

## 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	-1090	-330	-660	-315	-320	-100	125	-2565
PJM	-35		0	0	0	0	0	660	315	320	0	-1943	-683
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	1090	0	1250	1725	600		0	0	0	0	0	45	4710

**APPENDIX A**  
**SUMMARY OF SUMMER 2016 BASE TRANSFERS**

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

<b>NEW ENGLAND</b>	
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
<b>Total Export (+) / Import (-)</b>	<b>-2185</b>

<b>NEW YORK ISO</b>	
New York to TransÉnergie	-1090
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	125
New York to IESO (Ontario)	0
<b>Total Export (+) / Import (-)</b>	<b>-2565</b>

**APPENDIX A**  
**SUMMARY OF SUMMER 2016 BASE TRANSFERS**

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

<b>PJM</b>	
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	-1943
<b>Total Export (+) / Import (-)</b>	<b>-683</b>

<b>TRANSÉNERGIE</b>	
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	1090
TransÉnergie to IESO (Ontario)	1250
TransÉnergie to Cornwall	45
<b>Total Export (+) / Import (-)</b>	<b>4710</b>

## A. SUMMER 2016 BASE CASE CONDITIONS

Summer 2016 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	0 MW	Retired
Dunkirk	0 MW	Mothballed
Niagara	2677 MW	In Service
AES/Somerset	676 MW	In Service
Ginna	581 MW	In Service
Sithe/Independence	900 MW	In Service
Oswego #5	619 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	835 MW	In Service
Maple Ridge Wind Farm	32 MW	In Service
St. Lawrence/FDR (17-32)	740 MW	In Service
Athens	666 MW	In Service
Bethlehem Energy Center	725 MW	In Service
Empire	560 MW	In Service
Gilboa	334 MW	In Service
Bowline Pt 1	558 MW	In Service
Bowline Pt 2	167 MW	In Service
Roseton 1	601 MW	In Service
Roseton 2	593 MW	In Service
Indian Pt #2	1020 MW	In Service
Indian Pt #3	1034 MW	In Service
Astoria Energy II	539 MW	In Service
Bayonne Energy Center	462 MW	In Service
ConEd Astoria Units (Astoria 3)	374 MW	In Service
NYPA Astoria Combined-Cycle	459 MW	In Service
Ravenswood #3	958 MW	In Service
ECP/Linden Cogen	446 MW	In Service
Arthur Kill #3	150 MW	In Service

Northport 1	240 MW	In Service
Northport 2	240 MW	In Service
Northport 3	240 MW	In Service
Northport 4	240 MW	In Service

**ISO-NE**

Millstone Point #2	933 MW	In Service
Millstone Point #3	1276 MW	In Service
Vermont Yankee	0 MW	Retired
Northfield 1, 2, 3 & 4	560 MW	In Service
Bear Swamp 1 & 2	220 MW	In Service
Norwalk Harbor 1 & 2	336 MW	In Service
Seabrook	1317 MW	In Service

**Ontario**

Beck 1	345 MW	In Service
Beck 2	795 MW	In Service
Thorold	200 MW	In Service
Decew Falls	126 MW	In Service
Bruce A	1200 MW	In Service
Bruce B	2521 MW	In Service
Darlington	3668 MW	In Service
Lambton	0 MW	Out of Service
Pickering A	519 MW	In Service
Pickering B	1537 MW	In Service
Nanticoke	0 MW	Out of Service
Saunders	690 MW	In Service

**PJM**

Peach Bottom #2	1173 MW	In Service
Peach Bottom #3	1219 MW	In Service
Salem #1	1156 MW	In Service
Salem #2	1153 MW	In Service
Limerick #1	1108 MW	In Service
Limerick #2	1116 MW	In Service
Hope Creek	1178 MW	In Service

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

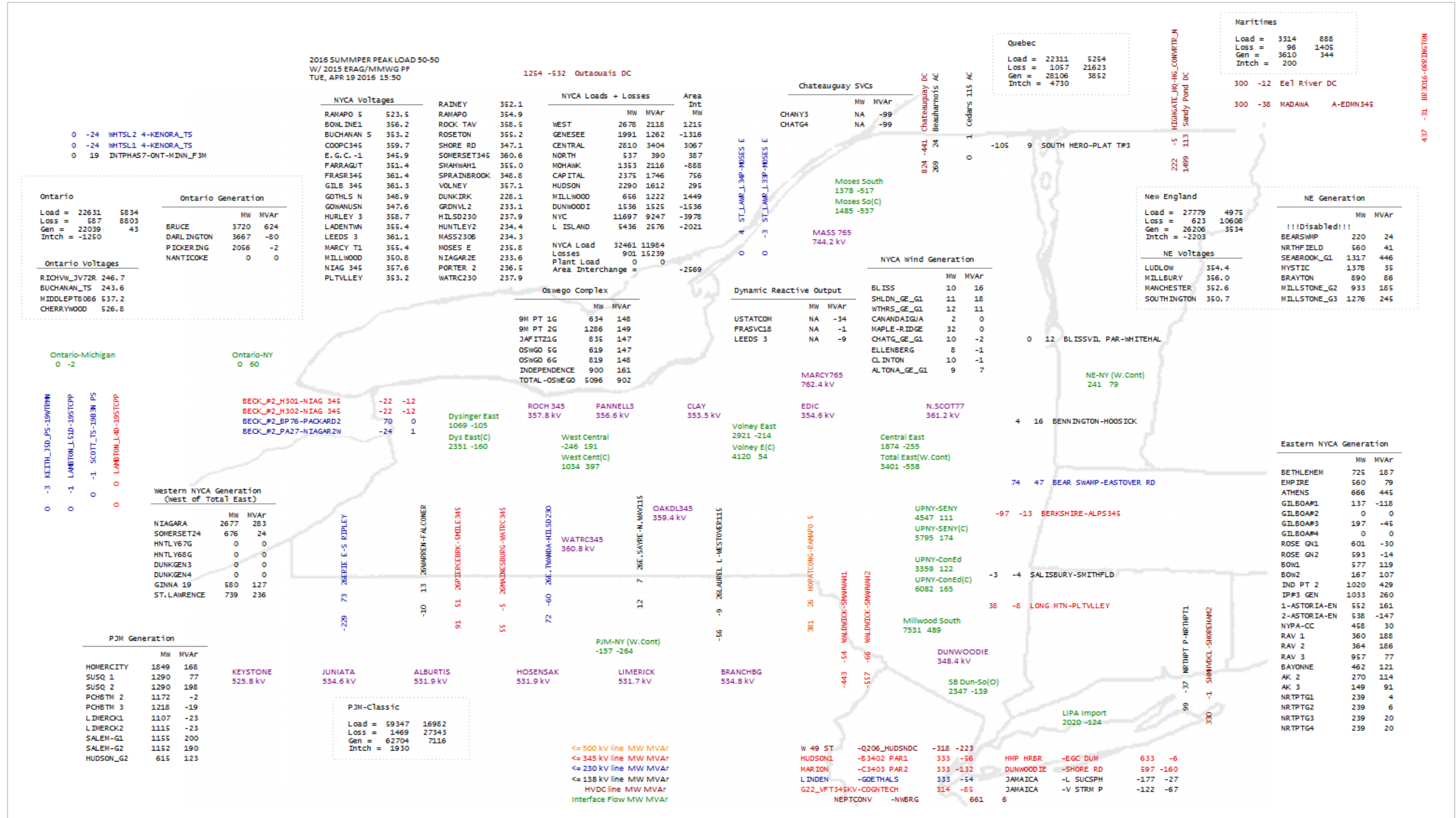
NYISO	33,360 MW
ISO-NE	28,402 MW
IESO (Ontario)	23,219 MW
PJM	60,343 MW

**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	-122 MW
Jamaica-Lake Success	-178 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	316 MW
East Garden City #2	316 MW

# B. POWER FLOW TRANSCRIPTION DIAGRAM

## SYSTEM OVERVIEW



## C. 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_230_115_BK 1	BK1	115	115	144	172	26697	0
ADIRNDCK-CHASLAKE_230_13	13	230	434	478	560	325233	104
ADIRNDCK-PORTER__230_12	12-AP	230	440	478	560	25082	128
ALBANY__-GREENBSH_115_1	1	115	186	208	237	25860	118
ALBANY__-GREENBSH_115_2	2	115	186	208	237	25868	118
ALBANY__-TRINITY__115_5	5	115	198	201	201	25861	103
ALBANY__-TRINITY__115_9	9	115	147	178	258	25872	110
ALCOA__-DENNISON_115_12	12-AD	115	175	202	222	25227	27
ALCOA__-NOGDNBRG_115_13	13-ANO	115	128	147	159	25230	24
ALCOA_PA-ALCOA__115_R8105	R8105	115	206	247	310	25202	32
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	16
AMERISTD-GARDNVLB_115_182-3	182-3	115	129	182	236	26015	79
ANDOVER_-PALMITER_115_157-932	157_932	115	79	101	119	25094	0
ARCADE__-MACHIAS__115_167	151	115	129	148	160	326168	10
ARSENAL_-REYNOLDS_115_31	31	115	128	147	159	26423	70
ASH_____-TEMPLE__115_9	9	115	207	233	233	26062	9
ASHLEYRD-MASONCR__115_909	909	115	155	179	193	25847	13
ASHLEYRD-PLATSBRG_115_700	700	115	174	179	220	25845	17
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	227
ASTANNEX-E13THSTA_345_Q35M	Q35M	345	499	741	1476	25142	235
ASTORIAE-ASTORIA3_138_34123	34123	138	271	311	400	25876	133
ASTORIAE-CORONA__138_34181	34181	138	174	235	368	25277	146
ASTORIAE-CORONA__138_34182	34182	138	174	235	368	25278	141
ASTORIAE-CORONA__138_34183	34183	138	174	235	368	25279	146
ASTORIAE-CORONA__138_34184	34184	138	174	235	368	25280	137
ASTORIAE-CORONA__138_34185	34185	138	174	235	368	25281	130
ASTORIAE-CORONA__138_34186	34186	138	174	235	368	25282	132
ASTORIAW-QUENBRDG_138_28241	28241	138	174	235	368	25315	106
ASTORIAW-QUENBRDG_138_28242	28242	138	174	235	368	25316	109
ASTORIAW-QUENBRDG_138_28243	28243	138	348	469	688	25317	199
ASTORIAW-QUENBRDG_138_28244	28244	138	363	525	688	25318	229
ATHENS__-PLSNTVLY_345_91	91	345	1331	1538	1724	25054	898
BAGATLRD-PILGRIM__138_564	564	138	487	543	623	325607	42
BAKER_ST-FALCONER_115_160	160-3	115	176	197	239	26513	20
BALLSTON-TAPBLSTN_115_302	302	115	116	120	145	325897	54
BARRETT__138_69__BK 1	BK 1	138	112	139	156	26600	90
BARRETT__138A_138B_PAR	B_PAR	138	209	261	313	25590	105
BARRETT_-FREEPORT_138_459	459	138	166	261	313	26425	105
BATAVIA_-SEBATVIA_115_117	117	115	220	239	239	26017	32



EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
BATH____-MONTRFL_115_965	965	115	124	139	149	26163	19
BATH____-SPENCHIL_115_723	723	115	124	139	159	325797	18
BATNKILL-EASTOVER_115_10	10	115	186	214	237	26474	93
BATTHILL-PYRITES_115_7	7-BHP	115	76	87	94	26065	16
BEAR SWP-EASTOVER_230_E205W	E205W	230	440	505	555	25030	75
BECK NM_-SWANROAD_115_BL104	BL 104	115	168	181	199	25042	0
BECK____-NIAGARA_230_PA27	PA27	230	400	460	558	25025	24
BECK____-NIAGARA_345_PA301	PA301	345	1070	1322	1714	25040	22
BECK____-NIAGARA_345_PA302	PA302	345	1070	1322	1714	25041	22
BECK____-PACKARD_230_BP76	BP76	230	500	587	588	25024	71
BENNETT_-MORAIN_115_725	725	115	125	152	179	325858	42
BENNETT_-SPENCHIL_115_953	953	115	124	139	159	26164	12
BERKSHIR-ALPS____345_393	393	345	1463	1697	1912	25034	97
BERKSHIR-NORTHFLD_345_312	312	345	1345	1345	1793	25366	47
BERRY_RD-BAKER_ST_115_160	160-2	115	193	213	240	26512	5
BETHLHEM-ALBANY__115_18	18-BA	115	329	369	423	26119	113
BIGTREE_-DAVIS_RD_115_904	904	115	139	163	183	25162	16
BIGTREE_-LANGNERD_115_903	903	115	139	163	183	326050	72
BLACKRVR-CLIMAX__115_1	1-BC	115	116	120	145	26067	29
BLACKRVR-EWATRWN_115_5	5	115	116	120	145	325771	26
BLACKRVR-FORTDRUM_115_2	2-BF	115	116	120	145	26068	34
BLACKRVR-GLENPARK_115_3	3	115	119	119	119	325315	31
BLACKRVR-LIGHTHSE_115_6	6	115	116	120	145	25506	7
BLISSVIL-WHITEHAL_115_K7	K7	115	187	217	229	25028	0
BLUESTOR-LAFARGE__115_8	8	115	116	120	145	326091	48
BLUESTOR-PLSTVYCH_115_13-987	13-987	115	129	158	192	25505	44
BLUESTOR-PLSTVYCH_115_8	8	115	116	120	145	25498	47
BNNINGTN-HOOSICK__115_K6	K6	115	150	217	239	25029	5
BNVLMUNI-PORTER__115_2	2	115	107	107	107	325778	7
BOONVLE-BNVLMUNI_115_2	2	115	96	96	96	26073	14
BOONVLE-PORTER__115_1	1-BP	115	100	100	100	26074	4
BOONVLE-ROME____115_3	3-BR	115	116	120	145	26071	34
BOONVLE-ROME____115_4	4-BR	115	105	114	134	26072	40
BORDRCTY-GUARDIAN_115_969	969	115	176	179	179	325283	96
BOWLINE__345_138_BK455	BK455	345	506	587	671	25664	215
BOWLINE_-WHAVSTRW_345_67-1	67-1	345	687	747	747	25567	576
BOWLINOR-CONGERS__138_561	561	138	317	363	383	26723	186
BRIGHAM_-LUDLUM_B_115_161	161-2	115	168	185	206	26020	36
BRISTLHL-CLAY____115_4	4	115	105	107	107	25518	43
BRISTLHL-S.OSWEGO_115_4	4	115	105	114	134	25512	41
BROOK_RD-SMITHBRD_115_2	2	115	220	253	280	325901	29
BROOK_RD-SMITHBRD_115_302	302	115	220	253	280	325902	19
BROOK_RD-TAPBROOK_115_2	2	115	220	253	280	325899	61
BROOK_RD-TAPBROOK_115_302	302	115	220	253	280	325900	36
BROOKHVN_138_69__BK 1	BK 1	138	227	263	302	26548	106
BROOKHVN_138_69__BK 2	BK 2	138	227	263	302	325152	98
BROOKHVN-EDWARDAV_138_864	864	138	308	481	555	25553	134
BROOKHVN-SILLSRD__138_874	874	138	487	543	623	325617	135

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
BROOKHVN-SILLSRD__138_887	887	138	390	435	498	325619	135
BROOKHVN-WILDWOOD_138_861	861	138	434	480	586	325932	68
BROWNFLS-HIGLEY__115_1	1-BH	115	102	122	135	26078	27
BROWNFLS-TAYLORVL_115_3	3-BT	115	102	120	129	26076	32
BROWNFLS-TAYLORVL_115_4	4-BT	115	105	114	126	26077	32
BUCHAN_N_345_138_BK TA5	BK TA5	345	195	272	343	25425	0
BUCHAN_N-BUCHANAN_138_95891	95891	138	225	273	345	25568	111
BUCHAN_N-EASTVIEW_345_W93	W93	345	1722	1894	2404	25133	904
BUCHAN_S-MILLWOOD_345_W97	W97	345	1490	1664	1876	25146	655
BUCHAN_S-MILLWOOD_345_W98	W98	345	1490	1664	1876	25247	655
BUCHANAN-MILLWOOD_138_96951	96951	138	275	302	383	25283	22
BUCHANAN-MILLWOOD_138_96952	96952	138	275	302	383	25284	22
BUFAL129-MAPLE140_115_38	38	115	145	151	185	326159	97
BUFAL129-MAPLE140_115_39	39	115	145	151	185	326160	95
BUFALO54-BUFALO61_115_38	38	115	187	215	236	326155	74
BUFALO54-BUFALO61_115_39	39	115	174	181	226	326156	72
BUFALO61-URBAN154_115_38	38	115	174	181	226	326153	69
BUFALO61-URBAN154_115_39	39	115	174	181	226	326154	66
BULYMO__-BOONVLLLE_115_6	6	115	116	120	124	325265	51
BURDECK_-ALTAMONT_115_17	17-BA	115	116	120	145	26151	63
BURDECK_-VORHVSLE_115_19	19-BV	115	116	120	145	26152	71
BURNS__138_69__BK 519	BK 519	138	208	258	284	25889	86
BURNS__-CORPDRIV_138_702	702	138	189	217	226	325812	111
BURNS__-N.HEMPST_138_531	531	138	236	270	285	25878	19
BURNS__-WHAVSTOR_138_541	541	138	236	270	285	25879	87
BUTLER__-MOHICAN__115_18	18	115	116	120	145	26434	22
C._ISLIP_138_69__BK 3	BK 3	138	228	263	302	26519	117
C._ISLIP-RONKOKMA_138_883	883	138	380	538	617	26497	81
C_BATNKILL-MULTP-10_115_10	10	115	182	197	237	26121	20
CANAL__-RIVRHEAD_138_910	910	138	227	263	302	325242	149
CANANDGA-STONYRDG_230_68	68	230	498	534	566	25176	64
CARD____-MILSTONE_345_383	383	345	1488	1912	2097	25332	169
CARMEL__-CROTONFL_115_991	991	115	215	247	275	26155	99
CARMEL__-WOODSTNY_115_992	992	115	215	247	275	325278	0
CARR_ST_-BM_CC_GM_115_6	6	115	187	213	236	325216	98
CARR_ST_-DEWITT__115_15	15-CD	115	187	213	236	26093	12
CARRSCRN-SALAMANC_115_153	153	115	128	147	159	326163	20
CARRSCRN-SALAMANC_115_154	154	115	128	147	159	326165	24
CASTLEGD-FULLRHLW_115_937	937	115	149	149	149	325222	9
CATON__-HILLSIDE_115_960	960	115	102	113	120	325290	35
CAVANARD-PORTER__115_7	7	115	116	120	145	325214	55
CEDAR__-WHITEHAL_115_6	6	115	116	120	145	26516	17
CHADWICK-E.WALDEN_115_DW	DW-3	115	176	211	240	26218	37
CHADWICK-WBALMVLE_115_DW	DW-2	115	175	193	220	26217	1
CHASLAKE-PORTER__230_11	11	230	440	505	516	25051	134
CHAT_TAP-LYON_MTN_115_1(911)	911	115	135	159	175	325704	28
CHATEAUG-CHAT_TAP_115_911	911	115	135	159	175	325705	9
CHATGUAY-MASSENA__765_7040	7040	765	3975	3975	5300	25301	1090

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
CHEMUNG -NWAVERLY_115_962	962	115	111	131	143	325289	21
CHESTROR-SUGRLOAF_138_271	271	138	236	270	285	325424	42
CHRCHTWN-BLUESTOR_115_13-987	13	115	175	179	179	26685	56
CHRCHTWN-CRARYVIL_115_984	984	115	113	144	173	26500	22
CHRCHTWN-SCHODACK_115_14-984	14/984	115	175	196	196	26126	77
CHURCH_S-ROTRDAM_115_10	10-AR	115	89	89	89	26428	25
CLAY____345_115_BK 1	BK 1	345	455	606	794	25387	231
CLAY____345_115_BK 2	BK 2	345	478	637	794	25421	234
CLAY____-DEWITT____115_3	3-CD	115	116	120	139	25519	68
CLAY____-DEWITT____115_5	5-CD	115	193	213	240	25522	54
CLAY____-DEWITT____345_13	13	345	1109	1344	1529	25168	484
CLAY____-EDIC____345_1-16	42370	345	1301	1501	1685	25200	489
CLAY____-EDIC____345_2-15	42036	345	1301	1501	1685	25169	491
CLAY____-HOPKINS_115_11	11	115	220	252	280	25516	124
CLAY____-INDPDNCE_345_26	26	345	1670	1931	2210	25858	901
CLAY____-TEALLAVE_115_10	10-CT	115	116	120	145	25520	80
CLAY____-WETZEL____115_14	14-CG	115	220	252	280	25517	76
CLAY____-WOODARD_115_17	17	115	220	226	230	25515	87
CLIMAX__-TAYLORVL_115_8	8-CT	115	105	114	134	26431	16
CLINTON__-IMC_TAP__115_15	15-CI	115	116	120	145	26128	15
CLRKSCRN_345_115_BK1	BK1	345	235	255	295	325724	37
CLRKSCRN_345_115_BK2	BK2	345	235	255	295	325725	37
CLRKSCRN-OAKDALE__345_36	36	345	1207	1327	1590	325726	690
CLYDE____115_34_TR1	TR1	115	125	143	154	25221	21
CLYDE____-STATE_ST_115_3-971	971	115	120	146	159	68810	15
COBBLENM-COBBLENY_115_BK 1	BK 1	115	40	41	45	25426	15
COBBLENM-SPRINGVL_115_151	151	115	129	148	160	326166	25
COBBLENM-SPRINGVL_115_152	152	115	129	148	160	326170	17
CODNIGTN-E.ITHACA_115_981	981-1	115	108	128	143	25730	35
CODNIGTN-ETNA____115_998	998	115	227	253	283	25734	71
COFFEEN__-EWATRWN_115_5	5	115	119	119	119	325769	24
COFFEEN__-GLENPARK_115_3	3-CG	115	119	119	119	26069	52
COLDENHM-ROCKTVRN_115_J	J	115	232	257	304	26420	20
COLDSPRG-CARRSCRN_115_905	905	115	36	40	42	26440	12
COLLIERS-RICHFELD_115_929	929	115	125	152	215	26169	7
COLTON__-FLATROCK_115_2	2-CF	115	114	123	142	26088	28
COLTON__-HIGLEY____115_1	1-HC	115	128	147	159	26087	30
COLTON__-TOWNLINE_115_9	9	115	119	119	119	325641	65
COMSTKNM-MOHICAN__115_13	13-MW	115	116	120	145	26484	35
CONGERS__-SNKEHLRD_138_563	562	138	317	363	383	25887	145
COOPERNY-FERNDAL_115_950	950	115	176	179	179	26171	54
COOPERNY-ROCKHILL_115_957	957	115	108	120	120	325614	36
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	71
COOPERS__-MIDDLETP_345_CMT-34	CMT-34	345	1464	1793	1793	25110	765
COOPERS__-ROCKTVRN_345_CRT-42	CRT-42	345	1704	1793	1793	25111	677
CORONA__138A_138B_BK R1	B_BK R1	138	181	253	319	25621	0
CORONA__138A_138C_BK R2	C_BK R2	138	181	253	319	25622	0

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
CORONA__-JAMAICA_138_18001	18001	138	143	212	357	25285	0
CORONA__-JAMAICA_138_18002	18002	138	143	212	357	25286	0
CORPDRIV-HARNGCRN_138_703	703	138	189	222	250	25881	88
CORTLAND-FENERWND_115_3	3	115	125	143	154	325248	3
CORTLAND-TILDEN__115_18	18	115	176	208	236	26089	46
CORTLAND-TULLERHL_115_1-716	1	115	128	147	159	25059	10
CURRY_RD-WOLF_RD__115_8	8	115	116	120	145	26254	35
CURTPALM-EJWEST__115_9	9	115	128	147	159	326146	10
DALEROAD-GARDNVLB_115_39	39	115	129	181	206	26036	61
DANSKAMR-CHADWICK_115_DW	DW-1	115	183	248	279	26219	38
DANSKAMR-MARLBORO_115_DB	DB	115	183	215	237	26221	57
DANSKAMR-NCHELSEA_115_AC	AC	115	183	211	295	25829	154
DANSKAMR-NCHELSEA_115_DC	DC	115	178	199	295	25830	160
DANSKAMR-RYNDLS_HL_115_DR	DR	115	183	248	279	25831	39
DAVIS_RD-STOLLERD_115_927	927	115	203	226	239	26172	9
DEERFLD_-SCOBIE__345_373	373	345	1373	1373	1373	26383	622
DELEMTER-LAKEVIEU_115_141	141	115	88	101	108	325873	31
DELEMTER-LAKEVIEU_115_142	142	115	88	101	108	325880	44
DELHI__-DELHI_TP_115_951	951-1	115	164	164	164	26174	53
DELHI__-GR.GORGE_115_916	916	115	90	90	90	26479	12
DELHI__-VINGR_TP_115_917_916	917-916	115	120	120	120	25911	20
DELHI_TP-COLLIERS_115_951	951-2	115	227	239	239	26203	50
DENNISON-LAWRNCAV_115_4	4	115	220	252	280	25225	15
DENNISON-LAWRNCAV_115_5	5	115	220	252	280	25226	14
DENNISON-ROSEMNTA_115_1/11	1-RD	115	176	203	223	25523	2
DENNISON-ROSEMNTB_115_2/22	2-RD	115	176	203	223	25524	2
DEPEW_TP-DEPEW__115_BK 1	BK 1	115	108	120	120	25428	13
DEPEW_TP-ERIE_ST_115_54-921	921	115	120	120	120	26010	35
DEWITT__345_115_BK 2	BK 2	345	517	658	794	25418	227
DEWITT__-TEALLAVE_115_4	4-DT	115	116	120	145	26094	55
DULEY__-PATNODE__230_PND-1	PND-1	230	434	500	562	325856	90
DULEY__-PLATSBRG_230_DP-1	DP-1	230	249	277	318	25272	99
DUNKIRK__230_115_BK 31	BK 31	230	139	197	248	25386	42
DUNKIRK__230_115_BK 41	BK 41	230	133	190	248	25430	42
DUNKIRK_-BERRY_RD_115_160	160-1	115	193	213	239	26025	33
DUNKIRK_-BRIGHAM_115_161	161-1	115	168	181	206	26021	40
DUNKIRK_-LUDLUM_A_115_162	162-1	115	168	181	206	26027	33
DUNKIRK_-SILVRCRK_115_141	141	115	88	101	108	26026	15
DUNKIRK_-SILVRCRK_115_142	142	115	107	117	123	26018	17
DUNWODIE_138__138__BK N1	BK N1	138	315	375	433	25624	114
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	180
DUNWODIE-DUNWODIE_138_99997 TIE	99997	138	205	255	311	25532	3
DUNWODIE-E179THST_138_99153	99153	138	233	348	617	25287	180
DUNWODIE-MOTTHAVN_345_71	71	345	707	833	1298	25151	224
DUNWODIE-MOTTHAVN_345_72	72	345	707	833	1298	25191	222
DUNWODIE-SHERMCRK_138_99031	99031	138	139	187	303	25193	114
DUNWODIE-SHERMCRK_138_99032	99032	138	189	288	393	25239	115

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
DUNWODIE-SHORE_RD_345_Y50	Y50	345	653	914	1436	25091	597
DUNWOODN_345_138_BK N1	BK N1	345	411	494	554	25209	0
DUNWOODS_345_138_BK S1	BK S1	345	310	387	424	25208	274
E.ITHACA-ETNA_____115_981	981-2	115	84	101	143	25733	76
E.SAYRE_-NWAVERLY_115_956	956	115	108	128	143	25013	13
E.TWANDA-HILLSIDE_230_70	70	230	483	531	617	25014	72
E.WALDEN_115_69__TR_3	TR_3	115	52	69	81	26681	21
E.WALDEN-COLDENHM_115_CW	CW	115	232	257	304	26225	12
E.WALDEN-MODENA___115_EM	EM	115	232	257	304	25832	1
E.WALDEN-ROCKTVRN_115_D	D	115	233	265	312	26226	10
E13THSTA_345_138_BK 10	BK 10	138	251	280	305	25467	134
E13THSTA_345_138_BK 11	BK 11	138	273	288	315	25468	120
E13THSTA_345_138_BK 12	BK 12	138	273	288	315	25463	128
E13THSTA_345_138_BK 13	BK 13	138	258	320	368	25464	105
E13THSTA_345_138_BK 14	BK 14	138	251	280	305	25465	103
E13THSTA_345_138_BK 15	BK 15	138	274	312	343	25466	131
E13THSTA_345_138_BK 16	BK 16	138	270	304	338	25469	131
E13THSTA-FARRAGUT_345_45	45	345	745	913	1339	25190	297
E13THSTA-FARRAGUT_345_46	46	345	760	927	1350	25251	399
E13THSTA-FARRAGUT_345_48	48	345	554	740	1150	25252	20
E13THSTA-FARRAGUT_345_B47	B47	345	358	645	1011	25177	7
E179THST-HELLGT_E_138_15053	15053	138	165	229	364	25289	19
E179THST-HELLGT_E_138_15054	15054	138	165	229	364	25290	19
E179THST-HELLTP_W_138_15055	15055	138	210	301	384	25288	142
E179THST-PARKCHTR_138_38X01	38X01	138	169	288	501	25327	13
E179THST-PARKCHTR_138_38X02	38X02	138	169	288	501	25328	13
E179THST-PARKCHTR_138_38X03	38X03	138	169	288	501	25329	14
E179THST-PARKCHTR_138_38X04	38X04	138	169	288	501	25330	14
EASTOVER_230_115_TR 1	TR 1	230	381	494	597	326097	73
EASTRIVR_138_69__BK 111	BK 111	138	76	108	159	25526	10
EASTRIVR_138_69__BK 112	BK 112	138	76	108	159	25527	10
EASTRIVR_138_69__BK 113	BK 113	138	76	108	159	25528	10
EASTRIVR_138_69__BK 114	BK 114	138	76	108	159	25529	10
EASTVIEW_345_138_BK 1N	BK 1N	138	370	424	424	25472	194
EASTVIEW_345_138_BK 1S	BK 1S	138	370	424	424	25373	200
EASTVIEW_345_138_BK 2N	BK 2N	138	370	424	424	25471	201
EASTVIEW_345_138_BK 2S	BK 2S	138	370	424	424	25470	193
EASTVIEW-SPRNBK__345_W64	W64	345	2296	2658	3202	25143	700
EASTVIEW-SPRNBK__345_W65	W65	345	1720	2215	2657	25144	640
EASTVIEW-SPRNBK__345_W78	W78	345	2296	2658	3202	25346	600
EASTVIEW-SPRNBK__345_W79	W79	345	1720	2215	2657	25153	597
EBATAVIA-GOLAH_____115_119	119	115	129	160	173	26012	3
EDIC_____-FRASER____345_EF24-40	EF24-40	345	1793	1793	1793	25112	0
EDIC_____-N.SCTLND_345_14	14	345	1331	1538	1724	25170	587
EDIC_PTR_230_115_BK 1P	BK 1P	230	269	320	338	25389	31
EDIC_PTR_230_115_BK 2P	BK 2P	230	269	320	338	25423	31
EDIC_PTR_345_115_BK 3E	BK 3E	345	455	539	679	25424	184
EDIC_PTR_345_115_BK 4E	BK 4E	345	505	629	794	25454	184

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
EDIC_PTR_345_230_BK 2E	BK 2E	230	479	562	683	25422	248
EDWARDAV-RIVRHEAD_138_893	893	138	257	297	332	325654	116
EELPOTRD-MEYER___115_968	968	115	108	128	143	325288	22
EFISHKCH_345_115_BK 1	BK 1	345	412	497	530	25724	75
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	75
EFISHKIL-WOOD_ST__345_F38	F38	345	1839	2520	3202	25367	767
EFISHKIL-WOOD_ST__345_F39	F39	345	1839	2520	3202	25368	852
EGRDNCTY_138_69__BK 1	BK 1	138	227	263	302	26652	110
EGRDNCTY_345_138_BK 1	BK 1	345	444	513	641	25551	316
EGRDNCTY_345_138_BK 2	BK 2	345	444	513	641	25552	316
EGRDNCTY_345C_345A_PAR1	A_PAR1	345	444	599	787	25678	316
EGRDNCTY_345C_345B_PAR2	B_PAR2	345	444	599	787	25679	316
EGRDNCTY-CARLPLCE_138_361	361	138	257	297	332	25533	49
EGRDNCTY-EGRDNCTR_345_Y49_ST	Y49_ST	345	637	900	1329	325158	632
EGRDNCTY-NEWBRDGE_138_462	462	138	200	281	493	25303	61
EGRDNCTY-NEWBRDGE_138_463	463	138	200	294	418	25304	61
EGRDNCTY-NEWBRDGE_138_465	465	138	216	311	424	25535	70
EGRDNCTY-ROSLYN___138_362	362	138	257	297	332	25534	3
EJWEST__-SCOFDRD_115_9	9	115	193	213	240	326147	43
EKINGSTN-RHINEBCK_115_ER	ER	115	175	193	220	26222	28
ELBRIDGE_345_115_BK 1	BK 1	345	470	557	717	25448	274
ELBRIDGE-GRS_LOCK_115_19	19-EG	115	116	120	145	26097	0
ELBRIDGE-GRS_LOCK_115_3	3	115	143	143	143	26098	3
ELBRIDGE-HYATT___115_15-979	15-EH	115	129	148	160	25109	73
ELBRIDGE-LAFAYTTE_345_17-LE	17-LE	345	940	1517	1830	25149	522
ELBRIDGE-MILTON_C_115_18	18-EM	115	129	136	136	26095	8
ELBRIDGE-STATE_ST_115_5-972	5_972	115	120	144	156	25107	95
ELM_ST__-SENECA___230_71	71	230	223	254	262	26426	30
ELM_ST__-SENECA___230_72	72	230	223	254	262	26427	30
ELWOOD___138_69__BK 3	BK3	138	108	133	156	26540	69
ENDICOTT-RANGEHL__115_920	920	115	149	149	149	26158	20
ENDICOTT-ROBBLEAV_115_948	948	115	249	254	254	26159	41
ENORWICH-CTYLINE__115_918	918	115	108	120	120	325280	38
ENORWICH-JENNISON_115_946	946	115	80	110	131	25729	15
ERIE E__-S.RIPLEY_230_69	69	230	488	607	637	25016	230
ERIE_ST_-PAVNMTRD_115_926	926	115	215	240	269	26175	30
ETNA___-CLRKSCRN_115_715	715	115	242	255	295	325728	32
ETNA___-CLRKSCRN_115_947	947	115	242	255	295	325727	32
ETNA___-WILLET___115_945	945-2	115	125	149	156	25731	83
FAIRFIEL-INGHAM_C_115_3	3	115	116	120	145	26106	58
FAIRPORT-ELBRIDGE_115_2	2	115	145	151	185	26099	31
FAIRPORT-HOOK_TAP_115_1	1	115	145	151	157	26327	8
FALCONER-SOUTHADOW_115_153	153	115	129	148	160	26033	13
FALCONER-SOUTHADOW_115_154	154	115	129	148	160	26032	5
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	40
FARMGTN__115_34__BK 2	BK 2	115	57	68	95	70258	26

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
FARMGTN_-BORDRCTY_115_4-977	977	115	150	177	193	25057	75
FARMGTN_-HAMLTNM_115_7-983	7-HF	115	145	151	185	26101	47
FARRAGUT_345A_138C_BK 9X	BK 9X	345	110	155	195	25636	74
FARRAGUT_345A_138D_BK 10X	BK 10X	345	110	155	195	25637	74
FARRAGUT_345B_345A_TR11	TR11	345	497	705	930	25044	333
FARRAGUT_345C_345A_TR12	TR12	345	503	699	930	25043	333
FARRAGUT-GOWANUS__345_41	41	345	630	829	1301	25141	417
FARRAGUT-GOWANUS__345_42	42	345	630	829	1301	25140	417
FARRAGUT-HUDS_AVE_138_32077	32077	138	106	106	106	25291	74
FARRAGUT-HUDS_AVE_138_32078	32078	138	114	169	194	25292	74
FARRAGUT-HUDS_AVE_138_32711	32711	138	108	144	159	25293	74
FENERWND-ONEIDA__115_8	8	115	146	157	159	25894	5
FERNDAL- WWDBURNY_115_959	959	115	90	90	90	26180	19
FEURABSH-GREENBSH_115_17	17	115	176	197	248	25862	41
FEURABSH-NCATSKLL_115_2	2-FN	115	116	120	145	25067	0
FISHKPLN-EFISHKIL_115_HF	HF	115	198	230	260	26227	38
FISHKPLN-SYLVANLK_115_FP/990	FP	115	203	226	239	25066	122
FITZPTRK-EDIC__345_FE-1	FE-1	345	1434	1434	1661	25077	751
FIVE_MIL-VALLEY44_115_152	152	115	129	148	160	326174	5
FIVE_MIL-VALLEY44_115_167	167	115	129	148	160	326173	1
FIVEMILE_345_115_TR1	TR1	345	538	597	597	326175	64
FIVEMILE-STOLLERD_345_29	29	345	639	769	840	326176	28
FLATROCK-BROWNFLS_115_2	2-FBF	115	102	122	135	26079	30
FLATSTR_-EELPOTRD_115_968	968	115	108	128	143	325287	5
FORGEBRK-MERTPARK_115_WF	WF	115	194	214	240	26229	71
FORTDRUM-DEFERIET_115_2-FD	2-FD	115	116	120	145	26091	10
FORTDRUM-TAYLORVL_115_2	2-DT	115	102	114	134	26090	3
FOXHILLS-WILLWBRK_138_29211	29211-1	138	182	262	439	25771	110
FOXHILLS-WILLWBRK_138_29212	29212-1	138	182	262	439	25772	95
FRASANX-COOPERS__345_UCC2-41	UCC2-41	345	1345	1345	1434	326221	724
FRASER__345_115_BK 2	BK 2	345	305	386	420	25391	103
FRASER__-COOPERS__345_33	33	345	1207	1404	1703	25236	0
FRASER__-GILBOA__345_GF5-35	GF5-35	345	1428	1605	1793	25060	169
FRASERNY-DELHI_TP_115_951	951-3	115	227	239	239	26202	103
FREEPOR-NEWBRDGE_138_461	461	138	209	278	467	25155	166
FRESHKLS_138C_138A_R1 _ 21191	21191	138	275	387	486	25639	214
FRESHKLS_138C_138B_R2 _ 21192	21192	138	272	372	439	25640	214
FRESHKLS_345_138_TA 1	TA 1	138	275	387	486	25457	215
FRESHKLS_345_138_TB 1	TB 1	138	272	372	440	25458	215
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	189
FROST_BR-SOUTHNGT_345_329	329	345	1240	1446	1601	25364	427
FTZPK_NM-LIGHTHSE_115_3	3-FLH	115	116	119	145	25502	23
FULLRHWL-MORGANRD_115_937	937	115	149	149	149	325223	4
GARDNVLA_115_1__BK6S	BK6	115	313	320	337	325885	71
GARDNVLA_115_1__BK7S	BK7	115	202	202	202	325886	58
GARDNVLA_230_1__BK6P	BK6P	230	304	387	420	25405	107
GARDNVLA_230_1__BK7P	BK7P	230	202	253	300	25435	90

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
GARDNVLA-GIRDLERD_115_705	705	115	215	239	239	25116	54
GARDNVLA-LANGNERD_115_903	903	115	139	163	183	325284	92
GARDNVLA-STOLLERD_230_66	66	230	474	478	478	25180	180
GARDNVLB_230_115_BK 2	BK 2	230	258	280	354	25385	87
GARDNVLB_230_115_BK 3	BK 3	230	141	182	250	25416	58
GARDNVLB_230_115_BK 4	BK 4	230	141	183	250	25417	58
GARDNVLB-BETHWEST_115_149	149	115	200	217	260	325317	16
GARDNVLB-BETHWEST_115_150	150	115	200	217	260	325318	6
GARDNVLB-CLVRBANK_115_141	141	115	88	101	107	26038	51
GARDNVLB-CLVRBANK_115_142	142	115	88	101	108	26037	52
GARDNVLB-COBBLENM_115_151	151	115	187	199	199	26040	25
GARDNVLB-COBBLENM_115_152	152-1	115	187	199	199	26023	33
GARDNVLB-DUNKIRK__230_73	73	230	556	584	601	25166	158
GARDNVLB-DUNKIRK__230_74	74	230	505	505	505	25197	159
GARDNVLB-GARDNVLA_115_T1012	T1012	115	320	343	365	25085	17
GARDNVLB-GARDNVLA_230_T8-12	T8-12	230	636	739	773	25089	17
GARDNVLB-WALDEN__115_54-921	54-1	115	129	181	206	26035	19
GE_R_D__-GROOMS__115_20_15	20_15	115	200	217	260	26266	25
GILBOA__-LEEDS__345_GL3	GL3	345	1428	1605	1971	25219	483
GILBOA__-N.SCTLND_345_GNS-1	GNS-1	345	1428	1605	1868	25052	17
GINNA__-PANNELRG_115_912	912	115	207	247	285	25260	36
GINNA__-S124__115_913	913	115	251	301	392	26281	151
GINNA__-STA_135__115_909	909	115	226	249	269	325837	74
GINNA__-STA_135__115_937	937	115	226	249	269	325838	74
GINNA__-STA_204__115_908	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	21
GLENWD__138_69__BK 5	BK 5	138	112	138	156	25735	94
GLENWD__138_69__BK 6	BK 6	138	112	138	156	70637	93
GLENWDGT-ROSLYN__138_364	364	138	291	321	372	25556	46
GLENWOOD-CARLPLCE_138_363	363	138	291	321	372	25554	27
GLENWOOD-GLENWDGT_138_366	366	138	291	321	372	25555	57
GOETHALS_345A_345B_BK 1N	BK 1N	345	499	699	880	25641	333
GOETHALS-FRESHKLS_345_21	21	345	919	1006	1286	25138	140
GOETHALS-FRESHKLS_345_22	22	345	981	1390	1602	25137	140
GOETHALS-LINDN_CG_345_G23L	G23L	345	643	643	643	26000	378
GOETHALS-LINDN_CG_345_G23M	G23M	345	643	643	643	325203	378
GOETHSLN_345/230_BK 1	BK 1	345	528	727	817	25642	333
GOLAH__-MORTIMER_115_110	110	115	130	136	159	26034	69
GOUDEY__-ROBBLEAV_115_940	940	115	238	277	305	325166	25
GOUVNEUR-BATHHILL_115_8	8-GBH	115	76	87	94	26066	12
GOWANUS__138A_138B_PAR R14	PAR R14	138	248	335	421	25794	214
GOWANUS__138A_138B_PAR R2	PAR R2	138	245	302	347	25793	215
GOWANUS__345_138_BK T14	BK T14	138	248	335	421	25475	215
GOWANUS__345_138_BK T2	BK T2	138	245	302	347	25476	215
GOWANUS__-GOETHALS_345_25	25	345	492	702	1211	25139	404
GOWANUS__-GOETHALS_345_26	26	345	492	702	1211	25571	404
GOWANUS__-GREENWD__138_42231	42231	138	254	302	347	25214	215



EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
GOWANUS_-GREENWD__138_42232	42232	138	237	289	338	25215	214
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	417
GOWANUSS_345KV_REA_R42_REACTR	R42_REA	345	687	896	1315	26003	417
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	41
GREENBSH-RVSD_TAP_115_4	4	115	176	211	239	325649	0
GREENBSH-STEPHTWN_115_993	993	115	116	120	145	26447	18
GREENDGE-FLATSTR__115_968	968	115	108	128	143	26185	11
GREENDGE-MONTRFL__115_967	967	115	108	128	143	26184	11
GREENDGE-MONTRFL__115_970	970	115	124	139	159	26183	15
GREENLWN_138_69__BK5	BK5	138	108	133	156	26655	52
GREENLWN-ELWOOD__138_673	673	138	394	466	568	25546	121
GREENLWN-SYOSSET__138_676	676	138	269	358	541	25548	4
GREENWD_-FOXHILLS_138_29231	29231	138	174	235	368	25321	7
GREENWD_-FOXHILLS_138_29232	29232	138	174	235	368	25322	25
GRND_ISL-AMERISTD_115_182	182	115	168	181	206	26014	79
GROOMS_-JOHNSON__115_13-14	13	115	220	252	280	26267	57
GRS_LOCK-GELCKHM__115_8	8-GS	115	116	120	145	26103	35
GRS_LOCK-S.OSWEGO_115_9	9-GS	115	135	135	135	25510	80
GRS_LOCK-TILDEN__115_16	16-GT	115	116	120	145	26102	41
GUARDIAN-HALEYRD__115_969	969	115	176	179	179	26167	90
HALEYRD_-GREENDGE_115_969	969	115	176	179	179	325294	69
HAMLTNM-ELBRIDGE_115_7-983	7-HE	115	155	179	193	26096	57
HAMLTNM-HAMLTNNY_115_BK1	BK 1	115	30	37	56	25394	11
HAMRHILL-INDK-OSW_115_6	6-HI	115	114	120	142	26114	63
HANAWAFL-COLTON__115_5	5	115	182	197	248	326185	13
HANCOCK_-HAZEL__115_955	955-1	115	102	113	120	26187	0
HARSNRAD-ROBNSNRD_115_907	907	115	215	247	275	26162	30
HAUPPAUG-C._ISLIP_138_889	889	138	207	299	420	25681	70
HAZEL_-FERNDALE_115_955	955-2	115	102	113	120	26181	11
HDSNBRDG-DEWITT__115_10	10	115	207	233	233	325260	78
HDSNBRDG-DEWITT__115_7	7	115	237	274	318	325261	51
HELLGT_E-ASTORIAE_138_34051	34051	138	174	235	368	25323	19
HELLGT_E-ASTORIAE_138_34052	34052	138	174	235	368	25324	19
HELLGT_W-ASTORIAW_138_24051	24051	138	160	250	436	25210	64
HELLGT_W-ASTORIAW_138_24052	24052	138	160	250	436	25211	63
HELLGT_W-ASTORIAW_138_24053	24053	138	140	186	186	25212	135
HELLGT_W-ASTORIAW_138_24054	24054	138	140	186	186	25213	134
HICKLING-CATON__115_958	958	115	102	113	120	26189	16
HICKLING-RIDGE_RD_115_964	964	115	96	124	147	26188	20
HILLBURN_138_69__BK 317	BK 317	138	187	230	265	26330	73
HILLBURN-RAMAPOOR_138_52	52	138	187	230	265	25882	73
HILLSIDE_115_1_BK3S	BK3S	230	254	304	336	325761	86
HILLSIDE_115_1_BK4S	BK4S	230	410	511	630	325762	47
HILLSIDE_230_1_BK3P	BK3P	230	254	304	336	325759	86
HILLSIDE_230_1_BK4P	BK4P	230	410	511	630	325760	71

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
HILLSIDE-CHEMUNG_115_962	962	115	150	176	179	25726	23
HILLSIDE-WATRCURE_230_69	69	230	550	637	657	25181	99
HINMAN_-HARSNRAD_115_908	908	115	238	287	306	26161	164
HISHELDN-STONCREK_230_81	81	230	417	479	533	325622	108
HOLBROOK_138_69__BK 1	BK 1	138	227	263	302	69378	129
HOLBROOK_138_69__BK 2	BK 2	138	99	122	142	69376	57
HOLBROOK-NSHORBCH_138_884	884	138	328	379	434	25341	2
HOLBROOK-SILLSRD_138_872	872	138	434	480	586	25340	12
HOLBROOK-WEST BUS_138_888	888	138	487	543	623	25542	180
HOLTSVLE-UNIONAVE_138_818	818	138	172	224	362	25584	85
HOLTSVLE-WEST BUS_138_876	876	138	292	326	374	325974	0
HOLTSVLE-WEST BUS_138_877	877	138	487	543	623	325909	0
HOMER_HL-FIVE_MIL_115_169	169	115	221	256	287	26452	28
HOMER_HL-FIVE_MIL_115_170	170	115	221	256	287	26022	28
HOMER_HL-NILE_____115_157	157-1	115	88	101	108	26041	28
HOMR_NYW-PIERC_NY_345_48	37	345	979	979	1013	326214	213
HOMRC_NY-MAINS_NY_345_47	47	345	1212	1410	1516	326121	136
HOOK_TAP-FARMGTN_115_7-983	7-HF	115	145	151	185	26100	19
HOPATCON-RAMAPO_500_5018	5018	345	999	1301	1713	25019	381
HOPKINS_-TEALLAVE_115_11	11	115	220	239	239	26105	90
HUDS_AVE-JAMAICA_138_701	701	138	147	221	360	25294	19
HUDS_AVE-JAMAICA_138_702	702	138	147	221	360	25295	19
HUDSON_-PLSTVYCH_115_12	12-HP	115	129	157	159	25499	48
HUDSON_-VALKIN_____115_15	15	115	129	159	159	26514	82
HUDSONP_-FARRAGUT_345_B3402	B3402	345	508	684	931	25020	333
HUNTLEY_-BUFAL129_115_38	38	115	145	151	185	26047	98
HUNTLEY_-BUFAL129_115_39	39	115	145	151	185	26044	96
HUNTLEY_-ELM_ST_____230_70	70	230	432	477	491	25855	42
HUNTLEY_-SAWYER_____230_79	79	230	566	654	755	25127	314
HUNTLEY_-SAWYER_____230_80	80	230	566	654	755	25128	365
HUNTLEY_-ST_60_36_115_36	36-1	115	168	175	176	26046	3
HUNTLEY_-ST_60_37_115_37	37-1	115	148	148	148	26045	1
HURLYAVE_115_69__TR 3	TR 3	115	95	118	149	25837	38
HURLYAVE_345/115_BK 1	BK 1	345	419	481	488	25419	188
HURLYAVE-LINCNPRK_115_HP	HP	115	198	230	260	25833	86
HURLYAVE-OHIOVLE_115_OR	OR	115	129	183	211	25834	45
HURLYAVE-ROSETON_345_303	303	345	1396	1623	1870	25218	424
HYATT_____115_34__BK 1	BK 1	115	54	67	100	70329	21
HYATT_-BORDRCTY_115_15-979	979	115	129	148	160	25106	51
IMC_TAP_-MECO_____115_15-IM	15-IM	115	125	143	154	26132	23
INDCORTH-SPIERFLS_115_18	18	115	278	321	368	26149	127
INDK-OSW-LIGHTHSE_115_2	2-ILH	115	114	120	142	25503	13
INDN_PT3-BUCHAN_S_345_W96	W96	345	1574	1762	1991	25570	1032
INDPDNC_345_18__TB 5	MT 5	345	215	235	255	68303	160
INDPDNC_345_18__TB 6	MT 6	345	215	235	255	68304	160
INDPDNC-SCRIBA_____345_25	25	345	1670	1931	2210	25859	9
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

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
INGHAM_E-ESPRGFLD_115_7-942	7	115	79	105	131	25061	16
INGHAM_E-IMC_TAP_115_15	15-II	115	105	114	134	25871	38
INGHAM_E-STJHNVLE_115_6	6-IS	115	86	90	107	26133	37
INGHAM_E-STONER_115_9	9-IS	115	105	114	134	25863	36
JAMAICA_-LAKSUCSS_138_903	903	138	240	328	428	25090	177
JAMAICA_-VALLYSTR_138_901 L_M	901 L_M	138	268	358	441	25048	123
JENNISON_115_46__BK 1A	BK 1A	115	52	52	53	69462	18
JENNISON-HANCOCK_115_954	954	115	102	113	120	26186	30
JENNISON-KATTLVLE_115_943	943	115	110	139	159	25898	59
JENNISON-SIDNEYRR_115_949	949	115	80	110	120	26173	5
JOHNSON_-MAPLEWOD_115_12	12	115	220	239	239	26268	91
KATONAH_-AMAWALK_115_995	995	115	215	247	275	325279	54
KATONAH_-CROTONFL_115_991	991	115	215	247	275	26157	3
KENTAVE_-GREENWD_138_31232	31231-2	138	174	226	247	25299	10
KINTIGH_-ROCHESTR_345_SR1-39	SR-1	345	1301	1501	1685	25073	449
KNAPPCRN_115_69__TR 2	TR 2	115	38	49	60	25838	15
KNAPPCRN-SANDDOCK_115_KB_KC	KB_KC	115	198	226	260	26240	36
KNAPPCRN-SPACKILL_115_SK	SK	115	198	226	260	325777	2
KNTFSRNC-SCOTAFLT_115_913	913	115	120	120	120	26207	17
LADENTWN-BOWLINE_345_68	68	345	687	747	747	25249	48
LADENTWN-BUCHAN_S_345_Y88	Y88	345	1703	1894	2404	25185	278
LADENTWN-WHAVSTRW_345_67-2	67-2	345	1720	2215	2657	25248	314
LAFAYTTE-CLRKSCRN_345_4-46	16893	345	1207	1327	1479	25049	767
LAFAYTTE-DEWITT_345_22	22	345	1164	1164	1164	25174	255
LAKEVIEU-CLVRBANK_115_142	142	115	88	101	108	325881	45
LAKSUCSS_138_69__BK 5	BK 5	138	227	263	302	26603	134
LAKSUCSS_138_69__BK 6	BK 6	138	227	263	302	325098	123
LAKSUCSS_138A_138B_PAR	B_PAR	138	294	368	441	25593	178
LANGDON_-NORTHSDE_115_936	936	115	176	196	225	26160	56
LAUREL L-GOUDEY_115_952	952	115	108	128	143	25012	57
LAURLEGY-SCOV RCK_345_384	384	345	717	1004	1219	26389	475
LAWRNCV-HANAWAFL_115_5	5	115	182	197	248	26085	6
LAWRNCV-SUGARISL_115_4	4	115	220	252	280	326186	6
LEEDS_-ATHENS_345_95	95	345	1331	1538	1724	25789	247
LEEDS_-HURLYAVE_345_301	301	345	1396	1623	1870	25055	612
LEEDS_-PLSNTVLY_345_92	92	345	1331	1538	1724	25056	910
LIGHTHSE-EWATRTWN_115_5	5	115	116	119	119	25504	12
LIGHTHSE-MALLORY_115_7	7-CL	115	108	108	108	25521	25
LINCNPBK-EKINGSTN_115_LR	LR	115	194	214	240	26223	41
LINDEN_-GOETHALS_230_A2253	A2253	230	541	715	845	25017	334
LOCKPORT-HINMAN_115_100	100	115	220	252	280	25087	130
LOCKPORT-N.AKRON_115_108	108	115	130	136	165	25266	43
LOCKPORT-OAKFIELD_115_112	112	115	131	144	158	25300	45
LOCKPORT-SHELBY76_115_113	113	115	143	165	180	25263	42
LOCKPORT-SWEDEN_115_111	111	115	199	199	199	25262	37
LOCKPORT-TELGRAPH_115_107	107	115	220	252	280	25265	63
LOCKPORT-TELGRAPH_115_114	114-1	115	143	165	180	25264	47
LOCUSTGR-NEWBRDGE_138_558	558	138	359	466	568	25158	245

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
LONG_MTN-PLSNTVLY_345_398	398	345	1135	1313	1596	25033	39
LONG_MTN-PLUM TRE_345_321	321	345	1434	1649	1936	25720	149
LONGLANE-LAFARGE__115_6	6	115	116	120	145	25864	72
LOVETT__138_69__BK 147	BK 147	138	94	130	149	26331	39
LOVETT__-BOWLINOR_138_56	56	138	234	267	281	25877	28
LOVETT__-STONYPNT_138_54	54	138	236	270	285	25885	4
LOWVILLE-BOONVLL_115_5	5-LB	115	105	114	134	26075	46
LUDDLUM__-CARP HL__345_301	301	345	1240	1416	1489	25722	67
LUDDLUM__-NORTHFLD_345_354	354	345	1434	1649	1936	25713	408
LUDDLUM_A-FALCONER_115_162	162-2	115	88	101	108	26031	21
LUDDLUM_B-FALCONER_115_161	161-3	115	88	101	108	26030	32
LUTHERFT-MALTA____115_1	1	115	197	256	287	325889	55
LUTHERFT-MALTA____115_302	2	115	197	256	287	325890	20
LUTHERFT-MULBRYNM_115_3	3	115	254	294	333	26477	49
LUTHERFT-MULBRYNM_115_308	308	115	189	228	252	325742	50
LYON_MTN-KNTFSRNC_115_1(911)	911	115	125	140	156	26205	26
MACHIAS_-VALLEY44_115_152	152	115	129	148	160	326172	1
MACHIAS_-VALLEY44_115_167	151	115	124	138	158	326169	1
MAINESBG-WATRCURE_345_30	30	345	927	927	927	25018	55
MALLORY_-WETZEL____115_7	7-CL	115	155	155	155	326206	3
MALONE__-NICHVLVLE_115_3	3-NM	115	129	163	183	25585	23
MALONE__-WILLIS____115_MW1-910	1-MW	115	129	159	175	25586	32
MALTA____-TAPBLSTN_115_1	1	115	220	252	280	325891	55
MALTA____-TAPBLSTN_115_302	302	115	220	252	280	325892	16
MANCHSTR-SPACKILL_115_MC	MC	115	198	226	260	325776	24
MAPLE140-BUFALO54_115_38	38	115	174	181	226	326157	78
MAPLE140-BUFALO54_115_39	39	115	174	181	226	326158	76
MAPLEWOD-ARSENAL__115_31	15	115	129	176	224	25844	64
MAPLEWOD-MENANDS__115_19	19-MM	115	128	147	159	25870	0
MARCY____765_345_BK 1	BK 1	765	1488	1650	1756	25455	590
MARCY____765_345_BK 2	BK 2	765	1488	1650	1971	25456	518
MARCY____-EDIC____345_UE1-7	UE1-7	345	1677	1953	2322	25229	283
MARCY____-FRASANNX_345_UCC2-41	UCC2-41	345	1345	1345	1434	25113	0
MARCY____-N.SCTLND_345_18	18	345	1488	1650	1971	25276	659
MARION__-FARRAGUT_345_C3403	C3403	345	508	741	931	25038	333
MARSHVLE-CLINTON__115_12	12	115	125	143	154	325267	4
MASSENA__765_230_BK 1	BK 1	765	936	1207	1872	25665	12
MASSENA__765_230_BK 2	BK 2	765	936	1207	1872	25666	12
MASSENA_-MARCY____765_MSU1	MSU1	765	3975	3975	5300	25224	1108
MCADOO__-BATTHILL_115_4	6-MBH	115	76	87	94	26064	2
MCINTYRE-COLTON____115_8	8-MC	115	76	87	94	25514	11
MCINTYRE-MCADOO____115_6	6	115	128	136	137	26108	12
MCKNOWNV-NEWKRMKL_115_8	8	115	248	277	317	26499	128
MECO____-CHURCH_S_115_10	10-AM	115	77	77	77	26120	3
MENANDS_-REYNOLDS_115_2	2-MR	115	217	250	280	26135	121
MENANDS_-RIVERSDE_115_3	3-MR	115	182	197	239	26134	108
MERTPARK-WICCOPEE_115_WP	WP	115	194	214	240	325772	40
MEYER____115_1____BK4S	BK4S	230	235	286	336	325766	47

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
MEYER___230_1___BK4P	BK4P	230	235	286	336	325765	57
MEYER___-CANANDGA_230_60	60	230	483	556	634	325604	62
MEYER___-MORAINES_115_966	966	115	125	152	191	26166	54
MIDDLEOR-SHOEMAKR_138_29	29	138	506	587	671	26468	260
MIDDLETP_345_138_BK_114	BK114	345	506	587	671	26465	260
MIDDLETP-ROCKTVRN_345_MTR-34	MTR-34	345	1464	1793	1793	26464	499
MILAN___-PLSTVYCH_115_10	10	115	129	158	192	26433	6
MILAN___-RHINEBCK_115_MR	MR	115	175	193	220	26242	3
MILLBURY-CARP HL__345_302	302	345	1313	1405	1494	25721	73
MILLERPL-HOLBROOK_138_885	885	138	434	480	586	26691	17
MILLIKEN-ETNA_____115_974	974	115	185	224	255	26177	114
MILLIKEN-ETNA_____115_975	975	115	185	224	255	26178	123
MILLWOOD_345_138_TA_1	TA_1	138	216	307	346	25530	51
MILLWOOD_345_138_TA_2	TA_2	138	205	297	321	25531	58
MILLWOOD-EASTVIEW_345_W82	W82	345	2296	2658	3202	25147	834
MILLWOOD-EASTVIEW_345_W85	W85	345	2296	2658	3202	25258	793
MILLWOOD-EASTVIEW_345_W99	W99	345	2296	2658	3202	25255	796
MILTON_C-GRS_LOCK_115_18	18-MG	115	129	148	160	26104	14
MNCHESTR-CARD_____345_368	368	345	1240	1446	1888	25710	486
MNCHESTR-MILSTONE_345_310	310	345	1488	1912	2097	25336	366
MNCHESTR-NO.BLOOM_345_3642	3642	345	956	956	956	26399	95
MNCHESTR-SCOV RCK_345_353	353	345	1240	1604	2097	25714	325
MNTNDALE-WWDBURNY_115_957	957	115	108	120	120	325616	23
MODENA___115_69___BK1	BK1	115	33	41	53	26325	3
MODENA___-OHIOVILLE_115_PX	PX	115	232	253	304	25835	11
MOHANSIC_115_13___BK_2	BK_2	115	23	24	26	26482	11
MOHANSIC_115_13___BK_4	BK_4	115	23	24	26	26483	16
MOHICAN_-BATNKILL_115_15	15	115	116	120	145	26122	15
MOHICAN_-MULBRYNM_115_3	3	115	116	120	145	26687	18
MONSEY___-BURNS____138_601	601	138	425	451	475	325608	149
MONTRFL_-CODNIGTN_115_982	982	115	108	128	144	25728	56
MONTRFL_-RIDGE_RD_115_963	963-2	115	108	127	133	26196	20
MONTRFL_-RIDGE_RD_115_978	978-2	115	108	128	145	26197	18
MONTVILL-MILSTONE_345_371	371	345	1488	1912	2097	25334	708
MORGANRD-LANGDON__115_936	936	115	176	196	225	325224	21
MORTIMER-FAIRPORT_115_1	1	115	129	151	162	25163	38
MORTIMER-FAIRPORT_115_2	2	115	129	144	158	25240	16
MORTIMER-SHELBY76_115_114	114	115	129	149	153	326129	15
MORTIMER-STA_56___115_24	42393	115	129	148	160	25096	22
MORTIMER-STA_56___115_25	42394	115	114	123	142	25095	46
MOSES___115_13___BK_7	BK_7	115	258	258	258	70410	0
MOSES___115_13___BK_8	BK_8	115	258	258	258	70409	0
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	44
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	117
MOSES___-ADIRNDCK_230_MA2	MA2	230	348	386	440	25270	117

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
MOSES___-ALCOA_PA_115_MAL4	MAL4	115	218	253	291	25582	79
MOSES___-ALCOA_PA_115_MAL5	MAL5	115	218	253	291	25583	72
MOSES___-ALCOA_PA_115_MAL6	MAL6	115	218	253	291	25581	76
MOSES___-MASSENA_230_MMS1	MMS1	230	936	1207	1486	25274	12
MOSES___-MASSENA_230_MMS2	MMS1	230	936	1207	1486	25275	12
MOSES___-MED-ENGS_115_MRG1	MRG1	115	145	145	157	26328	25
MOSES___-MED-ENGS_115_MRG2	MRG2	115	145	145	157	26335	6
MOSES___-REYNLDPA_115_MR3	MR3	115	145	145	157	26332	0
MOSES___-WILLIS___230_MW1	MW1	230	349	386	440	25188	104
MOSES___-WILLIS___230_MW2	MW2	230	349	386	440	25271	104
MOSHIER_-TAYLORVL_115_7-MT	7-MT	115	49	49	49	26109	18
MOTTHAVN_345_138_TR6	TR6	345	457	558	603	325428	78
MOTTHAVN_345_138_TR7	TR7	345	457	558	603	325426	79
MOTTHAVN_345_138_TR8	TR8	345	457	558	603	325427	78
MOTTHAVN_345_138_TR9	TR9	345	457	558	603	325429	78
MOTTHAVN-RAINEY___345_Q11	Q11	345	707	833	1298	325430	69
MOTTHAVN-RAINEY___345_Q12	Q12	345	707	833	1298	325431	63
MOUNTAIN-SWANROAD_115_103	103	115	176	211	240	26054	102
MOUNTAIN-SWANROAD_115_104	104	115	176	211	240	26053	0
MULBRYNM-EASTOVER_115_308	308	115	186	214	237	26475	79
N._SALEM-BATNKILL_115_989	989	115	40	50	57	26448	4
N.AKRON_-BATAVIA___115_107	107	115	159	159	159	25124	16
N.AKRON_-BATAVIA___115_108	108	115	125	136	154	25125	26
N.END___115_46_BK 1	BK 1	115	61	61	69	25849	33
N.END___-ASHLEYRD_115_702	702	115	287	333	388	25846	5
N.END___-PLATSBRG_115_701	701	115	239	239	239	25848	28
N.HEMPST-WHAVSTOR_138_530	530	138	236	270	285	26506	81
N.SCTLND_345_115_BK 1	BK 1	345	458	570	731	25445	68
N.SCTLND_345_115_BK 2	BK 2	345	510	690	794	25460	65
N.SCTLND-ALBANY___115_8	8-NA	115	278	321	368	25496	3
N.SCTLND-ALPS_____345_2	2	345	1204	1326	1685	25217	201
N.SCTLND-ALTAMONT_115_20	20-NV	115	116	120	145	25492	96
N.SCTLND-BETHLHEM_115_4	4-NB	115	254	266	266	25497	38
N.SCTLND-FEURABSH_115_3	3-NF	115	254	292	333	25495	76
N.SCTLND-LEEDS___345_93	93	345	1331	1538	1724	25171	655
N.SCTLND-LEEDS___345_94	94	345	1331	1538	1724	25203	651
N.SCTLND-OWENSCRN_115_7	7	115	116	120	145	25491	20
N.SCTLND-OWENSCRN_115_9	9	115	116	120	145	25490	13
N.SCTLND-ROTTRDAM_115_13	13-NR	115	241	265	333	25494	73
N.SCTLND-VORHVSLE_115_19	19-NV	115	116	120	145	25493	73
N.TROY___-EASTOVER_115_306	308	115	186	214	237	326095	15
N.TROY___-EASTOVER_115_307	10	115	182	197	237	326096	14
N.TROY___-HOOSICK___115_5	5-NHF	115	200	245	280	26131	9
N.TROY___-REYNOLDS_115_16	16-NR	115	182	197	237	26139	68
N.TROY___-WYNTKLNM_115_14-988	14-NW	115	129	182	237	26137	47
NANGOLA_-DELEMTER_115_141	141	115	88	101	108	325872	31
NANGOLA_-DELEMTER_115_142	142	115	88	101	108	325879	27
NANGOLA_-SILVRCRK_115_141	141	115	88	101	108	325871	20

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
NANGOLA_-SILVRCRK_115_142	142	115	88	101	108	325878	17
NBRDWNM-ERIE_ST_115_181-922	922	115	124	139	159	26011	70
NCATSKLL_115_69_TR 4	TR 4	115	48	60	74	25839	21
NCATSKLL_115_69_TR 5	TR 5	115	44	55	73	25818	21
NCATSKLL-MILAN___115_T7	T7	115	129	182	199	26243	14
NHELSEA_115/69__BK TR1	BK TR1	115	33	41	53	25836	15
NHELSEA-FISHKPLN_115_NF	NF	115	183	248	279	26228	98
NHELSEA-FORGEBRK_115_FO	FO	115	176	211	240	26230	112
NEPTUNE_-DUFFYAVE_345_NEPTUNE	NEPTUNE	345	660	785	785	325304	660
NEWBRDGE_138_69__BK 6	BK 6	138	114	141	159	26604	81
NEWBRDGE_138_69__BK 7	BK 7	138	114	141	159	26605	77
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	6
NEWBRDGE-DUFFYAVE_345_501	501	345	660	750	750	325303	660
NEWBRDGE-EGRDNCTY_138_467	467	138	282	422	474	325378	58
NEWBRDGE-RULAND___138_561	561	138	257	297	332	25305	86
NEWBRDGE-RULAND___138_562	562	138	257	297	332	25306	86
NEWBRDGE-RULAND___138_567	567	138	279	422	473	325379	82
NEWKRMKL-ALBANY___115_7	7	115	275	303	354	325257	146
NEWWALDN-GARDNVLB_115_38	38	115	129	171	206	26039	54
NIAGARA__230_115_BK T1	BK T1	230	192	239	288	25409	98
NIAGARA__230_115_BK T2	BK T2	230	249	359	424	25410	13
NIAGARA__345_230_BK 3	BK 3	345	384	479	575	25408	18
NIAGARA__345_230_BK 4	BK 4	345	697	717	881	25449	31
NIAGARA__345_230_BK 5	BK 5	345	384	479	575	25450	18
NIAGARA_-GARDNVLB_115_180	180	115	160	166	206	25104	145
NIAGARA_-KINTIGH__345_NS1-38	NS1-38	345	1301	1501	1685	25074	227
NIAGARA_-MOUNTAIN_115_120	120	115	176	211	258	25135	102
NIAGARA_-MOUNTAIN_115_121	121	115	176	211	258	326182	6
NIAGARA_-MOUNTAIN_115_122	122	115	176	211	258	326183	6
NIAGARA_-PACKARD___115_191	191	115	248	275	328	25075	182
NIAGARA_-PACKARD___115_192	192	115	247	275	328	25099	192
NIAGARA_-PACKARD___115_193	193	115	273	301	351	25100	150
NIAGARA_-PACKARD___115_194	194	115	273	301	351	25101	150
NIAGARA_-PACKARD___115_195	195	115	331	359	424	25102	172
NIAGARA_-PACKARD___230_61	61	230	626	717	846	25186	428
NIAGARA_-PACKARD___230_62	62	230	626	717	846	25220	421
NIAGARA_-ROBNSNRD_230_64	64	230	496	550	657	25088	333
NIAGARA_-ROCHESTR_345_NR2	NR2	345	1301	1501	1685	25084	247
NIAGARA_-SANBORN___115_101	101	115	233	253	318	326180	106
NIAGARA_-SANBORN___115_102	102	115	247	275	328	25103	103
NIAGBLVD-NBRDWNM_115_181-922	181-2	115	174	181	226	26057	138
NICHLVLE-PARISHVL_115_3	3-PN	115	128	147	159	26110	29
NILE____-ANDOVER__115_157	157-2	115	105	114	134	26016	12
NINEMILE-CLAY____345_8	8	345	1032	1271	1416	25167	725
NINEMILE-FTZPK_NM_115_4	4-NF	115	119	119	159	25500	23
NINEMILE-SCRIBA___345_9	9	345	1032	1284	1562	25359	96

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
NOGDNBRG-MCINTYRE_115_9	9-NOM	115	159	159	159	26080	19
NORTHFLD-VRNON VT_345_381	381	345	1195	1195	1323	25707	101
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_138N_138E_PAR 1	E_PAR 1	138	428	513	604	25598	100
NRTHPORT-ELWOOD__138_678	678	138	352	504	604	25543	142
NRTHPORT-ELWOOD__138_681	681	138	352	504	604	25544	154
NRTHPORT-PILGRIM__138_672	672	138	204	267	353	25307	147
NRTHPORT-PILGRIM__138_677	677	138	409	527	604	25308	313
NRTHPORT-PILGRIM__138_679	679	138	409	527	604	25309	313
OAKDALE__230_115_BK 1	BK 1	230	275	400	440	25400	20
OAKDALE__345_115_BK 2	BK 2	345	491	587	600	25401	215
OAKDALE__345_115_BK 3	BK 3	345	420	499	600	25399	193
OAKDALE_-DELHI____115_919	919	115	161	177	179	25897	19
OAKDALE_-ENDICOTT_115_938	938	115	161	177	225	26198	104
OAKDALE_-FRASER__345_32	32	345	1255	1518	1793	25235	210
OAKDALE_-GOUDEY__115_939	939	115	238	274	306	26182	123
OAKDALE_-KATTLVLE_115_943	943	115	139	163	192	26201	73
OAKDALE_-NORTHSDE_115_944	944	115	185	224	239	26199	63
OAKFIELD-BATAVIA__115_112-2	112-2	115	128	136	158	25126	35
OAKWOOD_-ELWOOD__138_674	674	138	394	466	568	25545	60
OAKWOOD_-SYOSSET__138_675	675	138	269	358	541	25547	0
OHIOVLE_115_69__BK TR1	BK TR1	115	33	41	53	25819	2
OHIOVLE-HIGHLAND_115_OR	OR	115	129	183	239	26247	10
ONEIDA__-WALESVIL_115_7	7	115	116	120	145	26115	28
ONEIDA__-YAHNUNDA_115_6	6	115	105	105	105	26113	23
OSWEGO__345_115_BK 7	BK 7	345	489	552	690	25372	289
OSWEGO__-ELBRIDGE_345_17	17	345	1207	1326	1426	25234	797
OSWEGO__-S.OSWEGO_115_3	3-OS	115	209	239	239	25507	122
OSWEGO__-S.OSWEGO_115_5	5-OS	115	209	239	239	25508	122
OSWEGO__-S.OSWEGO_115_8	8-OS	115	400	462	478	25509	44
OSWEGO__-VOLNEY__345_11	11	345	1200	1326	1685	25199	173
OSWEGO__-VOLNEY__345_12	12	345	1200	1326	1685	25201	173
OWENSCRN-SABICO__115_7	7	115	116	120	145	325736	21
OWENSCRN-SABICO__115_9	9	115	116	120	145	325737	34
PACKARD__230_115_BK 3	BK 3	230	189	250	250	25414	1
PACKARD__230_115_BK 4	BK 4	230	190	250	250	25415	81
PACKARD_-GRND_ISL_115_182	182-1	115	200	208	265	26056	156
PACKARD_-NIAGBLVD_115_181-922	181-1	115	160	166	206	26055	153
PACKARD_-SAWYER__230_77	77	230	556	644	746	25164	419
PACKARD_-SAWYER__230_78	78	230	556	644	746	25195	419
PACKARD_-WALCK_RD_115_129	129	115	239	283	283	25906	158
PACKARD_-ZIMMERM1_115_130	130-2	115	168	185	206	26059	163
PALMITER-BENNETT__115_932	932	115	78	85	98	26165	9
PANNELL__345_115_BK 1	BK 1	345	228	282	336	25396	130



EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
PANNELL__345_115_BK 2	BK 2	345	228	282	336	25431	130
PANNELL__345_115_BK 3	BK 3	345	255	319	336	25572	111
PANNELL_-CLAY____345_1	1	345	1195	1195	1195	25058	263
PANNELL_-CLAY____345_2	2	345	1195	1195	1195	25050	264
PANNELRG-FARMGTN__115_4-977	4-FP	115	207	247	280	25080	122
PANNELRG-STA_56__115_24	24	115	114	123	142	26285	83
PANNELRG-STA_56__115_25	25	115	129	147	159	26284	65
PARISHVL-COLTON__115_3	3-CP	115	128	147	159	25241	26
PATROON_-MCKNOWNV_115_2-6	6	115	258	321	368	25866	80
PATROON_-PATRTAP__115_15	15	115	160	176	224	25867	23
PATRTAP_-MENANDS__115_15	15	115	105	114	134	26493	23
PAVMNTRD-STOLLERD_115_926	926	115	249	287	327	325220	8
PAWLING_-CROTONFL_115_994	994	115	176	179	179	25902	42
PEAT ST_-HDSNBRDG_115_10	10	115	207	233	233	26648	60
PEAT ST_-HDSNBRDG_115_7	7	115	278	318	318	26649	14
PETERBOR-ONEIDA__115_5	5	115	116	120	145	25896	25
PIERCBRK-FIVEMILE_345_37	37	345	979	979	1013	326196	92
PILGRIM__138B_138A_PAR	138_PS2	138	285	357	428	25604	140
PILGRIM_-HAUPPAUG_138_871	871	138	285	357	420	25550	140
PILGRIM_-WEST BUS_138_881	881	138	487	543	623	25537	92
PLATSBURG-KNIFSRNC_115_PS1	PS1	115	125	151	180	25078	1
PLATTSBURGH PMLD #2	PS-1/A	115	157	179	197	69888	6
PLSNTVLE_345_13__BK 1	BK 1	138	59	67	67	25477	41
PLSNTVLE_345_13__BK 2	BK 2	138	59	67	67	25478	40
PLSNTVLE-DUNWODIE_345_W89	W89	345	1720	1977	2265	25182	679
PLSNTVLE-DUNWODIE_345_W90	W90	345	1720	1977	2265	25250	721
PLSNTVLY-EFISHKIL_345_F36	F36	345	1720	2215	2657	25256	227
PLSNTVLY-EFISHKIL_345_F37	F37	345	1720	2215	2657	25257	227
PLSNTVLY-WOOD_ST__345_F30	F30	345	1720	2214	2657	25237	688
PLSNTVLY-WOOD_ST__345_F31	F31	345	1720	2214	2657	25238	653
PLSTVYCH_115_69__TR 10	TR 10	115	107	120	143	25840	74
PLSTVYCH_345_115_BK S1	BK S1	345	396	450	450	25382	50
PLSTVYCH-INWOOD__115_X1	X-1	115	175	193	220	26209	20
PLSTVYCH-MANCHSTR_115_M	M	115	183	226	260	26208	47
PLSTVYCH-TODDHILL_115_C	C	115	143	164	178	325156	53
PORTER__-DERFIELD_115_8	8262523	115	116	120	127	26116	11
PORTER__-ROTTRDAM_230_30	30-PR	230	440	505	560	25173	224
PORTER__-ROTTRDAM_230_31	31-PR	230	440	505	560	25194	224
PORTER__-VALLEY__115_4	4-PV	115	116	120	145	25231	75
PORTER__-WATKINRD_115_5	5-PW	115	116	120	145	25232	85
PORTJEFF_138_69__BK 7	BK 7	138	112	138	156	25601	77
PORTJEFF_138_69__BK 8	BK 8	138	114	141	156	25600	60
PORTJEFF-HOLBROOK_138_862	862	138	295	357	434	25539	93
PORTJEFF-HOLBROOK_138_886	886	138	295	357	434	25540	91
PYRITES_-COLTON__115_7	7-PC	115	76	87	94	26086	23
QUAKERRD-MACEDON__115_930	930	115	60	75	112	25093	42
QUAKERRD-PANNELRG_115_914	914	115	207	247	285	25261	22
QUAKERRD-PANNELRG_115_925	925	115	275	305	355	25682	111

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
QUAKERRD-SLEIGHT__115_13-980	980(13)	115	150	169	188	25079	59
QUAKERRD-STA_204__115_908	908	115	227	251	285	26286	39
QUENBRDG-VERNON__138_31281	31281	138	363	455	602	25159	156
QUENBRDG-VERNON__138_31282	31282	138	363	455	602	25160	99
QUENSBRY-CEDAR____115_10	10	115	128	147	159	26140	53
QUENSBRY-SHERMAN__115_17	17-QS	115	116	120	145	26142	54
RAINEY__-FARRAGUT_345_61	61	345	651	811	1287	25152	269
RAINEY__-FARRAGUT_345_62	62	345	691	818	1281	25253	248
RAINEY__-FARRAGUT_345_63	63	345	651	811	1287	25254	269
RAINEY__-VERNON__138_36311	36311	138	233	280	317	25296	197
RAINEY__-VERNON__138_36312	36312	138	245	303	342	25297	147
RAMAPO__345_138_BK 1300	1300	345	451	546	619	25441	213
RAMAPO__345_138_BK 2300	2300	345	451	546	619	25442	217
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	381
RAMAPO__-BUCHAN_N_345_Y94	Y94	345	1703	1894	2404	25184	3
RAMAPO__-LADENTWN_345_W72	W72	345	1722	1894	2404	25233	11
RAMAPO__-SUGARLOF_345_76	76	345	1971	2144	2258	326219	583
RAMAPOOR-TALLMAN__138_60	60	138	425	451	475	25880	254
RANGEHL_-CASTLEGD_115_937	937	115	149	149	149	325225	17
REYNOLDS_345_115_BK 2	BK 2	345	459	562	755	25403	256
REYNOLDS-ALPS_____345_1	1	345	1670	1912	1912	25587	298
REYNOLDS-GREENBSH_115_9	9-RG	115	329	398	398	26129	147
REYNOLDS-RVSD_TAP_115_4	4	115	220	239	239	325648	27
RICHFELD-ESPRGFLD_115_7-942	942	115	102	113	120	26176	12
RIDGE_RD-HILLSIDE_115_963	963	115	108	127	133	26190	13
RIDGE_RD-HILLSIDE_115_978	978-1	115	108	128	145	26191	11
RIVERSDE-RVSD_TAP_115_4	4	115	220	239	239	26144	27
RIVERSDE-TRINITY__115_18	18	115	147	178	243	26491	80
RIVERSDE-TRINITY__115_19	19	115	198	242	278	26492	93
RIVRHEAD_138_69__BK 7	BK 7	138	114	141	156	26622	52
RIVRHEAD_138_69__BK 8	BK 8	138	112	138	156	26623	45
ROBNSNRD-STOLLERD_230_65	65	230	550	637	717	25065	282
ROCHESTR_345_115_BK 1	BK 1	345	494	603	630	25412	159
ROCHESTR_345_115_BK 2	BK 2	345	330	415	478	25432	197
ROCHESTR_345_115_BK 3	BK 3	345	494	603	630	25446	160
ROCHESTR_345_115_BK 5	BK 5	345	462	567	630	325381	324
ROCHESTR-PANNELL__345_RP1	RP1	345	1301	1501	1685	25192	75
ROCHESTR-PANNELL__345_RP2	RP2	345	1301	1501	1685	25172	76
ROCKHILL-MNTNDALE_115_957	957	115	108	120	120	325615	30
ROCKTVRN_345_115_BK TR1	BK TR1	345	396	445	445	25406	69
ROCKTVRN_345_115_BK TR3	BK TR3	345	396	459	519	26168	69
ROCKTVRN-RAMAPO__345_77	77	345	1720	1890	2037	25183	649
ROCKTVRN-SUGARLOF_345_76	76	345	1971	2144	2258	326218	757
ROCKTVRN-SUGRLOAF_115_SL	SL	115	177	204	218	25420	0
ROME____-ONEIDA__115_1	1-RO	115	129	157	192	26112	42
RONKOKMA-HOLBROOK_138_875	875	138	487	543	623	25541	131

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
ROSA_RD_-GE_R_D__115_14	14	115	200	217	260	26145	47
ROSETON_-EFISHKIL_345_RFK305	RFK305	345	1936	2677	3133	25108	1245
ROSETON_-ROCKTVRN_345_311	311	345	1396	1623	1870	25069	367
ROTTRDAM_230_115_BK 6	BK 6	230	344	375	523	25407	132
ROTTRDAM_230_115_BK 7	BK 7	230	300	355	402	25392	128
ROTTRDAM_230_115_BK 8	BK 8	230	326	369	423	25413	102
ROTTRDAM-BURDECK__115_17	17-RB	115	116	120	145	25129	45
ROTTRDAM-BURDECK__115_19	19-RB	115	105	114	134	26146	71
ROTTRDAM-CURRY_RD_115_11	11	115	116	120	145	25869	27
ROTTRDAM-EASTOVER_230_38	38	230	443	512	574	326094	69
ROTTRDAM-FRONT_ST_115_16	16	115	220	252	280	26147	113
ROTTRDAM-SWAGRTWN_115_1	1	115	418	478	478	26429	159
ROTTRDAM-SWAGRTWN_115_2	2	115	232	241	291	26430	92
ROTTRDAM-WOODLAWN_115_35	35	115	116	120	145	25865	14
RULAND__-HOLBROOK_138_882	882	138	487	543	623	25538	3
RULAND__-PILGRIM_138_661	661	138	555	555	555	25310	96
RULAND__-PILGRIM_138_662	662	138	487	543	555	25311	96
RYAN____-PLATSBRG_230_RYP-2	RYP-2	230	249	277	318	25273	97
RYNDS_HL-HIGHLAND_115_HR	HR	115	183	230	260	325825	10
RYNDS_HL-INWOOD__115_IR	IR	115	175	193	220	26248	4
S.MAHWAH-RAMAPOOR_138_51	51	138	236	270	285	25888	122
S.OSWEGO-CURTIS__115_10	10	115	175	175	175	25511	76
S.OSWEGO-HAMRHILL_115_6	6-IH	115	114	120	142	25513	45
S.OSWEGO-NINEMILE_115_1	1-SN	115	116	120	145	25501	26
S.OWEGO_-GOUDEY__115_961	961	115	112	131	143	25725	17
S.OWEGO_-NWAVERLY_115_962	962-2	115	111	131	143	25727	33
S.PERRY_-MEYER____115_934	934	115	82	96	104	26194	36
S.RIPLEY-DUNKIRK__230_68	68	230	475	475	475	25045	233
S42____-S124____115_932	932	115	163	234	354	325827	134
S42____-S124____115_938	938	115	163	234	354	325972	134
SABICO__-LONGLANE_115_7	7	115	199	199	199	26501	7
SALAMANC_HOMER_HL_115_153	153	115	128	147	159	325763	26
SALAMANC_HOMER_HL_115_154	154	115	128	147	159	325764	30
SANBORN_-LOCKPORT_115_101	101	115	233	253	318	25267	104
SANBORN_-SHAWNERD_115_102	102	115	275	303	354	326179	103
SAND_BAR-PLATSBRG_115_PV20	PV20	115	210	245	258	25027	106
SANDDOCK-NCHELSEA_115_SC	KC	115	183	248	279	26249	67
SANDY PD-TEWKSBRY_345_337	337	345	1802	1908	2045	26366	671
SANDY PD-WACHUSST_345_314	314	345	1731	2108	2400	26352	455
SANDY PD-WACHUSST_345_343	343	345	1435	1609	1741	25716	470
SAWYER__230_23_TB1	TB1	230	104	128	128	325047	55
SAWYER__230_23_TB2	TB2	230	104	128	128	325048	56
SAWYER__230_23_TB3	TB3	230	104	128	128	325049	51
SAWYER__-HUNTLEY__230_77	77	230	566	654	755	325043	361
SAWYER__-HUNTLEY__230_78	78	230	566	654	755	325044	360
SAWYER__-SUNY_BUF_230_79	79	230	566	654	710	325045	314
SAWYER__-SUNY_BUF_230_80	80	230	566	654	755	325046	313
SCHODACK-GREENBSH_115_13	13	115	129	166	199	325804	88

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
SCOBIE__-AMHERST__345_380	380	345	1431	1431	1431	25708	410
SCOBIE__-SEABROOK_345_363	363	345	1494	1494	1494	26378	335
SCOTAFLT-MASONCR__115_909	909	115	155	179	193	325702	3
SCRIBA__-FITZPTRK_345_FS-10	FS-10	345	1434	1434	1912	25076	68
SCRIBA__-VOLNEY__345_20	20	345	1200	1396	1686	25204	522
SCRIBA__-VOLNEY__345_21	21-SV	345	1670	1912	1912	25314	721
SENECA__-GARDNVLB_230_71	71	230	306	354	370	25856	30
SENECA__-GARDNVLB_230_72	72	230	306	354	370	25857	30
SHALETON-CLVRBANK_115_141	141	115	88	101	108	325875	44
SHALETON-LAKEVIEU_115_141	141	115	88	101	108	325874	42
SHAWNERD-LOCKPORT_115_102	102	115	233	253	318	26052	94
SHAWNERD-LOCKPORT_115_103	103	115	174	181	199	26051	74
SHENDOAH-EFISHKIL_115_EF	EF	115	198	230	260	26251	38
SHERMAN_-SPIERFLS_115_17	17-SS	115	116	120	145	26148	40
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	127
SHERMCRK-E179THST_138_15032	15032	138	162	220	360	25157	127
SHOEMAKR_138_69_BK_711	BK_711	138	212	281	319	26694	79
SHOEMAKR_138_69_BK_811	BK_811	138	193	225	253	326024	91
SHOR_NPX-SHOREHAM_138_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-GLENWOOD_138_365	365	138	487	543	623	25205	119
SHORE_RD-GLENWOOD_138_366	366	138	489	552	664	25154	37
SHORE_RD-LAKSUCSS_138_367	367	138	236	409	581	25145	218
SHORE_RD-LAKSUCSS_138_368	368	138	236	409	581	25150	218
SHOREHAM-MILLERPL_138_879	879	138	434	480	586	25117	32
SHOREHAM-WILDWOOD_138_863	863	138	434	480	586	25115	140
SHOREHAM-WILDWOOD_138_867	867	138	434	480	586	25114	138
SIDNEYRR-DELHI__115_949	949	115	80	110	120	326184	27
SLEIGHT__115_34_BK_1	BK_1	115	35	43	67	70523	25
SLEIGHT__115_34_BK_2	BK_2	115	35	43	67	70524	29
SLEIGHT_-CLYDE__115_3-971	971(3)	115	145	151	179	26686	6
SMAHWAH_345_138_BK_258	258	345	441	516	559	25393	166
SMAHWAH_-RAMAPO__345_69	69	345	1226	1737	2268	25021	610
SMAHWAH_-RAMAPO__345_70	70	345	1720	1890	2398	25259	558
SMITHBRD-WEIBELAV_115_2	2	115	220	253	280	325903	15
SMITHBRD-WEIBELAV_115_302	302	115	220	253	280	325904	19
SOUTHADOW-CARRSCRN_115_153	153	115	128	147	159	326162	20
SOUTHADOW-CARRSCRN_115_154	154	115	128	147	159	326164	11
SP697071-STA_93__115_917	917_910	115	125	143	155	326084	18
SPIERFLS-BUTLER__115_4	4-SFB	115	105	114	134	26136	35
SPIERFLS-CURTPALM_115_9	9	115	105	114	134	326145	25
SPIERFLS-MOHICAN__115_7	7	115	116	120	145	26435	30
SPIERFLS-QUENSBRY_115_5	5-SFQ	115	116	120	145	26141	53
SPIERFLS-TAPBROOK_115_2	2	115	232	241	291	25874	2
SPIERFLS-TAPBROOK_115_302	302	115	182	197	248	25873	3

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
SPRINGVL-ARCADE__115_151	151	115	129	148	160	326167	20
SPRINGVL-MACHIAS__115_152	152	115	129	148	160	326171	12
SPRNBRK__345_138_BK N7	BK N7	345	284	397	417	25628	231
SPRNBRK__345_138_BK S6	BK S6	345	284	397	417	25625	216
SPRNBRK_-ACADEMY__345_M29	M29	345	474	719	1351	325756	311
SPRNBRK_-DUNWODIE_138_99941	99941	138	294	416	464	25245	215
SPRNBRK_-DUNWODIE_138_99942	99942	138	330	402	464	25246	230
SPRNBRK_-DUNWODIE_345_W75	W75	345	2331	2658	3202	25071	256
SPRNBRK_-EGRDNCTR_345_Y49	Y49	345	637	900	1329	25105	637
SPRNBRK_-TREMONT__345_X28	X28	345	465	675	1182	25175	401
SPRNBRK_-W49TH_ST_345_M51	M51	345	760	927	1527	25053	240
SPRNBRK_-W49TH_ST_345_M52	M52	345	760	927	1527	25223	240
ST_60_36-LOCKPORT_115_36	36-2	115	145	151	178	26049	63
ST_60_37-LOCKPORT_115_37	37-2	115	145	151	171	26048	65
STA_113_-SP697071_115_917	917_910	115	104	123	135	326080	70
STA_128_-STA_82__115_906	906	115	129	147	159	26303	30
STA_135_-STA_230__115_929	929	115	226	249	269	325839	50
STA_158_-STA_128__115_924	924	115	129	147	159	26654	28
STA_162_-S.PERRY__115_906- 7X	906-7X	115	111	131	143	25062	21
STA_162_-STA_158__115_924	924	115	129	147	159	26653	3
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	182	197	248	70028	0
STA_230_-QUAKERRD_115_929	929	115	226	249	269	325840	38
STA_251_-MORTIMER_115_901	901	115	182	197	248	25097	0
STA_33__115_34_BK10	BK 1_2	115	75	90	132	70541	53
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	91
STA_37__-STA_67__115_926	926	115	250	280	300	26313	135
STA_418_-STA_113__115_917	917_910	115	129	147	159	326069	81
STA_48__115_34_BK 6	BK 6	115	57	66	69	70544	33
STA_48__115_34_BK 9	BK 9	115	59	66	112	70543	32
STA_56__115_34_BK 1	BK 1B	115	55	56	56	70473	48
STA_56__115_34_BK 2	BK 2	115	55	56	56	70545	43
STA_56__-QUAKERRD_115_23	23	115	145	151	153	26288	65
STA_56__-STA_82__115_23	42423	115	145	151	185	26287	23
STA_67__-ROCHESRG_115_922	922	115	311	364	376	26321	196
STA_67__-STA_418__115_910	910	115	175	211	239	326048	64
STA_67__-STA_82__115_903	903	115	311	364	384	26322	123
STA_7__-STA_48__115_919	919	115	226	249	269	26302	65
STA_7__-STA_93__115_917	917_910	115	104	122	141	26301	25
STA_82__-MORTIMER_115_7X8272	7X8272	115	258	358	410	25098	130
STA_82__-ROCHESRG_115_904	904	115	506	584	618	25081	308
STA_82__-ROCHESRG_115_905	905	115	506	584	618	26305	272
STA_82__-STA_251__115_902	902	115	175	211	239	70058	0
STATE_ST-WRGTAVE_115_976	976	115	185	221	239	26200	13

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
STERLING_138_69__BK 3	BK 3	138	195	263	302	26524	146
STERLING-RULAND__138_663	663	138	195	263	302	26498	147
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
STLAWRNC-MOSES__230_L33P	L33P	240	349	411	465	25026	0
STLAWRNC-MOSES__230_L34P	L34P	240	349	411	465	25037	0
STOLLERD_345_115_BK 3	BK 3	345	288	333	420	25461	14
STOLLERD_345_115_BK 4	BK 4	345	296	390	420	25462	14
STOLLERD-HISHELDN_230_67	67	230	417	479	533	25064	98
STONCREK-WETHSRFD_230_83	83	230	417	479	533	325973	108
STONER__-ROTTRDAM_115_12	12-SR	115	84	84	84	25680	4
STONYRDG_230_115_BK1	BK1	230	247	336	336	325811	79
STONYRDG-HILLSIDE_230_72	72	230	498	574	653	325810	15
SUGARISL-COLTON__115_4	4	115	181	197	248	26084	10
SUGRLOAF_138_69__BK 6108	BK 6108	115	189	222	250	26333	72
SUGRLOAF_138_69__BK 7108	BK 7108	138	192	226	253	25891	63
SUGRLOAF-RAMAPOOR_138_26	26	138	264	300	316	25326	0
SUGRLOAF-RAMAPOOR_138_28	28	138	236	270	285	325774	0
SULLVNP-K-STONYRDG_115_712	712	115	235	272	313	325809	78
SUNY_BUF-GARDNVLB_230_79	79-1	230	566	654	699	25165	302
SUNY_BUF-GARDNVLB_230_80	80-1	230	566	654	722	25196	298
SWAGRTWN-TAPBLSTN_115_1	1	115	271	314	359	325895	76
SWAGRTWN-TAPBROOK_115_2	2	115	232	241	291	325894	156
SWANROAD-LOCKPORT_115_104	104	115	168	181	199	26050	0
SWANROAD-SHAWNERD_115_103	103	115	168	181	206	326181	83
SWEDEN__-MORTIMER_115_111	111	115	129	149	153	25347	4
SWEDEN__-MORTIMER_115_113	113	115	129	149	153	25348	7
SWEDEN__-SHELBY76_115_113	113	115	143	165	180	326131	33
SYLVANLK-PAWLING__115_990	990	115	203	227	239	26156	105
SYOSSET_138_69__BK 5	BK 5	138	227	263	302	26565	117
SYOSSET__-LOCUSTGR_138_559	559	138	434	480	586	25904	163
TALLMAN__-MONSEY__138_602	602	138	425	451	475	325609	196
TAPBLSTN-TAPBROOK_115_302	302	115	220	252	280	325898	43
TAYLORVL-BULYMO__115_6	6	115	105	114	124	26070	58
TAYLORVL-LOWVILLE_115_5	5-TL	115	102	114	134	26107	63
TEALLAVE-ASH____115_7-TA	7-TA	115	120	148	148	26063	38
TEALLAVE-ASH____115_8-AT	8-AT	115	120	148	148	26117	38
TEALLAVE-BM_CC_GM_115_6	6	115	187	213	236	26154	56
TEALLAVE-CURTIS__115_13	13	115	187	199	199	326066	13
TEALLAVE-ONEIDA__115_2	2-OT	115	116	120	145	25895	50
TEALLAVE-PETERBOR_115_5	5	115	116	120	145	325164	60
TELGRAPH_115_34__114__BK 2	BK 2	115	52	63	63	26509	19
TELGRAPH-N.AKRON__115_107	107	115	179	179	179	26508	41
TELGRAPH-SHELBY76_115_114	114	115	129	149	153	25349	27
TEMPLE__-PEAT ST_115_10	10-TP	115	119	152	179	26715	60
TICONDRG-REPUBLIC_115_914(2)	914(2)	115	64	64	64	26470	6
TILDEN__-DEWITT__115_19	19-TD	115	182	197	236	26092	37

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
TODDHILL-FISHKPLN_115_A	A	115	232	253	304	325157	29
TREMONT__138A_138B_BK 11	BK 11	138	243	279	312	25649	200
TREMONT__138C_138D_BK 12	BK 12	138	243	279	312	25650	200
TREMONT__345_138_BK 11	BK 11	345	245	299	339	25473	200
TREMONT__345_138_BK 12	BK 12	138	246	299	339	25474	200
TREMONT_-PARKCHTR_138_38X01	38X01	138	180	320	526	25120	100
TREMONT_-PARKCHTR_138_38X02	38X02	138	180	320	526	25121	100
TREMONT_-PARKCHTR_138_38X03	38X03	138	190	318	526	25122	100
TREMONT_-PARKCHTR_138_38X04	38X04	138	190	318	526	25123	100
TULLERHL-CLRKSCRN_115_1-716	1-716	115	128	147	159	26192	11
URBAN154-DALEROAD_115_39	39	115	174	181	226	326152	64
URBAN154-NEWWALDN_115_38	38	115	174	181	226	326151	67
VALKIN_-FT._ORAN_115_15	15	115	186	214	237	325685	97
VALLEY_-FAIRFIEL_115_12	12	115	116	120	145	325743	53
VALLYSTR_138A_138B_PAR	B_PAR	138	285	357	428	25607	123
VALLYSTR-BARRETT__138_291	291	138	214	301	418	25312	136
VALLYSTR-BARRETT__138_292	292	138	214	301	418	25313	153
VALLYSTR-EGRDNCTY_138_262	262	138	200	276	479	25244	140
VERNON_-GREENWD__138_31231	31231	138	174	226	247	25337	21
VERNON_-KENTAVE__138_31232	31232-1	138	174	226	247	26123	34
VINGR_TP-VINEGAR__115_917 TAP	917 TAP	115	125	152	193	26455	3
VOLNEY_-CLAY____345_6	6	345	1109	1344	1686	25198	828
VOLNEY_-MARCY____345_19	19	345	1434	1650	1971	25345	752
VRNON VT-FITZWILL_345_379	379	345	896	896	896	26388	177
VT YANK_-VRNON VT_345_3340	3340	345	1224	1230	1434	25717	24
W.NYACK__138_69__BK 221	BK 221	138	212	281	319	26334	93
W.NYACK_-SNKEHLRD_138_562	563	138	212	267	281	325906	93
W_ERIAVE-HICKLING_115_935	935	115	120	120	120	325568	7
W_ERIAVE-SULLVNPk_115_711	711	115	245	272	313	325808	58
W49TH_ST-E13THSTA_345_M54	M54	345	753	986	1566	25228	63
W49TH_ST-E13THSTA_345_M55	M55	345	753	986	1566	25222	165
WADNGRIV-NSHORBCH_138_878	878	138	434	480	586	325642	20
WADNGRIV-SHOREHAM_138_891	891	138	434	480	586	25342	20
WALCK_RD-ZIMMERM2_115_133	133-1	115	168	185	206	26153	166
WALDEN_-DEPEW_TP_115_54-921	54-2	115	119	119	119	26024	56
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	444
WALDWICK-SMAHWAH__345_K3411	K3411	345	675	1041	1920	25039	558
WALESVIL-CAVANARD_115_7	7	115	116	120	145	325213	41
WARNSBRG-SCOFLDRD_115_10	10	115	105	114	119	326148	39
WARREN_-FALCONER_115_171	171	115	116	116	119	25015	11
WATKINRD-INGHAM_C_115_2	2-WI	115	116	120	145	25805	62
WATRCURE_345_230_BK 1	BK 1	345	426	520	600	25402	126
WATRCURE-OAKDALE__230_71	71	230	275	400	440	25179	20
WATRCURE-OAKDALE__345_31	31	345	963	1074	1076	25178	71

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
WBALMVLE-MARLBORO_115_MW	MW	115	198	230	260	326090	38
WEST BUS-SILLSRD_138_873	873	138	487	543	623	325618	4
WETHSRFD-MEYER_230_85/87	85	230	417	479	533	325623	120
WETZEL_-CLAY_115_7	7-CL	115	220	252	280	326207	3
WHAVSTOR-LOVETT_138_53	53	138	236	270	285	25884	15
WHAVSTOR-STONYPNT_138_542	542	138	236	270	285	326049	25
WHAVSTRW_345_138_BK 194	BK 194	345	451	546	619	25447	262
WHITEHAL-COMSTKNM_115_13	13	115	116	120	145	25903	25
WHITEHAL-TICONDRG_115_3	3	115	116	120	145	26471	35
WICCOPEE-SHENDOAH_115_FS	FS	115	194	214	240	325773	40
WILDWOOD_138_69_BK 4	BK 4	138	227	263	302	26550	61
WILDWOOD-RIVRHEAD_138_890	890	138	291	321	372	25905	149
WILLET_-ENORWICH_115_945	945-1	115	108	128	145	25732	65
WILLIS_230_115_BK 1	BK 1	230	150	184	216	25388	34
WILLIS_230_115_BK 2	BK 2	230	150	184	216	25390	34
WILLIS_-CHAT_TAP_115_1(911)	911	115	138	154	170	26204	36
WILLIS_-PATNODE_230_WPN-1	WPN-1	230	433	499	561	325565	69
WILLIS_-RYAN_230_WRY-2	WRY-2	230	397	459	503	325566	69
WILLWBRK-FRESHKLS_138_29211	29211-2	138	182	262	439	25319	139
WILLWBRK-FRESHKLS_138_29212	29212-2	138	182	262	439	25320	154
WOLF_RD_-MENANDS_115_10	10	115	105	114	117	26255	82
WOOD_ST_345_115_BK 1	BK 1	345	302	354	420	25437	128
WOOD_ST_345_115_BK 2	BK 2	345	311	368	420	25438	109
WOOD_ST_-MILLWOOD_345_W80	W80	345	1720	2215	2657	25148	576
WOOD_ST_-MILLWOOD_345_W81	W81	345	1720	2215	2657	25525	653
WOOD_ST_-PLSNTVLE_345_Y87	Y87	345	1775	1977	2265	25132	721
WOODARD_-ELBRIDGE_115_4	4	115	156	179	195	325316	39
WOODLAWN-STATE_CA_115_12	12	115	116	120	145	26490	26
WOODSTNY-AMAWALK_115_996	996	115	215	247	275	25574	100
WRGHTAVE-MILLIKEN_115_973	973	115	185	221	249	26195	36
WWDBURNY_115_69_BK 1	BK 1	115	48	50	50	25404	15
WYNTKLMN-REYNOLDS_115_13-988	13-WR	115	186	214	237	26143	86
YAHNUNDA-PORTER_115_3	3	115	116	120	145	26515	63
ZIMMERM1-HUNTLEY_115_130	130-1	115	168	181	206	26043	0
ZIMMERM2-HUNTLEY_115_133	133-2	115	168	181	206	26042	131



## D. INTERFACE DEFINITIONS

### NYISO OPERATING INTERFACES & OASIS TRANSMISSION PATHS

<b>DYSINGER EAST</b>		
<i>West (Zone A) – Genesee (Zone B)</i>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage (kV)</b>
*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-Shelby	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	157-932	115

<b>MOSES SOUTH</b>		
<i>North (Zone D) – Mohawk Valley (Zone E)</i>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage (kV)</b>
*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***Hudson Valley (Zone G) – Millwood (Zone H)*

<b>Name</b>	<b>Line ID</b>	<b>Voltage (kV)</b>
*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*	RFK305	345
*Fishkill Plains–Sylvan Lake	FP/990	115
East Fishkill 115/345*	BK1	115/345
East Fishkill 115/345*	BK2	115/345

**CENTRAL EAST***Mohawk Valley (Zone E) – Capital (Zone F)*

<b>Name</b>	<b>Line ID</b>	<b>Voltage (kV)</b>
Edic-New Scotland*	14	345
Marcy-New Scotland*	18	345
Porter-Rotterdam*	30	230
Porter-Rotterdam*	31	230
East Springfield-Inghams*	7-942	115
Inghams PAR	PAR	115
Inghams Bus Tie	R81	115

<i>North (Zone D) – ISONE (Zone N)</i>		
*Plattsburgh-Sand Bar	PV20	115

\* indicates the metered end of the circuit

<b>TOTAL EAST</b>		
<i>Mohawk Valley (Zone E) – Capital (Zone F)</i>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage (kV)</b>
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*	7-942	115
Inghams PAR	PAR	115
Inghams Bus Tie	R81	115
<i>Mohawk Valley (Zone E) – Hudson Valley (Zone G)</i>		
Middletown-Rock Tavern*	CCCRT-34	345
Coopers-Rock Tavern*	CCRT-42	345
Middletown 345*/138	BK114	345/138
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>		
Marion-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

<b>SPRAIN BROOK-DUNWOODIE SOUTH</b>		
<i>Dunwoodie (Zone I) – NYC (Zone J)</i>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage (kV)</b>
*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

<b>CONED - LIPA</b>		
<i>Dunwoodie (Zone I) – Long Island (Zone K)</i>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage (kV)</b>
*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

<b>NYISO-ISONE</b>		
<i>North (Zone D) – ISONE (Zone N)</i>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage (kV)</b>
*Plattsburgh-Sand Bar	PV20	115
<i>Capital (Zone F) – ISONE (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) – ISONE (Zone N)</i>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage (kV)</b>
*Pleasant Valley-Long Mountain	398	345
Smithfield-Salisbury*	690/FV	69

\* indicates the metered end of the circuit

<b>PJM-NYISO</b>		
<i>PJM East (Zone P) – NYC (Zone J)</i>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage (kV)</b>
Marion-Farragut*	C3403	345
Hudson-Farragut*	B3402	345
Linden-Goethals*	A2253	230
<i>PJM West – Central (Zone C)</i>		
*Mainesburg-Watercure	30	345
*Mainesburg-Mainesburg NY	47	345
*Homer City-Homer City NY	47	345
E. Towanda-Hillside*	70	230
Laurel Lake-Goudey*	952	115
*E. Sayre-N. Waverly	956	115
<i>PJM West – West (Zone A)</i>		
*Pierce Brook-Five Mile Road	37	345
*Pierce Brook-Pierce Brook NY	48	345
*Homer City-Homer City NY	48	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

<b>IESO (Ontario)-NYISO</b>		
<i>Ontario East (Zone O) – North (Zone D)</i>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage (kV)</b>
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

\* indicates the metered end of the circuit

## **E. ANNOTATED MUST OUTPUT**

**This Section Is Available Electronically If Requested**

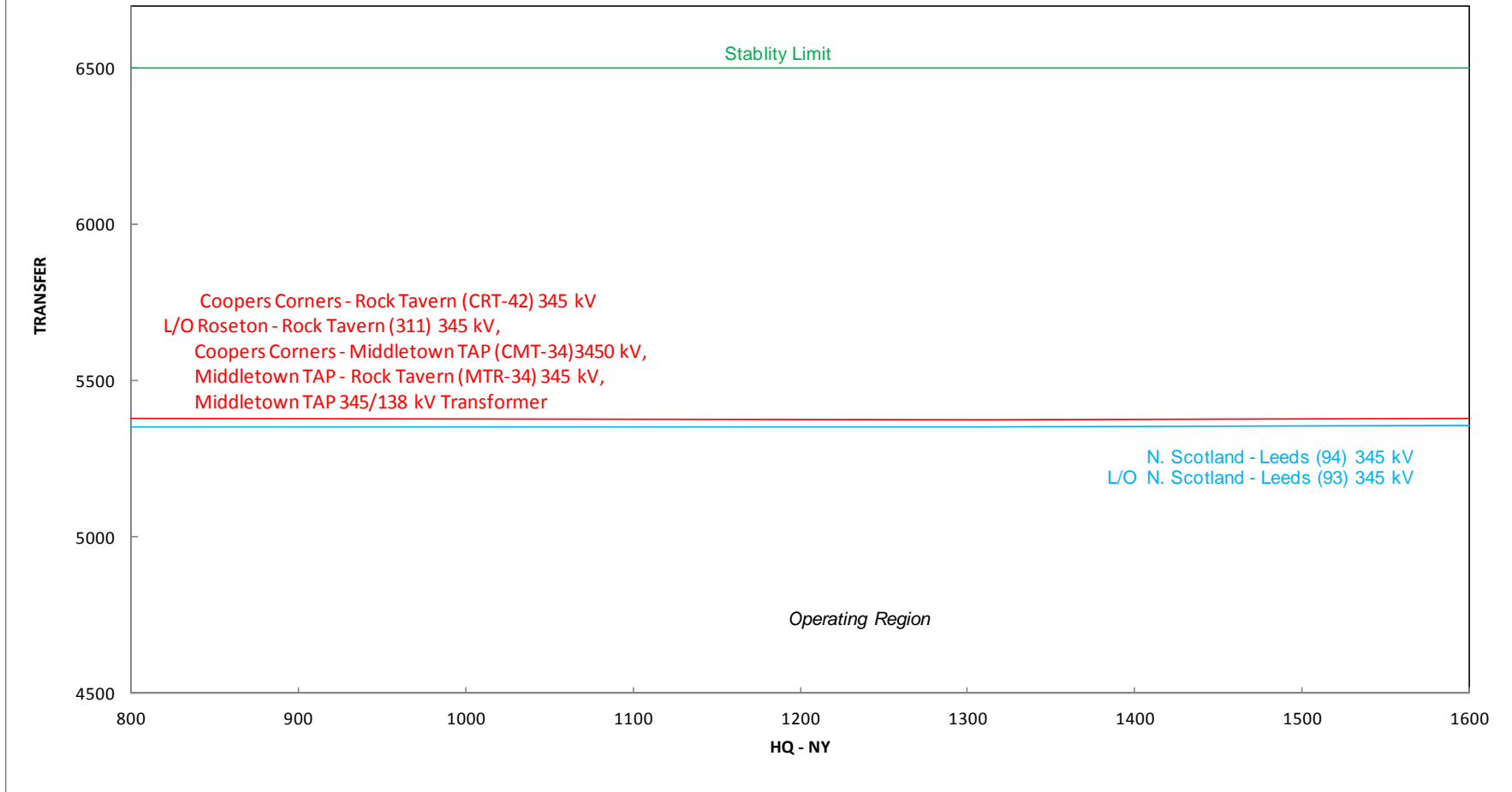
## F. TRANSFER LIMIT SENSITIVITY GRAPHS

### INDEX

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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7. IESO (ONTARIO) - NY Transfer vs. NYCA System Load (68&171 Lines Out-of-Service)	.....	G-7

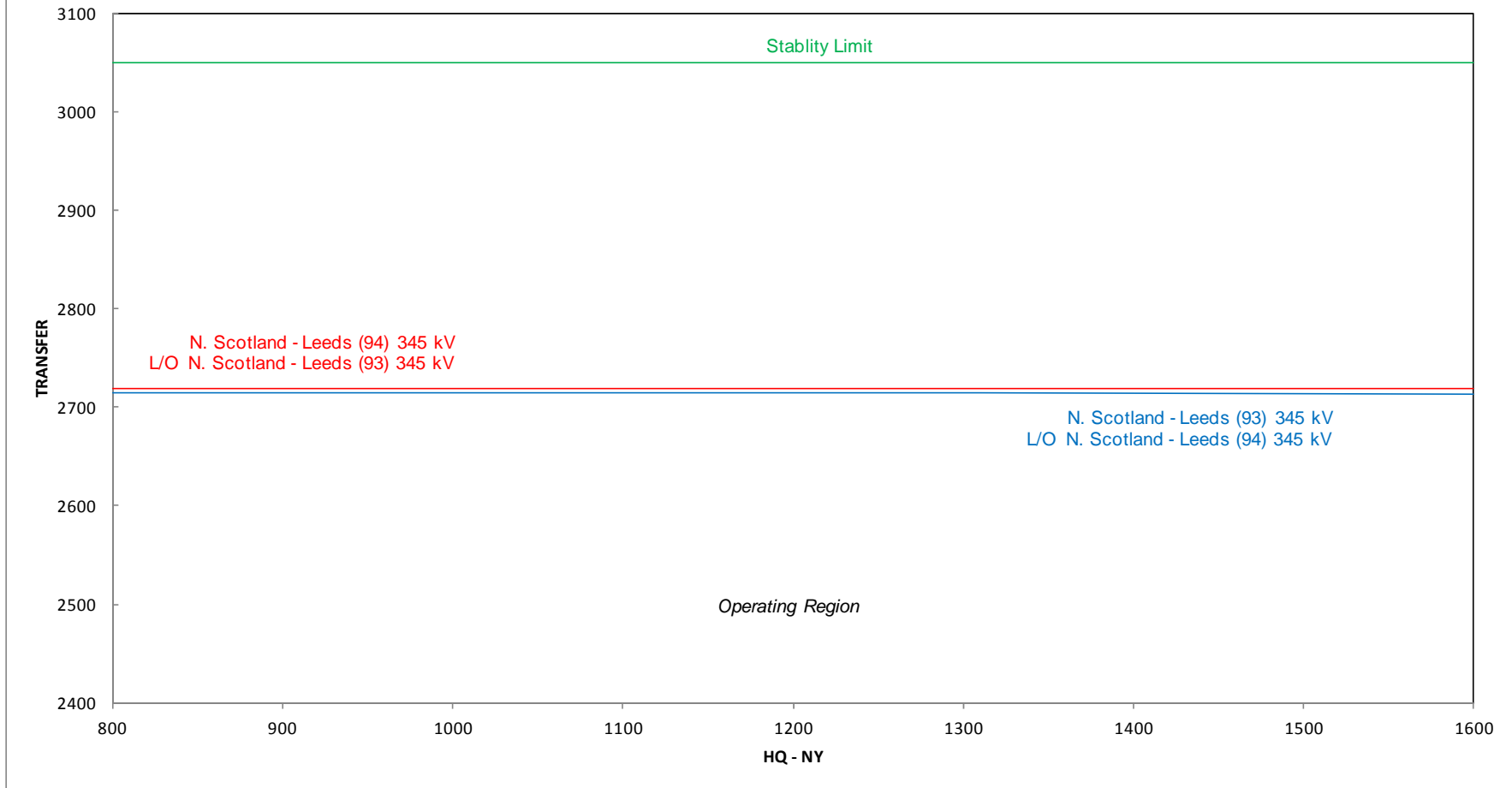


**Total East vs. HQ Export to New York**  
**For Normal Transfer Criteria**  
**Summer 2016**



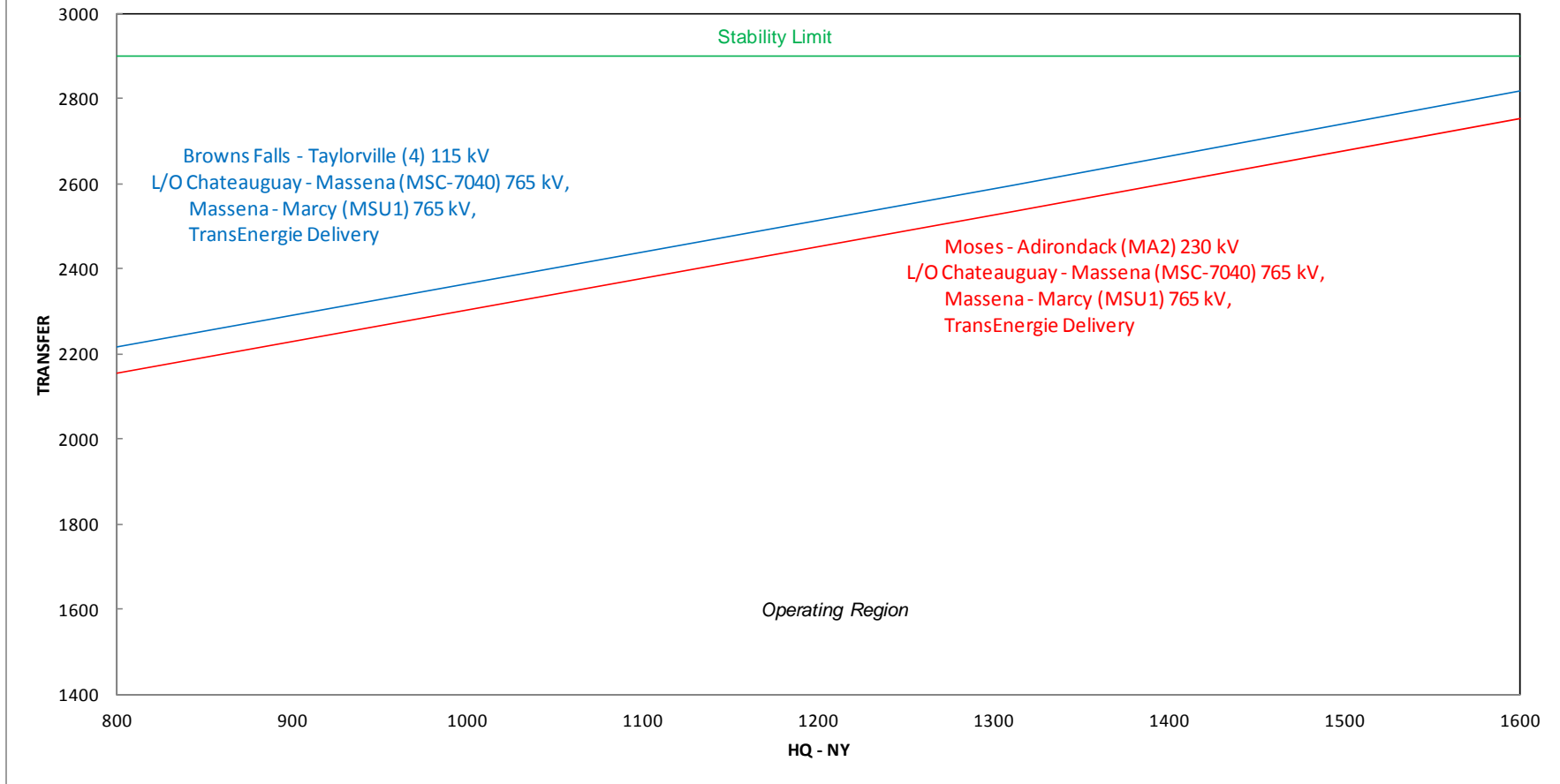
G-1

**Central East vs. HQ Export to New York**  
**For Normal Transfer Criteria**  
**Summer 2016**



G-2

**Moses South vs. HQ Export to New York**  
**For Normal Transfer Criteria**  
**Summer 2016**

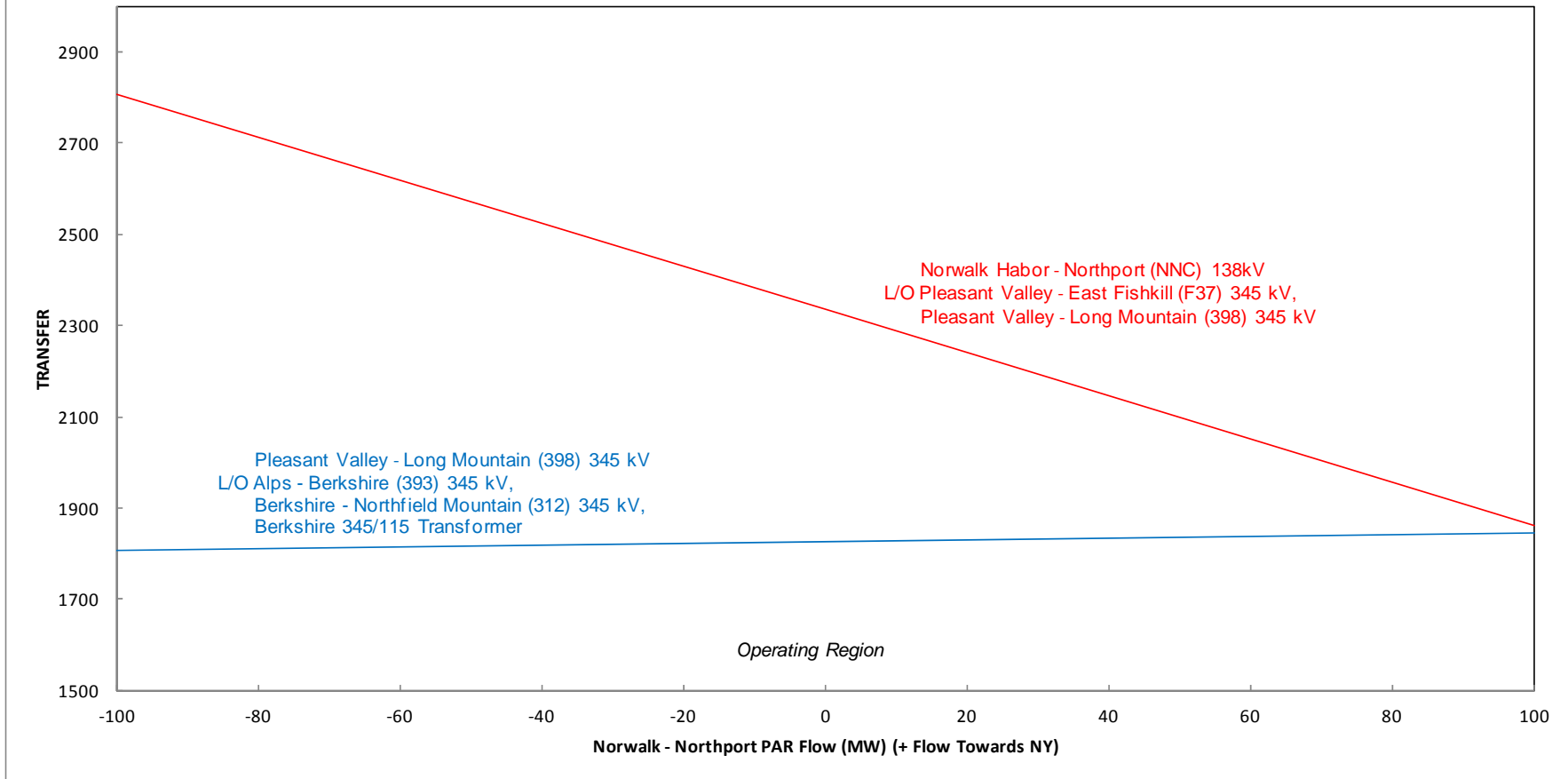


G-3

### NE-NY vs. NORWALK-NORTHPORT PAR Flow

For Normal Transfer Criteria

Summer 2016

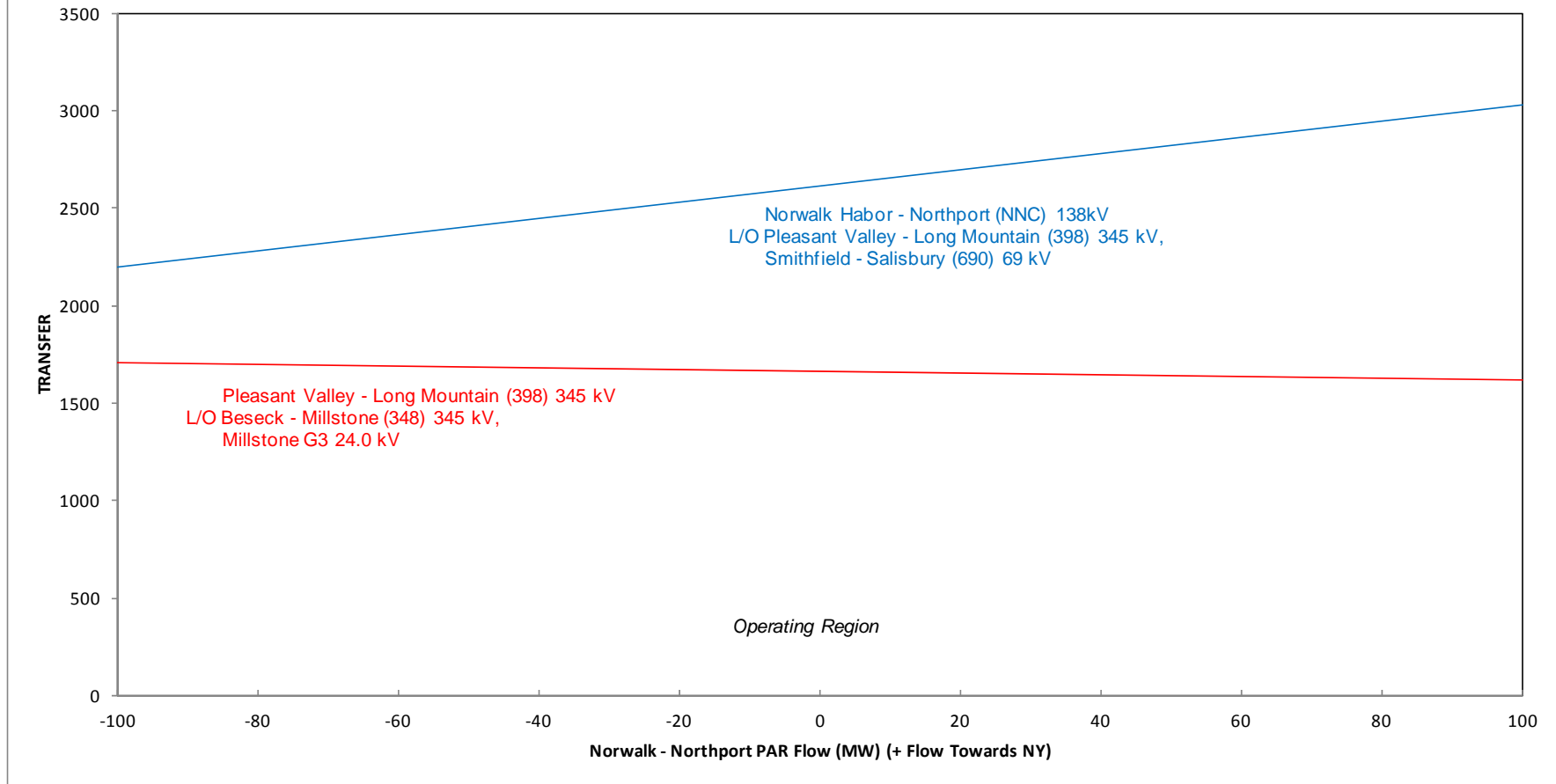


G-4

## NY-NE vs. NORWALK-NORTHPORT PAR Flow

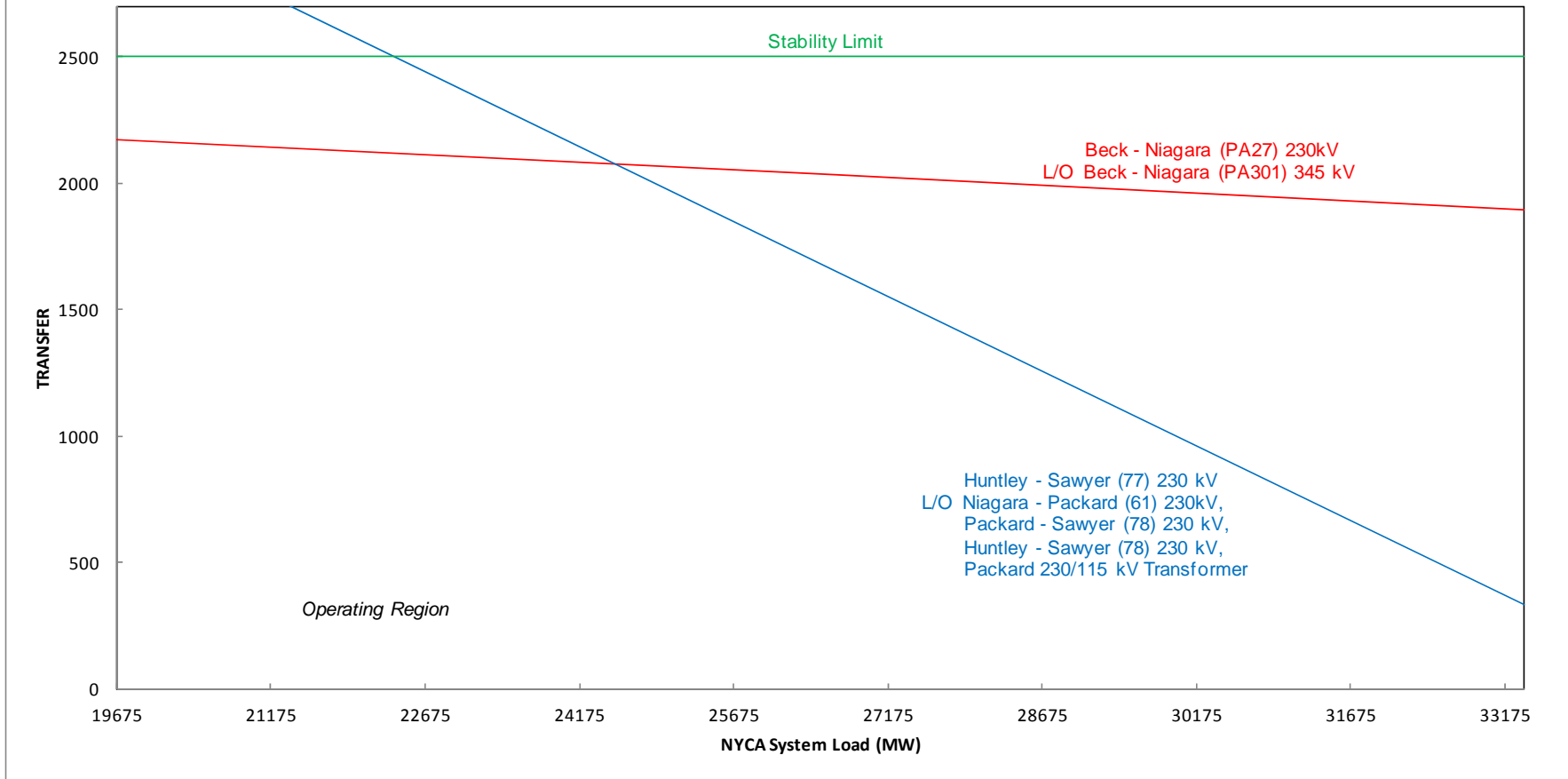
For Normal Transfer Criteria

Summer 2016



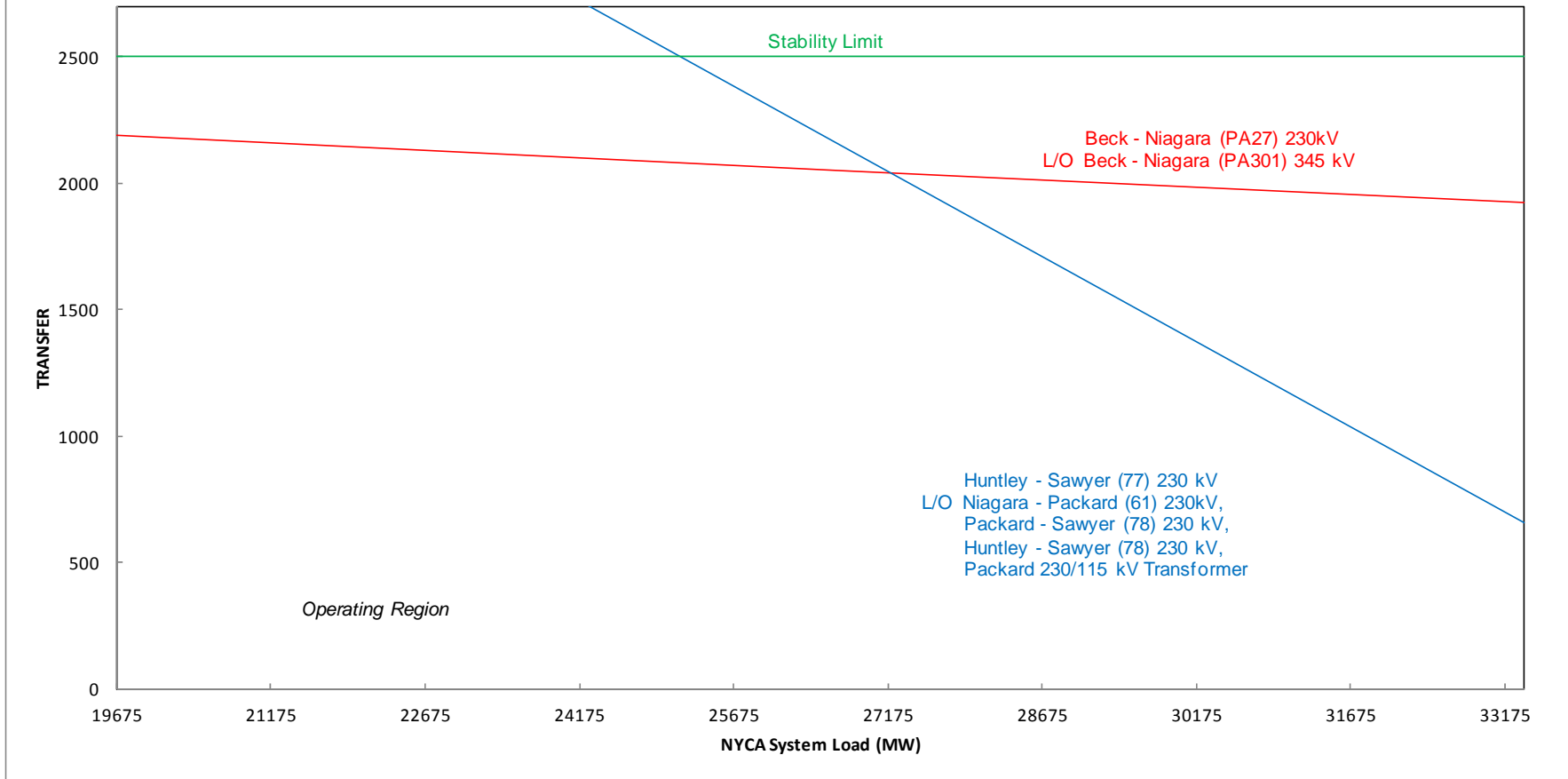
G-5

**IESO (Ontario) - NY Transfer vs. NYCA System Load**  
**For Normal Transfer Criteria (All Lines In-Service)**  
**Summer 2016**



G-6

**IESO (Ontario) - NY Transfer vs. NYCA System Load**  
**For Normal Transfer Criteria (68 & 171 Lines Out-of-Service)**  
**Summer 2016**



G-7

## H. COMPARISON OF TRANSFER LIMITS SUMMER 2016 vs. 2015

### Comparison of Summer 2016 to Summer 2015 Thermal Limits

		SUMMER 2016		SUMMER 2015		
Interface		Limit (MW)	Contingency	Limit (MW)	Contingency	Delta
Dysinger East	Normal	950	1	1675	2	-725
	Emergency	1375	3	2350	4	-975
UPNY - ConEd	Normal	4175	5	3600	5	575
	Emergency	4900	6	4225	6	675
Sprain Brook	Normal	4200	7	4150	7	50
Dunwoodie-South	Emergency	4225	8	4150	8	75
Con Ed - LIPA	Normal	875	9	900	9	-25
	Emergency	1450	10	1450	10	0
Central East	<b>MSC-7040 FLOW</b>	<b>1600 MW</b>		<b>1600 MW</b>		
	Normal	2700	11	2900	11	-200
	Emergency	2775	12	3200	13	-425
	<b>MSC-7040 FLOW</b>	<b>1310 MW</b>		<b>1310 MW</b>		
	Normal	2700	11	2900	11	-200
	Emergency	2775	12	3200	13	-425
	<b>MSC-7040 FLOW</b>	<b>800 MW</b>		<b>800 MW</b>		
	Normal	2700	11	2900	11	-200
	Emergency	2775	12	3200	13	-425
Total East <sup>1</sup>	<b>MSC-7040 FLOW</b>	<b>1600 MW</b>		<b>1600 MW</b>		
	Normal	5350	11	4975	11	375
	Emergency	5425	14	5625	13	-200
	<b>MSC-7040 FLOW</b>	<b>1300 MW</b>		<b>1300 MW</b>		
	Normal	5350	11	4975	11	375
	Emergency	5425	14	5625	13	-200
	<b>MSC-7040 FLOW</b>	<b>800 MW</b>		<b>800 MW</b>		
	Normal	5350	11	4975	11	375
	Emergency	5425	14	5625	13	-200
Moses - South	<b>MSC-7040 FLOW</b>	<b>1600 MW</b>		<b>1600 MW</b>		
	Normal	2625	15	2650	18	-25
	Emergency	2625	15	2650	15	-25
	<b>MSC-7040 FLOW</b>	<b>1300 MW</b>		<b>1300 MW</b>		
	Normal	2525	16	2425	18	100
	Emergency	2575	17	2675	15	-100
	<b>MSC-7040 FLOW</b>	<b>800 MW</b>		<b>800 MW</b>		
	Normal	2150	16	2050	18	100
	Emergency	2200	17	2550	19	-350

<sup>1</sup> Limits in this report do not include Neptune in the Total East Interface.



**NYISO SUMMER 2015 CROSS-STATE THERMAL LIMIT CONTINGENCY LIST**

	<b>Limiting Element</b>				<b>Contingency</b>
(1)	Packard – Sawyer (77) 230 kV	LTE	644 MW	L/O	Niagara – Packard (61) 230 kV Packard – Sawyer (78) 230 kV Sawyer – Huntley (78) 230 kV Packard 230/115 kV Transformer BK3
(2)	Huntley – Sawyer (80) 230 kV	LTE	654 MW	L/O	Huntley – Sawyer (79) 230 kV
(3)	Packard – Sawyer (77) 230 kV	STE	704 MW	L/O	Packard – Sawyer (78) 230 kV
(4)	Huntley – Sawyer (80) 230 kV	STE	755 MW	L/O	Huntley – Sawyer (79) 230 kV
(5)	Leeds – Pleasant Valley (92) 345 kV	LTE	1538 MW	L/O	Athens – Pleasant Valley (91) 345 kV
(6)	Leeds – Pleasant Valley (92) 345 kV	STE	1724 MW	L/O	Athens – Pleasant Valley (91) 345 kV
(7)	Dunwoodie – Mott Haven (71) 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
(8)	Dunwoodie – Mott Haven (71) 345 kV	NORM	707 MW		Pre-Contingency Loading
(9)	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
(10)	Dunwoodie – Shore Rd. (Y50) 345 kV	NORM	653 MW		Pre-Contingency Loading
(11)	New Scotland – Leeds (94) 345 kV	LTE	1538 MW	L/O	New Scotland – Leeds (93) 345 kV
(12)	Fraser – Coopers Corners (33) 345 kV	STE	1703 MW	L/O	Marcy – Fraser Annex (UCC2-41) 345 kV (Series Capacitor)
(13)	New Scotland – Leeds (94) 345 kV	STE	1724 MW	L/O	New Scotland – Leeds (93) 345 kV
(14)	Coopers Corners – Middletown TAP (CMT-34) 345 kV	STE	1793 MW	L/O	Coopers Corners – Rock Tavern (CRT-42) 345 kV
(15)	Marcy 765/345 kV T2 Transformer	STE	1971 MW	L/O	Marcy 765/345 kV T1 Transformer
(16)	Moses – Adirondack (MA2) 230 kV	LTE	386 MW	L/O	Chateauguay–Massena (MSC-7040) 765 kV Massena – Marcy (MSU1) 765 kV and TransÉnergie delivery
(17)	Browns Falls – Taylorville (4) 115 kV	STE	126 MW	L/O	Chateauguay–Massena (MSC-7040) 765 kV Massena – Marcy (MSU1) 765 kV and TransÉnergie delivery
(18)	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

(19) Browns Falls – Taylorville (4) 115 kV

STE

126 MW

L/O

Browns Falls – Taylorville (3) 115 kV

# 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		
<b>DYSINGER EAST</b>									
155713	LENNOX_GS-2	500.0	20.0	520.0	126340	KEYSPG-1	146.0	142.5	-3.5
156676	PICK_A_GS-4	518.6	20.0	538.6	126652	RAV 3	957.7	922.7	-35.0
158740	NANTICOKE_G5	0.0	20.0	20.0	126654	AST 3	373.8	367.8	-6.0
159615	BRUCE_A_GS-3	0.0	20.0	20.0	126656	AST 5	208.8	206.8	-2.0
159616	BRUCE_A_GS-4	0.0	20.0	20.0	126658	RAV 2	364.1	358.1	-6.0
					126660	COGENGT2	55.7	54.2	-1.5
					126661	COGENGT3	55.7	54.2	-1.5
					126662	COGENGT4	56.0	54.0	-2.0
					126663	COGENGT5	55.7	53.7	-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	223.0	216.5	-6.5
					129025	NRTPTG2	240.0	233.5	-6.5
					129026	NRTPTG3	240.0	233.5	-6.5
					148708	Q308_GT1	156.8	154.8	-2.0
					148709	Q308_GT2	156.8	154.8	-2.0
					148710	Q308_ST	225.2	218.2	-7.0
<b>UPNY - CONED</b>									
131831	NOEND1G\$	0.0	6.0	6.0	126251	ER G6	136.0	134.0	-2.0
136702	OSWGO 5G	619.5	639.5	20.0	126340	KEYSPG-1	146.0	142.0	-4.0
147763	MOS17-18	11.8	15.8	4.0	126652	RAV 3	957.7	929.7	-28.0
158740	NANTICOKE_G5	0.0	20.0	20.0	126654	AST 3	373.8	368.8	-5.0
158741	NANTICOKE_G6	0.0	20.0	20.0	126656	AST 5	209.0	207.0	-2.0
159615	BRUCE_A_GS-3	0.0	30.0	30.0	126657	RAV 1	360.0	353.0	-7.0
					126658	RAV 2	364.1	357.1	-7.0
					126660	COGENGT2	55.7	53.7	-2.0
					126661	COGENGT3	55.7	53.7	-2.0
					126662	COGENGT4	56.0	54.0	-2.0
					126663	COGENGT5	55.7	53.7	-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	223.0	218.0	-5.0
					129025	NRTPTG2	240.0	235.5	-4.5
					129026	NRTPTG3	240.0	235.5	-4.5
					129027	NRTPTG4	240.0	236.0	-4.0
					147788	POLETGT2	150.6	147.6	-3.0
					147789	POLETSTG	157.8	153.8	-4.0
					147790	POLETGT1	150.6	147.1	-3.5

<----- STUDY SYSTEM ----->					<----- OPPOSING SYSTEM ----->				
<----- GENERATOR MW----- >					<----- GENERATOR MW----- >				
BUS NAME	BASE	SHIFT	CHANGE		BUS NAME	BASE	SHIFT	CHANGE	
<b>SPRAIN BROOK DUNWOODIE - SOUTH</b>									
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	72.0	69.0	-3.0
136702	OSWGO 5G	619.5	629.5	10.0	126652	RAV 3	957.7	927.7	-30.0
147763	MOS17-18	11.8	14.2	2.4	126654	AST 3	373.8	365.8	-8.0
158740	NANTICOKE_G5	0.0	20.0	20.0	126657	RAV 1	360.0	355.0	-5.0
158743	NANTICOKE_G8	0.0	20.0	20.0	126658	RAV 2	364.1	3559.1	-5.0
159615	BRUCE_A_GS-3	0.0	20.0	20.0	126660	COGENGT2	55.7	52.7	-3.0
159616	BRUCE_A_GS-4	0.0	20.0	20.0	126661	COGENGT3	55.7	52.7	-3.0
					126662	COGENGT4	56.0	53.0	-3.0
					126663	COGENGT5	55.7	52.7	-3.0
					126692	SCS18-G4	165.0	162.0	-3.0
					126710	SCS18-G5	165.0	162.0	-3.0
					126711	SCS18-G6	223.0	217.0	-6.0
					147788	POLETGT2	150.6	147.6	-3.0
					147789	POLETSTG	157.8	153.8	-4.0
					147790	POLETGT1	150.6	148.6	-2.0
					148708	Q308_GT1	156.8	153.8	-3.0
					148709	Q308_GT2	156.8	153.8	-3.0
					148710	Q308_ST	225.2	220.2	-5.0
<b>CONED - LIPA</b>									
126379	AST 2	0.0	6.0	6.0	128901	BARETG2	181.0	163.0	-18.0
126650	AK 3	150.0	183.0	33.0	129025	NRTPTG2	240.0	224.0	-16.0
126653	AK 2	270.0	280.0	10.0	129026	NRTPTG3	240.0	224.0	-16.0
126659	COGENGT1	55.7	58.7	3.0	129027	NRTPTG4	240.0	224.0	-16.0
126660	COGENGT2	55.7	58.7	3.0	129092	PTJFEFG3	190.0	178.0	-12.0
126661	COGENGT3	55.7	58.7	3.0	129093	PTJFEFG4	174.0	162.0	-12.0
126662	COGENGT4	56.0	59.0	3.0	147821	NYPA108	40.0	35.0	-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					
<b>CENTRAL EAST, TOTAL EAST</b>									
136702	OSWGO 5G	619.5	632.5	13.0	126251	ER G6	136.0	134.5	-1.5
147763	MOS17-18	30.9	33.9	3.0	126340	KEYSPG-1	146.0	143.0	-3.0
148706	MRBLRV1_8G	21.5	28.5	7.0	126341	KEYSPST1	72.0	70.5	-1.5
155713	LENNOX_GS-2	500.0	515.0	15.0	126652	RAV 3	957.7	939.2	-18.5
155715	LENNOX_GS-4	0.0	14.0	14.0	126654	AST 3	373.8	370.8	-3.0
158740	NANTICOKE_G5	0.0	14.0	14.0	126656	AST 5	208.9	206.9	-2.0
158741	NANTICOKE_G6	0.0	14.0	14.0	126657	RAV 1	360.0	355.0	-5.0
159615	BRUCE_A_GS-3	0.0	20.0	20.0	126658	RAV 2	364.1	359.1	-5.0
					126660	COGENGT2	55.7	52.7	-3.0
					126661	COGENGT3	55.7	52.7	-3.0
					126663	COGENGT5	55.7	53.7	-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	233.0	220.0	-3.0	
				128901	BARETG2	181.0	179.0	-2.0	
				129025	NRTPTG2	240.0	236.0	-4.0	
				129026	NRTPTG3	240.0	236.0	-4.0	
				129027	NRTPTG4	240.0	236.0	-4.0	
				129071	CAITH-GT	160.0	156.0	-4.0	
				129072	CAITH-ST	126.0	123.0	-3.0	
				129092	PTJFEG3	190.0	188.0	-2.0	
				129093	PTJFEG4	174.0	172.0	-2.0	
				147788	POLETGT2	150.6	148.6	-2.0	
				147789	POLETSTG	157.8	153.8	-4.0	
				147790	POLETGT1	150.6	148.6	-2.0	
				148708	Q308_GT1	156.8	154.8	-2.0	
				148709	Q308_GT2	156.8	154.8	-2.0	
				148710	Q308_ST	225.2	220.7	-4.5	
<b>MOSES SOUTH</b>									
147763	MOS17-18	30.9	80.9	50.0	126652	RAV 3	957.7	932.7	-25.0
147766	MOS21-22	64.0	114.0	50.0	126654	AST 3	373.8	368.8	-5.0
					130873	SOMERSET24	676.0	666.0	-10.0
					136715	SITH-G1	145.0	135.0	-10.0
					136716	SITH-G2	145.0	135.0	-10.0
					136717	SITH-G3	145.0	135.0	-10.0
					136718	SITH-G4	145.0	135.0	-10.0
					136719	SITH-S5	160.0	150.0	-10.0
					136720	SITH-S6	160.0	150.0	-10.0

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

<----- GENERATOR MW----->				<----- GENERATOR MW----->			
BUS NAME	BASE	SHIFT	CHANGE	BUS NAME	BASE	SHIFT	CHANGE
<b>NY - ONTARIO</b>							
126379	AST 2	0.0	8.0	8.0	155714	LENNOX_GS-3	500.0 489.0 -11.0
126650	AK 3	150.0	159.0	9.0	156661	DARLINGTN_G1	928.4 917.4 -11.0
129024	NRTPTG1	240.0	244.0	4.0	156662	DARLINGTN_G2	931.1 920.1 -11.0
129025	NRTPTG2	240.0	244.0	4.0	156663	DARLINGTN_G3	920.1 909.1 -11.0
129026	NRTPTG3	240.0	244.0	4.0	156664	DARLINGTN_G4	888.2 876.2 -12.0
129027	NRTPTG4	240.0	244.0	4.0	156684	PICK_B_GS-6	508.3 497.3 -11.0
129096	PTJFGT3	189.9	190.9	1.0	156686	PICK_B_GS-8	522.0 511.0 -11.0
130841	SHLDN_GE_G1	11.2	13.2	2.0	159617	BRUCE_B_GS-5	863.7 852.7 -11.0
131126	WTHRS_GE_G1	12.6	15.6	3.0	159619	BRUCE_B_GS-7	600.0 589.0 -11.0
136702	OSWGO 5G	613.8	628.8	15.0			
137702	JMC2ST13	100.0	104.0	4.0			
147777	GILBOA#1	257.3	264.3	7.0			
147778	GILBOA#2	0.0	13.0	13.0			
147779	GILBOA#3	254.3	263.3	9.0			
147780	GILBOA#4	0.0	13.0	13.0			
<b>ONTARIO - NY</b>							
151720	ATIKOKAN_TGS	100.0	104.0	4.0	125190	ROSE GN1	597.7 593.7 -4.0
155713	LENNOX_GS-2	500.0	514.0	14.0	126652	RAV 3	957.7 943.7 -14.0
155715	LENNOX_GS-4	0.0	14.0	14.0	130873	SOMERSET24	635.2 617.2 -18.0
156676	PICK_A_GS-4	518.6	538.6	20.0	131461	CAYUGA 2	150.0 148.0 -2.0
156865	PORTLANDS_G3	182.1	190.1	8.0	131462	CAYUGA 1	151.0 148.0 -3.0
158740	NANTICOKE_G5	0.0	11.0	11.0	136703	OSWGO 6G	820.0 809.0 -11.0
158741	NANTICOKE_G6	0.0	11.0	11.0	136716	SITH-G2	145.0 140.0 -5.0
159615	BRUCE_A_GS-3	400.0	415.0	15.0	136717	SITH-G3	145.0 140.0 -5.0
160725	BRIGHTON_GT2	142.5	145.5	3.0	136719	SITH-G5	160.0 155.0 -5.0
					136720	SITH-G6	160.0 155.0 -5.0
					137458	ATHENSC2	182.0 178.0 -4.0
					137459	ATHENSS2	80.0 78.0 -2.0
					137714	BETH STM	260.0 256.0 -4.0
					147797	JAFITZ1G	835.0 817.0 -18.0
<b>NY - NE</b>							
126379	AST 2	0.0	7.0	7.0	100386	WESTBROOK C1	172.2 170.2 -2.0
126650	AK 3	150.0	163.0	13.0	100425	NEWPAGE COGN	100.0 96.0 -4.0
126665	COGENST2	56.1	57.1	1.0	103060	MIS G1	144.6 142.6 -2.0
126666	COGENST3	55.0	56.5	1.5	103061	MIS G2	144.6 142.6 -2.0
126737	RNY 7EGT	0.0	2.5	2.5	103062	MIS ST	153.7 151.7 -2.0
126738	RNY 7WGT	0.0	2.5	2.5	105476	NEWINGTON_C1	172.0 170.0 -2.0
126739	RNY 9EGT	0.0	2.5	2.5	105477	NEWINGTON_C2	172.0 170.0 -2.0
129024	NRTPTG1	265.0	270.0	5.0	105478	NEWINGTON_S1	206.0 204.0 -2.0
129025	NRTPTG2	265.0	270.0	5.0	105633	GRANITE R ST	250.0 246.0 -4.0
129026	NRTPTG3	265.0	270.0	5.0	106056	GRANITE RDG1	240.0 236.0 -4.0
129027	NRTPTG4	265.0	270.0	5.0	106057	GRANITE RDG2	240.0 236.0 -4.0
129059	W.BABGT4	0.0	1.0	1.0	111067	MYSTIC GT 8A	240.0 236.0 -4.0
129107	WADNGRV1	0.0	3.0	3.0	111068	MYSTIC 8ST	237.0 233.0 -4.0
129108	WADNGRV2	0.0	3.0	3.0	111069	MYSTIC GT 9A	242.0 238.0 -4.0
129109	WADNGRV3	0.0	3.0	3.0	111070	MYSTIC 9ST	239.0 235.0 -4.0

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

BUS NAME	BASE	SHIFT	CHANGE	BUS NAME	BASE	SHIFT	CHANGE
136702 OSWGO 5G	619.4	631.4	12.0	111071 MYSTIC GT 8B	240.0	236.0	-4.0
137702 JMC2ST13	100.0	104.0	4.0	111072 MYSTIC GT 9B	180.0	179.0	-1.0
147777 GILBOA#1	137.3	143.3	6.0	111095 ANP BLKSTN 1	278.0	275.0	-3.0
147779 GILBOA#3	196.8	202.8	6.0	114856 BRAYTN PT 4	421.0	402.0	-19.0
147780 GILBOA#4	0.0	12.0	12.0	121645 MONTVILLE_G5	81.0	79.0	-2.0
				121646 MONTVILLE_G6	402.0	388.0	-14.0
				122043 MIDDLETWN_G4	400.0	387.0	-13.0

**NE - NY**

105386 MERRIMACK_G2	343.5	344.5	1.0	125190 ROSE GN1	600.6	590.6	-10.0
105464 NEWINGTON_G1	0.0	19.0	19.0	125192 ROSE GN2	593.3	584.3	-9.0
111126 KENDALL CT	0.0	6.0	6.0	126651 IND PT 2	1020.1	1006.1	-14.0
113096 BEARSWAMP 1	220.0	223.0	3.0	136700 9M PT 2G	1286.8	1274.8	-12.0
114855 BRAYTN PT 3	0.0	17.0	17.0	137701 JMC2GT13	76.0	74.0	-2.0
116413 NORTHFIELD 3	0.0	11.0	11.0	137703 JMC2GT213	76.0	74.0	-2.0
116414 NORTHFIELD 4	0.0	11.0	11.0	137711 BETHGT1	155.0	152.0	-3.0
121560 PLAINFIELD	0.0	1.0	1.0	137713 BETHGT3	155.0	152.0	-3.0
122030 KLEEN_C1	120.0	123.0	3.0	146035 JMC_SELKIRK1	68.3	66.3	-2.0
122031 KLEEN_C2	120.0	123.0	3.0	146841 BOW1	577.8	565.8	-12.0
122032 KLEEN_S1	185.0	190.0	5.0	147777 GILBOA#1	137.3	134.3	-3.0
123653 NEW HAVN HBR	0.0	20.0	20.0	147797 JAFITZ1G	835.0	825.0	-10.0
				147798 IP#3 GEN	1034.0	1016.0	-18.0

**NY - PJM**

129025 NRTPTG2	305.0	308.0	3.0	Scale shift to all
129107 WADNGRV1	50.0	55.0	5.0	PJM generation
129108 WADNGRV2	50.0	55.0	5.0	
137456 ATHENSC1	182.0	193.0	11.0	
137458 ATHENSC2	182.0	192.0	10.0	
137713 BETHGT3	155.0	166.0	11.0	
146840 BOW2	327.1	331.1	4.0	
147778 GILBOA#2	0.0	23.0	23.0	
147780 GILBOA#4	0.0	23.0	23.0	
147787 BLISS2_GE_1G	2.8	4.8	2.0	
147800 BLISS1_GE_1G	7.2	10.2	3.0	

**PJM - NY**

Scale shift from all	125190 ROSE GN1	539.5	534.5	-5.0
PJM generation	126251 ER G6	136.0	133.0	-3.0
	126654 AST 3	373.8	364.8	-9.0
	126656 AST 5	213.0	211.0	-2.0
	126710 SCS18-G5	165.0	163.0	-2.0
	126711 SCS18-G6	223.0	221.0	-2.0
	131648 LEA 3G	44.4	42.4	-2.0
	131649 LEA 4S	68.5	65.5	-3.0
	136703 OSEGO 6G	820.0	816.0	-4.0
	136704 OCWE GEN	32.4	31.4	-1.0
	136715 SITH-G1	95.0	90.0	-5.0

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

BUS NAME	BASE	SHIFT	CHANGE	BUS NAME	BASE	SHIFT	CHANGE	
				136716	SITH-G2	95.0	90.0	-5.0
				136717	SITH-G3	105.0	100.0	-5.0
				137456	ATHENSC1	152.0	147.0	-5.0
				137458	ATHENSC2	152.0	147.0	-5.0
				137459	ATHENSS2	70.0	68.0	-2.0
				147797	JAFITZ1G	835.0	814.0	-21.0
				148708	Q308_GT1	156.8	150.8	-6.0
				148709	Q308_GT2	156.8	150.8	-6.0
				148710	Q308_ST	225.2	218.2	-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	245.3	36.20%	TRIP	54.06%	20.86%	19.95%	21.98%	TRIP
SOMERSET345 345 ROCH 345 345 1	449.01	24.69%	44.53%	TRIP	14.23%	13.61%	14.99%	0.00%
STOLE230 230 SHLDN230 230 1	97.52	10.77%	7.00%	5.79%	TRIP	5.51%	6.07%	12.61%
LOCKPORT 115 SHEL-113 115 1	41.94	2.72%	4.25%	3.52%	3.50%	TRIP	15.04%	7.67%
LOCKPORT 115 NAKR-108 115 1	43.03	0.98%	1.52%	1.26%	1.26%	3.50%	3.78%	2.75%
LOCKPORT 115 OAKFLDTP 115 1	45.36	1.14%	1.78%	1.48%	1.47%	4.08%	4.41%	3.21%
LOCKPORT 115 SOUR-111 115 1	36.96	2.76%	4.31%	3.57%	3.55%	13.84%	TRIP	7.77%
LOCKPORT 115 TELRD107 115 1	62.91	1.32%	2.06%	1.71%	1.70%	6.34%	6.26%	3.72%
LOCKPORT 115 TELRD114 115 1	47.14	2.71%	4.23%	3.51%	3.49%	18.60%	11.42%	7.63%
PALMT115 115 ANDOVER1 115 1	0	0.00%	O/S	O/S	O/S	O/S	O/S	O/S
<b>SUB-TOTALS</b>		<b>83.28%</b>	<b>69.69%</b>	<b>74.90%</b>	<b>50.05%</b>	<b>85.43%</b>	<b>83.95%</b>	<b>45.37%</b>
L33P-L34P	-0.56	0.00%	11.01%	9.11%	9.29%	4.04%	4.45%	19.84%
PJM-NYISO	965.9	16.73%	19.30%	15.98%	40.67%	10.54%	11.61%	34.80%
<b>TOTALS</b>		<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>

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	-262.92	30.31%	TRIP	10.09%	20.44%	19.14%	O/S
CLAY	345	PANNELL3	345 2	-263.74	30.41%	57.23%	10.13%	20.51%	19.20%	TRIP
STOLE230	230	SHLDN230	230 1	97.52	10.77%	2.90%	TRIP	8.18%	2.85%	6.78%
FRMGTN-4	115	PANNELLI	115 1	123.12	3.27%	6.02%	8.39%	TRIP	16.40%	14.08%
LAWLER-1	115	MORTIMER	115 1	38.61	2.57%	2.71%	1.29%	14.38%	4.08%	6.33%
MACDN115	115	QUAKER	115 1	42.1	0.31%	0.48%	0.41%	3.29%	20.32%	1.13%
MORTIMER	115	LAWLER-2	115 1	16.07	2.64%	2.92%	1.12%	6.07%	4.39%	6.83%
SLEIG115	115	S121 B#2	115 1	59.92	2.52%	3.66%	1.90%	10.63%	TRIP	8.55%
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	21.04	0.49%	2.00%	16.71%	4.95%	2.31%	4.68%
<b>SUB-TOTALS</b>					<b>83.28%</b>	<b>77.92%</b>	<b>50.05%</b>	<b>88.43%</b>	<b>88.69%</b>	<b>48.38%</b>
L33P-L34P				-0.56	0.00%	8.04%	9.29%	2.68%	3.39%	18.79%
PJM-NYISO				965.9	16.73%	14.04%	40.67%	8.89%	7.92%	32.83%
<b>TOTALS</b>					<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>

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	MARION-FARGT
EDIC 345 N.SCOT77 345 1	572.54	15.98%	TRIP	18.82%	29.86%	0.15%	13.19%	2.34%	1.04%	1.44%	1.30%	1.82%
FRASR345 345 GILB 345 345 1	169.08	17.16%	23.92%	TRIP	24.61%	0.13%	10.38%	2.73%	1.75%	2.24%	1.08%	3.10%
N.SCOT99 345 MARCY T1 345 1	658.87	17.56%	32.08%	20.81%	TRIP	0.16%	14.34%	2.56%	1.15%	1.59%	1.42%	2.02%
ROCK TAV 345 COOPC345 345 2	677.36	19.04%	7.79%	17.86%	8.23%	0.47%	4.65%	4.88%	0.22%	0.91%	4.04%	0.30%
ROCK TAV 345 MDTN TAP 345 1	498.76	17.22%	7.42%	16.87%	7.84%	0.52%	4.43%	4.14%	0.43%	1.02%	3.23%	0.70%
SMAHWAH1 345 WALDWICK 345 1	-442.7	-0.15%	1.30%	0.80%	1.32%	88.56%	0.81%	25.07%	13.17%	7.73%	O/S	24.63%
SMAHWAH2 345 WALDWICK 345 1	-556.66	0.15%	1.29%	0.89%	1.31%	TRIP	0.80%	24.52%	12.61%	7.38%	TRIP	23.58%
PORTER 2 230 ROTRDM.2 230 1	216.54	4.23%	5.37%	3.32%	5.43%	0.04%	TRIP	0.60%	0.28%	0.38%	0.33%	0.49%
PORTER 2 230 ROTRDM.2 230 2	216.51	4.23%	5.37%	3.32%	5.43%	0.04%	32.09%	0.60%	0.28%	0.38%	0.33%	0.49%
CORPORATE DR 138 HCOR138 138 1	-87.36	-0.02%	0.00%	-0.01%	-0.01%	0.04%	0.00%	0.02%	0.00%	-0.01%	0.01%	-0.01%
MDTN TAP 345 SHOEMTAP 138 1	260.03	2.88%	0.67%	1.73%	0.71%	-0.06%	0.40%	1.12%	-0.29%	-0.13%	1.19%	-0.55%
RAMP138 138 SMAH138 138 1	-121.88	-0.27%	0.01%	-0.08%	0.01%	2.73%	0.01%	0.56%	0.51%	0.32%	-0.26%	0.95%
SMAHWAH1 345 SMAH138 138 1	-166.36	0.42%	-0.01%	0.14%	-0.01%	-3.40%	-0.01%	-0.59%	-0.70%	-0.45%	0.47%	-1.31%
E.SPR115 115 INGHAM-E 115 1	-16.07	1.03%	-0.06%	2.17%	-0.05%	0.01%	0.94%	0.16%	0.07%	0.10%	0.08%	0.13%
INGMS-CD 115 INGHAM-E 115 1	119.98	0.00%	3.37%	0.96%	3.40%	0.02%	9.07%	0.29%	0.13%	0.18%	0.16%	0.23%
NE_PV20_NY 115 PLAT T#3 115 1	106.27	0.00%	2.71%	1.77%	2.88%	0.04%	3.17%	0.61%	0.28%	0.39%	0.33%	0.50%
BLUHILL 69.0 MONTVALE 69.0 1	5.51	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	5.51	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	-47.85	-0.30%	-0.04%	-0.14%	-0.05%	0.44%	-0.03%	0.01%	0.09%	0.05%	-0.12%	0.18%
L491T 69.0 MONTVALE 69.0 1	-45.05	0.03%	0.01%	0.02%	0.01%	0.10%	0.01%	0.02%	0.03%	0.02%	-0.02%	0.05%
SPARKILL 69.0 CRESSKIL 69.0 1	-11.54	0.03%	0.01%	0.02%	0.01%	0.02%	0.01%	0.00%	0.02%	0.01%	-0.02%	0.03%
W.WDB115 115 W.WDBR69 69.0 1	14.56	0.67%	0.56%	1.17%	0.59%	0.00%	0.42%	0.06%	0.09%	0.10%	-0.01%	0.15%
WNYA69 69.0 HCOR69 69.0 1	-4.25	0.11%	0.03%	0.06%	0.03%	0.08%	0.02%	-0.02%	0.06%	0.05%	-0.07%	0.11%
PEARL34 34.5 HCOR34 34.5 1	-0.39	-0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-0.01%
<b>SUB-TOTALS</b>		<b>100.00%</b>	<b>91.78%</b>	<b>90.48%</b>	<b>91.55%</b>	<b>90.08%</b>	<b>94.69%</b>	<b>69.66%</b>	<b>31.20%</b>	<b>23.71%</b>	<b>13.47%</b>	<b>57.58%</b>
RAMAPO 5 500 HOPATCONG 500 1	380.39	0.00%	3.12%	2.87%	3.19%	3.82%	1.97%	TRIP	7.69%	13.54%	33.12%	12.98%
NEPTCONV 345 NWBRG 345 1	661.1	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	314.06	0.00%	0.32%	0.40%	0.33%	0.20%	0.21%	2.27%	3.25%	16.75%	1.78%	5.70%
B3402 PAR1 345 HUDSON1 345 1	332.91	0.00%	1.37%	1.82%	1.41%	1.94%	0.90%	7.59%	TRIP	18.51%	16.98%	O/S
C3403 PAR2 345 MARION 345 1	331.51	0.00%	2.03%	2.73%	2.10%	3.13%	1.34%	10.71%	44.34%	27.51%	27.38%	TRIP
GOETHALS 230 LINDEN 230 1	334.67	0.00%	1.38%	1.70%	1.43%	0.83%	0.90%	9.76%	13.52%	TRIP	7.27%	23.74%
<b>TOTALS</b>		<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>

Table-4 DISTRIBUTION FACTORS FOR UPNY-CONED CIRCUITS

Table-4 DISTRIBUTION FACTORS FOR UPNY-CONED CIRCUITS												
Monitored Element				Base Flow	TRANSFER	LADNTW-BUCHS	RAMAPO-BUCHN	PLVLLY-FISHK	PLVLLY-MILLW	ROSETN-FISHK	HUDSON-FARGT	LINDEN-GOETH
BUCHANAN S	345	LADENTWN	345 1	278.1	17.81%	TRIP	52.08%	-4.04%	19.73%	26.32%	15.95%	14.33%
BUCHANAN N	345	RAMAPO	345 1	-3	15.87%	38.73%	TRIP	-0.41%	4.34%	14.52%	10.90%	9.93%
E FISHKILL	345	PLTVLLEY	345 1	226.71	7.75%	-7.59%	-1.04%	TRIP	23.88%	31.70%	0.21%	0.44%
E FISHKILL	345	PLTVLLEY	345 2	226.71	7.75%	-7.59%	-1.04%	65.89%	23.88%	31.70%	0.21%	0.44%
MILLWOOD	345	PLTVLLEY	345 1	655.39	15.53%	13.76%	4.07%	8.85%	TRIP	-9.97%	1.47%	1.82%
PLTVLLEY	345	WOOD B	345 1	687.48	15.34%	13.31%	4.02%	9.24%	33.72%	-9.65%	1.47%	1.81%
ROSETON	345	E FISHKILL	345 1	1245.05	17.38%	25.07%	18.59%	16.05%	-13.62%	TRIP	6.65%	6.36%
E FISH I	115	E FISHKILL	345 1	-75.39	1.69%	0.89%	0.81%	2.61%	-0.50%	5.96%	0.34%	0.35%
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	122.4	0.89%	0.66%	0.39%	-0.05%	0.73%	0.40%	0.15%	0.16%
<b>SUB-TOTALS</b>					<b>100.00%</b>	<b>77.24%</b>	<b>77.87%</b>	<b>98.14%</b>	<b>92.17%</b>	<b>90.98%</b>	<b>37.36%</b>	<b>35.64%</b>
B3402 PAR1	345	HUDSON1	345 1	332.91	0.00%	6.48%	5.96%	0.05%	0.86%	2.84%	TRIP	18.51%
C3403 PAR2	345	MARION	345 1	331.51	0.00%	10.11%	9.28%	0.06%	1.29%	4.40%	44.34%	27.51%
GOETHALS	230	LINDEN	230 1	334.67	0.00%	4.25%	3.96%	0.07%	0.78%	1.98%	13.52%	TRIP
COGNTECH	345	G22_VFT345KV	345 1	314.06	0.00%	1.01%	0.94%	0.02%	0.18%	0.47%	3.25%	16.75%
NRTHPT P	138	NRTHPT1	138 1	100.01	0.00%	0.92%	2.00%	1.67%	4.72%	-0.66%	1.53%	1.60%
<b>TOTALS</b>					<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>

Table-5 DISTRIBUTION FACTORS FOR SPRAINBROOK DUNWOODIE SOUTH CIRCUITS

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	223.81	25.63%	TRIP	3.87%	17.84%	6.61%	6.67%	25.51%	
REAC72	345 MOTT HAVEN	345 4	222.29	25.45%	21.48%	3.85%	17.72%	6.56%	6.63%	TRIP	
SPRAINBROOK	345 TREMONT	345 1	400.92	0.00%	2.28%	TRIP	2.48%	5.14%	4.96%	2.79%	
SPRAINBROOK	345 ACADEMY	345 1	311.04	0.00%	2.07%	22.00%	2.26%	4.69%	4.52%	2.54%	
W 49 ST	345 REACM51	345 1	240.46	24.46%	17.48%	4.13%	TRIP	6.61%	6.45%	O/S	
W 49 ST	345 REACM52	345 2	240.46	24.46%	17.48%	4.13%	19.94%	6.61%	6.45%	21.60%	
DUN NO1R	138 S CREEK W	138 1	113.75	0.00%	1.23%	11.90%	1.16%	2.55%	2.50%	1.48%	
DUN NO2R	138 S CREEK E	138 1	114.6	0.00%	1.38%	13.35%	1.30%	2.86%	2.80%	1.66%	
DUN SO1R	138 E179 ST W	138 1	179.5	0.00%	1.96%	19.11%	1.86%	4.09%	4.01%	2.36%	
JAMAICA	138 V STRM P	138 1	122.28	0.00%	4.46%	5.91%	4.56%	TRIP	45.07%	5.42%	
JAMAICA	138 L SUCSPH	138 1	177.66	0.00%	4.33%	5.47%	4.27%	43.27%	TRIP	5.23%	
<b>SUB-TOTALS</b>				<b>100.00%</b>	<b>74.16%</b>	<b>93.71%</b>	<b>73.38%</b>	<b>88.97%</b>	<b>90.05%</b>	<b>68.58%</b>	
B3402 PAR1	345 HUDSON1	345 1	332.91	0.00%	7.73%	1.55%	7.96%	3.22%	2.91%	9.40%	
C3403 PAR2	345 MARION	345 1	331.51	0.00%	11.92%	2.42%	12.37%	5.02%	4.54%	14.51%	
GOETHALS	230 LINDEN	230 1	334.67	0.00%	5.01%	1.87%	5.09%	2.26%	2.02%	6.08%	
COGNTECH	345 G22_VFT345KV	345 1	314.06	0.00%	1.19%	0.44%	1.21%	0.53%	0.48%	1.44%	
<b>TOTALS</b>				<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	

**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		1114.07	74.18%	66.40%	TRIP	43.76%	O/S
ADRON B1	230 MOSES W	230 1		119.71	9.48%	3.34%	18.54%	TRIP	TRIP
ADRON B2	230 MOSES W	230 1		119.72	9.48%	3.34%	18.54%	36.30%	48.34%
ALCOA-NM	115 BRADY	115 1		24.33	1.11%	0.44%	2.15%	0.75%	1.83%
ALLENS F	115 COLTON	115 1		-25.88	1.57%	0.28%	1.82%	0.65%	1.58%
ANDRWS-4	115 DENNISON	115 1		12.29	2.09%	0.82%	4.03%	1.40%	3.44%
DENNISON	115 LWRNCE-B	115 1		14.07	2.09%	0.82%	4.03%	1.40%	3.45%
<b>SUB-TOTALS</b>					<b>100.00%</b>	<b>75.44%</b>	<b>49.11%</b>	<b>84.26%</b>	<b>58.63%</b>
MOSES E	230 ST_LAWR_L33P	230 1		0.33	0.00%	9.22%	16.73%	5.05%	13.47%
MOSES E	230 ST_LAWR_L34P	230 1		0.23	0.00%	11.66%	21.15%	6.39%	17.03%
MOSES W	230 WILLIS E	230 1		103.37	0.73%	1.95%	7.30%	2.43%	6.13%
MOSES W	230 WILLIS W	230 1		102.76	0.73%	1.94%	7.26%	2.42%	6.09%
<b>TOTALS</b>					<b>101.46%</b>	<b>100.22%</b>	<b>101.54%</b>	<b>100.56%</b>	<b>101.34%</b>

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	-97.37	34.75%	19.14%	30.80%	30.56%	21.08%	30.79%	30.79%	TRIP	37.02%
NE_398_NY	345	PLTVLLEY	345 1	38.32	51.95%	48.97%	33.95%	34.29%	21.51%	33.92%	33.92%	45.11%	TRIP
NE_E205W_NY	230	EASTOVER RD	230 1	74.69	9.03%	4.73%	8.04%	8.15%	3.98%	8.03%	8.03%	16.35%	8.26%
NE_K7_NY	115	WHITEHAL	115 1	0.01	0.00%	2.31%	4.72%	4.57%	6.82%	4.73%	4.73%	9.19%	4.26%
NE_K6_NY	115	HOOSICK	115 1	4.55	3.10%	1.64%	2.58%	2.60%	1.35%	2.58%	2.58%	8.18%	2.94%
NE_PV20_NY	115	PLAT T#3	115 1	-106.27	0.00%	4.09%	7.28%	7.09%	36.62%	7.32%	7.32%	7.78%	5.12%
NE_690_NY	69.0	SMITHFLD	69.0 1	-3.12	1.17%	1.07%	0.82%	0.83%	0.50%	0.82%	0.82%	1.19%	2.70%
NE_601_NY	138	NRTHPT P	138 1	33.52	0.00%	6.05%	3.96%	3.99%	2.72%	3.95%	3.95%	4.08%	13.29%
NE_602_NY	138	NRTHPT P	138 2	33.42	0.00%	6.03%	3.95%	3.98%	2.72%	3.94%	3.94%	4.07%	13.25%
NE_603_NY	138	NRTHPT P	138 3	33.19	0.00%	5.99%	3.92%	3.95%	2.70%	3.92%	3.92%	4.04%	13.16%
SHMHVDCL	192	SHOREHAM2	138 1	330	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
<b>TOTALS</b>					<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>

Table-8 DISTRIBUTION FACTORS FOR ONTARIO NYISO CIRCUITS

Monitored Element	Base Flow	TRANSFER	BECKB-NIAGAR	PA27-NIAGAR	BP76-PACKD2	STLAWR34-MOSES	STLAWR33-MOSES	BECKA-PA301
NIAG 345 345 BECK_#2_H301 345 1	-22.89	33.52%	56.49%	33.94%	31.66%	7.65%	8.83%	TRIP
NIAG 345 345 BECK_#2_H302 345 1	-22.89	33.52%	TRIP	33.94%	31.66%	7.65%	8.83%	O/S
NIAGAR2W 230 BECK_#2_PA27 230 1	-23.95	17.27%	20.64%	TRIP	29.82%	4.05%	4.68%	47.43%
PACKARD2 230 BECK_#2_BP76 230 1	70.99	15.69%	16.73%	25.92%	TRIP	3.70%	4.27%	38.45%
MOSES E 230 ST_LAWR_L33P 230 1	-0.33	0.00%	1.12%	0.98%	1.03%	TRIP	58.18%	2.58%
MOSES E 230 ST_LAWR_L34P 230 1	-0.23	0.00%	1.42%	1.24%	1.30%	63.76%	TRIP	3.26%
<b>SUB-TOTALS</b>		<b>100.00%</b>	<b>96.40%</b>	<b>96.00%</b>	<b>95.47%</b>	<b>86.82%</b>	<b>84.79%</b>	<b>91.71%</b>
ON-MICH	-0.58	0.00%	3.38%	3.75%	4.25%	12.20%	14.07%	7.77%
<b>TOTALS</b>		<b>100.00%</b>	<b>99.78%</b>	<b>99.75%</b>	<b>99.72%</b>	<b>99.01%</b>	<b>98.86%</b>	<b>99.48%</b>



Table-9 DISTRIBUTION FACTORS FOR PJM-NYISO CIRCUITS

Monitored Element	Base Flow	TRANSFER	HOPATCONG-RAMPO	HUDSON-FARGT	LINDEN-GOETH	WALDWK-SMAWA	PIERCE-5MILE	ERIESO-SRIPLEY	MAIN-WATER	E.TOWD-HILLS	WALDWK-SMAWA	MARION-FARGT
RAMAPO 5 500 HOPATCONG 500 1	380.39	0.00%	TRIP	7.69%	13.54%	3.82%	6.11%	6.49%	10.10%	9.85%	33.12%	12.98%
COGNTECH 345 G22_VFT345KV 345 1	314.06	0.00%	2.27%	3.25%	16.75%	0.20%	0.46%	0.50%	0.76%	0.60%	1.78%	5.70%
B3402 PAR1 345 HUDSON1 345 1	332.91	0.00%	7.59%	TRIP	18.51%	1.94%	1.70%	1.83%	2.78%	2.34%	16.98%	0.00%
C3403 PAR2 345 MARION 345 1	331.51	0.00%	10.71%	44.34%	27.51%	3.13%	2.47%	2.66%	4.03%	3.40%	27.38%	TRIP
GOETHALS 230 LINDEN 230 1	334.67	0.00%	9.76%	13.52%	TRIP	0.83%	1.98%	2.16%	3.29%	2.56%	7.27%	23.74%
NEPTCONV 345 NWBRG 345 1	661.1	0.00%	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	-442.7	-0.07%	25.07%	13.17%	7.73%	88.56%	3.29%	3.58%	5.56%	4.48%	O/S	24.63%
SMAHWAH2 345 WALDWICK 345 1	-556.66	0.07%	24.52%	12.61%	7.38%	TRIP	3.08%	3.35%	5.20%	4.18%	TRIP	23.58%
5MILE345 345 26PIERCEBRK 345 1	91.63	16.52%	1.84%	0.52%	0.83%	0.15%	TRIP	21.72%	12.24%	3.59%	1.28%	0.89%
NY_HOMER_STO 345 26HOMER CY 345 Z1	214.47	14.26%	1.59%	0.45%	0.73%	0.13%	-65.89%	13.83%	7.94%	1.40%	1.13%	0.78%
NY_PIERCEBRK 345 26PIERCEBRK 345 Z1	-212.51	-14.26%	-1.59%	-0.45%	-0.73%	-0.13%	65.89%	-13.83%	-7.94%	-1.40%	-1.13%	-0.78%
WATRC345 345 26MAINESBURG 345 1	55.06	24.28%	3.35%	0.93%	1.52%	0.27%	13.50%	5.87%	TRIP	22.68%	2.38%	1.61%
NY_HOMER_WAT 345 26HOMER CY 345 Z1	137.14	20.65%	2.61%	0.76%	1.25%	0.22%	9.73%	5.81%	-61.78%	7.99%	1.95%	1.31%
NY_MAINESBUR 345 26MAINESBURG 345 Z1	-136.11	-20.65%	-2.61%	-0.76%	-1.25%	-0.22%	-9.73%	-5.81%	61.78%	-7.99%	-1.95%	-1.31%
HILSD230 230 26E.TWANDA 230 1	72.77	20.46%	3.86%	0.93%	1.39%	0.26%	4.67%	5.01%	26.80%	TRIP	2.27%	1.61%
S RIPLEY 230 26ERIE E 230 1	-229.87	19.58%	1.90%	0.54%	0.88%	0.15%	21.14%	TRIP	5.18%	3.75%	1.35%	0.94%
FALCONER 115 26WARREN 115 1	-10.96	5.57%	0.59%	0.17%	0.27%	0.05%	18.25%	19.16%	1.38%	1.69%	0.41%	0.29%
N.WAV115 115 26E.SAYRE 115 1	12.53	7.03%	1.28%	0.31%	0.47%	0.09%	1.85%	1.56%	8.47%	24.75%	0.77%	0.54%
WESTOVER115 115 26LAUREL L 115 1	-57.13	6.55%	1.26%	0.30%	0.46%	0.08%	0.84%	0.80%	3.65%	9.00%	0.75%	0.52%
CORPORATE DR 138 HCOR138 138 1	-87.36	-0.01%	0.02%	0.00%	-0.01%	0.04%	0.00%	0.00%	0.00%	0.00%	0.01%	-0.01%
RAMP138 138 SMAH138 138 1	-121.88	-0.12%	0.56%	0.51%	0.32%	2.73%	0.19%	0.21%	0.33%	0.27%	-0.26%	0.95%
SMAHWAH1 345 SMAH138 138 1	-166.36	0.19%	-0.59%	-0.70%	-0.45%	-3.40%	-0.28%	-0.30%	-0.48%	-0.40%	0.47%	-1.31%
BLUHILL 69.0 MONTVALE 69.0 1	5.51	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	5.51	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	-47.85	-0.13%	0.01%	0.09%	0.05%	0.44%	0.09%	0.09%	0.15%	0.13%	-0.12%	0.18%
SPARKILL 69.0 CRESSKIL 69.0 1	-11.54	0.01%	0.00%	0.02%	0.01%	0.02%	0.00%	0.00%	0.00%	0.00%	-0.02%	0.03%
WNYA69 69.0 HCOR69 69.0 1	-4.25	0.05%	-0.02%	0.06%	0.05%	0.08%	0.00%	0.00%	0.00%	0.00%	-0.07%	0.11%
L491T 69.0 MONTVALE 69.0 1	-45.05	0.02%	0.02%	0.03%	0.02%	0.10%	0.00%	0.00%	0.00%	0.00%	-0.02%	0.05%
PEARL34 34.5 HCOR34 34.5 1	-0.39	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-0.01%
<b>SUB-TOTALS</b>		<b>100.00%</b>	<b>94.01%</b>	<b>98.28%</b>	<b>97.22%</b>	<b>99.52%</b>	<b>79.33%</b>	<b>74.68%</b>	<b>89.43%</b>	<b>92.85%</b>	<b>95.74%</b>	<b>97.03%</b>
MICH-ON	0.58	0.00%	5.58%	1.60%	2.59%	0.45%	19.35%	23.78%	9.88%	6.68%	3.97%	2.77%
<b>TOTALS</b>		<b>100.00%</b>	<b>99.59%</b>	<b>99.88%</b>	<b>99.81%</b>	<b>99.97%</b>	<b>98.67%</b>	<b>98.46%</b>	<b>99.32%</b>	<b>99.52%</b>	<b>99.71%</b>	<b>99.80%</b>

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

<b>Monitered Element</b>	<b>CENTRAL-EAST</b>	<b>ONT-NYISO</b>	<b>ONTARIO-MICH</b>	<b>PJM-NYISO</b>	<b>WEST-CENTRAL</b>	<b>BBURG-RAMAPO</b>	<b>MARCY-SOUTH</b>	<b>UTICA-ALBANY</b>
<b>Base Flow</b>	1874.54	0.55	-0.45	818.01	-128.4	380.27	1687.79	1664.37
<b>DUM1</b>	41.53%	0.00%	0.00%	0.00%	80.75%	0.00%	28.35%	40.32%
<b>DUM2</b>	41.53%	0.00%	0.00%	0.00%	80.75%	0.00%	28.35%	40.32%
<b>NIAGARA</b>	41.53%	0.00%	0.00%	0.00%	80.75%	0.00%	28.35%	40.32%
<b>OSWEGO</b>	45.50%	0.00%	0.00%	0.00%	-2.06%	0.00%	36.75%	44.77%
<b>GILBOA</b>	0.06%	0.00%	0.00%	0.00%	0.24%	0.00%	2.38%	-0.26%
<b>BETH</b>	-18.21%	0.00%	0.00%	0.00%	-0.23%	0.00%	14.19%	-16.27%
<b>ATHENS</b>	-7.20%	0.00%	0.00%	0.00%	-0.06%	0.00%	6.60%	-7.08%
<b>ROSETON</b>	-0.13%	0.00%	0.00%	0.00%	0.00%	0.00%	0.13%	-0.14%
<b>BOWLINE</b>	1.84%	0.00%	0.00%	0.00%	0.02%	0.00%	-1.62%	1.77%
<b>INDIANPT2</b>	1.44%	0.00%	0.00%	0.00%	0.01%	0.00%	-1.27%	1.39%
<b>NORWALK</b>	-6.81%	0.00%	0.00%	0.00%	-0.08%	0.00%	5.64%	-6.39%
<b>BRAYTON</b>	-10.24%	0.00%	0.00%	0.00%	-0.13%	0.00%	8.35%	-9.55%
<b>SBRK</b>	-10.76%	0.00%	0.00%	0.00%	-0.14%	0.00%	8.77%	-10.03%
<b>BECK</b>	41.90%	100.00%	0.00%	0.00%	83.28%	0.00%	29.12%	40.73%
<b>CONEMAUGH</b>	37.92%	0.00%	0.00%	100.00%	39.64%	0.00%	20.79%	36.29%
<b>SALEM</b>	37.81%	0.00%	0.00%	100.00%	38.09%	0.00%	20.56%	36.16%
<b>PORTLAND</b>	37.75%	0.00%	0.00%	100.00%	37.29%	0.00%	20.44%	36.10%
<b>EDDYSTONE</b>	37.81%	0.00%	0.00%	100.00%	38.03%	0.00%	20.55%	36.16%
<b>BRANDON</b>	37.90%	0.00%	0.00%	100.00%	39.28%	0.00%	20.75%	36.26%
<b>KARNS</b>	38.02%	0.00%	0.00%	100.00%	40.94%	0.00%	21.01%	36.40%
<b>ZEEL</b>	38.02%	0.00%	0.00%	100.00%	40.93%	0.00%	21.00%	36.40%
<b>BOWEN</b>	37.99%	0.00%	0.00%	100.00%	40.56%	0.00%	20.95%	36.37%
<b>BAYSHORE</b>	38.04%	0.00%	0.00%	100.00%	41.16%	0.00%	21.04%	36.42%
<b>MTSTORM</b>	37.96%	0.00%	0.00%	100.00%	40.15%	0.00%	20.88%	36.33%
<b>HATFIELD</b>	37.97%	0.00%	0.00%	100.00%	40.29%	0.00%	20.90%	36.34%
<b>NEWTON</b>	38.01%	0.00%	0.00%	100.00%	40.74%	0.00%	20.97%	36.38%

**Table-10b GENERATION SHIFT FACTORS WITH ALL PAR ANGLES FIXED**

<b>Monitered Element</b>	<b>CENTRAL-EAST</b>	<b>ONT-NYISO</b>	<b>ONTARIO-MICH</b>	<b>PJM-NYISO</b>	<b>WEST-CENTRAL</b>	<b>BBURG-RAMAPO</b>	<b>MARCY-SOUTH</b>	<b>UTICA-ALBANY</b>
<b>Base Flow</b>	1874.54	0.55	-0.45	818.01	-128.4	380.27	1687.79	1664.37
<b>DUM1</b>	25.39%	-16.79%	15.71%	16.79%	48.05%	6.50%	17.34%	21.91%
<b>DUM2</b>	25.39%	-16.79%	15.71%	16.79%	48.05%	6.50%	17.34%	21.91%
<b>NIAGARA</b>	25.39%	-16.79%	15.71%	16.79%	48.05%	6.50%	17.34%	21.91%
<b>OSWEGO</b>	35.99%	-9.03%	8.43%	9.03%	-13.97%	0.25%	28.94%	32.20%
<b>GILBOA</b>	-6.12%	-4.63%	4.31%	4.63%	-5.49%	-3.29%	-1.50%	-6.36%
<b>BETH</b>	-24.67%	-5.02%	4.68%	5.02%	-5.36%	-3.32%	11.04%	-19.82%
<b>ATHENS</b>	-12.13%	-3.76%	3.50%	3.76%	-4.26%	-4.31%	3.79%	-11.53%
<b>ROSETON</b>	-3.34%	-2.22%	2.07%	2.22%	-2.53%	-6.11%	-1.31%	-3.02%
<b>BOWLINE</b>	0.16%	-0.83%	0.77%	0.83%	-0.97%	-9.40%	-1.73%	0.11%
<b>INDIANPT2</b>	-0.25%	-0.86%	0.80%	0.86%	-0.99%	-8.39%	-1.42%	-0.23%
<b>NORWALK</b>	-8.50%	-2.48%	2.31%	2.48%	-2.50%	-4.52%	2.64%	-5.99%
<b>BRAYTON</b>	-16.75%	-3.98%	3.70%	3.98%	-3.69%	-4.03%	6.83%	-10.50%
<b>SBRK</b>	-18.13%	-4.22%	3.93%	4.22%	-3.78%	-3.89%	7.56%	-10.66%
<b>BECK</b>	26.02%	76.98%	21.55%	23.02%	45.50%	6.32%	18.02%	22.33%
<b>CONEMAUGH</b>	11.13%	8.73%	-8.16%	91.27%	10.72%	15.77%	5.57%	9.48%
<b>SALEM</b>	7.27%	5.43%	-5.06%	94.57%	6.07%	17.62%	3.06%	6.18%
<b>PORTLAND</b>	6.03%	3.75%	-3.49%	96.25%	4.22%	16.15%	2.19%	5.13%
<b>EDDYSTONE</b>	7.25%	5.35%	-4.98%	94.65%	5.99%	17.81%	3.03%	6.17%
<b>BRANDON</b>	10.25%	9.55%	-8.87%	90.45%	9.95%	16.24%	5.10%	8.71%
<b>KARNS</b>	15.64%	24.90%	-23.93%	75.10%	18.16%	12.94%	9.29%	13.25%
<b>ZEEL</b>	15.47%	24.25%	-23.19%	75.76%	17.90%	13.04%	9.15%	13.11%
<b>BOWEN</b>	13.34%	16.57%	-14.95%	83.43%	14.56%	14.33%	7.42%	11.33%
<b>BAYSHORE</b>	15.35%	22.95%	-22.23%	77.05%	17.75%	13.10%	9.02%	13.01%
<b>MTSTORM</b>	12.03%	12.55%	-11.66%	87.45%	12.51%	15.14%	6.38%	10.23%
<b>HATFIELD</b>	12.27%	12.29%	-11.46%	87.71%	12.75%	14.99%	6.51%	10.43%
<b>NEWTON</b>	14.04%	18.78%	-16.72%	81.22%	15.63%	13.91%	7.98%	11.91%