1463.5	2085.45
DUM1	27.84%	-17.35%	16.24%	17.08%	48.89%	7.94%	13.91%	24.17%
DUM2	27.84%	-17.35%	16.24%	17.08%	48.89%	7.94%	13.91%	24.17%
NIAGARA	27.84%	-17.35%	16.24%	17.08%	48.89%	7.94%	13.91%	24.17%
HUNTLEY	27.28%	-17.84%	16.69%	17.39%	46.91%	8.27%	13.50%	23.64%
OSWEGO	39.57%	-9.71%	9.06%	13.62%	-14.38%	1.74%	23.16%	35.48%
GILBOA	-5.53%	-4.93%	4.60%	8.08%	-5.75%	-2.19%	-2.09%	-5.88%
BETH	-23.11%	-5.44%	5.07%	7.99%	-5.70%	-2.23%	8.51%	-18.43%
ATHENS	-11.29%	-4.03%	3.75%	6.19%	-4.47%	-3.38%	2.55%	-10.79%
ROSETON	-3.22%	-2.40%	2.23%	3.73%	-2.67%	-5.27%	-1.59%	-2.94%
BOWLINE	0.14%	-0.56%	0.52%	0.89%	-0.64%	-9.47%	-1.10%	0.09%
INDIANPT2	-0.24%	-0.63%	0.59%	1.00%	-0.72%	-8.41%	-0.92%	-0.23%
BRAYTON	-15.46%	-4.22%	3.93%	6.08%	-3.85%	-3.21%	5.08%	-9.23%
SBRK	-16.92%	-4.51%	4.20%	6.45%	-4.00%	-3.02%	5.74%	-9.43%
LAMBTON	21.79%	42.40%	56.91%	54.82%	24.48%	11.91%	10.32%	18.51%
BECK	28.33%	76.50%	22.01%	23.40%	45.93%	7.87%	14.32%	24.48%
CONEMAUGH	12.19%	8.94%	-8.35%	85.28%	10.77%	17.33%	4.52%	10.43%
SALEM	8.02%	5.70%	-5.31%	91.29%	6.24%	19.23%	2.57%	6.85%
PORTLAND	6.69%	4.02%	-3.75%	93.75%	4.42%	18.01%	1.88%	5.71%
EDDYSTONE	7.98%	5.60%	-5.22%	91.42%	6.14%	19.42%	2.54%	6.81%
BRANDON	11.23%	9.75%	-9.06%	85.94%	10.01%	17.83%	4.16%	9.60%
KARNS	17.27%	25.36%	-24.43%	70.40%	18.21%	14.40%	7.57%	14.71%
ZEEL	17.08%	24.67%	-23.66%	71.03%	17.94%	14.51%	7.46%	14.55%
BOWEN	14.66%	16.78%	-15.14%	78.41%	14.57%	15.86%	6.03%	12.51%
BAYSHORE	16.91%	23.27%	-22.59%	72.24%	17.77%	14.58%	7.34%	14.42%
MTSTORM	13.23%	12.79%	-11.89%	82.23%	12.57%	16.68%	5.20%	11.29%
HATFIELD	13.47%	12.50%	-11.65%	82.15%	12.79%	16.54%	5.29%	11.51%
NEWTON	15.42%	18.91%	-16.99%	76.35%	15.62%	15.43%	6.46%	13.15%
HOPATCONG-RAMAPO	-8.17%	-5.98%	5.57%	9.31%	-6.59%	TRIP	-4.32%	-7.02%