

Appendix 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	-240	-330	-660	-315	-320	-100	125	-1715
PJM	-35		0	0	0	0	0	660	315	320	0	-4462	-3202
IESO	0	0		0	0	-1250	0	0	0	0	0	0	-1250
ISONE	-90	0	0		0	-225	330	0	0	0	100	0	115
NB/NS	0	0	0	0		-300	0	0	0	0	0	0	-300
Trans Énergie	240	0	1250	225	300		0	0	0	0	0	45	2060

APPENDIX A	
SUMMARY OF WINTER 2017-18 BASE TRANSFERS	
NEW BRUNSWICK/NOVA SCOTIA	
New Brunswick to TransÉnergie: Madawaska and Eel River HVdc	-300
New Brunswick to New England	0
Total Export (+) / Import (-)	-300

NEW ENGLAND	
New England to New Brunswick	0
New England to TransÉnergie: Sandy Pond HVdc	0
New England to TransÉnergie: Vermont	-225
New England to New York	-90
New England to NY: Norwalk Harbor-Northport	100
New England to NY: Cross-Sound	330
Total Export (+) / Import (-)	115

NEW YORK ISO	
New York to TransÉnergie	-240
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
Total Export (+) / Import (-)	-1715

APPENDIX A	
SUMMARY OF WINTER 2017-18 BASE TRANSFERS	
IESO (Ontario)	
IESO to TransÉnergie	-1250
IESO to New York	0
IESO to PJM	0
IESO to MISO	0
Total Export (+) / Import (-)	-1250

PJM	
PJM to New York: NYPA to PA-RECS	-73
PJM to New York: Sithe Allegheny	38
PJM to New York: Non Firm Energy	0
PJM to New York: Neptune HVdc	660
PJM to New York: Linden VFT	315
PJM to New York: HTP	320
Miscellaneous Transfers to Other Areas	-4462
Total Export (+) / Import (-)	-3202

TRANSÉNERGIE	
TransÉnergie to New Brunswick: Madawaska and Eel River HVdc	300
TransÉnergie to New England: Sandy Pond HVdc	0
TransÉnergie to New England: Vermont	225
TransÉnergie to New York	240
TransÉnergie to IESO (Ontario)	1250
TransÉnergie to Cornwall	45
Total Export (+) / Import (-)	2060

Appendix B – WINTER 2017-18 BASE CASE CONDITIONS

Winter 2017-18 Conditions

GENERATION FACILITIES (LEVEL OF GENERATION IN CASE)

The status and dispatch level of generation represented in this analysis is a reasonable expectation based on the information available at the time of the study. Those modeling assumptions incorporate known unit outage status.

TransÉnergie HVdc CONVERTER SCHEDULES

Chateaugay HVdc	128 MW	In Service
Sandy Pond HVdc	0 MW	Out of Service
Highgate HVdc	225 MW	In Service
Madawaska HVdc	300 MW	In Service
Eel River HVdc	0 MW	Out of Service

AREA LOADS & LOSSES

NYISO	24,387 MW
ISO-NE	22,343 MW
IESO (Ontario)	22,390 MW
PJM	49,526 MW

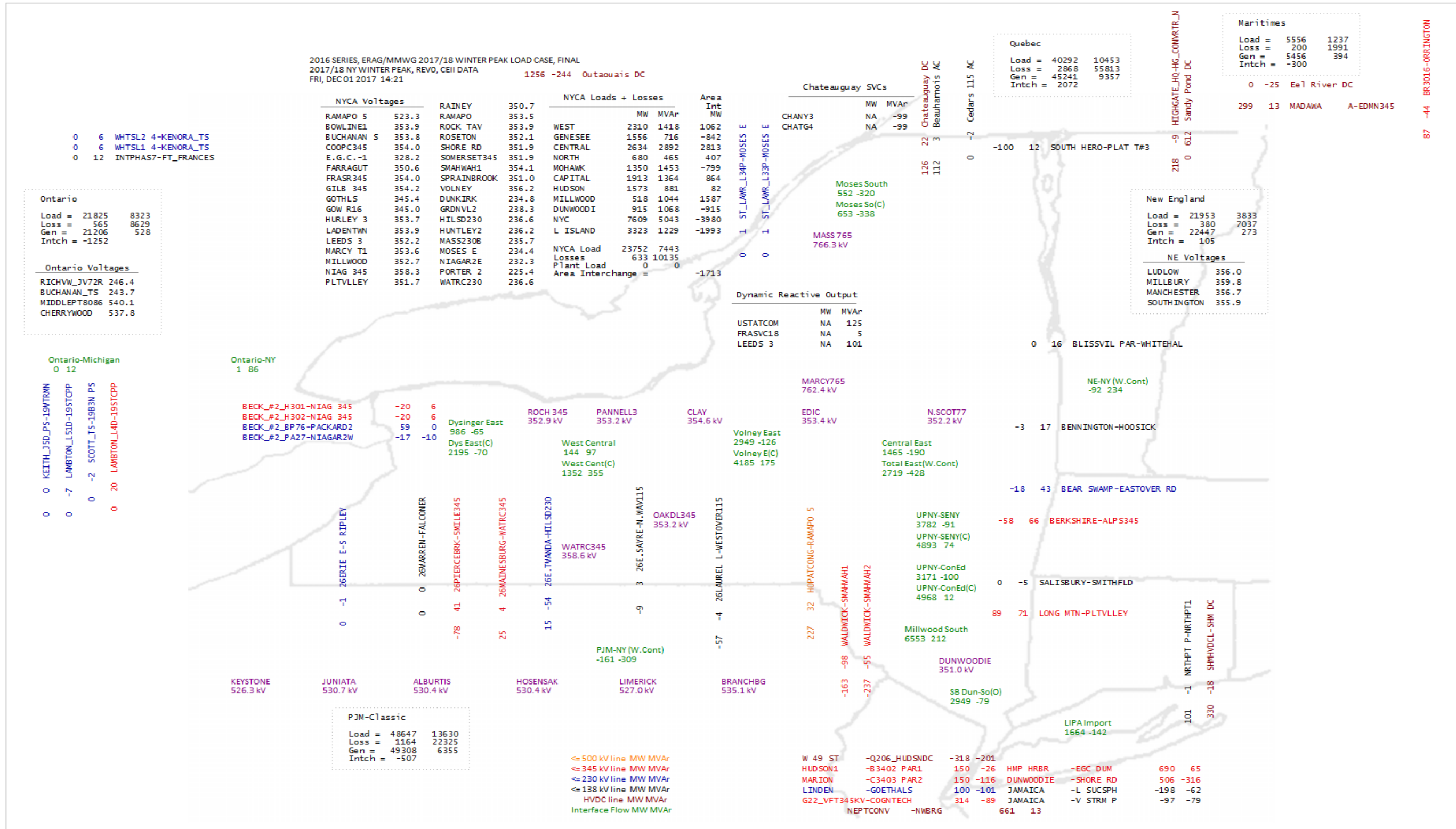
PHASE ANGLE REGULATOR SCHEDULES

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	-100 MW
Jamaica-Lake Success	-200 MW
Hudson-Farragut (B3402)	150 MW
Marion-Farragut (C3403)	150 MW
Linden-Goethals	100 MW
Waldwick-Hinchmans	133 MW
Waldwick-Fairlawn	133 MW
Waldwick-Hillsdale	133 MW
Ramapo PAR #1 (+ to NY)	112.8 MW
Ramapo PAR #2 (+ to NY)	112.8 MW

East Garden City #1	345 MW
East Garden City #2	345 MW

Appendix C – POWER FLOW TRANSCRIPTION DIAGRAM

SYSTEM OVERVIEW



Appendix D – RATINGS OF MAJOR TRANSMISSION FACILITIES IN NEW YORK

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
ACADEMY_138A_138B_PAR1	PAR1	138	301	360	451	325751	150
ACADEMY_138A_138B_PAR8	PAR8	138	301	360	451	325750	150
ACADEMY_345_138_TR1	TR1	345	303	368	446	325753	150
ACADEMY_345_138_TR8	TR8	345	303	368	446	325752	150
ADIRNDCK_230_115_BK1	BK1	115	132	166	172	26697	0
ADIRNDCK-CHASLAKE_230_13	13	230	478	478	634	325233	14
ADIRNDCK-PORTER__230_12	12	230	478	478	634	25082	90
ALBANY_-GREENBSH_115_1	1	115	227	248	268	25860	100
ALBANY_-GREENBSH_115_2	2	115	227	248	268	25868	100
ALBANY_-TRINITY__115_5	5	115	214	247	247	25861	105
ALBANY_-TRINITY__115_9	9	115	159	178	258	25872	71
ALCOA__-BRADY___115_13	13	115	156	170	181	25230	26
ALCOA__-DENNISON_115_12	12-AD	115	213	234	251	25227	26
ALCOA_PA-ALCOA___115_R8105	R8105	115	263	294	348	25202	52
ALCOA_PA-GRASRIVR_115_MAL4	MAL4	115	256	282	327	326295	99
ALCOA_PA-GRASRIVR_115_MAL5	MAL5	115	256	282	327	326296	99
AMAWALK_-MOHANSIC_115_995 U.G.	995UG	115	88	88	98	26481	10
AMAWALK_-MOHANSIC_115_996 U.G.	996UG	115	107	107	107	26480	14
ANDOVER_-PALMITER_115_157-932	157_932	115	97	117	119	25094	0
ARCADE_-MACHIAS__115_167	151	115	156	171	182	326168	27
ASH___-TEMPLE__115_9	9	115	207	233	233	26062	3
ASHLEYRD-MASONCR__115_909	909	115	189	207	221	25847	26
ASHLEYRD-PLATSBRG_115_700	700	115	223	237	259	25845	16
ASTANNEX_138A_138B_PAR1	PAR1	138	415	477	544	325848	0
ASTANNEX_345_138_TR1	TR1	345	320	390	468	325847	0
ASTANNEX-ASTORIAE_138_34091	34091	138	288	318	346	325849	0
ASTANNEX-E13THSTA_345_Q35L	Q35L	345	415	639	1595	25134	138
ASTANNEX-E13THSTA_345_Q35M	Q35M	345	415	639	1595	25142	146
ASTORIAE-ASTORIA3_138_34123	34123	138	299	335	400	25876	0
ASTORIAE-CORONA__138_34181	34181	138	195	249	378	25277	65
ASTORIAE-CORONA__138_34182	34182	138	195	249	378	25278	63
ASTORIAE-CORONA__138_34183	34183	138	195	249	378	25279	65
ASTORIAE-CORONA__138_34184	34184	138	195	249	378	25280	61
ASTORIAE-CORONA__138_34185	34185	138	195	249	378	25281	58
ASTORIAE-CORONA__138_34186	34186	138	195	249	378	25282	59
ASTORIAW-QUENBRDG_138_28241	28241	138	195	249	378	25315	57
ASTORIAW-QUENBRDG_138_28242	28242	138	195	249	378	25316	58
ASTORIAW-QUENBRDG_138_28243	28243	138	391	499	688	25317	106
ASTORIAW-QUENBRDG_138_28244	28244	138	413	557	688	25318	122

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
ATHENS_-PLSNTVLY_345_91	91	345	1624	1783	1946	25054	763
AYERREND-TNWD206_115_36	36	115	211	211	212	326367	35
AYERREND-TNWD206_115_37	37	115	206	206	206	326370	37
BAGATLRD-PILGRIM_138_564	564	138	566	611	673	325607	54
BAKER_ST-FALCONER_115_160	160-3	115	222	234	239	26513	2
BALLSTON-TAPBLSTN_115_1	1	115	141	144	165	325896	66
BALLSTON-TAPBLSTN_115_302	302	115	141	144	165	325897	0
BARRETT_138_69_BK 1	BK 1	138	127	156	156	26600	79
BARRETT_138A_138B_PAR	B_PAR	138	266	271	326	25590	145
BARRETT_-FREEPORT_138_459	459	138	192	271	325	26425	145
BATAVIA_-EBATAVIA_115_107	107	115	159	159	159	326099	6
BATAVIA_-SEBATAVIA_115_117	117	115	239	239	239	26017	3
BATH___-MONTRFL_115_965	965	115	146	149	149	26163	7
BATH___-SPENCHIL_115_723	723	115	146	160	178	325797	31
BATNKILL-EASTOVER_115_10	10	115	227	248	268	26474	29
BATTHILL-PYRITES_115_7	7-BHP	115	93	101	107	26065	15
BEAR SWP-EASTOVER_230_E205W	E205W	230	536	586	634	25030	18
BECK___-NIAGARA_230_PA27	PA27	230	480	540	685	25025	18
BECK___-NIAGARA_345_PA301	PA301	345	1180	1469	1860	25040	22
BECK___-NIAGARA_345_PA302	PA302	345	1180	1469	1860	25041	22
BECK___-PACKARD_230_BP76	BP76	230	582	687	687	25024	59
BENETTRD-E_DUNKRK_115_161	161-3	115	213	225	242	326231	35
BENETTRD-E_DUNKRK_115_162	161-3	115	213	225	242	326233	35
BENNETT_-MORAIN_115_725	725	115	149	172	179	325858	41
BENNETT_-SPENCHIL_115_953	953	115	146	160	178	26164	13
BERKSHIR-ALPS___345_393	393	345	1792	1883	1912	25034	57
BERKSHIR-NORTHFLD_345_312	312	345	1345	1345	1793	25366	14
BERRY_RD-BAKER_ST_115_160	160-2	115	245	257	282	26512	12
BETHLHEM-ALBANY_115_18	18-BA	115	388	427	474	26119	143
BETHLMRD-ROCKTVRN_115_RD	RD	115	152	167	176	326346	34
BIGTREE_-DAVIS_RD_115_904	904	115	179	197	213	25162	29
BIGTREE_-LANGNERD_115_903	903	115	206	227	239	326050	65
BLACKRVR-CLIMAX_115_1	1-BC	115	141	144	159	26067	35
BLACKRVR-EWATRWN_115_5	5	115	141	144	159	325771	14
BLACKRVR-FORTDRUM_115_2	2-BF	115	141	144	159	26068	4
BLACKRVR-GLENPARK_115_3	3	115	119	119	119	325315	20
BLACKRVR-LIGHTHSE_115_6	6	115	141	144	159	25506	24
BLISSVIL-WHITEHAL_115_K7	K7	115	239	239	239	25028	0
BLUESTOR-LAFARGE_115_8	8	115	141	144	159	326091	26
BLUESTOR-PLSTVYCH_115_13-987	13-987	115	168	187	216	25505	45
BLUESTOR-PLSTVYCH_115_8	8	115	141	144	159	25498	26
BNNINGTN-HOOSICK_115_K6	K6	115	229	274	292	25029	3
BNVLMUNI-PORTER_115_2	2	115	141	144	159	325778	17
BOONVLE-BNVLMUNI_115_2	2	115	124	124	124	26073	5

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
BOONVLE-PORTER__115_1	1-BP	115	127	127	127	26074	15
BOONVLE-ROME___115_3	3-BR	115	141	144	159	26071	23
BOONVLE-ROME___115_4	4-BR	115	128	135	152	26072	29
BORDRCTY-GUARDIAN_115_969	969	115	179	179	179	325283	83
BOWLINE_345_138_BK455	BK455	345	506	587	671	25664	125
BOWLINE_-WHAVSTRW_345_67-1	67-1	345	777	837	837	25567	306
BOWLINOR-CONGERS_138_561	561	138	378	414	431	26723	113
BRADY_-NOGDNBRG_115_13	13	115	245	260	282	326348	18
BRIGHAM_-LUDLUM__115_161	161-2	115	213	225	242	26020	48
BRISTLHL-CLAY___115_4	4	115	128	135	135	25518	34
BRISTLHL-S.OSWEGO_115_4	4	115	128	134	152	25512	38
BROOK_RD-SMITHBRD_115_2	2	115	268	292	317	325901	25
BROOK_RD-SMITHBRD_115_302	302	115	268	292	317	325902	16
BROOK_RD-TAPBROOK_115_2	2	115	268	292	317	325899	54
BROOK_RD-TAPBROOK_115_302	302	115	268	292	317	325900	31
BROOKHVN_138_69_BK 1	BK 1	138	258	318	383	26548	79
BROOKHVN_138_69_BK 2	BK 2	138	258	318	424	325152	73
BROOKHVN-EDWARDAV_138_864	864	138	275	382	420	25553	77
BROOKHVN-SILLSRD_138_874	874	138	529	591	669	325617	70
BROOKHVN-SILLSRD_138_887	887	138	461	494	547	325619	70
BROOKHVN-WILDWOOD_138_861	861	138	521	582	659	325932	89
BROWNFLS-HIGLEY__115_1	1-BH	115	130	144	159	26078	10
BROWNFLS-TAYLORVL_115_3	3-BT	115	130	144	154	26076	17
BROWNFLS-TAYLORVL_115_4	4-BT	115	128	135	152	26077	17
BUCHAN_N_345_138_BK TA5	BK TA5	345	230	306	381	25425	92
BUCHAN_N-BUCHANAN_138_95891	95891	138	249	296	384	25568	92
BUCHAN_N-EASTVIEW_345_W93	W93	345	1823	2015	2557	25133	978
BUCHAN_S-MILLWOOD_345_W97	W97	345	1840	1973	2154	25146	698
BUCHAN_S-MILLWOOD_345_W98	W98	345	1840	1973	2154	25247	698
BUCHANAN-MILLWOOD_138_96951	96951	138	291	322	408	25283	26
BUCHANAN-MILLWOOD_138_96952	96952	138	291	322	408	25284	26
BUFAL129-MAPLE140_115_38	38	115	176	181	209	326159	84
BUFAL129-MAPLE140_115_39	39	115	176	181	209	326160	82
BUFALO54-BUFALO61_115_38	38	115	227	249	268	326155	69
BUFALO54-BUFALO61_115_39	39	115	211	217	255	326156	67
BUFALO61-URBAN154_115_38	38	115	211	217	255	326153	65
BUFALO61-URBAN154_115_39	39	115	211	217	255	326154	63
BUFALO78-HUNTLEY__115_130	130	115	211	217	239	26043	85
BULYMO_-BOONVLE_115_6	6	115	140	144	145	325265	29
BURDECK_-ALTAMONT_115_17	17-BA	115	141	144	165	26151	53
BURDECK_-VORHVSLE_115_19	19-BV	115	128	135	152	26152	57
BURNS__138_69_BK 519	BK 519	138	208	258	284	25889	50
BURNS_-CORPDRIV_138_702	702	138	226	248	258	325812	71
BURNS_-N.HEMPST_138_531	531	138	282	309	321	25878	7

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
BURNS_-WHAVSTOR_138_541	541	138	282	309	321	25879	45
BUTLER_-MOHICAN_115_18	18	115	141	144	165	26434	23
C._ISLIP_138_69_BK 3	BK 3	138	259	304	319	26519	83
C._ISLIP-RONKOKMA_138_883	883	138	435	584	662	26497	4
C_BATNKILL-MULTP-10_115_10	10	115	222	234	268	26121	29
CANAL_-RIVRHEAD_138_910	910	138	241	281	311	325242	81
CANANDGA-STONYRDG_230_68	68	230	600	625	653	25176	123
CARD___-MILSTONE_345_383	383	345	1864	2187	2390	25332	263
CARMEL_-CROTONFL_115_991	991	115	261	287	311	26155	38
CARMEL_-WOODSTNY_115_992	992	115	261	287	311	325278	67
CARR_ST_-BM_CC_GM_115_6	6	115	227	249	268	325216	83
CARR_ST_-DEWITT___115_15	15-CD	115	227	249	268	26093	15
CARRSCRN-SALAMANC_115_153	153	115	156	170	181	326163	7
CARRSCRN-SALAMANC_115_154	154	115	156	170	181	326165	10
CASTLEGD-FULLRHLW_115_937	937	115	299	335	358	325222	9
CATON___-HILLSIDE_115_960	960	115	119	120	120	325290	23
CAVANARD-PORTER___115_7	7	115	141	144	159	325214	41
CEDAR___-BURGOYNE_115_6	6	115	141	144	165	26516	14
CHADWICK-E.WALDEN_115_DW	DW-3	115	225	251	282	26218	54
CHADWICK-WBALMVLE_115_DW	DW-2	115	219	232	255	26217	12
CHASLAKE-PORTER___230_11	11	230	511	564	586	25051	108
CHAT_TAP-LYON_MTN_115_1(911)	911	115	173	191	205	325704	15
CHATEAUG-CHAT_TAP_115_911	911	115	44	45	49	325705	18
CHATGUAY-MASSENA_765_7040	7040	765	5300	6254	6625	25301	239
CHEMUNG_-NWAVERLY_115_962	962	115	187	210	230	325289	37
CHESTROR-SUGRLOAF_138_271	271	138	282	309	321	325424	40
CHRCHTWN-BLUESTOR_115_13-987	13-987	115	179	179	179	26685	56
CHRCHTWN-CRARYVIL_115_984	984	115	138	167	179	26500	10
CHRCHTWN-SCHODACK_115_14-984	14/984	115	168	199	199	26126	65
CHURCH_S-ROTRDAM_115_10	10-AR	115	141	144	155	26428	19
CLAY___345_115_BK 1	BK 1	345	560	718	796	25387	230
CLAY___345_115_BK 2	BK 2	345	590	764	796	25421	230
CLAY___-DEWITT___115_3	3-CD	115	141	144	165	25519	66
CLAY___-DEWITT___115_5	5-CD	115	245	260	282	25522	41
CLAY___-DEWITT___345_13	13	345	1431	1605	1721	25168	464
CLAY___-EDIC___345_1-16	42751	345	1591	1745	1904	25200	519
CLAY___-EDIC___345_2-15	42781	345	1591	1745	1904	25169	521
CLAY___-HOPKINS_115_11	11	115	268	292	317	25516	102
CLAY___-INDPDNCE_345_26	26	345	1918	2115	2390	25858	829
CLAY___-TEALLAVE_115_10	10-CT	115	141	144	165	25520	107
CLAY___-WETZEL___115_14	14-CG	115	268	293	317	25517	47
CLAY___-WOODARD___115_17	17	115	268	293	317	25515	65
CLIMAX_-TAYLORVL_115_8	8-CT	115	128	135	152	26431	28
CLINTON_-IMC_TAP___115_15	15-CI	115	141	144	165	26128	12

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
CLRKSCRN_345_115_BK1	BK1	345	280	313	336	325724	26
CLRKSCRN_345_115_BK2	BK2	345	280	313	336	325725	26
CLRKSCRN-OAKDALE_345_36	36	345	1279	1410	1781	325726	629
CLYDE__115_34_TR1	TR1	115	152	166	175	25221	20
CLYDE__-STATE_ST_115_3-971	971	115	146	159	159	68810	1
COBBLENM-COBBLENY_115_BK 1	BK 1	115	45	47	53	25426	14
COBBLENM-SPRINGVL_115_151	151	115	156	171	182	326166	41
COBBLENM-SPRINGVL_115_152	152	115	156	171	182	326170	36
CODNIGTN-E.ITHACA_115_981	981-1	115	133	149	162	25730	24
CODNIGTN-ETNA__115_998	998	115	266	293	299	25734	56
COFFEEN_-EWATRTWN_115_5	5	115	119	119	119	325769	24
COFFEEN_-GLENPARK_115_3	3-CG	115	119	119	119	26069	47
COLDENHM-ROCKTVRN_115_J	J	115	256	282	349	26420	7
COLDSPRG-CARRSCRN_115_905	905	115	36	40	42	26440	12
COLLIERS-RICHFELD_115_929	929	115	149	172	215	26169	4
COLTON_-FLATROCK_115_2	2-CF	115	139	146	159	26088	10
COLTON_-HIGLEY__115_1	1-HC	115	130	144	159	26087	11
COLTON_-TOWNLIN_115_9	9	115	119	119	119	325641	47
COMSTKNM-BURGOYNE_115_13	13-MW	115	141	144	159	26484	27
CONGERS_-SNKEHLRD_138_563	563	138	212	281	317	25887	88
COOPERNY-FERNDAL_115_950	950	115	179	179	179	26171	39
COOPERNY-ROCKHILL_115_957	957	115	168	185	200	325614	26
COOPERS_345_115_BK 2	BK 2	345	256	295	300	25433	51
COOPERS_345_115_BK 3	BK 3	345	256	295	300	25434	51
COOPERS_-DOLSONAV_345_CCDA42	CRT-42	345	1793	1793	1793	25111	562
COOPERS_-MIDDLETP_345_CMT-34	CMT-34	345	1786	1793	1793	25110	614
CORNING_-MCADOO__115_4	4	115	156	158	159	326380	7
CORONA__138A_138B_BK R1	B_BK R1	138	214	285	354	25621	55
CORONA__138A_138C_BK R2	C_BK R2	138	214	285	354	25622	55
CORONA_-JAMAICA_138_18001	18001	138	168	225	368	25285	55
CORONA_-JAMAICA_138_18002	18002	138	168	225	368	25286	55
CORPDRIV-HARNGCRN_138_703	703	138	189	222	250	25881	56
CORTLAND-FENERWND_115_3	3	115	152	166	175	325248	7
CORTLAND-TULLERHL_115_1-716	1	115	156	170	181	25059	34
CORTLAND-TULLYCTR_115_18	18	115	224	239	239	26089	35
CURRY_RD-WOLF_RD__115_8	8	115	141	144	165	26254	31
CURTPALM-EJWEST__115_9	9	115	156	170	181	326146	3
DALEROAD-GARDNVLB_115_39	39	115	168	212	239	26036	59
DANSKAMR-CHADWICK_115_DW	DW-1	115	255	282	315	26219	42
DANSKAMR-MARLBORO_115_DB	DB	115	227	249	269	26221	52
DANSKAMR-NCHELSEA_115_AC	AC	115	216	231	334	25829	146
DANSKAMR-NCHELSEA_115_DC	DC	115	200	217	334	25830	151
DANSKAMR-RYND_115_DR	DR	115	237	282	315	25831	52
DAVIS_RD-STOLLERD_115_927	927	115	238	239	239	26172	11

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
DEERFLD_-SCOBIE__345_373	373	345	1677	1677	1677	26383	201
DELEMTER-LAKEVIEU_115_141	141	115	107	117	123	325873	24
DELEMTER-LAKEVIEU_115_142	142	115	107	117	123	325880	35
DELHI_-DELHI_TP_115_951	951	115	164	164	164	26174	76
DELHI_-GR.GORGE_115_916	916	115	90	90	90	26479	19
DELHI_-VINGR_TP_115_917_916	917-916	115	120	120	120	25911	40
DELHI_TP-COLLIERS_115_951	951-2	115	239	239	239	26203	35
DENNISON-LAWRNCAV_115_5	5	115	268	293	317	25226	12
DENNISON-NORFOLK_115_4	4	115	268	293	317	25225	10
DENNISON-ROSEMNTA_115_1/11	1-RD	115	215	235	253	25523	0
DENNISON-ROSEMNTB_115_2/22	2-RD	115	215	235	253	25524	0
DEPEW_NG-ERIE_ST_115_54-921	54-921	115	145	160	178	26010	40
DEPEW_TP-DEPEW__115_BK 1	BK 1	115	120	120	120	25428	8
DEWITT__345_115_BK 2	BK 2	345	619	758	796	25418	204
DEWITT_-TEALLAVE_115_4	4-DT	115	141	144	165	26094	42
DOLSONAV-ROCKTVRN_345_DART44	CRT-42	345	1793	1793	1793	326310	558
DULEY_-PATNODE_230_PND-1	PND-1	230	506	564	589	325856	30
DULEY_-PLATSBRG_230_DP-1	DP-1	230	284	320	356	25272	59
DUNKIRK_230_115_BK 31	BK 31	230	173	234	250	25386	76
DUNKIRK_230_115_BK 41	BK 41	230	166	226	250	25430	76
DUNKIRK_-BERRY_RD_115_160	160-1	115	239	239	239	26025	54
DUNKIRK_-BRIGHAM_115_161	161-1	115	211	217	239	26021	51
DUNKIRK_-BRIGHAM_115_162	162-1	115	211	217	239	26027	45
DUNKIRK_-SILVRCK_115_141	141	115	107	117	123	26026	8
DUNKIRK_-SILVRCK_115_142	142	115	107	117	123	26018	9
DUNWODIE_138_138_BK N1	BK N1	138	376	428	500	25624	115
DUNWODIE_138_138_BK N2	BK N2	138	223	312	400	25623	115
DUNWODIE_138_138_BK S1	BK S1	138	443	585	600	25626	205
DUNWODIE-DUNWOODN_345_W74	W74	345	490	575	667	326212	271
DUNWODIE-DUNWOODS_345_W73	W73	345	386	454	511	326211	227
DUNWODIE-E179THST_138_99153	99153	138	269	370	651	25287	205
DUNWODIE-MOTTHAVN_345_71	71	345	741	858	1309	25151	378
DUNWODIE-MOTTHAVN_345_72	72	345	741	858	1309	25191	345
DUNWODIE-SHERMCRK_138_99031	99031	138	154	196	308	25193	115
DUNWODIE-SHERMCRK_138_99032	99032	138	219	307	421	25239	115
DUNWODIE-SHORE_RD_345_Y50	Y50	345	741	977	1667	25091	574
DUNWOODN_345_138_BK N1	BK N1	345	490	575	667	25209	270
DUNWOODS_345_138_BK S1	BK S1	345	386	454	511	25208	227
DUNWOODS-DUNWOODN_138_99997	99997	138	245	293	342	25532	2
E.ITHACA-ETNA__115_981	981	115	133	149	162	25733	63
E.SAYRE_-NWAVERLY_115_956	956	115	128	128	147	25013	9
E.TWANDA-HILLSIDE_230_70	70	230	512	564	670	25014	16
E.WALDEN_115_69_TR_3	TR_3	115	67	81	91	26681	14
E.WALDEN-COLDENHM_115_CW	CW	115	256	282	349	26225	17

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
E.WALDEN-MODENA__115_EM	EM	115	285	310	349	25832	7
E.WALDEN-ROCKTVRN_115_D	D	115	256	282	350	26226	5
E_DUNKRK-MOONS_SW_115_161	161-3	115	107	117	123	326232	22
E_DUNKRK-MOONS_SW_115_162	161-3	115	107	117	123	326234	26
E13THSTA_138_69_BK 9	BK 9	138	195	248	261	26488	0
E13THSTA_345_138_BK 10	BK 10	138	294	326	367	25467	108
E13THSTA_345_138_BK 11	BK 11	138	284	297	315	25468	90
E13THSTA_345_138_BK 12	BK 12	138	284	297	315	25463	110
E13THSTA_345_138_BK 13	BK 13	138	307	373	447	25464	91
E13THSTA_345_138_BK 14	BK 14	138	295	326	369	25465	0
E13THSTA_345_138_BK 15	BK 15	138	323	369	410	25466	0
E13THSTA_345_138_BK 16	BK 16	138	318	372	495	25469	109
E13THSTA-EASTRIVR_138_37041	37041	138	178	257	443	326190	10
E13THSTA-EASTRIVR_138_37042	37042	138	178	257	443	326191	10
E13THSTA-EASTRIVR_138_37043	37043	138	178	257	443	326192	10
E13THSTA-EASTRIVR_138_37044	37044	138	178	257	443	326193	10
E13THSTA-FARRAGUT_345_45	45	345	773	944	1347	25190	0
E13THSTA-FARRAGUT_345_46	46	345	786	955	1353	25251	180
E13THSTA-FARRAGUT_345_48	48	345	692	832	1288	25252	52
E13THSTA-FARRAGUT_345_B47	B47	345	537	731	1157	25177	22
E179THST-HELLGT_E_138_15053	15053	138	187	244	374	25289	101
E179THST-HELLGT_E_138_15054	15054	138	187	244	374	25290	101
E179THST-PARKCHTR_138_38X01	38X01	138	191	305	512	25327	53
E179THST-PARKCHTR_138_38X02	38X02	138	191	305	512	25328	53
E179THST-PARKCHTR_138_38X03	38X03	138	191	305	512	25329	34
E179THST-PARKCHTR_138_38X04	38X04	138	191	305	512	25330	34
EASTOVER_230_115_TR 1	TR 1	230	466	579	597	326097	46
EASTRIVR_138_69_BK 111	BK 111	138	91	121	142	25526	10
EASTRIVR_138_69_BK 112	BK 112	138	91	121	142	25527	10
EASTRIVR_138_69_BK 113	BK 113	138	91	121	142	25528	10
EASTRIVR_138_69_BK 114	BK 114	138	91	121	142	25529	10
EASTVIEW_345_138_BK 1N	BK 1N	138	438	493	493	25472	108
EASTVIEW_345_138_BK 1S	BK 1S	138	438	493	493	25373	105
EASTVIEW_345_138_BK 2N	BK 2N	138	438	493	493	25471	123
EASTVIEW_345_138_BK 2S	BK 2S	138	438	493	493	25470	107
EASTVIEW-SPRNBK_345_W64	W64	345	2430	2823	3357	25143	852
EASTVIEW-SPRNBK_345_W65	W65	345	1976	2387	2897	25144	726
EASTVIEW-SPRNBK_345_W78	W78	345	2430	2823	3357	25346	683
EASTVIEW-SPRNBK_345_W79	W79	345	1976	2387	2897	25153	685
EBATAVIA-GOLAH__115_119	119	115	168	185	196	26012	11
EDIC__-FRASER__345_EF24-40	EF24-40	345	1793	1793	1793	25112	636
EDIC__-N.SCTLND_345_14	14	345	1624	1783	1912	25170	463
EDIC_PTR_230_115_BK 1P	BK 1P	230	320	365	398	25389	47
EDIC_PTR_230_115_BK 2P	BK 2P	230	320	365	398	25423	47

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
EDIC_PTR_345_115_BK 3E	BK 3E	345	524	602	760	25424	158
EDIC_PTR_345_115_BK 4E	BK 4E	345	603	721	796	25454	158
EDIC_PTR_345_230_BK 2E	BK 2E	230	551	626	758	25422	214
EDWARDAV-RIVRHEAD_138_893	893	138	275	346	377	325654	63
EELPOTRD-MEYER__115_724	968	115	143	157	167	325288	19
EFISHKCH_345_115_BK 2	BK 2	345	560	560	560	325845	0
EFISHKIL_345_115_BK 1	BK 1	345	505	531	531	25724	11
EFISHKIL-WOOD_ST_345_F38	F38	345	2409	2679	3406	25367	707
EFISHKIL-WOOD_ST_345_F39	F39	345	2409	2679	3406	25368	780
EGRDNCTY_138_69_BK 1	BK 1	138	258	304	338	26652	68
EGRDNCTY_345_138_BK 1	BK 1	345	444	556	641	25551	312
EGRDNCTY_345_138_BK 2	BK 2	345	444	556	641	25552	312
EGRDNCTY_345C_345A_PAR1	A_PAR1	345	444	812	855	25678	312
EGRDNCTY_345C_345B_PAR2	B_PAR2	345	444	812	855	25679	312
EGRDNCTY-CARLPLCE_138_361	361	138	315	345	376	25533	20
EGRDNCTY-EGRDNCTR_345_Y49_ST	Y49_ST	345	693	940	1360	325158	625
EGRDNCTY-NEWBRDGE_138_462	462	138	186	274	452	25303	111
EGRDNCTY-NEWBRDGE_138_463	463	138	203	292	413	25304	111
EGRDNCTY-NEWBRDGE_138_465	465	138	212	300	419	25535	117
EGRDNCTY-ROSLYN__138_362	362	138	309	339	369	25534	4
EJWEST_-SCOFDRD_115_9	9	115	245	260	282	326147	38
EKINGSTN-RHINEBCK_115_ER	ER	115	219	232	255	26222	25
ELBRIDGE_345_115_BK 1	BK 1	345	542	621	796	25448	191
ELBRIDGE-GRS_LOCK_115_19	19-EG	115	141	144	165	26097	6
ELBRIDGE-GRS_LOCK_115_3	3	115	176	176	176	26098	9
ELBRIDGE-HYATT__115_10-979	15-EH	115	156	171	182	25109	32
ELBRIDGE-LAFAYTTE_345_17-LE	17-LE	345	940	1562	1912	25149	433
ELBRIDGE-MILTON_C_115_18	18-EM	115	156	159	159	26095	15
ELBRIDGE-STATE_ST_115_5-972	5_972	115	194	223	239	25107	32
ELBRIDGE-STATE_ST_115_6-710	6-710	115	217	223	242	326377	33
ELM_ST_-SENECA__230_71	71	230	223	254	262	26426	19
ELM_ST_-SENECA__230_72	72	230	223	254	262	26427	19
ELWOOD__138_69_BK 3	BK3	138	129	156	208	26540	47
ENDICOTT-RANGEHL_115_920	920	115	149	149	149	26158	18
ENDICOTT-ROBBLEAV_115_948	948	115	254	254	254	26159	35
ENORWICH-CTYLINE_115_918	918	115	120	120	120	325280	41
ENORWICH-JENNISON_115_946	946	115	117	136	153	25729	24
ERIE E_-S.RIPLEY_230_69	69	230	516	637	637	25016	0
ERIE_ST_-PAVNMTRD_115_926	926	115	252	269	269	26175	60
ETNA__-CLRKSCRN_115_715	715	115	304	313	345	325728	9
ETNA__-CLRKSCRN_115_947	947	115	292	313	345	325727	9
ETNA__-WILLET__115_945	945-2	115	149	169	175	25731	90
FAIRFIEL-INGHAM_C_115_3	3	115	141	144	159	26106	62
FAIRPORT-ELBRIDGE_115_2	2	115	176	181	199	26099	12

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
FAIRPORT-HOOK_TAP_115_1	1	115	176	181	183	26327	5
FALCONER-SOUTHADOW_115_153	153	115	156	171	182	26033	0
FALCONER-SOUTHADOW_115_154	154	115	156	171	182	26032	8
FARMGTN_115_12_BK 3	BK 3	115	26	32	44	325380	10
FARMGTN_115_34_BK 1	BK 1	115	72	82	112	70259	30
FARMGTN_115_34_BK 2	BK 2	115	64	74	100	70258	14
FARMGTN_-BORDRCTY_115_4-977	977	115	187	206	219	25057	83
FARMGTN_-HAMLTNNM_115_7-983	7-983	115	146	146	146	26101	19
FARRAGUT_345A_138C_BK 9X	BK 9X	345	130	174	216	25636	21
FARRAGUT_345A_138D_BK 10X	BK 10X	345	130	174	216	25637	23
FARRAGUT_345B_345A_TR11	TR11	345	543	737	930	25044	148
FARRAGUT_345C_345A_TR12	TR12	345	549	748	930	25043	148
FARRAGUT-GOWANUS_345_41	41	345	653	856	1316	25141	44
FARRAGUT-GOWANUS_345_42	42	345	653	856	1316	25140	44
FARRAGUT-HUDS_AVE_138_32077	32077	138	130	174	216	25291	23
FARRAGUT-HUDS_AVE_138_32078	32078	138	136	181	216	25292	20
FARRAGUT-HUDS_AVE_138_32711	32711	138	129	154	167	25293	21
FENERWND-ONEIDA__115_8	8	115	159	159	159	25894	1
FERNDALE-WWDBURNY_115_959	959	115	90	90	90	26180	13
FEURABSH-GREENBSH_115_17	17	115	311	341	375	25862	27
FEURABSH-NCATSKLL_115_2	2-FN	115	141	144	165	25067	80
FISHKPLN-EFISHKIL_115_HF	HF	115	243	267	293	26227	12
FISHKPLN-SYLVANLK_115_FP/990	FP/990	115	238	239	239	25066	115
FITZPTRK-EDIC__345_FE-1	FE-1	345	1434	1434	1661	25077	736
FIVE_MIL-VALLEY44_115_152	152	115	156	171	182	326174	1
FIVE_MIL-VALLEY44_115_167	167	115	156	171	182	326173	15
FIVEMILE_345_115_TR1	TR1	345	597	597	597	326175	10
FIVEMILE-STOLLERD_345_29	29	345	754	840	840	326176	88
FLATROCK-BROWNFLS_115_2	2-FBF	115	130	144	159	26079	14
FLATSTR_-EELPOTRD_115_722	968	115	143	157	167	325287	3
FORGEBRK-MERTPARK_115_WF	WF	115	194	214	237	26229	75
FORTDRUM-DEFERIET_115_2-FD	2-FD	115	141	144	165	26091	5
FORTDRUM-TAYLORVL_115_2	2-DT	115	128	135	152	26090	2
FOXHILLS-WILLWBRK_138_29211	29211-1	138	207	275	450	25771	181
FOXHILLS-WILLWBRK_138_29212	29212-1	138	207	275	450	25772	184
FRASANX-COOPERS_345_UCC2-41	UCC2-41	345	1793	1793	1793	326221	709
FRASER__345_115_BK 2	BK 2	345	356	420	420	25391	112
FRASER_-COOPERS_345_33	33	345	1793	1793	1793	25236	576
FRASER_-GILBOA__345_GF5-35	GF5-35	345	1746	1793	1793	25060	129
FRASERNY-DELHI_TP_115_951	951-3	115	239	239	239	26202	112
FREERPORT-NEWBRDGE_138_461	461	138	222	289	413	25155	195
FRESHKLS_138C_138A_R1_21191	21191	138	327	435	539	25639	244
FRESHKLS_138C_138B_R2_21192	21192	138	329	410	486	25640	245
FRESHKLS_345_138_TA 1	TA 1	138	327	435	540	25457	246

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
FRESHKLS_345_138_TB 1	TB 1	138	329	410	478	25458	246
FRNKYONG-NBRDWYNG_115_181-922	181-922	115	179	197	211	326277	99
FRNKYONG-WALDENNG_115_182	182	115	211	217	242	326279	83
FRONT_ST-ROSA_RD_115_11	11	115	239	239	239	26274	68
FROST_BR-LONG_MTN_345_352	352	345	1351	1554	1841	25363	270
FROST_BR-SOUTHNGT_345_329	329	345	1350	1554	1793	25364	488
FTZPK_NM-LIGHTHSE_115_3	3-FLH	115	119	119	159	25502	29
FULLRHWL-MORGANRD_115_937	937	115	239	239	239	325223	1
GARDNVLA-GIRDLERD_115_705	705	115	239	239	239	25116	79
GARDNVLA-LANGNERD_115_903	903	115	179	197	213	325284	78
GARDNVLA-STOLLERD_230_66	66	230	613	673	765	25180	144
GARDNVLB_230_115_BK 2	BK 2	230	317	334	396	25385	85
GARDNVLB_230_115_BK 3	BK 3	230	168	210	250	25416	55
GARDNVLB_230_115_BK 4	BK 4	230	169	211	250	25417	56
GARDNVLB-BETHWEST_115_149	149	115	245	257	294	325317	14
GARDNVLB-BETHWEST_115_150	150	115	245	257	294	325318	4
GARDNVLB-CLVRBANK_115_141	141	115	107	117	123	26038	39
GARDNVLB-CLVRBANK_115_142	142	115	107	117	123	26037	40
GARDNVLB-COBBLENM_115_151	151	115	199	199	199	26040	42
GARDNVLB-COBBLENM_115_152	152-1	115	199	199	199	26023	50
GARDNVLB-DUNKIRK_230_73	73	230	637	637	637	25166	75
GARDNVLB-DUNKIRK_230_74	74	230	633	633	633	25197	76
GARDNVLB-GARDNVLA_115_T1012	T1012	115	376	403	420	25085	1
GARDNVLB-GARDNVLA_230_T8-12	T8-12	230	773	773	773	25089	60
GARDNVLB-WALDENNG_115_54-921	54-921	115	168	212	239	26035	12
GE_R_D_-GROOMS__115_20_15	20_15	115	245	257	294	26266	21
GELCKHM_-WETZEL__115_14	14-CG	115	268	293	317	326189	29
GETZVL60-AYERREND_115_36	36	115	211	217	255	26049	48
GILBOA_-LEEDS__345_GL3	GL3	345	1762	1896	2241	25219	406
GILBOA_-N.SCTLND_345_GNS-1	GNS-1	345	1746	1896	2103	25052	2
GINNA_-PANNELRG_115_912	912	115	289	305	312	25260	72
GINNA_-S124____115_913	913	115	298	344	414	26281	97
GINNA_-STA_135_115_909	909	115	282	298	313	325837	86
GINNA_-STA_135_115_937	937	115	282	298	313	325838	86
GINNA_-STA_204_115_908	908-1	115	322	360	415	26282	114
GINNA_-STA_204_115_911	911	115	320	358	414	26283	114
GIRDLERD-STOLLERD_115_706	706	115	228	229	239	325161	58
GLENWDGT-ROSLYN__138_364	364	138	336	372	409	25556	30
GLENWOOD_138_69_BK 5	BK 5	138	128	156	203	25735	71
GLENWOOD_138_69_BK 6	BK 6	138	128	156	208	70637	70
GLENWOOD-CARLPLCE_138_363	363	138	312	374	411	25554	24
GLENWOOD-GLENWDGT_138_366	366	138	335	371	407	25555	30
GOETHALS_345A_345B_BK 1N	BK 1N	345	591	787	978	25641	101
GOETHALS-FRESHKLS_345_21	21	345	1016	1096	1362	25138	246

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
GOETHALS-FRESHKLS_345_22	22	345	1285	1618	1817	25137	246
GOETHALS-LINDN_CG_345_G23L	G23L	345	672	893	1630	26000	355
GOETHALS-LINDN_CG_345_G23M	G23M	345	672	893	1630	325203	355
GOETHSLN_345/230_BK 1	BK 1	345	630	789	886	25642	101
GOLAH_-MORTIMER_115_110	110	115	158	159	159	26034	52
GOUDEY_-ROBBLEAV_115_940	940	115	292	320	351	325166	25
GOUVNEUR-BATTHILL_115_8	8-GBH	115	93	101	106	26066	14
GOWANUS_138A_138B_PAR R14	PAR R14	138	309	407	421	25794	115
GOWANUS_138A_138B_PAR R2	PAR R2	138	305	362	421	25793	115
GOWANUS_345_138_BK T14	BK T14	138	309	407	421	25475	115
GOWANUS_345_138_BK T2	BK T2	138	305	362	421	25476	115
GOWANUS_-GOETHALS_345_25	25	345	561	748	1241	25139	159
GOWANUS_-GOETHALS_345_26	26	345	561	748	1241	25571	159
GOWANUS_-GREENWD_138_42231	42231	138	273	362	421	25214	115
GOWANUS_-GREENWD_138_42232	42232	138	273	338	407	25215	115
GOWANUSA-GREENWD_138_42G24	42G24	138	270	307	322	26007	0
GOWANUSC-GREENWD_138_42G13	42G13	138	259	307	322	26006	0
GOWANUSN_345KV_REA_R41_REACTR	R41_REA	345	687	896	1315	26001	44
GOWANUSS_345KV_REA_R42_REACTR	R42_REA	345	687	896	1315	26003	44
GR.GORGE-VINGR_TP_115_916 N.O.	916 N.O	115	149	172	215	26478	0
GREENBSH-FT_ORAN_115_15	15	115	199	199	199	26130	17
GREENBSH-RVSD_TAP_115_4	4	115	224	239	239	325649	0
GREENBSH-STEPHTWN_115_993	993	115	141	144	159	26447	14
GREENDGE-FLATSTR_115_968	968	115	133	149	162	26185	13
GREENDGE-MONTRFL_115_967	967	115	133	149	162	26184	28
GREENDGE-MONTRFL_115_970	970	115	146	160	178	26183	35
GREENLWN_138_69_BK5	BK5	138	129	156	203	26655	36
GREENLWN-ELWOOD__138_673	673	138	381	590	668	25546	1
GREENLWN-SYOSSET_138_676	676	138	263	365	657	25548	77
GREENWD_-FOXHILLS_138_29231	29231	138	195	249	378	25321	144
GREENWD_-FOXHILLS_138_29232	29232	138	195	249	378	25322	145
GRISLD64-NIAGB130_115_182	182	115	211	217	255	26014	110
GROOMS_-JOHNSON_115_13-14	13	115	268	293	317	26267	50
GRS_LOCK-GELCKHM_115_8	8-GS	115	141	144	165	26103	23
GRS_LOCK-S.OSWEGO_115_9	9-GS	115	171	171	171	25510	59
GRS_LOCK-TILDEN__115_16	16-GT	115	141	144	165	26102	54
GUARDIAN-HALEYRD_115_969	969	115	179	179	179	26167	78
HALEYRD_-GREENDGE_115_969	969	115	179	179	179	325294	57
HAMLTNNM-ELBRIDGE_115_7-983	7-983	115	189	195	197	26096	29
HAMLTNNM-HAMLTNNY_115_BK1	BK 1	115	34	42	56	25394	10
HAMRHILL-INDK-OSW_115_6	6-HI	115	139	144	159	26114	80
HANAWAFL-COLTON__115_5	5	115	222	234	278	326185	7
HANCOCK_-HAZEL__115_955	955-1	115	119	120	120	26187	0
HARSNRAD-ROBNSNRD_115_907	907	115	261	287	306	26162	5

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
HAUPPAUG-C_ISLIP_138_889	889	138	241	326	413	25681	99
HAZEL_-FERNDALE_115_955	955-2	115	119	120	120	26181	10
HDSNBRDG-DEWITT__115_10	10	115	225	251	291	325260	67
HDSNBRDG-DEWITT__115_7	7	115	340	374	414	325261	47
HELLGT_E-ASTORIAE_138_34051	34051	138	195	249	378	25323	101
HELLGT_E-ASTORIAE_138_34052	34052	138	195	249	378	25324	101
HELLGT_W-ASTORIAW_138_24051	24051	138	188	264	447	25210	91
HELLGT_W-ASTORIAW_138_24052	24052	138	188	264	447	25211	74
HELLGT_W-ASTORIAW_138_24053	24053	138	171	207	207	25212	91
HELLGT_W-ASTORIAW_138_24054	24054	138	171	207	207	25213	90
HICKLING-CATON__115_958	958	115	119	120	120	26189	7
HICKLING-YAWGERRD_115_964	964	115	149	164	175	26188	16
HILLBURN_138_69_BK 317	BK 317	138	187	230	265	26330	53
HILLBURN-RAMAPOOR_138_52	52	138	187	230	265	25882	53
HILLSIDE-CHEMUNG__115_962	962	115	170	179	179	25726	40
HILLSIDE-WATRCURE_230_69	69	230	657	657	657	25181	44
HINMAN_-HARSNRAD_115_908	908	115	297	306	306	26161	173
HISHELDN-STONCREK_230_81	81	230	506	556	603	325622	114
HOLBROOK_138_69_BK 1	BK 1	138	258	304	338	69378	131
HOLBROOK_138_69_BK 2	BK 2	138	122	136	136	69376	58
HOLBROOK-NSHORBCH_138_884	884	138	404	443	491	25341	8
HOLBROOK-SILSRD__138_872	872	138	564	600	682	25340	28
HOLBROOK-WEST BUS_138_888	888	138	575	616	682	25542	180
HOLTSVLE-UNIONAVE_138_818	818	138	181	236	310	25584	77
HOLTSVLE-WEST BUS_138_876	876	138	346	371	411	325974	0
HOLTSVLE-WEST BUS_138_877	877	138	557	598	662	325909	0
HOMER C_-HOMR_NYW_345_48	48	345	1338	1494	1494	326213	184
HOMER_HL-FIVE_MIL_115_169	169	115	270	297	324	26452	13
HOMER_HL-FIVE_MIL_115_170	170	115	270	297	324	26022	13
HOMER_HL-NILE___115_157	157-1	115	107	117	123	26041	31
HOMR_NYW-PIERC_NY_345_48	48	345	1338	1494	1494	326214	184
HOMRC_NY-MAINS_NY_345_47	47	345	1387	1638	1908	326121	100
HOOK_TAP-FARMGTN__115_7-983	7-983	115	176	181	188	26100	5
HOPATCON-RAMAPO__500_5018	5018	345	1156	1450	1915	25019	226
HOPKINS_-TEALLAVE_115_11	11	115	239	239	239	26105	62
HUDS_AVE-JAMAICA__138_701	701	138	172	234	371	25294	32
HUDS_AVE-JAMAICA__138_702	702	138	172	234	371	25295	32
HUDSON_-PLSTVYCH_115_12	12-HP	115	159	159	159	25499	46
HUDSON_-VALKIN__115_15	15	115	227	248	268	26514	76
HUDSONP_-FARRAGUT_345_B3402	B3402	345	464	643	877	25020	148
HUDSONTP-W49TH_ST_345_Y56	Y56	345	9999	9999	9999	325893	319
HUNTLEY_-BUFAL129_115_38	38	115	176	181	199	26047	86
HUNTLEY_-BUFAL129_115_39	39	115	176	181	209	26044	84
HUNTLEY_-ELM_ST__230_70	70	230	432	477	491	25855	32

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
HUNTLEY_-SAWYER__230_79	79	230	691	760	848	25127	240
HUNTLEY_-SAWYER__230_80	80	230	691	760	848	25128	287
HUNTLEY_-SWETH224_115_37	37	115	190	190	190	26045	7
HUNTLEY_-YOUNG214_115_36	36	115	199	199	199	26046	7
HURLYAVE_115_69_TR 3	TR 3	115	119	141	167	25837	34
HURLYAVE_345/115_BK 1	BK 1	345	486	560	560	25419	142
HURLYAVE-LINCNP RK_115_HP	HP	115	243	267	293	25833	62
HURLYAVE-ROSETON_345_303	303	345	1713	1885	1912	25218	377
HURLYAVE-STURGNPL_115_HS	HS	115	211	224	241	25834	32
HYATT__115_34_BK 1	BK 1	115	61	76	100	70329	12
HYATT_-BORDRCTY_115_15-979	979	115	156	171	179	25106	20
IMC_TAP_-MECO__115_15-IM	15-IM	115	152	166	175	26132	22
INDCORTH-SPIERFLS_115_18	18	115	340	374	414	26149	132
INDK-OSW-LIGHTHSE_115_2	2-ILH	115	139	144	159	25503	15
INDN_PT3-BUCHAN_S_345_W96	W96	345	1793	1793	2266	25570	1038
INDPDNCE_345_18_TB 5	MT 5	345	215	235	255	68303	161
INDPDNCE_345_18_TB 6	MT 6	345	215	235	255	68304	151
INDPDNCE-SCRIBA__345_25	25	345	1918	2115	2390	25859	120
INGCALTN-DEPEW_NG_115_54-921	54-921	115	168	212	239	326276	51
INGHAM_C_115_115_PAR 2	PAR 2	115	197	234	239	25242	119
INGHAM_C-INGHAM_E_115_R81	R81	115	222	234	239	25243	0
INGHAM_E-ESPRGFLD_115_7-942	7	115	114	131	152	25061	32
INGHAM_E-IMC_TAP_115_15	15-II	115	128	135	152	25871	34
INGHAM_E-STJHNVLE_115_6	6-IS	115	104	107	122	26133	33
INGHAM_E-STONER__115_9	9-IS	115	128	135	152	25863	33
JAMAICA_-LAKSUCSS_138_903	903	138	271	350	428	25090	199
JAMAICA_-VALLYSTR_138_901 L_M	901 L_M	138	307	368	441	25048	100
JENNISON_115_46_BK 1A	BK 1A	115	57	58	61	69462	17
JENNISON-HANCOCK_115_954	954	115	119	120	120	26186	23
JENNISON-KATTLVLE_115_943	943	115	146	160	178	25898	61
JENNISON-SIDNEYRR_115_949	949	115	117	120	120	26173	4
JOHNSON_-MAPLEWOD_115_12	12	115	239	239	239	26268	80
KATONAH_-AMAWALK_115_995	995	115	261	287	311	325279	8
KATONAH_-CROTONFL_115_991	991	115	261	287	311	26157	44
KENTAVE_-GREENWD_138_31232	31231-2	138	195	249	310	25299	63
KINTIGH_-ROCHESTR_345_SR1-39	SR-1	345	1591	1745	1793	25073	427
KNAPPCRN_115_69_TR 2	TR 2	115	48	59	60	25838	7
KNAPPCRN-SANDDOCK_115_KB_KC	KB_KC	115	238	262	291	26240	39
KNAPPCRN-SPACKILL_115_SK	SK	115	238	262	291	325777	20
KNTFSRNC-SCOTAFLT_115_913	913	115	120	120	120	26207	12
LADENTWN-BOWLINE_345_68	68	345	777	837	837	25249	125
LADENTWN-BUCHAN_S_345_Y88	Y88	345	1823	2015	2557	25185	358
LADENTWN-WHAVSTRW_345_67-2	67-2	345	1976	2387	2895	25248	152
LAFAYTTE-CLRKSCRN_345_4-46	16893	345	1279	1410	1781	25049	684

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
LAFAYTTE-DEWITT__345_22	22	345	1643	1643	1643	25174	259
LAKEVIEU-CLVRBANK_115_142	142	115	107	117	123	325881	35
LAKSUCSS_138_69_BK 5	BK 5	138	258	304	338	26603	91
LAKSUCSS_138_69_BK 6	BK 6	138	258	304	338	325098	84
LAKSUCSS_138A_138B_PAR	B_PAR	138	339	356	427	25593	200
LANGDON_-NORTHSDE_115_936	936	115	206	227	239	26160	43
LAUREL L-GOUDEY__115_952	952	115	128	149	162	25012	58
LAURLEGY-SCOV RCK_345_384	384	345	896	1255	1434	26389	292
LAWRNCV-HANAWAFL_115_5	5	115	268	293	317	26085	4
LAWRNCV-SUGARISL_115_4	4	115	268	293	317	326186	2
LEEDS_-ATHENS__345_95	95	345	1624	1783	1946	25789	238
LEEDS_-HURLYAVE_345_301	301	345	1713	1885	1912	25055	520
LEEDS_-PLSNTVLY_345_92	92	345	1624	1783	1912	25056	775
LIGHTSE-EWATRTWN_115_5	5	115	119	119	119	25504	29
LIGHTSE-MALLORY__115_7	7-CL	115	141	144	165	25521	1
LINCNRK-EKINGSTN_115_LR	LR	115	243	260	282	26223	34
LINDEN_-GOETHALS_230_A2253	A2253	230	688	785	908	25017	101
LNGRD209-GARDNVLB_115_180	180	115	194	199	233	326282	109
LOCKPORT-HINMAN__115_100	100	115	268	293	317	25087	153
LOCKPORT-N.AKRON__115_108	108	115	158	162	187	25266	33
LOCKPORT-OAKFIELD_115_112	112	115	166	175	187	25300	35
LOCKPORT-SHELBY76_115_111	111	115	199	199	199	25262	37
LOCKPORT-SHELBY76_115_113	113	115	174	191	199	25263	43
LOCKPORT-TELGRAPH_115_107	107	115	268	293	317	25265	54
LOCKPORT-TELGRAPH_115_114	114-1	115	174	191	199	25264	48
LOCUSTGR-NEWBRDGE_138_558	558	138	351	579	659	25158	293
LONG_MTN-PLSNTVLY_345_398	398	345	1414	1549	1796	25033	91
LONG_MTN-PLUM TRE_345_321	321	345	1601	1757	1984	25720	179
LONGLANE-LAFARGE__115_6	6	115	141	144	159	25864	45
LOVETT__138_69_BK 147	BK 147	138	94	130	149	26331	25
LOVETT_-BOWLINOR_138_56	56	138	279	305	317	25877	12
LOVETT_-STONYPNT_138_54	54	138	282	309	321	25885	0
LOWVILLE-BOONVLE_115_5	5-LB	115	128	135	152	26075	26
LUDLOW_-CARP HL__345_301	301	345	1569	1757	1886	25722	174
LUDLOW_-NORTHFLD_345_354	354	345	1601	1757	1984	25713	327
LUDLUM_-BENETTRD_115_161	161-3	115	213	225	242	326230	44
LUDLUM_-BENETTRD_115_162	162-2	115	213	225	242	326229	44
LUTHERFT-MALTA__115_1	1	115	213	292	324	325889	51
LUTHERFT-MALTA__115_302	2	115	213	292	318	325890	29
LUTHERFT-MULBRYNM_115_3	3	115	227	248	268	26477	3
LUTHERFT-MULBRYNM_115_308	308	115	242	266	292	325742	56
LYON_MTN-KNTFSRNC_115_1(911)	911	115	149	172	204	26205	13
MACHIAS_-VALLEY44_115_152	152	115	156	171	182	326172	18
MACHIAS_-VALLEY44_115_167	151	115	145	160	178	326169	15

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
MAINESBG-WATRCURE_345_30	30	345	927	927	927	25018	26
MALLORY_-WETZEL__115_7	7-CL	115	224	224	224	326206	25
MALONE_-NICHLVLE_115_3	3-NM	115	168	197	199	25585	16
MALONE_-WILLIS__115_MW1-910	1-MW	115	168	191	199	25586	77
MALTA_-TAPBLSTN_115_1	1	115	268	293	317	325891	51
MALTA_-TAPBLSTN_115_302	302	115	268	293	317	325892	14
MANCHSTR-SPACKILL_115_MC	MC	115	238	262	291	325776	1
MAPLE140-BUFALO54_115_38	38	115	211	217	255	326157	72
MAPLE140-BUFALO54_115_39	39	115	211	217	255	326158	71
MAPLEWOD-WTRVLARS_115_19	19	115	168	212	239	25870	49
MAPLEWOD-WTRVLARS_115_31	31	115	168	188	239	25844	57
MARCY__765_345_AT2	BK 2	765	1917	2034	2297	25456	192
MARCY__765_345_BK 1	BK 1	765	1756	1756	1756	25455	219
MARCY_-EDIC__345_UE1-7	UE1-7	345	1917	2034	2297	25229	121
MARCY_-FRASANNX_345_UCC2-41	UCC2-41	345	1793	1793	1793	25113	729
MARCY_-N.SCTLND_345_18	18	345	1793	2034	2241	25276	512
MARION_-FARRAGUT_345_C3403	C3403	345	454	645	841	25038	148
MARSHVLE-CLINTON__115_12	12	115	152	159	159	325267	3
MASSENA_765_230_AT1	BK 1	765	1288	1378	1872	25665	86
MASSENA_765_230_AT2	BK 2	765	1288	1378	1872	25666	86
MASSENA_-MARCY__765_MSU1	MSU1	765	5300	6254	6625	25224	411
MCADOO_-BATTHILL_115_4	6-MBH	115	93	101	107	26064	0
MCINTYRE-COLTON__115_8	8-MC	115	93	101	106	25514	13
MCINTYRE-CORNING__115_6	6	115	156	158	159	26108	13
MCKNOWNV-NEWKRMKL_115_8	8	115	291	320	356	26499	120
MECO__-CHURCH_S_115_10	10-AM	115	152	153	153	26120	0
MENANDS_-REYNOLDS_115_2	2-MR	115	255	282	316	26135	99
MENANDS_-RIVERSDE_115_3	3-MR	115	292	327	371	26134	87
MENANDS_-WTRVLARS_115_19	19	115	156	170	181	326246	53
MERTPARK-WICCOPEE_115_WP	WP	115	244	260	282	325772	53
MEYER_-CANANDGA_230_60	60	230	591	649	715	325604	117
MEYER_-MORAINE__115_966	966	115	149	172	191	26166	56
MIDDLEOR-SHOEMAKR_138_29	29	138	506	587	671	26468	189
MIDDLETP_345_138_BK 114	BK114	345	506	587	671	26465	189
MIDDLETP-ROCKTVRN_345_MTR-34	MTR-34	345	1918	2115	2390	26464	421
MILAN_-PLSTVYCH_115_10	10	115	169	187	199	26433	3
MILAN_-RHINEBCK_115_MR	MR	115	219	232	239	26242	0
MILLBURY-CARP HL__345_302	302	345	1475	1560	1919	25721	228
MILLERPL-HOLBROOK_138_885	885	138	525	586	664	26691	1
MILLIKEN-ETNA__115_974	974	115	231	260	286	26177	122
MILLIKEN-ETNA__115_975	975	115	231	260	286	26178	131
MILLWOOD_345_138_TA 1	TA 1	138	248	333	359	25530	21
MILLWOOD_345_138_TA 2	TA 2	138	234	305	321	25531	25
MILLWOOD-EASTVIEW_345_W82	W82	345	2430	2823	3357	25147	834

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
MILLWOOD-EASTVIEW_345_W85	W85	345	2430	2823	3357	25258	791
MILLWOOD-EASTVIEW_345_W99	W99	345	2430	2823	3357	25255	790
MILTON_C-GRS_LOCK_115_18	18-MG	115	156	171	182	26104	20
MILTR209-SUMMIT97_115_129	129	115	239	301	301	326288	93
MILTR209-SUMMIT97_115_130	129	115	239	317	317	326291	111
MNCHESTR-CARD___345_368	368	345	1350	1554	1939	25710	301
MNCHESTR-MILSTONE_345_310	310	345	1811	2145	2372	25336	325
MNCHESTR-NO.BLOOM_345_3642	3642	345	956	956	956	26399	75
MNCHESTR-SCOV RCK_345_353	353	345	1518	1805	2217	25714	252
MNTNDALE-WWDBURNY_115_957	957	115	120	120	120	325616	17
MODENA__115_69_BK1	BK1	115	40	50	53	26325	1
MODENA_-OHIOVLE_115_PX	PX	115	285	301	349	25835	2
MOHANSIC_115_13_BK 2	BK 2	115	26	28	33	26482	10
MOHANSIC_115_13_BK 4	BK 4	115	26	28	33	26483	14
MOHICAN_-BATNKILL_115_15	15	115	141	144	165	26122	26
MOHICAN_-MULBRYNM_115_3	3	115	227	248	268	26687	1
MONSEY_-BURNS___138_601	601	138	456	478	500	325608	105
MONTRFL_-CODNIGTN_115_982	982	115	133	149	162	25728	35
MONTRFL_-RIDGE_RD_115_963	963-2	115	133	145	149	26196	34
MONTRFL_-RIDGE_RD_115_978	978-2	115	133	149	162	26197	34
MONTVILL-MILSTONE_345_371	371	345	1864	2187	2390	25334	773
MOONS_SW-FALCONER_115_161	161-3	115	107	117	123	26030	21
MOONS_SW-FALCONER_115_162	162-2	115	107	117	123	26031	12
MORGANRD-LANGDON__115_936	936	115	238	239	239	325224	16
MORTIMER-FAIRPORT_115_1	1	115	168	181	188	25163	52
MORTIMER-FAIRPORT_115_2	2	115	166	175	187	25240	42
MORTIMER-SHELBY76_115_114	114	115	129	149	153	326129	16
MORTIMER-STA_56__115_24	24-1	115	156	171	182	25096	33
MORTIMER-STA_56__115_25	25	115	139	146	162	25095	56
MOSES__230_115_AT3	BK 3	230	220	276	288	25452	0
MOSES__230_115_AT4	BK 4	230	551	598	719	25453	13
MOSES__230_115_BK 1	BK 1	230	526	589	722	25411	13
MOSES__230_115_BK 2	BK 2	230	526	589	722	25451	12
MOSES_-ADIRNDCK_230_MA1	MA1	230	447	473	517	25269	52
MOSES_-ADIRNDCK_230_MA2	MA2	230	447	473	517	25270	52
MOSES_-ALCOA_PA_115_MAL6	MAL6	115	256	282	327	25581	106
MOSES_-GRASRIVR_115_MAL4	MAL4	115	291	319	350	25582	110
MOSES_-GRASRIVR_115_MAL5	MAL5	115	291	319	350	25583	110
MOSES_-MASSENA_230_MMS1	MMS1	230	1279	1378	1593	25274	86
MOSES_-MASSENA_230_MMS2	MMS2	230	1279	1378	1593	25275	86
MOSES_-MED-ENGS_115_MRG1	MRG1	115	145	145	157	26328	35
MOSES_-MED-ENGS_115_MRG2	MRG2	115	145	145	157	26335	11
MOSES_-REYNLDPA_115_MR3	MR3	115	214	224	229	26332	0
MOSES_-WILLIS__230_MW1	MW1	230	447	473	517	25188	45

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
MOSES_-WILLIS__230_MW2	MW2	230	447	473	517	25271	45
MOSHIER_-TAYLORVL_115_7-MT	7-MT	115	49	49	49	26109	15
MOTTHAVN_345_138_TR6	TR6	345	549	651	724	325428	57
MOTTHAVN_345_138_TR7	TR7	345	549	651	724	325426	57
MOTTHAVN_345_138_TR8	TR8	345	549	651	724	325427	57
MOTTHAVN_345_138_TR9	TR9	345	549	651	724	325429	57
MOTTHAVN-RAINEY__345_Q11	Q11	345	741	858	1309	325430	255
MOTTHAVN-RAINEY__345_Q12	Q12	345	741	858	1309	325431	238
MOUNTAIN-SWANROAD_115_103	103	115	224	250	282	26054	72
MOUNTAIN-SWANROAD_115_104	104	115	224	250	282	26053	0
MULBRYNM-EASTOVER_115_308	308	115	227	248	268	26475	61
N_SALEM-BATNKILL_115_989	989	115	45	52	57	26448	3
N.AKRON_-BATAVIA__115_107	107	115	159	159	159	25124	6
N.AKRON_-BATAVIA__115_108	108	115	152	159	159	25125	18
N.END__115_46_BK 1	BK 1	115	70	71	75	25849	43
N.END_-ASHLEYRD_115_702	702	115	351	386	434	25846	43
N.END_-PLATSBRG_115_701	701	115	239	239	239	25848	80
N.HEMPST-WHAVSTOR_138_530	530	138	282	309	321	26506	0
N.SCTLND_345_115_BK 1	BK 1	345	529	642	796	25445	25
N.SCTLND_345_115_BK 2	BK 2	345	629	796	796	25460	25
N.SCTLND-ALBANY__115_8	8-NA	115	340	373	414	25496	21
N.SCTLND-ALPS___345_2	2	345	1278	1410	1792	25217	236
N.SCTLND-ALTAMONT_115_20	20-NV	115	141	144	165	25492	68
N.SCTLND-BETHLHEM_115_4	4-NB	115	311	313	313	25497	81
N.SCTLND-FEURABSH_115_3	3-NF	115	311	341	375	25495	67
N.SCTLND-LEEDS__345_93	93	345	1534	1692	1912	25171	572
N.SCTLND-LEEDS__345_94	94	345	1534	1692	1912	25203	569
N.SCTLND-OWENSCRN_115_7	7	115	141	144	165	25491	46
N.SCTLND-OWENSCRN_115_9	9	115	141	144	165	25490	12
N.SCTLND-ROTTRDAM_115_13	13-NR	115	255	282	358	25494	59
N.SCTLND-VORHVSLE_115_19	19-NV	115	128	135	152	25493	58
N.TROY_-EASTOVER_115_306	308	115	227	248	268	326095	23
N.TROY_-EASTOVER_115_307	10	115	222	234	268	326096	22
N.TROY_-HOOSICK__115_5	5-NHF	115	232	232	232	26131	12
N.TROY_-REYNOLDS_115_16	16-NR	115	222	234	239	26139	64
N.TROY_-WYNTKLNМ_115_14-988	14-NW	115	168	212	239	26137	48
NANGOLA_-DELEMTER_115_141	141	115	107	117	123	325872	24
NANGOLA_-DELEMTER_115_142	142	115	107	117	123	325879	20
NANGOLA_-SILVRCRK_115_141	141	115	107	117	123	325871	11
NANGOLA_-SILVRCRK_115_142	142	115	107	117	123	325878	9
NBRDWYNM-ERIE_ST__115_181-922	922	115	145	160	178	26011	68
NCATSKLL_115_69_TR 4	TR 4	115	57	71	79	25839	28
NCATSKLL_115_69_TR 5	TR 5	115	53	65	73	25818	28
NCATSKLL-MILAN___115_T7	T7	115	169	199	199	26243	1

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
NHELSEA_115/69_BK TR1	BK TR1	115	40	50	53	25836	9
NHELSEA-FISHKPLN_115_NF	NF	115	255	290	315	26228	107
NHELSEA-FORGE BRK_115_FO	FO	115	225	251	282	26230	103
NEPTUNE_-DUFFYAVE_345_NEPTUNE	NEPTUNE	345	660	785	785	325304	660
NEWBRDGE_138_69_BK 6	BK 6	138	129	159	212	26604	60
NEWBRDGE_138_69_BK 7	BK 7	138	130	159	212	26605	62
NEWBRDGE_345_138_BK_1	BK 1	345	440	469	562	325301	331
NEWBRDGE_345_138_BK_2	BK 2	345	450	469	562	325302	331
NEWBRDGE-BAGATLRD_138_563	563	138	402	594	658	25536	77
NEWBRDGE-DUFFYAVE_345_501	501	345	660	750	750	325303	660
NEWBRDGE-EGRDNCTY_138_467	467	138	267	468	666	325378	91
NEWBRDGE-RULAND__138_561	561	138	300	329	352	25305	117
NEWBRDGE-RULAND__138_562	562	138	299	327	350	25306	117
NEWBRDGE-RULAND__138_567	567	138	257	386	425	325379	118
NEWKRMKL-ALBANY__115_7	7	115	340	371	413	325257	136
NEWWALDN-GARDNVLB_115_38	38	115	168	203	237	26039	54
NIAGARA_230_115_AT1	BK T1	230	220	276	288	25409	71
NIAGARA_230_115_AT2	BK T2	230	275	349	414	25410	0
NIAGARA_345_230_AT3	BK 3	345	433	542	564	25408	8
NIAGARA_345_230_AT4	BK 4	345	864	896	1037	25449	19
NIAGARA_345_230_AT5	BK 5	345	433	542	564	25450	8
NIAGARA_-KINTIGH_345_NS1-38	NS1-38	345	1591	1745	1793	25074	239
NIAGARA_-LN GRD209_115_180	180	115	243	249	297	25104	118
NIAGARA_-MOUNTAIN_115_120	120	115	224	250	291	25135	72
NIAGARA_-PACKARD__115_191	191	115	349	359	398	25075	160
NIAGARA_-PACKARD__115_192	192	115	319	339	382	25099	168
NIAGARA_-PACKARD__115_193	193	115	349	359	411	25100	119
NIAGARA_-PACKARD__115_194	194	115	349	359	398	25101	119
NIAGARA_-PACKARD__115_195	195	115	359	359	475	25102	137
NIAGARA_-PACKARD_230_61	61	230	767	844	949	25186	340
NIAGARA_-PACKARD_230_62	62	230	717	717	949	25220	335
NIAGARA_-ROBNSNRD_230_64	64	230	639	678	717	25088	245
NIAGARA_-ROCHESTR_345_NR2	NR2	345	1591	1745	1904	25084	231
NIAGARA_-SANBORN_115_101	101	115	285	300	318	326180	74
NIAGARA_-SANBORN_115_102	102	115	319	339	382	25103	73
NIAGB130-FRNKYONG_115_181-922	181-922	115	211	217	255	26057	115
NIAGB130-FRNKYONG_115_182	182	115	211	217	255	326278	99
NICHLVLE-PARISHVL_115_3	3-PN	115	156	170	181	26110	22
NILE___-ANDOVER_115_157	157-2	115	128	135	152	26016	15
NINEMILE-CLAY___345_8	8	345	1278	1410	1624	25167	657
NINEMILE-FTZPK_NM_115_4	4-NF	115	119	119	159	25500	29
NINEMILE-SCRIBA__345_9	9	345	1278	1410	1792	25359	34
NOGDNBRG-MCINTYRE_115_9	9-NOM	115	159	159	159	26080	18
NORTHFLD-VRNON VT_345_381	381	345	1195	1195	1580	25707	695

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
NRTH1385-NOR HBR_138_601	601	138	147	200	409	325597	34
NRTH1385-NOR HBR_138_602	602	138	147	200	409	325598	33
NRTH1385-NOR HBR_138_603	603	138	147	200	409	325599	33
NRTH1385-NRTHPORT_138_NNC	1385	138	441	569	569	25035	100
NRTHPORT_138_138_PS2	138_PS2	138	473	488	586	25599	182
NRTHPORT_138N_138E_PAR 1	E_PAR 1	138	441	569	569	25598	100
NRTHPORT-ELWOOD__138_678	678	138	356	608	674	25543	14
NRTHPORT-ELWOOD__138_681	681	138	358	611	676	25544	20
NRTHPORT-PILGRIM_138_672	672	138	175	289	418	25307	95
NRTHPORT-PILGRIM_138_677	677	138	355	578	670	25308	204
NRTHPORT-PILGRIM_138_679	679	138	358	580	668	25309	204
OAKDALE__230_115_BK 1	BK 1	230	318	435	440	25400	31
OAKDALE__345_115_BK 2	BK 2	345	583	600	600	25401	198
OAKDALE__345_115_BK 3	BK 3	345	489	577	600	25399	163
OAKDALE_-DELHI__115_919	919	115	171	179	179	25897	21
OAKDALE_-ENDICOTT_115_938	938	115	171	188	239	26198	94
OAKDALE_-FRASER__345_32	32	345	1494	1692	1793	25235	181
OAKDALE_-GOUDEY__115_939	939	115	292	321	352	26182	108
OAKDALE_-KATTLVLE_115_943	943	115	171	188	221	26201	81
OAKDALE_-NORTHSDE_115_944	944	115	231	239	239	26199	85
OAKFIELD-BATAVIA__115_112-2	112-2	115	156	162	181	25126	22
OAKWOOD_-ELWOOD__138_674	674	138	381	588	666	25545	40
OAKWOOD_-SYOSSET_138_675	675	138	263	365	658	25547	78
OHIOVLE-HIGHLAND_115_OR	OR	115	223	234	278	26247	0
ONEIDA_-WALESVIL_115_7	7	115	141	144	159	26115	23
ONEIDA_-YAHNUNDA_115_6	6	115	128	135	152	26113	32
OSWEGO__345_115_BK 7	BK 7	345	576	657	774	25372	272
OSWEGO_-ELBRIDGE_345_17	17	345	1278	1410	1792	25234	624
OSWEGO_-S.OSWEGO_115_3	3-OS	115	209	239	239	25507	114
OSWEGO_-S.OSWEGO_115_5	5-OS	115	209	239	239	25508	114
OSWEGO_-S.OSWEGO_115_8	8-OS	115	478	478	478	25509	40
OSWEGO_-VOLNEY__345_11	11	345	1278	1410	1792	25199	43
OSWEGO_-VOLNEY__345_12	12	345	1278	1410	1792	25201	43
OWENSCRN-SABICO__115_7	7	115	141	144	165	325736	53
OWENSCRN-SABICO__115_9	9	115	141	144	165	325737	34
PACKARD__230_115_BK 3	BK 3	230	233	250	250	25414	9
PACKARD__230_115_BK 4	BK 4	230	235	250	250	25415	63
PACKARD_-LNGRD209_115_182	182	115	243	249	297	26056	125
PACKARD_-MILTR209_115_1230	130	115	239	317	317	26059	117
PACKARD_-MILTR209_115_129	129	115	239	317	317	25906	101
PACKARD_-NIAGB130_115_181-922	181-922	115	194	199	233	26055	125
PACKARD_-SAWYER__230_77	77	230	680	747	836	25164	330
PACKARD_-SAWYER__230_78	78	230	680	747	836	25195	330
PALMITER-BENNETT__115_932	932	115	95	100	111	26165	8

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
PANNELL_345_115_6T	BK 6	345	582	598	598	326317	77
PANNELL_345_115_BK 1	BK 1	345	273	329	336	25396	72
PANNELL_345_115_BK 2	BK 2	345	273	328	336	25431	72
PANNELL_-CLAY___345_1	1	345	1195	1195	1195	25058	96
PANNELL_-CLAY___345_2	2	345	1195	1195	1195	25050	96
PANELRG-FARMGTN_115_4-977	4-977	115	258	293	317	25080	124
PANELRG-STA_56__115_24	24	115	156	171	182	26285	81
PANELRG-STA_56__115_25	25	115	156	171	181	26284	65
PARISHVL-COLTON__115_3	3-CP	115	156	170	181	25241	20
PATROON_-MCKNOWNV_115_2-6	6	115	240	373	414	25866	78
PATROON_-PATRTAP_115_15	15	115	170	188	239	25867	11
PATRTAP_-MENANDS_115_15	15	115	128	135	152	26493	11
PAVMNTRD-STOLLERD_115_926	926	115	299	335	368	325220	47
PAWLING_-CROTONFL_115_994	994	115	179	179	179	25902	41
PEAT ST_-HDSNBRDG_115_10	10	115	225	251	291	26648	52
PEAT ST_-HDSNBRDG_115_7	7	115	340	374	414	26649	16
PETERBOR-ONEIDA__115_5	5	115	141	144	165	25896	28
PIERCBRK-FIVEMILE_345_37	37	345	1338	1494	1494	326196	78
PILGRIM_138B_138A_PAR	138_PS2	138	351	369	443	25604	140
PILGRIM_-HAUPPAUG_138_871	871	138	345	368	419	25550	140
PILGRIM_-WEST BUS_138_881	881	138	559	603	664	25537	137
PLATSBRG-KNTFSRNC_115_PS1	PS1	115	149	172	204	25078	23
PLATTSBURGH PMLD #2	PS-1/A	115	179	179	224	69888	10
PLSNTVLE_345_13_BK 1	BK 1	138	64	70	70	25477	23
PLSNTVLE_345_13_BK 2	BK 2	138	64	70	70	25478	23
PLSNTVLE-DUNWODIE_345_W89	W89	345	1976	2282	2542	25182	644
PLSNTVLE-DUNWODIE_345_W90	W90	345	1976	2282	2542	25250	680
PLSNTVLY-EFISHKIL_345_F36	F36	345	1976	2387	2895	25256	226
PLSNTVLY-EFISHKIL_345_F37	F37	345	1976	2387	2895	25257	226
PLSNTVLY-WOOD_ST_345_F30	F30	345	1976	2384	2895	25237	601
PLSNTVLY-WOOD_ST_345_F31	F31	345	1976	2384	2895	25238	570
PLSTVYCH_115_69_TR 10	TR 10	115	134	143	143	25840	50
PLSTVYCH_345_115_BK S1	BK S1	345	478	478	478	25382	4
PLSTVYCH-INWOOD__115_X1	X-1	115	219	232	255	26209	10
PLSTVYCH-MANCHSTR_115_M	M	115	238	262	291	26208	21
PLSTVYCH-TODDHILL_115_C	C	115	255	302	334	325156	36
PORTER_-DERFIELD_115_8	8262523	115	127	127	127	26116	10
PORTER_-ROTTRDAM_230_30	30-PR	230	511	564	634	25173	159
PORTER_-ROTTRDAM_230_31	31-PR	230	511	564	634	25194	159
PORTER_-VALLEY__115_4	4-PV	115	141	144	165	25231	67
PORTER_-WATKINRD_115_5	5-PW	115	141	144	165	25232	81
PORTJEFF_138_69_BK 7	BK 7	138	127	156	208	25601	60
PORTJEFF_138_69_BK 8	BK 8	138	129	159	212	25600	50
PORTJEFF-HOLBROOK_138_862	862	138	340	376	413	25539	6

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
PORTJEFF-HOLBROOK_138_886	886	138	341	377	415	25540	6
PYRITES_-COLTON__115_7	7-PC	115	93	101	107	26086	27
QUAKERRD-MACEDON__115_930	930	115	68	85	112	25093	31
QUAKERRD-PANNELRG_115_914	914	115	265	295	312	25261	9
QUAKERRD-SLEIGHT__115_13-980	980(13)	115	187	206	221	25079	59
QUAKERRD-STA_204__115_908	908	115	289	305	335	26286	80
QUENBRDG-VERNON__138_31281	31281	138	413	550	602	25159	57
QUENBRDG-VERNON__138_31282	31282	138	413	550	602	25160	14
QUENSBRY-CEDAR__115_10	10	115	156	170	181	26140	45
QUENSBRY-SHERMAN__115_17	17-QS	115	141	144	165	26142	47
RAINEY_-FARRAGUT_345_61	61	345	698	840	1300	25152	285
RAINEY_-FARRAGUT_345_62	62	345	739	854	1293	25253	262
RAINEY_-FARRAGUT_345_63	63	345	698	840	1300	25254	284
RAINEY_-VERNON__138_36311	36311	138	280	325	413	25296	75
RAINEY_-VERNON__138_36312	36312	138	295	353	409	25297	99
RAMAPO__345_138_BK 1300	1300	345	451	546	619	25441	137
RAMAPO__345_138_BK 2300	2300	345	451	546	619	25442	140
RAMAPO__345_345_PAR3500	PAR3500	345	740	901	1150	25370	113
RAMAPO__345_345_PAR4500	PAR4500	345	728	931	1093	25371	113
RAMAPO__500_345_BK 1500	BK 1500	345	1160	1419	1923	25656	226
RAMAPO_-BUCHAN_N_345_Y94	Y94	345	1823	2015	2557	25184	43
RAMAPO_-LADENTWN_345_W72	W72	345	1823	2015	2557	25233	332
RAMAPO_-SUGARLOF_345_76	76	345	2271	2271	2271	326219	429
RAMAPOOR-STRLFRST_138_26	26	138	314	343	356	326302	19
RAMAPOOR-TALLMAN__138_60	60	138	456	478	500	25880	170
RANGEHL_-CASTLEGD_115_937	937	115	149	149	149	325225	18
REYNOLDS_345_115_BK 2	BK 2	345	585	676	796	25403	202
REYNOLDS-ALPS__345_1	1	345	1912	1912	1912	25587	293
REYNOLDS-GERENSLR_115_31	31	115	255	282	316	326247	62
REYNOLDS-GREENBSH_115_9	9-RG	115	398	398	398	26129	147
REYNOLDS-RVSD_TAP_115_4	4	115	239	239	239	325648	24
RICHFELD-ESPRGFLD_115_7-942	942	115	119	120	120	26176	28
RIDGE_RD-HILLSIDE_115_963	963	115	133	149	162	26190	6
RIDGE_RD-HILLSIDE_115_978	978-1	115	133	149	162	26191	7
RIVERSDE-RVSD_TAP_115_4	4	115	239	239	239	26144	24
RIVERSDE-TRINITY__115_18	18	115	159	178	258	26491	66
RIVERSDE-TRINITY__115_19	19	115	214	256	311	26492	76
RIVRHEAD_138_69_BK 7	BK 7	138	129	159	208	26622	43
RIVRHEAD_138_69_BK 8	BK 8	138	127	156	208	26623	36
ROBNSNRD-STOLLERD_230_65	65	230	673	717	717	25065	225
ROCHESTR_345_115_BK 1	BK 1	345	582	629	630	25412	120
ROCHESTR_345_115_BK 2	BK 2	345	389	476	478	25432	144
ROCHESTR_345_115_BK 3	BK 3	345	582	629	630	25446	118
ROCHESTR_345_115_BK 5	BK 5	345	546	630	630	325381	241

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
ROCHESTR-PANNELL_345_RP1	RP1	345	1591	1745	1904	25192	15
ROCHESTR-PANNELL_345_RP2	RP2	345	1591	1745	1904	25172	15
ROCK_CUT-TILDEN__115_18	18	115	227	239	239	326281	0
ROCKHILL-MNTNDALE_115_957	957	115	184	192	200	325615	20
ROCKTVRN_345_115_BK TR1	BK TR1	345	485	530	530	25406	39
ROCKTVRN_345_115_BK TR3	BK TR3	345	485	533	560	26168	39
ROCKTVRN-RAMAPO__345_77	77	345	2271	2271	2271	25183	504
ROCKTVRN-SUGARLOF_345_76	76	345	2271	2271	2271	326218	543
ROCKTVRN-SUGRLOAF_115_SL	SL	115	179	196	206	25420	0
ROCKTVRN-UNION_CH_115_RJ	RJ	115	171	188	239	326347	28
ROME__-ONEIDA__115_1	1-RO	115	168	187	216	26112	61
RONKOKMA-HOLBROOK_138_875	875	138	547	590	650	25541	33
ROSA_RD_-GE_R_D__115_14	14	115	245	257	294	26145	39
ROSETON_-EFISHKIL_345_RFK305	RFK305	345	2528	2772	3133	25108	1049
ROSETON_-ROCKTVRN_345_311	311	345	1713	1885	2102	25069	147
ROTTRDAM_230_115_BK 6	BK 6	230	406	447	585	25407	89
ROTTRDAM_230_115_BK 7	BK 7	230	346	396	448	25392	87
ROTTRDAM_230_115_BK 8	BK 8	230	377	427	474	25413	69
ROTTRDAM-BURDECK__115_17	17-RB	115	141	144	165	25129	38
ROTTRDAM-BURDECK__115_19	19-RB	115	128	135	152	26146	57
ROTTRDAM-CURRY_RD_115_11	11	115	141	144	165	25869	22
ROTTRDAM-EASTOVER_230_38	38	230	511	564	637	326094	64
ROTTRDAM-FRONT_ST_115_16	16	115	268	293	317	26147	94
ROTTRDAM-SWAGRTWN_115_1	1	115	478	478	478	26429	74
ROTTRDAM-SWAGRTWN_115_2	2	115	282	288	318	26430	79
ROTTRDAM-WOODLAWN_115_35	35	115	141	144	165	25865	9
RULAND_-HOLBROOK_138_882	882	138	568	613	675	25538	72
RULAND_-PILGRIM_138_661	661	138	590	590	590	25310	14
RULAND_-PILGRIM_138_662	662	138	567	589	589	25311	14
RYAN__-PLATSBURG_230_RYP-2	RYP-2	230	292	320	356	25273	57
RYNDS_HL-HIGHLAND_115_HR	HR	115	237	267	293	325825	15
RYNDS_HL-INWOOD__115_IR	IR	115	219	232	255	26248	11
S.MAHWAH-RAMAPOOR_138_51	51	138	282	309	321	25888	73
S.OSWEGO-CURTIS__115_10	10	115	199	199	199	25511	63
S.OSWEGO-HAMRHILL_115_6	6-IH	115	139	144	161	25513	58
S.OSWEGO-NINEMILE_115_1	1-SN	115	141	144	159	25501	32
S.OWEGO_-GOUDEY__115_961	961	115	143	157	167	25725	20
S.OWEGO_-NWAVERLY_115_962	962-2	115	143	157	167	25727	27
S.PERRY_-MEYER__115_934	934	115	106	116	120	26194	56
S.RIPLEY-DUNKIRK_230_68	68	230	511	564	607	25045	0
S124__115A_115B_PS1	PS1	115	176	242	414	325930	85
S124__115A_115B_PS2	PS2	115	176	242	414	325931	85
S42__-S124__115_932	932	115	176	243	358	325827	85
S42__-S124__115_938	938	115	213	230	230	325972	85

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
SABICO_-LONGLANE_115_7	7	115	199	199	199	26501	41
SALAMANC_HOMER_HL_115_153	153	115	156	159	159	325763	17
SALAMANC_HOMER_HL_115_154	154	115	156	159	159	325764	21
SANBORN_-LOCKPORT_115_101	101	115	285	300	318	25267	74
SANBORN_-SHAWNERD_115_102	102	115	350	371	413	326179	73
SAND_BAR-PLATSBRG_115_PV20	PV20	115	236	274	274	25027	101
SANDDOCK-NCHELSEA_115_SC	KC	115	255	282	315	26249	63
SANDY PD-TEWKSBRY_345_337	337	345	2022	2182	2379	26366	11
SANDY PD-WACHUSST_345_314	314	345	2022	2325	2795	26352	121
SANDY PD-WACHUSST_345_343	343	345	1600	1760	1982	25716	125
SAWYER__230_23_TB1	TB1	230	100	140	140	325047	49
SAWYER__230_23_TB2	TB2	230	100	140	140	325048	50
SAWYER__230_23_TB3	TB3	230	100	140	140	325049	46
SAWYER_-HUNTLEY_230_77	77	230	691	760	848	325043	280
SAWYER_-HUNTLEY_230_78	78	230	691	760	848	325044	279
SAWYER_-SUNY_BUF_230_79	79	230	691	760	800	325045	240
SAWYER_-SUNY_BUF_230_80	80	230	691	760	848	325046	240
SCHODACK-GREENBSH_115_13	13	115	199	199	199	325804	75
SCHUYLER-PORTER__115_13	13	115	168	212	239	326142	37
SCOBIE_-EAGLE__345_380	380	345	1697	1697	1697	25708	164
SCOBIE_-SEABROOK_345_363	363	345	1494	1494	1494	26378	485
SCOTAFLT-MASONCR__115_909	909	115	189	207	221	325702	3
SCRIBA_-FITZPTRK_345_FS-10	FS-10	345	1434	1434	1912	25076	100
SCRIBA_-VOLNEY__345_20	20	345	1474	1626	1881	25204	641
SCRIBA_-VOLNEY__345_21	21-SV	345	1912	1912	1912	25314	839
SENECA_-GARDNVLB_230_71	71	230	306	354	370	25856	19
SENECA_-GARDNVLB_230_72	72	230	306	354	370	25857	19
SHALETON-CLVRBANK_115_141	141	115	107	117	123	325875	34
SHALETON-LAKEVIEU_115_141	141	115	107	117	123	325874	32
SHAWNERD-LOCKPORT_115_102	102	115	285	300	318	26052	66
SHAWNERD-LOCKPORT_115_103	103	115	199	199	199	26051	52
SHENDOAH-EFISHKIL_115_EF	EF	115	243	267	293	26251	1
SHERMAN_-SPIERFLS_115_17	17-SS	115	141	144	159	26148	36
SHERMCRK-ACADEMY_138_331	331	138	345	431	546	325755	150
SHERMCRK-ACADEMY_138_332	332	138	345	431	546	325754	150
SHERMCRK-E179THST_138_15031	15031	138	184	235	371	25156	174
SHERMCRK-E179THST_138_15032	15032	138	184	235	371	25157	173
SHOEMAKR_138_69_BK 711	BK 711	138	212	281	319	26694	54
SHOEMAKR_138_69_BK 811	BK 811	138	193	225	253	326024	62
SHOR_NPX-SHOREHAM_138_CSC	CSC	138	353	353	353	325153	330
SHORE_RD_345_138_BK 1	BK 1	345	487	534	641	25439	287
SHORE_RD_345_138_BK 2	BK 2	345	487	534	641	25440	286
SHORE_RD-GLENWOOD_138_365	365	138	343	380	418	25205	94
SHORE_RD-GLENWOOD_138_366	366	138	363	425	474	25154	101

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
SHORE_RD-LAKSUCSS_138_367	367	138	261	411	640	25145	187
SHORE_RD-LAKSUCSS_138_368	368	138	262	412	642	25150	187
SHOREHAM-MILLERPL_138_879	879	138	526	588	666	25117	27
SHOREHAM-WILDWOOD_138_863	863	138	519	580	657	25115	141
SHOREHAM-WILDWOOD_138_867	867	138	528	590	668	25114	139
SIDNEYRR-DELHI__115_949	949	115	117	120	120	326184	23
SLEIGHT_115_34_BK 1	BK 1	115	43	51	67	70523	18
SLEIGHT_115_34_BK 2	BK 2	115	43	51	67	70524	21
SLEIGHT_-CLYDE__115_3-971	971(3)	115	176	179	179	26686	20
SMAHWAH_345_138_BK 258	258	345	441	516	559	25393	110
SMAHWAH_-RAMAPO__345_69	69	345	1601	2010	2268	25021	271
SMAHWAH_-RAMAPO__345_70	70	345	1822	2010	2552	25259	234
SMITHBRD-WEIBELAV_115_2	2	115	268	292	317	325903	13
SMITHBRD-WEIBELAV_115_302	302	115	268	292	317	325904	16
SOUTHDOV-CARRSCRN_115_153	153	115	156	170	181	326162	7
SOUTHDOV-CARRSCRN_115_154	154	115	156	170	181	326164	1
SPENCPRT-STA_113_115_947	947	115	143	151	161	326080	47
SPIERFLS-BUTLER__115_4	4-SFB	115	128	135	152	26136	35
SPIERFLS-CURTPALM_115_9	9	115	128	135	152	326145	36
SPIERFLS-MOHICAN_115_7	7	115	141	144	165	26435	30
SPIERFLS-QUENSBRY_115_5	5-SFQ	115	141	145	165	26141	47
SPIERFLS-TAPBROOK_115_2	2	115	282	288	318	25874	19
SPIERFLS-TAPBROOK_115_302	302	115	222	234	278	25873	35
SPRAINBROOK - SPRNBR49	R49REAC	345	755	978	1423	26725	630
SPRINGVL-ARCADE__115_151	151	115	156	171	182	326167	34
SPRINGVL-MACHIAS_115_152	152	115	156	171	182	326171	29
SPRNBRK_345_138_BK N7	BK N7	345	382	451	472	25628	182
SPRNBRK_345_138_BK S6	BK S6	345	382	451	472	25625	163
SPRNBRK_-ACADEMY_345_M29	M29	345	536	775	1369	325756	301
SPRNBRK_-DUNWODIE_138_99941	99941	138	385	464	464	25245	162
SPRNBRK_-DUNWODIE_138_99942	99942	138	409	438	464	25246	182
SPRNBRK_-DUNWODIE_345_W75	W75	345	2849	3170	3640	25071	471
SPRNBRK_-EGRDNCTR_345_Y49	Y49	345	693	940	1360	25105	630
SPRNBRK_-TREMONT_345_X28	X28	345	542	725	1220	25175	402
SPRNBRK_-W49TH_ST_345_M51	M51	345	799	956	1543	25053	396
SPRNBRK_-W49TH_ST_345_M52	M52	345	799	956	1543	25223	396
STA_1185-STA_180_-115_907	907	115	77	95	111	326235	17
STA_128_-STA_82__115_906	906	115	155	171	181	26303	19
STA_133_-STA_1185_115_933	933	115	117	129	149	326161	58
STA_135_-STA_230_115_929	929	115	282	298	313	325839	94
STA_158_-STA_128_115_924	924	115	155	171	181	26654	14
STA_162_-S.PERRY_115_906- 7X	906-7X	115	143	157	167	25062	29
STA_162_-STA_1185_115_907	907	115	121	149	174	325254	40
STA_162_-STA_158_115_924	924	115	155	171	181	26653	11

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
STA_204_115_34_BK 1	BK 1	115	56	67	112	70539	32
STA_204_115_34_BK 2	BK 2	115	56	67	112	70540	33
STA_204_-S124___115_911	911	115	272	280	306	26307	82
STA_23_-S42___115_920	920	115	92	111	137	70027	20
STA_23_-STA_33___115_943	901	115	92	112	137	70028	62
STA_230_-QUAKERRD_115_929	929	115	282	298	313	325840	86
STA_251_-MORTIMER_115_901	901	115	222	234	278	25097	104
STA_251_-STA_33___115_943	943	115	225	251	283	326101	111
STA_33___115_34_BK10	BK 1_2	115	74	80	90	70541	49
STA_37___115_34_BK 8	BK 8	115	50	59	100	70542	32
STA_37_-STA_48___115_926	926	115	351	373	414	26314	70
STA_37_-STA_67___115_926	926	115	250	280	300	26313	102
STA_418_-STA_113___115_917	917_910	115	155	171	181	326069	56
STA_48___115_34_BK 6	BK 6	115	60	71	73	70544	22
STA_48___115_34_BK 9	BK 9	115	67	74	112	70543	22
STA_56___115_34_BK 1	BK 1	115	146	160	168	70473	37
STA_56___115_34_BK 2	BK 2	115	55	56	56	70545	34
STA_56_-QUAKERRD_115_23	23	115	176	180	180	26288	67
STA_56_-STA_82___115_23	23	115	176	181	209	26287	33
STA_67_-ROCHESRG_115_922	922	115	343	391	416	26321	144
STA_67_-STA_418___115_910	910	115	225	239	239	326048	79
STA_67_-STA_82___115_903	903	115	343	416	433	26322	80
STA_69_-STA_71___115_945	945	115	129	145	161	326238	10
STA_69_-STA_93___115_917	917	115	151	167	175	326237	18
STA_7___STA_48___115_919	919	115	282	299	314	26302	51
STA_7___STA_48___115_927	927	115	304	335	349	326039	54
STA_7___STA_93___115_917	917	115	143	149	159	26301	26
STA_70_-SPENCPRRT_115_947	947	115	143	151	161	326343	29
STA_71_-STA_70___115_946	946	115	143	151	161	326342	10
STA_82_-MORTIMER_115_7X8272	7X8272	115	337	414	460	25098	149
STA_82_-ROCHESRG_115_904	904	115	608	657	657	25081	227
STA_82_-ROCHESRG_115_905	905	115	608	657	657	26305	211
STA_82_-STA_251___115_902	902	115	225	239	239	70058	31
STA_82_-STA_48___115_916	916	115	373	373	373	326055	88
STATE_ST-WRGHTAVE_115_976	976	115	231	239	239	26200	12
STERLING_138_69_BK 3	BK 3	138	237	320	408	26524	102
STERLING-RULAND___138_663	663	138	237	320	408	26498	103
STJHNVLE-MARSHVLE_115_11	11	115	159	159	159	26127	28
STLAWRNC_230A_230C_PS 33	PS 33	230	285	298	363	25118	1
STLAWRNC_230B_230D_PS 34	PS 34	230	356	375	525	25119	1
STLAWRNC-MOSES___230_L33P	L33P	230	409	489	519	25026	1
STLAWRNC-MOSES___230_L34P	L34P	230	420	490	519	25037	1
STOLLERD_345_115_BK 3	BK 3	345	333	378	420	25461	44
STOLLERD_345_115_BK 4	BK 4	345	341	390	420	25462	44

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
STOLLERD-HISHELDN_230_67	67	230	506	556	603	25064	79
STONCREK-WETHSRFD_230_83	83	230	506	556	603	325973	114
STONER_-ROTRDAM_115_12	12-SR	115	102	102	102	25680	6
STONYRDG_230_115_BK1	BK1	230	291	336	336	325811	75
STONYRDG-HILLSIDE_230_72	72	230	610	669	737	325810	48
STURGNPL_115_69_BK8	TR 8	115	120	141	153	326293	10
STURGNPL-OHIOVLE_115_OR	OR	115	223	234	242	326294	20
SUGARISL-COLTON__115_4	4	115	222	234	278	26084	4
SUGRLOAF_138_69_BK 6108	BK 6108	115	189	222	250	26333	50
SUGRLOAF_345_138_BK1112	BK1112	345	456	542	775	326220	113
SUGRLOAF_69_138_BK 7108	BK 7108	138	192	226	253	25891	44
SUGRLOAF-STRLFRST_138_261	26	138	314	343	356	25326	59
SULLVNP-K-STONYRDG_115_712	712	115	277	320	320	325809	74
SUMMIT97-WALCK_RD_115_129	129	115	239	317	317	326289	68
SUNY_BUF-GARDNVLB_230_79	79-1	230	691	760	790	25165	226
SUNY_BUF-GARDNVLB_230_80	80-1	230	691	760	810	25196	221
SWAGRTWN-TAPBLSTN_115_1	1	115	331	364	404	325895	66
SWAGRTWN-TAPBROOK_115_2	2	115	282	288	318	325894	73
SWANROAD-LOCKPORT_115_104	104	115	199	199	199	26050	0
SWANROAD-SHAWNERD_115_103	103	115	211	217	242	326181	59
SWEDEN_-BROCKP74_115_111	111	115	129	149	153	326130	30
SWEDEN_-BROCKP74_115_113	113	115	174	191	204	326132	30
SWEDEN_-MORTIMER_115_111	111	115	129	149	153	25347	6
SWEDEN_-MORTIMER_115_113	113	115	129	149	153	25348	2
SWEDEN_-SHELBY76_115_113	113	115	174	191	199	326131	32
SWETH224-GETZVL60_115_36	36	115	211	217	255	326365	13
SWETH224-GETZVL60_115_37	37	115	211	217	255	326366	14
SYLVANLK-PAWLING__115_990	990	115	239	239	239	26156	99
SYOSSET_138_69_BK 5	BK 5	138	258	304	338	26565	66
SYOSSET_-LOCUSTGR_138_559	559	138	519	579	656	25904	250
TALLMAN_-MONSEY__138_602	602	138	456	478	500	325609	134
TAPBLSTN-TAPBROOK_115_302	302	115	268	293	317	325898	0
TAYLORVL-BULYMO__115_6	6	115	128	135	145	26070	40
TAYLORVL-LOWVILLE_115_5	5-TL	115	128	135	152	26107	45
TEALLAVE-ASH____115_7-TA	7-TA	115	123	148	148	26063	38
TEALLAVE-ASH____115_8-AT	8-AT	115	123	148	148	26117	38
TEALLAVE-BM_CC_GM_115_6	6	115	227	239	239	26154	72
TEALLAVE-CURTIS__115_13	13	115	219	219	219	326066	6
TEALLAVE-ONEIDA__115_2	2-OT	115	141	144	159	25895	53
TEALLAVE-PETERBOR_115_5	5	115	141	144	165	325164	63
TELGRAPH_115_34_114_BK 2	BK 2	115	66	79	79	26509	17
TELGRAPH_115_34_115_BK 1	BK 1	115	66	79	79	26013	22
TELGRAPH-N.AKRON_115_107	107	115	231	231	231	26508	32
TELGRAPH-SHELBY76_115_114	114	115	129	149	153	25349	31

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
TEMPLE_-PEAT ST_115_10	10-TP	115	145	176	179	26715	52
TERMINAL-PORTER__115_6	6	115	243	249	297	326140	42
TERMINAL-SCHUYLER_115_7	7	115	141	144	165	326141	14
TICONDRG-REPUBLIC_115_914(2)	914(2)	115	102	113	125	26470	6
TILDEN_-DEWITT__115_19	19-TD	115	222	234	239	26092	56
TNWDA206-OAKWD232_115_36	36	115	176	181	209	326368	43
TNWDA206-OAKWD232_115_37	37	115	176	181	209	326371	45
TODDHILL-FISHKPLN_115_A	A	115	285	301	319	325157	19
TREMONT_138A_138B_BK 11	BK 11	138	271	329	377	25649	200
TREMONT_138C_138D_BK 12	BK 12	138	271	329	377	25650	200
TREMONT_345_138_BK 11	BK 11	345	299	350	407	25473	200
TREMONT_345_138_BK 12	BK 12	138	299	350	407	25474	200
TREMONT_-PARKCHTR_138_38X01	38X01	138	251	363	550	25120	100
TREMONT_-PARKCHTR_138_38X02	38X02	138	251	363	550	25121	100
TREMONT_-PARKCHTR_138_38X03	38X03	138	270	397	550	25122	100
TREMONT_-PARKCHTR_138_38X04	38X04	138	270	397	550	25123	99
TULLERHL-CLRKSCRN_115_1-716	1-716	115	156	170	181	26192	35
UNION_CH-BETHLMRD_115_UB	UB	115	171	188	202	326345	9
URBAN154-DALEROAD_115_39	39	115	211	217	255	326152	62
URBAN154-NEWWALDN_115_38	38	115	211	217	255	326151	64
VALKIN_-FT_ORAN_115_15	15	115	159	159	159	325685	89
VALLEY_-FAIRFIEL_115_12	12	115	141	144	159	325743	45
VALLYSTR_138A_138B_PAR	B_PAR	138	350	368	441	25607	100
VALLYSTR-BARRETT_138_291	291	138	199	282	454	25312	127
VALLYSTR-BARRETT_138_292	292	138	196	281	394	25313	144
VALLYSTR-EGRDNCTY_138_262	262	138	187	274	411	25244	58
VERNON__138A_138B_PAR R1	PAR R1	138	435	508	600	325712	0
VERNON_-GREENWD_138_31231	31231	138	195	249	310	25337	107
VERNON_-KENTAVE_138_31232	31232-1	138	195	249	310	26123	63
VERNON_-W49TH_ST_138_38M72	38M72	138	156	192	238	325122	63
VINGR_TP-VINEGAR_115_917 TAP	917 TAP	115	149	172	215	26455	8
VOLNEY_-CLAY__345_6	6	345	1431	1605	1881	25198	670
VOLNEY_-MARCY__345_19	19	345	1434	1793	2297	25345	718
VRNON VT-FITZWILL_345_379	379	345	896	896	896	26388	227
VT YANK_-VRNON VT_345_3340	3340	345	1266	1266	1434	25717	36
W.NYACK_138_69_BK 221	BK 221	138	212	281	319	26334	55
W.NYACK_-SNKEHLRD_138_562	563	138	378	414	431	325906	55
W_ERIAVE-HICKLING_115_935	935	115	120	120	120	325568	12
W_ERIAVE-SULLVNPK_115_711	711	115	299	327	360	325808	54
W49TH_ST-E13THSTA_345_M54	M54	345	772	1009	1575	25228	0
W49TH_ST-E13THSTA_345_M55	M55	345	772	1009	1575	25222	381
WADNGRIV-NSHORBCH_138_878	878	138	566	601	683	325642	22
WADNGRIV-SHOREHAM_138_891	891	138	524	585	662	25342	22
WALCK_RD-BUFALO78_115_133	133	115	239	317	317	26153	134

EQUIPMENT NAME	LINE ID	KV	NOR	LTE	STE	PTID	MW FLOW
WALDEN_-WALDN_A2_115_BK 1	BK 1	115	44	44	51	25429	9
WALDENNG-GARDNVLB_115_182	182	115	168	212	239	26015	73
WALDENNG-INGCALTN_115_54-921	54-921	115	227	249	268	26024	12
WALDWICK_345_230_BK1	BK1	345	622	763	850	25479	133
WALDWICK_345_230_BK2	BK2	345	630	768	841	25480	133
WALDWICK_345_230_BK3	BK3	345	690	852	952	25481	129
WALDWICK-SMAHWAH_345_J3410	J3410	345	743	1094	1974	25032	160
WALDWICK-SMAHWAH_345_K3411	K3411	345	746	1093	1975	25039	234
WALESVIL-CAVANARD_115_7	7	115	141	144	159	325213	31
WARNSBRG-SCOFDRD_115_10	10	115	119	119	119	326148	35
WARREN_-FALCONER_115_171	171	115	131	131	141	25015	0
WATKINRD-INGHAM_C_115_2	2-WI	115	141	144	159	25805	55
WATRCURE_345_230_BK 1	BK 1	345	494	590	600	25402	80
WATRCURE-OAKDALE_230_71	71	230	318	435	440	25179	31
WATRCURE-OAKDALE_345_31	31	345	1076	1076	1076	25178	54
WBALMVLE-MARLBORO_115_MW	MW	115	243	267	293	326090	37
WEST BUS-SILLSRD_138_873	873	138	571	613	678	325618	33
WETHSRFD-MEYER__230_85/87	85	230	506	556	603	325623	152
WETZEL_-CLAY___115_7	7-CL	115	224	224	224	326207	43
WHAVSTOR-LOVETT__138_53	53	138	282	309	321	25884	12
WHAVSTOR-STONYPNT_138_542	542	138	282	309	321	326049	18
WHAVSTRW_345_138_BK 194	BK 194	345	451	546	619	25447	154
WHITEHAL-COMSTKNM_115_13	13	115	141	144	159	25903	22
WHITEHAL-TICONDRG_115_3	3	115	141	144	159	26471	31
WICCOPEE-SHENDOAH_115_FS	FS	115	243	260	282	325773	53
WILDWOOD_138_69_BK 4	BK 4	138	258	304	338	26550	82
WILDWOOD-RIVRHEAD_138_890	890	138	375	397	440	25905	109
WILLET_-ENORWICH_115_945	945-1	115	133	149	162	25732	62
WILLIS__230_115_AT1	BK 1	230	167	195	218	25388	44
WILLIS__230_115_AT2	BK 2	230	167	195	218	25390	44
WILLIS_-CHAT_TAP_115_1(911)	911	115	173	191	205	26204	33
WILLIS_-PATNODE_230_WPN-1	WPN-1	230	530	582	612	325565	30
WILLIS_-RYAN___230_WRY-2	WRY-2	230	478	478	591	325566	28
WILLWBRK-FRESHKLS_138_29211	29211-2	138	207	275	450	25319	202
WILLWBRK-FRESHKLS_138_29212	29212-2	138	207	275	450	25320	199
WOLF_RD_-MENANDS_115_10	10	115	140	140	140	26255	72
WOOD_ST_345_115_BK 1	BK 1	345	350	400	420	25437	108
WOOD_ST_345_115_BK 2	BK 2	345	358	412	420	25438	98
WOOD_ST_-MILLWOOD_345_W80	W80	345	1976	2387	2895	25148	501
WOOD_ST_-MILLWOOD_345_W81	W81	345	1976	2387	2895	25525	570
WOOD_ST_-PLSNTVLE_345_Y87	Y87	345	2103	2282	2542	25132	668
WOODARD_-ELBRIDGE_115_4	4	115	190	208	221	325316	24
WOODLAWN-STATE_CA_115_12	12	115	148	166	166	26490	24
WOODSTNY-AMAWALK_115_996	996	115	261	287	311	25574	33

WRGHTAVE-MILLIKEN_115_973	973	115	231	260	286	26195	25
WTRVLARS-GERENSLR_115_31	31	115	156	170	181	26423	61
WWDBURNY_115_69_BK 1	BK 1	115	50	50	50	25404	13
WYNTKLNLM-REYNOLDS_115_13-988	13-WR	115	227	248	268	26143	74
YAHNUNDA-PORTER__115_3	3	115	141	144	159	26515	57
YAWGERRD-RIDGE_RD_115_963	963	115	271	279	307	326312	28
YOUNG214-HUNTLEY__115_133	133	115	211	217	242	26042	108
YOUNG214-SWETH224_115_36	36	115	211	217	255	326364	7

Appendix E – INTERFACE DEFINITIONS

NYISO OPERATING INTERFACES & OASIS TRANSMISSION PATHS

DYSINGER EAST		
West (Zone A) – Genesee (Zone B)		
Name	Line ID	Voltage (kV)
*Somerset-Rochester (Station 80)	SR1-39	345
Niagara-Rochester*	NR2	345
*Lockport-N. Akron	108	115
*Lockport-Oakfield	112	115
*Lockport- Telegraph	111	115
*Lockport-Shelby	113	115
*Lockport-Telegraph	107	115
*Lockport-Telegraph	114	115
West (Zone A) – Central (Zone C)		
*Stolle Road-High Sheldon	67	230
*Andover-Palmiter	157-932	115

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

* indicates the metered end of the circuit

MOSES SOUTH		
North (Zone D) – Mohawk Valley (Zone E)		
Name	Line ID	Voltage (kV)
*Massena-Marcy	MSU1	765
*Moses-Adirondack	MA1	230
*Moses-Adirondack	MA2	230
*Dennison-Norfolk	4	115
*Dennison-Lawrence Ave	5	115
*Alcoa-Brady	13	115
Parishville-Colton*	3	115

UPNY-CONED		
Hudson Valley (Zone G) – Millwood (Zone H)		
Name	Line ID	Voltage (kV)
*Ladentown-Buchanan South	Y88	345
*Pleasant Valley-Wood St.	F30	345
*Pleasant Valley-Wood St.	F31	345
*Pleasant Valley-East Fishkill	F36	345
*Pleasant Valley-East Fishkill	F37	345
*Ramapo-Buchanan North	Y94	345
Roseton-East 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)		
Name	Line ID	Voltage (kV)
Edic-New Scotland*	14	345
Marcy-New Scotland*	18	345
Porter-Rotterdam*	30	230
Porter-Rotterdam*	31	230
East Springfield-Inghams*	7-942	115
Inghams PAR	PAR	115
Inghams Bus Tie	R81	115
North (Zone D) – ISONE (Zone N)		
*Plattsburgh-Sand Bar	PV20	115

* indicates the metered end of the circuit

TOTAL EAST		
Mohawk Valley (Zone E) – Capital (Zone F)		
Name	Line ID	Voltage (kV)
Edic-New Scotland*	14	345
Marcy-New Scotland*	18	345
*Fraser-Gilboa	GF5-35	345
Porter-Rotterdam*	30	230
Porter-Rotterdam*	31	230
East Springfield-Inghams*	7-942	115
Inghams PAR	PAR	115
Inghams Bus Tie	R81	115
Mohawk Valley (Zone E) – Hudson Valley (Zone G)		
Middletown-Rock Tavern*	CCRT34	345
Coopers Corners-Dolson Ave.*	CCDA42	345
Middletown 345*/138	BK114	345/138
West Woodbourne 115/69*	BK1	115/69
North (Zone D) – ISONE (Zone N)		
*Plattsburgh-Sand Bar	PV20	115
PJM East (Zone P) – Hudson Valley (Zone G)		
Hopatcong-Ramapo*	5018	500
*Waldwick-S. Mahwah	J3410	345
*Waldwick-S. Mahwah	K3411	345
PJM East (Zone P) – NYC (Zone J)		
Marion-Farragut*	C3403	345
Hudson-Farragut*	B3402	345
Linden-Goethals*	A2253	230
PJM (Rockland Electric) – Hudson Valley (Zone G)		
*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

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

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

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

* indicates the metered end of the circuit

PJM-NYISO		
PJM East (Zone P) – NYC (Zone J)		
Name	Line ID	Voltage (kV)
Marion-Farragut*	C3403	345
Hudson-Farragut*	B3402	345
Linden-Goethals*	A2253	230
PJM West – Central (Zone C)		
*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
PJM West – West (Zone A)		
*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
PJM East (Zone P) – Hudson Valley (Zone G)		
Hopatcong-Ramapo*	5018	500
*Waldwick-S. Mahwah	J3410	345
*Waldwick-S. Mahwah	K3411	345
PJM (Rockland Electric) – Hudson Valley (Zone G)		
*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

Appendix F – ANNOTATED MUST OUTPUT

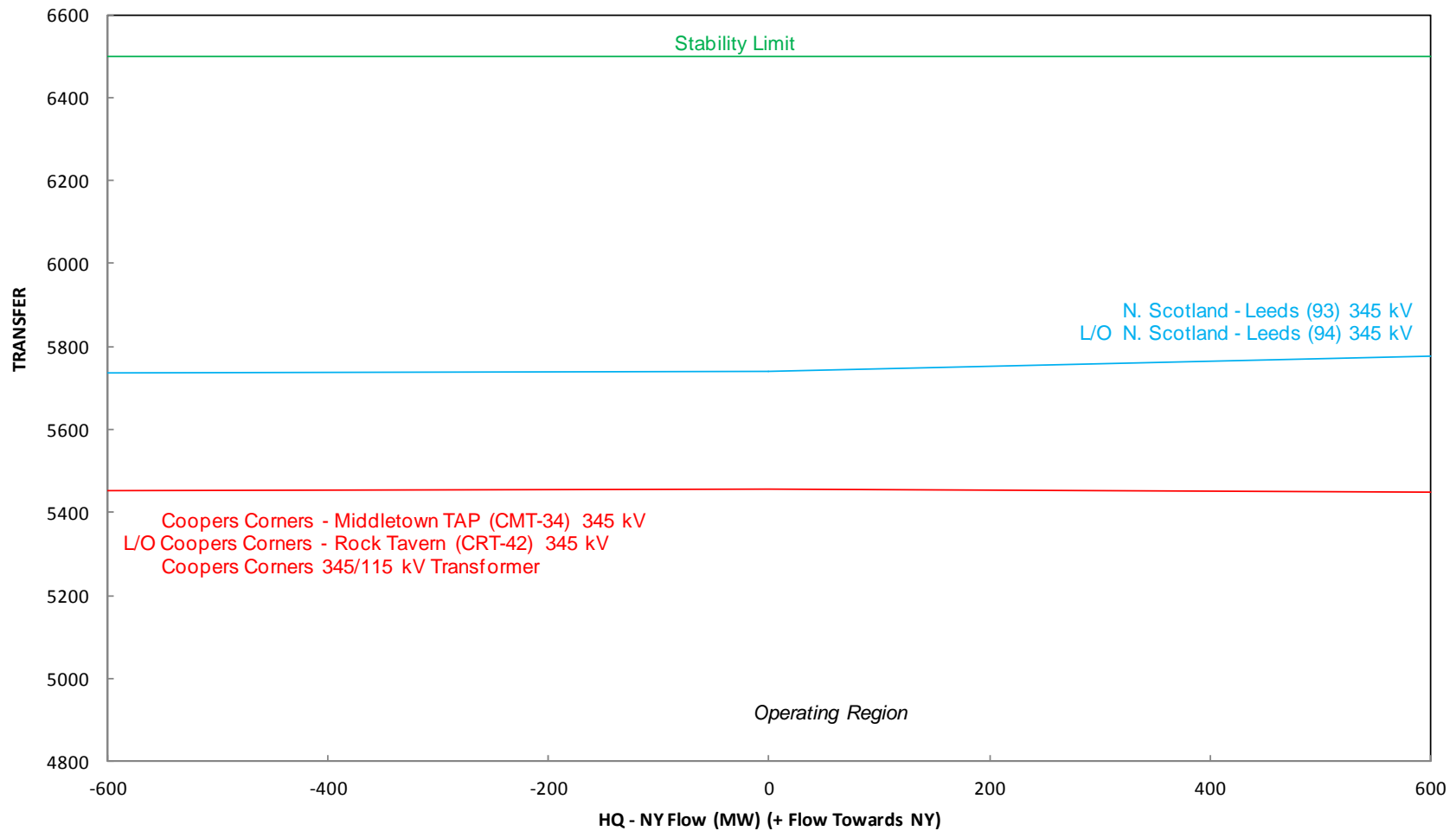
This Section Is Available Electronically If Requested

Appendix G – TRANSFER LIMIT SENSITIVITY GRAPHS

INDEX

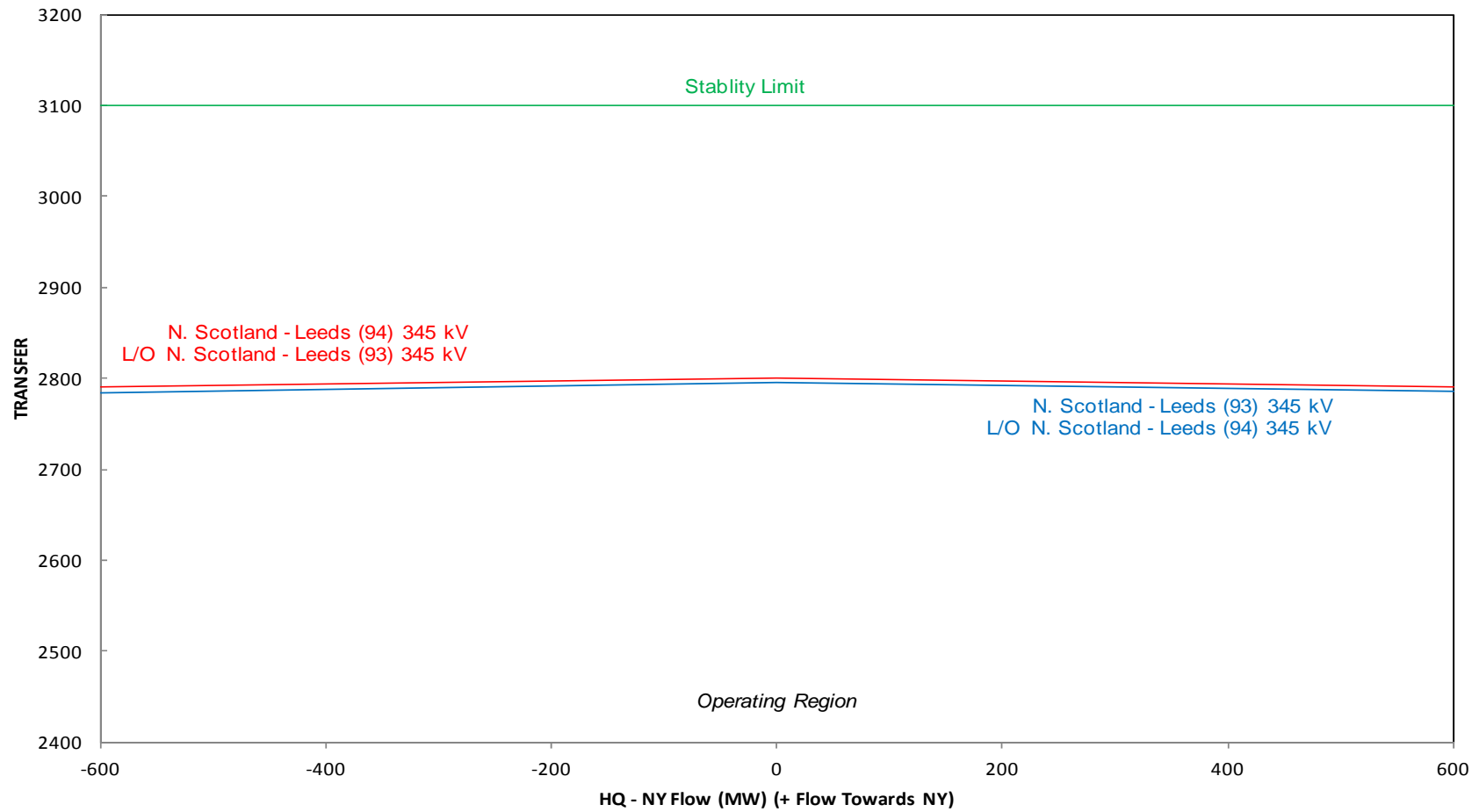
1. Total East vs. HQ-NY	.....	G-1
2. Central East vs. HQ-NY	.....	G-2
3. Moses South vs. HQ Export to New York	.....	G-3
4. NE-NY vs. Norwalk-Northport PAR flow for Normal Transfer	.....	G-4
5. NY-NE vs. Norwalk-Northport PAR flow for Normal Transfer	.....	G-5

Total East vs. HQ Export to New York
For Normal Transfer Criteria
Winter 2017-18



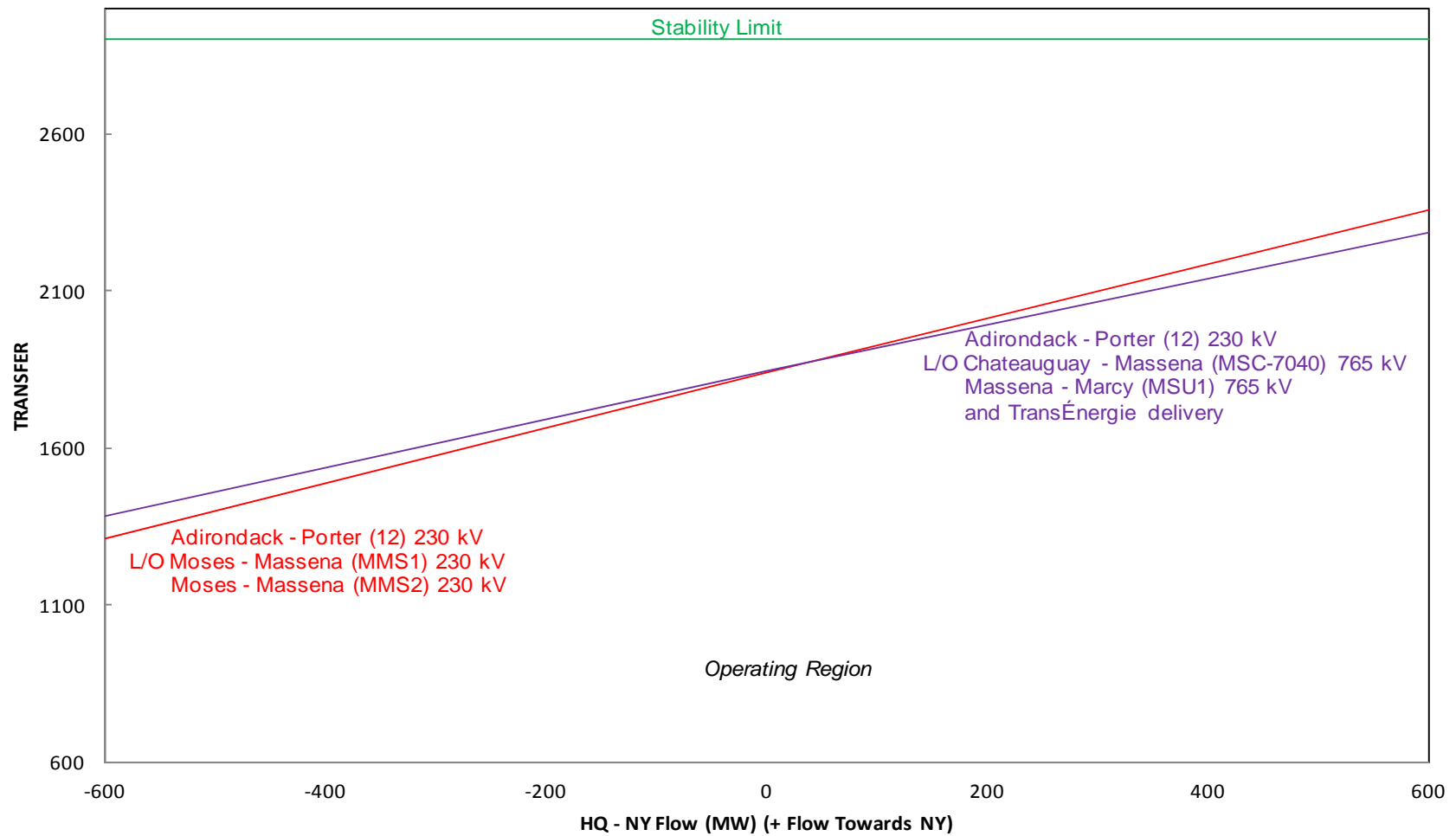
G-1

Central East vs. HQ Export to New York
For Normal Transfer Criteria
Winter 2017-18



G-2

Moses South vs. HQ Export to New York For Normal Transfer Criteria Winter 2017-18

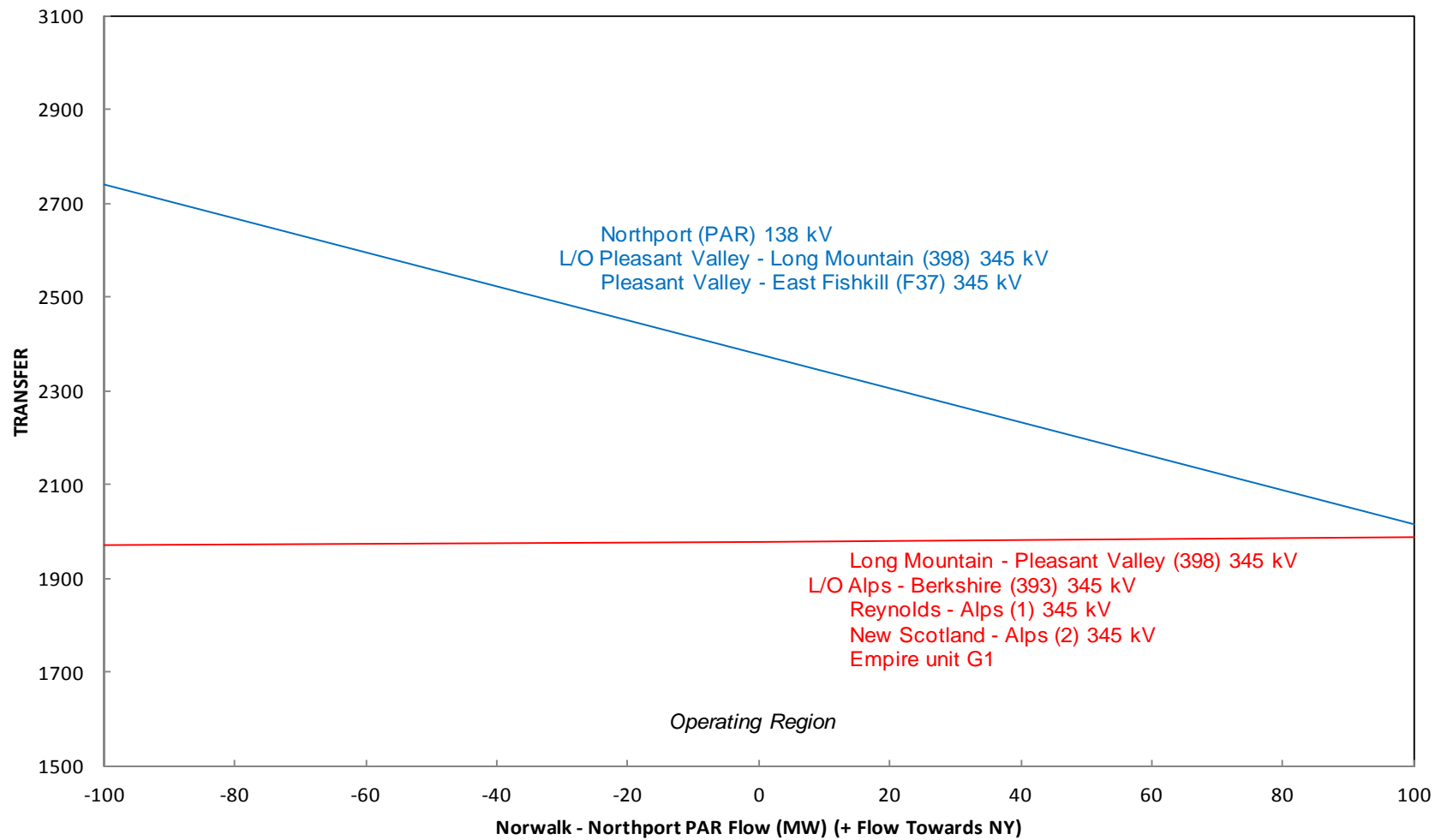


G-3

NE-NY vs. NORWALK-NORTHPORT PAR Flow

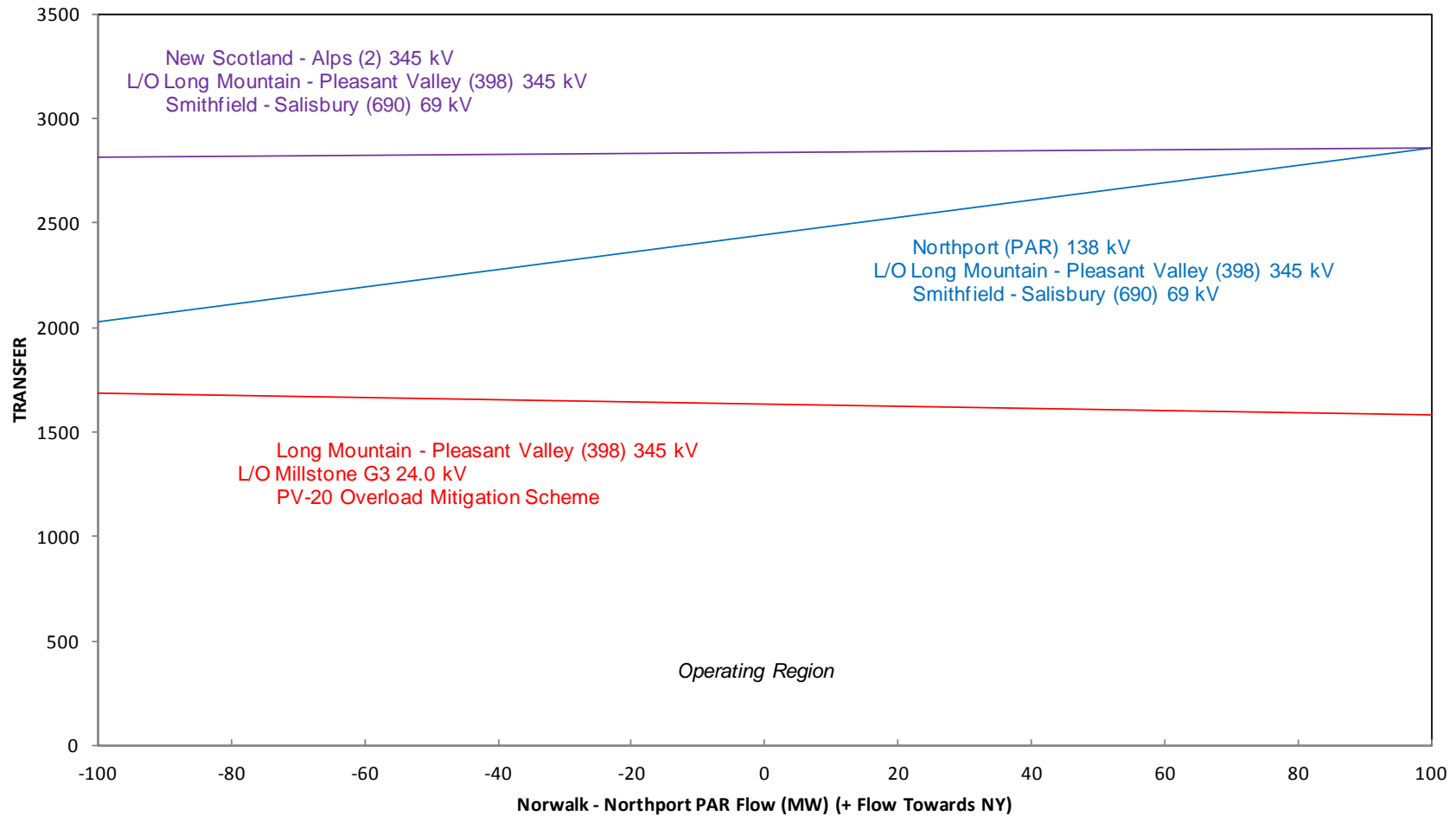
For Normal Transfer Criteria

Winter 2017-18



G-4

NY-NE vs. NORWALK-NORTHPORT PAR Flow
For Normal Transfer Criteria
Winter 2017-18



G-5

Appendix H – COMPARISON OF TRANSFER LIMITS WINTER 2017-18 VS. 2016-17

Comparison of Winter 2017-18 to Winter 2016-17 Thermal Limits

		WINTER 2017-18		WINTER 2016-17		
Interface		Limit (MW)	Contingency	Limit (MW)	Contingency	Delta
Dysinger East	Normal	2375	1	1875	1	500
	Emergency	2950	2	2700	2	250
UPNY - ConEd	Normal	5700	3	5175	3	525
	Emergency	5900	12	5650	4	250
Sprain Brook Dunwoodie- South	Normal	4000	5	4025	5	-25
	Emergency	4125	6	4125	6	0
Con Ed - LIPA	Normal	950	7	950	7	0
	Emergency	1600	8	1550	8	50
Central East	MSC-7040 FLOW	HQ -> NY	600 MW	HQ -> NY	600 MW	
	Normal	2775	9	2775	9	0
	Emergency	3150	10	3150	10	0
	MSC-7040 FLOW		0 MW		0 MW	
	Normal	2775	9	2775	9	0
	Emergency	3150	10	3150	10	0
	MSC-7040 FLOW	NY -> HQ	600 MW	NY -> HQ	600 MW	
	Normal	2775	9	2775	9	0
	Emergency	3150	10	3150	10	0
Total East ⁴	MSC-7040 FLOW	HQ -> NY	600 MW	HQ -> NY	600 MW	
	Normal	5450	11	5425	11	25
	Emergency	5450	12	5425	12	25
	MSC-7040 FLOW		0 MW	5425	0 MW	
	Normal	5450	11	5425	11	25
	Emergency	5450	12	5425	12	25
	MSC-7040 FLOW	NY -> HQ	600 MW	NY -> HQ	600 MW	
	Normal	5450	11	5425	11	25
	Emergency	5450	12	5425	12	25
Moses - South	MSC-7040 FLOW	HQ -> NY	600 MW	HQ -> NY	600 MW	
	Normal	2275	13	2300	13	-25
	Emergency	3050	14	3100	14	-50
	MSC-7040 FLOW		0 MW		0 MW	
	Normal	1825	15	1850	15	-25
	Emergency	2500	17	2475	16	-25

⁴ Limits in this report do not include Neptune in the Total East Interface.

MSC-7040 FLOW	NY -> HQ	600 MW	NY -> HQ	600 MW	
Normal	1300	15	1325	15	-25
Emergency	1775	16	1750	16	-25

NYISO WINTER 2017-18 CROSS-STATE THERMAL LIMIT CONTINGENCY LIST

	Limiting Element				Contingency
(1)	Niagara – Packard (61) 230 kV	@STE	956 MW	L/O	Beck – Packard (BP76) 230 kV Niagara – Packard (62) 230 kV
(2)	Niagara 230/115 kV Transformer	@STE	288 MW	L/O	Niagara – Robinson Rd. (64) 230 kV
(3)	Leeds – Pleasant Valley (92) 345kV	@LTE	1783 MW	L/O	Athens – Pleasant Valley (91) 345kV
(4)	Leeds – Pleasant Valley (92) 345kV	@STE	1912 MW	L/O	Athens – Pleasant Valley (91) 345kV
(5)	Dunwoodie – Mott Haven (71) 345kV	@SCUC	1083 MW	L/O	Dunwoodie – Mott Haven (72) 345kV
(6)	Dunwoodie – Mott Haven (71) 345kV	@NORM	741 MW		Pre – Contingency Loading
(7)	Dunwoodie – Shore Rd. (Y50) 345kV	@LTE	977 MW	L/O	Sprain Brook – E.G.C. (Y49) 345kV Sprain Brook – Academy (M29) 345 kV
(8)	Dunwoodie – Shore Rd. (Y50) 345 kV	@NORM	741 MW		Pre – Contingency Loading
(9)	New Scotland – Leeds (93) 345kV	@LTE	1692 MW	L/O	New Scotland – Leeds (94) 345kV
(10)	New Scotland – Leeds (93) 345kV	@STE	1912 MW	L/O	New Scotland – Leeds (94) 345kV
(11)	Coopers Corners – Middletown TAP (CCRT34) 345 kV	@LTE	1793 MW	L/O	Coopers Corners – Dolson Ave (CCDA42) 345 kV Coopers Corners 345/115 kV Transformer
(12)	Coopers Corners – Middletown TAP (CCRT34) 345 kV	@STE	1793 MW	L/O	Coopers Corners – Dolson Ave (CCDA42) 345 kV
(13)	Adirondack – Porter (AP12) 230 kV	@LTE	478 MW	L/O	Chateauguay – Massena (MSC-7040) 765 kV Massena – Marcy (MSU1) 765 kV and TransÉnergie delivery
(14)	Browns Falls – Taylorville (4) 115 kV	@STE	152 MW	L/O	Browns Falls – Taylorville (3) 115 kV
(15)	Adirondack – Porter (12) 230 kV	@LTE	478 MW	L/O	Moses – Massena (MMS1) 230 kV Moses – Massena (MMS2) 230 kV
(16)	Moses – Massena (MMS1) 230 kV	@STE	1593 MW	L/O	Moses – Massena (MMS2) 230 kV
(17)	Browns Falls – Taylorville (4) 115 kV	@STE	152 MW	L/O	Moses 230kV Bus Tie

Appendix I – 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	228.88	37.03%	TRIP	53.86%	23.66%	19.86%	21.88%	TRIP
SOMERSET345	345 ROCH 345	345 1	427.21	25.26%	44.33%	TRIP	16.13%	13.55%	14.92%	O/S
STOLE230	230 SHLDN230	230 1	78.66	12.87%	8.91%	7.38%	TRIP	7.34%	8.08%	16.00%
LOCKPORT	115 SHEL-113	115 1	42.94	2.81%	4.23%	3.51%	4.15%	TRIP	14.98%	7.60%
LOCKPORT	115 SOUR-111	115 1	37.29	2.85%	4.29%	3.55%	4.21%	13.79%	TRIP	7.70%
LOCKPORT	115 NAKR-108	115 1	33.11	1.01%	1.52%	1.26%	1.49%	3.48%	3.76%	2.72%
LOCKPORT	115 OAKFLDTP	115 1	34.78	1.18%	1.77%	1.47%	1.74%	4.06%	4.39%	3.18%
LOCKPORT	115 TELRD107	115 1	53.62	1.36%	2.05%	1.70%	2.01%	6.31%	6.23%	3.69%
LOCKPORT	115 TELRD114	115 1	48.33	2.79%	4.21%	3.49%	4.13%	18.54%	11.36%	7.56%
PALMT115	115 ANDOVER1	115 1	0	0.00%	O/S	O/S	O/S	O/S	O/S	O/S
SUB-TOTALS				87.15%	71.30%	76.22%	57.51%	86.92%	85.60%	48.46%
L33P-L34P			-1.27	0.00%	11.02%	9.13%	9.44%	4.08%	4.50%	19.80%
PJM-NYISO			894.28	12.85%	17.68%	14.65%	33.05%	9.00%	9.91%	31.75%
TOTALS				100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Table-2 DISTRIBUTION FACTORS FOR WEST CENTRAL CIRCUITS

Monitored Element			Base Flow	TRANSFER	CLAY-PANNELL	STOLLE-SHLDN	PANNEL-FARM	S121-SLEGH	PANNEL-CLAY
CLAY	345 PANNELL3	345 1	-96.06	31.24%	TRIP	9.06%	20.85%	19.89%	O/S
CLAY	345 PANNELL3	345 2	-96.37	31.35%	57.31%	9.09%	20.92%	19.96%	TRIP
STOLE230	230 SHLDN230	230 1	78.66	12.87%	2.93%	TRIP	8.35%	2.42%	6.86%
FRMGIN-4	115 PANNELLI	115 1	125.95	3.46%	6.26%	7.75%	TRIP	16.29%	14.65%
LAWLER-1	115 MORTIMER	115 1	52.16	2.67%	2.69%	0.96%	14.21%	4.34%	6.31%
MACDN15	115 QUAKER	115 1	30.89	0.35%	0.51%	0.35%	3.32%	19.02%	1.19%
MORTIMER	115 LAWLER-2	115 1	41.93	2.73%	2.92%	0.83%	5.92%	4.76%	6.84%
SLEIGH15	115 S121 B#2	115 1	59.75	2.84%	3.98%	1.49%	10.86%	TRIP	9.32%
PALMT15	115 ANDOVER1	115 1	0	0.00%	O/S	O/S	O/S	O/S	O/S
S.PER15	115 STA 162	115 1	28.55	-0.35%	2.39%	27.98%	4.81%	2.54%	5.60%
SUB-TOTALS				87.15%	78.98%	57.51%	89.24%	89.21%	50.77%
L33P-L34P			-1.27	0.00%	8.17%	9.44%	2.64%	3.62%	19.13%
RJM-NYISO			894.28	12.85%	12.85%	33.05%	8.13%	7.17%	30.10%
TOTALS				100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Table-3 DISTRIBUTION FACTORS FOR TOTAL EAST CIRCUITS

Monitored Element	Base Flow	TRANSFER	EDIC34-NSCOT	FRASER-GILBA	MARCY3-NSCOT	WALDWK-SMAWA	PORTER-RTRDM	HOPATCONG-RAMPO	HUDSON-FARGT	LINDEN-GOETH	WALDWK-SMAWA	MARION-FARGT
COOPC345 345 DOLSON_AVE 345 2	558.89	19.09%	7.91%	18.03%	8.36%	0.45%	4.70%	4.62%	0.39%	0.98%	3.70%	0.46%
EDIC 345 N.SCOT77 345 1	453.9	16.25%	TRIP	18.82%	29.90%	0.12%	13.14%	2.02%	1.38%	1.63%	0.94%	2.01%
FRASR345 345 GILB 345 345 1	128.99	16.50%	23.93%	TRIP	24.62%	0.08%	10.32%	2.29%	2.32%	2.59%	0.59%	3.42%
N.SCOT99 345 MARCY T1 345 1	512.02	17.87%	32.13%	20.80%	TRIP	0.13%	14.28%	2.22%	1.53%	1.81%	1.03%	2.23%
ROCK TAV 345 MDTN TAP 345 1	421.22	17.01%	7.43%	16.79%	7.84%	0.49%	4.41%	3.80%	0.66%	1.13%	2.83%	0.89%
SMAHWAH1 345 WALDWICK 345 1	-160.7	-0.14%	0.99%	0.43%	1.00%	87.99%	0.62%	23.01%	16.56%	10.75%	O/S	26.19%
SMAHWAH2 345 WALDWICK 345 1	-234.8	0.14%	0.99%	0.54%	1.01%	TRIP	0.61%	22.53%	15.85%	10.27%	TRIP	25.08%
PORTER 2 230 ROTRDM.2 230 1	154.67	4.42%	5.34%	3.30%	5.40%	0.03%	TRIP	0.52%	0.36%	0.43%	0.24%	0.53%
PORTER 2 230 ROTRDM.2 230 2	154.66	4.41%	5.34%	3.30%	5.40%	0.03%	32.29%	0.52%	0.36%	0.43%	0.24%	0.53%
MDTN TAP 345 SHOEMTAP 138 1	189.28	2.90%	0.68%	1.74%	0.72%	-0.05%	0.41%	1.14%	-0.37%	-0.20%	1.21%	-0.59%
SMAHWAH1 345 SMAH138 138 1	-110.22	0.41%	0.01%	0.16%	0.01%	-3.38%	0.01%	-0.50%	-0.88%	-0.60%	0.48%	-1.39%
CORPORATE DR 138 HCOR138 138 1	-56.23	-0.02%	0.00%	-0.01%	0.00%	0.04%	0.00%	0.02%	-0.01%	-0.01%	0.02%	-0.01%
RAMP138 138 SMAH138 138 1	-72.54	-0.25%	0.00%	-0.09%	0.00%	2.71%	0.00%	0.50%	0.64%	0.43%	-0.26%	1.00%
E.SPR115 115 INGHAM-E 115 1	-31.71	0.93%	-0.07%	2.16%	-0.06%	0.01%	0.94%	0.14%	0.10%	0.11%	0.06%	0.14%
INGMS-CD 115 INGHAM-E 115 1	119.38	0.00%	3.40%	0.96%	3.42%	0.01%	9.15%	0.25%	0.17%	0.20%	0.12%	0.25%
NE_PV20_NY 115 PLAT T#3 115 1	102.03	0.00%	2.70%	1.76%	2.86%	0.03%	3.16%	0.53%	0.37%	0.44%	0.25%	0.54%
W.WDB115 115 W.WDBR69 69.0 1	13.1	0.63%	0.53%	1.11%	0.56%	0.00%	0.39%	0.04%	0.11%	0.11%	-0.03%	0.16%
BLUHILL 69.0 MONTVALE 69.0 1	3.44	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
BLUHILL 69.0 MONTVALE 69.0 2	3.44	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	-22.09	-0.31%	-0.05%	-0.14%	-0.05%	0.43%	-0.03%	-0.01%	0.12%	0.07%	-0.13%	0.19%
L491T 69.0 MONTVALE 69.0 1	-25.48	0.03%	0.01%	0.02%	0.01%	0.10%	0.01%	0.01%	0.04%	0.03%	-0.02%	0.06%
SPARKILL 69.0 CRESSKIL 69.0 1	-5.83	0.03%	0.01%	0.02%	0.01%	0.02%	0.01%	-0.01%	0.02%	0.02%	-0.02%	0.03%
WNYA69 69.0 HCOR69 69.0 1	-0.36	0.11%	0.03%	0.06%	0.03%	0.08%	0.02%	-0.03%	0.08%	0.07%	-0.08%	0.12%
PEARL34 34.5 HCOR34 34.5 1	0.67	-0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-0.01%
SUB-TOTALS		100.00%	91.28%	89.73%	91.04%	89.31%	94.41%	63.62%	39.76%	30.67%	11.16%	61.82%
RAMAPO 5 500 HOPATCONG 500 1	225.35	0.00%	2.71%	2.42%	2.76%	3.51%	1.71%	TRIP	10.76%	14.88%	28.94%	15.09%
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	314.62	0.00%	0.38%	0.47%	0.39%	0.28%	0.24%	2.57%	3.13%	16.03%	2.36%	4.46%
B3402 PAR1 345 HUDSON1 345 1	148.93	0.00%	1.75%	2.33%	1.81%	2.35%	1.13%	10.25%	TRIP	16.99%	19.60%	O/S
C3403 PAR2 345 MARION 345 1	147.5	0.00%	2.28%	3.07%	2.36%	3.38%	1.48%	12.67%	33.29%	21.43%	28.16%	TRIP
GOETHALS 230 LINDEN 230 1	102.24	0.00%	1.60%	2.00%	1.65%	1.17%	1.03%	10.91%	13.07%	TRIP	9.78%	18.63%
TOTALS		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Table-4 DISTRIBUTION FACTORS FOR UPNY-CONED CIRCUITS

Monitored Element	Base Flow	TRANSFER	LADNTW-BUCHS	RAMAPO-BUCHN	PLVLLY-FISHK	PLVLLY-MILLW	ROSETN-FISHK	HUDSON-FARGT	LINDEN-GOETH
BUCHANAN N 345 RAMAPO 345 1	42.45	15.77%	37.05%	TRIP	-0.42%	4.07%	13.89%	14.18%	12.33%
BUCHANAN S 345 LADENTWN 345 1	358.07	17.65%	TRIP	50.10%	-4.06%	19.34%	25.39%	20.72%	17.84%
E FISHKILL 345 PLTVLLEY 345 1	225.88	7.75%	-7.53%	-1.06%	TRIP	23.89%	31.58%	0.41%	0.57%
E FISHKILL 345 PLTVLLEY 345 2	225.88	7.75%	-7.53%	-1.06%	65.89%	23.89%	31.58%	0.41%	0.57%
MILLWOOD 345 PLTVLLEY 345 1	571.93	15.54%	13.29%	3.78%	8.85%	TRIP	-9.97%	2.03%	2.20%
PLTVLLEY 345 WOOD B 345 1	601.02	15.35%	12.84%	3.73%	9.24%	33.77%	-9.66%	2.02%	2.19%
ROSETON 345 E FISHKILL 345 1	1048.26	17.59%	23.85%	17.64%	16.00%	-13.63%	TRIP	8.61%	7.76%
E FISH I 115 E FISHKILL 345 1	-10.65	1.70%	0.82%	0.75%	2.62%	-0.50%	5.94%	0.44%	0.42%
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	114.79	0.91%	0.64%	0.37%	-0.05%	0.75%	0.40%	0.21%	0.20%
SUB-TOTALS		100.00%	73.44%	74.26%	98.08%	91.56%	89.15%	49.03%	44.07%
B3402 PAR1 345 HUDSON1 345 1	148.93	0.00%	8.01%	7.42%	0.09%	1.14%	3.54%	TRIP	16.99%
C3403 PAR2 345 MARION 345 1	147.5	0.00%	11.06%	10.22%	0.10%	1.53%	4.85%	33.29%	21.43%
GOETHALS 230 LINDEN 230 1	102.24	0.00%	5.31%	4.96%	0.09%	0.95%	2.46%	13.07%	TRIP
COGNTECH 345 G22_VFT345KV 345 1	314.62	0.00%	1.27%	1.18%	0.02%	0.22%	0.58%	3.13%	16.03%
NRTHPT P 138 NRTHPT1 138 1	100.34	0.00%	0.92%	1.97%	1.62%	4.59%	-0.59%	1.49%	1.48%
TOTALS		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Table-5 DISTRIBUTION FACTORS FOR SPRAINBROOK DUNWOODIE SOUTH CIRCUITS

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	377.44	30.87%	TRIP	5.71%	23.85%	10.63%	11.39%	65.87%	
REAC72	345 MOTT HAVEN	345 4	344.93	28.15%	57.14%	5.21%	21.75%	9.69%	10.39%	TRIP	
SPRAINBROOK	345 ACADEMY	345 1	301.09	0.00%	0.30%	21.11%	0.49%	3.57%	3.50%	0.39%	
SPRAINBROOK	345 TREMONT	345 1	401.05	0.00%	0.34%	TRIP	0.53%	3.90%	3.82%	0.42%	
W 49 ST	345 REACM51	345 1	394.89	20.49%	17.95%	6.81%	TRIP	8.66%	8.25%	O/S	
W 49 ST	345 REACM52	345 2	394.89	20.49%	17.95%	6.81%	46.47%	8.66%	8.25%	25.88%	
DUN NO1R	138 S CREEK W	138 1	114.68	0.00%	0.25%	12.41%	0.21%	2.12%	2.11%	0.28%	
DUN NO2R	138 S CREEK E	138 1	114.82	0.00%	0.27%	13.38%	0.22%	2.28%	2.27%	0.30%	
DUN SO1R	138 E179 ST W	138 1	204.42	0.00%	0.36%	18.18%	0.31%	3.10%	3.08%	0.41%	
JAMAICA	138 V STRM P	138 1	99.99	0.00%	0.71%	4.46%	0.77%	TRIP	44.66%	0.84%	
JAMAICA	138 L SUCSPH	138 1	199.85	0.00%	0.75%	4.31%	0.73%	43.99%	TRIP	0.87%	
SUB-TOTALS					100.00%	96.03%	98.38%	95.32%	96.58%	97.74%	95.26%
B3402 PAR1	345 HUDSON1	345 1	148.93	0.00%	1.30%	0.19%	1.41%	1.03%	0.68%	1.53%	
C3403 PAR2	345 MARION	345 1	147.5	0.00%	1.65%	0.25%	2.11%	1.38%	0.91%	2.00%	
GOETHALS	230 LINDEN	230 1	102.24	0.00%	0.83%	0.96%	0.94%	0.82%	0.55%	0.98%	
COGNTECH	345 G22 VFT345KV	345 1	314.62	0.00%	0.20%	0.23%	0.23%	0.19%	0.13%	0.23%	
TOTALS					100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Table-6 DISTRIBUTION FACTORS FOR MOSES SOUTH CIRCUITS

Monitored Element			Base Flow	TRANSFER	MASSEN_CHAT	MASSEN-MARCY	MOSES2-ADRON	MOSES2-ADRONB1
MARCY765	765 MASS 765	765 1	411.79	74.16%	66.42%	TRIP	43.69%	O/S
ADRON B1	230 MOSES W	230 1	52.99	9.48%	3.35%	18.47%	TRIP	TRIP
ADRON B2	230 MOSES W	230 1	53.02	9.48%	3.35%	18.47%	36.29%	48.25%
ALCOA-NM	115 BRADY	115 1	25.72	1.11%	0.44%	2.13%	0.74%	1.82%
ALLENS F	115 COLTON	115 1	-19.69	1.58%	0.28%	1.84%	0.66%	1.59%
ANDRWS-4	115 DENNISON	115 1	14.52	2.09%	0.82%	3.99%	1.39%	3.41%
DENNISON	115 LWRNCE-B	115 1	12.47	2.09%	0.82%	4.00%	1.39%	3.41%
SUB-TOTALS				100.00%	75.46%	48.88%	84.16%	58.48%
MOSES E	230 ST_LAWR_L33P	230 1	0.69	0.00%	10.03%	18.41%	5.57%	14.81%
MOSES E	230 ST_LAWR_L34P	230 1	0.58	0.00%	10.81%	19.82%	6.00%	15.95%
MOSES W	230 WILLIS E	230 1	44.96	0.74%	1.96%	7.25%	2.42%	6.08%
MOSES W	230 WILLIS W	230 1	44.64	0.74%	1.95%	7.21%	2.41%	6.04%
TOTALS				101.48%	100.22%	101.56%	100.57%	101.36%

Table-7 DISTRIBUTION FACTORS FOR NEISO NYISO CIRCUITS

Monitored Element				Base Flow	TRANSFER	NHHAR GEN	YRMTH GEN	SBRK GEN	HIGATE DC	ELLRIVER	MADWAS DC	ALPS34-MANY	PV.345-LNGMT
NE_393_NY	345	ALPS345	345 1	-57.02	36.11%	19.06%	30.51%	30.37%	20.91%	30.50%	30.50%	TRIP	37.50%
NE_398_NY	345	PLTVLLEY	345 1	90.23	50.18%	49.69%	34.78%	35.03%	22.03%	34.76%	34.76%	45.13%	TRIP
NE_E205W_NY	230	EASTOVER RD	230 1	-18.16	9.38%	4.73%	8.07%	8.12%	4.17%	8.06%	8.06%	17.00%	8.32%
NE_PV20_NY	115	PLAT T#3	115 1	-102.03	0.00%	4.04%	7.10%	6.94%	36.31%	7.13%	7.13%	7.62%	5.21%
NE_K7_NY	115	WHITEHAL	115 1	-0.08	0.00%	2.32%	4.61%	4.51%	6.73%	4.62%	4.62%	8.98%	4.36%
NE_K6_NY	115	HOOSICK	115 1	-3.18	3.21%	1.57%	2.58%	2.59%	1.41%	2.58%	2.58%	8.38%	2.93%
NE_690_NY	69.0	SMITHFLD	69.0 1	-0.61	1.12%	1.09%	0.81%	0.82%	0.50%	0.81%	0.81%	1.16%	2.80%
NE_601_NY	138	NRTHPT P	138 1	33.62	0.00%	5.86%	3.87%	3.89%	2.65%	3.86%	3.86%	3.93%	13.02%
NE_602_NY	138	NRTHPT P	138 2	33.52	0.00%	5.84%	3.85%	3.88%	2.65%	3.85%	3.85%	3.92%	12.98%
NE_603_NY	138	NRTHPT P	138 3	33.29	0.00%	5.80%	3.83%	3.85%	2.63%	3.83%	3.83%	3.89%	12.89%
SHM DC	138	SHOREHAM2	138 1	329.5	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
TOTALS					100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Table-8 DISTRIBUTION FACTORS FOR ONTARIO NYISO CIRCUITS

Monitored Element				Base Flow	TRANSFER	BECKB-NIAGAR	PA27-NIAGAR	BP76-PACKD2	STLAWR34-MOSES	STLAWR33-MOSES	BECKA-PA301
NIAG 345	345	BECK #2 H301	345 1	-21.75	33.29%	56.50%	34.07%	31.85%	8.78%	9.15%	TRIP
NIAG 345	345	BECK #2 H302	345 1	-21.76	33.29%	TRIP	34.07%	31.85%	8.78%	9.15%	O/S
NIAGAR2W	230	BECK #2 PA27	230 1	-17.25	17.49%	20.69%	TRIP	30.07%	4.59%	4.78%	47.58%
PACKARD2	230	BECK #2 BP76	230 1	59.6	15.94%	16.80%	26.11%	TRIP	4.16%	4.34%	38.62%
MOSES E	230	ST LAWR L33P	230 1	-0.69	0.00%	1.21%	1.04%	1.09%	TRIP	55.60%	2.78%
MOSES E	230	ST LAWR L34P	230 1	-0.58	0.00%	1.30%	1.12%	1.17%	57.42%	TRIP	2.99%
SUB-TOTALS					100.00%	96.50%	96.41%	96.03%	83.72%	83.03%	91.96%
ON-MICH				3.13	0.00%	3.29%	3.38%	3.74%	15.11%	15.75%	7.56%
TOTALS					100.00%	99.79%	99.79%	99.76%	98.83%	98.78%	99.52%

Table-9 DISTRIBUTION FACTORS FOR PJM-NYISO CIRCUITS

Monitored Element				Base Flow	TRANSFER	HOPATCONG-RAMPO	HUDSON-FARGT	LINDEN-GOETH	WALDWK-SMAWA	PIERCE-5MILE	MAIN-WATER	E. TOWD-HILLS	MARION-FARGT	WALDWK-SMAWA
RAMAPO 5	500	HOPATCONG	500 1	225.35	0.00%	TRIP	10.76%	14.88%	3.51%	9.46%	9.76%	9.43%	15.09%	28.94%
COGNTECH	345	G22_VFT345KV	345 1	314.62	0.00%	2.57%	3.13%	16.03%	0.28%	0.91%	0.94%	0.74%	4.46%	2.36%
B3402 PAR1	345	HUDSON1	345 1	148.93	0.00%	10.25%	TRIP	16.99%	2.35%	3.83%	3.91%	3.27%	O/S	19.60%
C3403 PAR2	345	MARION	345 1	147.5	0.00%	12.67%	33.29%	21.43%	3.38%	4.87%	4.97%	4.17%	TRIP	28.16%
GOETHALS	230	LINDEN	230 1	102.24	0.00%	10.91%	13.07%	TRIP	1.17%	3.91%	4.03%	3.15%	18.63%	9.78%
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%
SMAHWAH1	345	WALDWICK	345 1	-160.7	-0.06%	23.01%	16.56%	10.75%	87.99%	4.95%	5.21%	4.22%	26.19%	O/S
SMAHWAH2	345	WALDWICK	345 1	-234.8	0.06%	22.53%	15.85%	10.27%	TRIP	4.62%	4.86%	3.92%	25.08%	TRIP
5MILE345	345	26PIERCEBRK	345 1	-77.75	30.42%	2.60%	1.10%	1.46%	0.20%	TRIP	14.12%	6.28%	1.58%	1.67%
NY_HOMER_STO	345	26HOMER CY	345 Z1	183.26	18.12%	1.57%	0.68%	0.91%	0.12%	-55.33%	9.81%	1.11%	0.98%	1.03%
NY_PIERCEBRK	345	26PIERCEBRK	345 Z1	-181.8	-18.12%	-1.57%	-0.68%	-0.91%	-0.12%	55.33%	-9.81%	-1.11%	-0.98%	-1.03%
WATRC345	345	26MAINESBURG	345 1	25.9	28.17%	3.19%	1.34%	1.80%	0.25%	16.81%	TRIP	22.73%	1.92%	2.09%
NY_HOMER_WAT	345	26HOMER CY	345 Z1	100.81	24.15%	2.52%	1.11%	1.50%	0.21%	12.79%	-63.04%	8.75%	1.58%	1.73%
NY_MAINESBUR	345	26MAINESBURG	345 Z1	-100.25	-24.15%	-2.52%	-1.11%	-1.50%	-0.21%	-12.79%	63.04%	-8.75%	-1.58%	-1.73%
HILSD230	230	26E.TWANDA	230 1	16	25.38%	3.70%	1.35%	1.69%	0.24%	8.98%	27.31%	TRIP	1.94%	2.03%
SMAHWAH1	345	SMAH138	138 1	-110.22	0.18%	-0.50%	-0.88%	-0.60%	-3.38%	-0.43%	-0.46%	-0.39%	-1.39%	0.48%
FALCONER	115	26WARREN	115 1	0	0.00%	O/S	O/S	O/S	O/S	O/S	O/S	O/S	O/S	O/S
N.WAV115	115	26E.SAYRE	115 1	-9.37	8.60%	1.23%	0.45%	0.57%	0.08%	3.18%	8.55%	24.71%	0.65%	0.68%
WESTOVER115	115	26LAUREL L	115 1	-57.86	7.44%	1.14%	0.41%	0.52%	0.07%	1.44%	3.59%	8.70%	0.60%	0.63%
CORPORATE DR	138	HCOR138	138 1	-56.23	-0.01%	0.02%	-0.01%	-0.01%	0.04%	0.00%	0.00%	0.00%	-0.01%	0.02%
RAMP138	138	SMAH138	138 1	-72.54	-0.11%	0.50%	0.64%	0.43%	2.71%	0.29%	0.31%	0.26%	1.00%	-0.26%
BLUHILL	69.0	MONTVALE	69.0 1	3.44	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
BLUHILL	69.0	MONTVALE	69.0 2	3.44	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	-22.09	-0.14%	-0.01%	0.12%	0.07%	0.43%	0.14%	0.16%	0.13%	0.19%	-0.13%
L491T	69.0	MONTVALE	69.0 1	-25.48	0.02%	0.01%	0.04%	0.03%	0.10%	0.00%	0.00%	0.00%	0.06%	-0.02%
SPARKILL	69.0	CRESSKIL	69.0 1	-5.83	0.01%	-0.01%	0.02%	0.02%	0.02%	0.00%	0.00%	0.00%	0.03%	-0.02%
WNYA69	69.0	HCOR69	69.0 1	-0.36	0.05%	-0.03%	0.08%	0.07%	0.08%	0.00%	-0.01%	-0.01%	0.12%	TRIP
PEARL34	34.5	HCOR34	34.5 1	0.67	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-0.01%	0.00%
SUB-TOTALS					100.00%	93.77%	97.31%	96.40%	99.52%	62.95%	87.25%	91.32%	96.14%	96.01%
MICH-ON				-3.13	0.00%	5.82%	2.52%	3.37%	0.45%	34.81%	TRIP	8.14%	3.61%	3.80%
TOTALS					100.00%	99.59%	99.83%	99.77%	99.97%	97.76%	87.25%	99.45%	99.75%	99.81%

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

Monitered Element	CENTRAL-EAST	ONT-NYISO	ONTARIO-MICH	PJM-NYISO	WEST-CENTRAL	BBURG-RAMAPO	MARCY-SOUTH	UTICA-ALBANY
Base Flow	1464.84	-2.56	3.26	817.39	225.34	225.22	1362.48	1275.17
DUM1	41.88%	0.00%	0.00%	0.00%	84.85%	0.00%	29.12%	40.71%
DUM2	41.88%	0.00%	0.00%	0.00%	84.85%	0.00%	29.12%	40.71%
NIAGARA	41.88%	0.00%	0.00%	0.00%	84.85%	0.00%	29.12%	40.71%
OSWEGO	45.51%	0.00%	0.00%	0.00%	-1.60%	0.00%	36.82%	44.79%
GILBOA	0.05%	0.00%	0.00%	0.00%	0.19%	0.00%	2.37%	-0.26%
BETH	-18.15%	0.00%	0.00%	0.00%	-0.18%	0.00%	14.15%	-16.21%
ATHENS	-7.19%	0.00%	0.00%	0.00%	-0.04%	0.00%	6.59%	-7.07%
ROSETON	-0.11%	0.00%	0.00%	0.00%	0.00%	0.00%	0.11%	-0.11%
BOWLINE	1.83%	0.00%	0.00%	0.00%	0.01%	0.00%	-1.62%	1.77%
INDIANPT2	1.44%	0.00%	0.00%	0.00%	0.01%	0.00%	-1.27%	1.39%
BRAYTON	-10.22%	0.00%	0.00%	0.00%	-0.10%	0.00%	8.34%	-9.53%
SBRK	-10.74%	0.00%	0.00%	0.00%	-0.11%	0.00%	8.76%	-10.02%
BECK	42.23%	100.00%	0.00%	0.00%	87.15%	0.00%	29.85%	41.10%
CONEMAUGH	37.16%	0.00%	0.00%	100.00%	29.63%	0.00%	19.24%	35.44%
SALEM	37.08%	0.00%	0.00%	100.00%	28.45%	0.00%	19.07%	35.35%
PORTLAND	37.04%	0.00%	0.00%	100.00%	27.90%	0.00%	18.99%	35.31%
EDDYSTONE	37.08%	0.00%	0.00%	100.00%	28.42%	0.00%	19.07%	35.35%
BRANDON	37.13%	0.00%	0.00%	100.00%	29.16%	0.00%	19.17%	35.41%
KARNS	37.19%	0.00%	0.00%	100.00%	30.00%	0.00%	19.30%	35.48%
ZEEL	37.19%	0.00%	0.00%	100.00%	30.00%	0.00%	19.30%	35.48%
BOWEN	37.18%	0.00%	0.00%	100.00%	29.84%	0.00%	19.28%	35.46%
BAYSHORE	37.20%	0.00%	0.00%	100.00%	30.08%	0.00%	19.31%	35.48%
MTSTORM	37.17%	0.00%	0.00%	100.00%	29.66%	0.00%	19.25%	35.45%
HATFIELD	37.18%	0.00%	0.00%	100.00%	29.80%	0.00%	19.27%	35.46%
NEWTON	37.19%	0.00%	0.00%	100.00%	29.92%	0.00%	19.29%	35.47%
HOPATCONG-RAMAPO	6.20%	6.23%	-5.82%	-6.23%	5.57%	TRIP	5.33%	5.28%

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

Monitered Element	CENTRAL-EAST	ONT-NYISO	ONTARIO-MICH	PJM-NYISO	WEST-CENTRAL	BBURG-RAMAPO	MARCY-SOUTH	UTICA-ALBANY
Base Flow	1464.84	-2.56	3.26	817.39	225.34	225.22	1362.48	1275.17
DUM1	27.76%	-19.76%	18.55%	19.76%	52.69%	8.52%	18.67%	23.98%
DUM2	27.76%	-19.76%	18.55%	19.76%	52.69%	8.52%	18.67%	23.98%
NIAGARA	27.76%	-19.76%	18.55%	19.76%	52.69%	8.52%	18.67%	23.98%
OSWEGO	37.51%	-9.51%	8.90%	9.51%	-12.10%	3.33%	29.45%	33.52%
GILBOA	-4.67%	-4.37%	4.09%	4.37%	-4.16%	0.22%	-1.10%	-5.10%
BETH	-23.17%	-4.80%	4.48%	4.80%	-4.01%	0.20%	11.42%	-18.49%
ATHENS	-10.67%	-3.36%	3.14%	3.36%	-3.03%	-0.64%	4.16%	-10.26%
ROSETON	-1.89%	-1.61%	1.51%	1.61%	-1.46%	-2.31%	-0.99%	-1.77%
BOWLINE	1.48%	-0.07%	0.07%	0.07%	-0.09%	-5.74%	-1.43%	1.26%
INDIANPT2	1.14%	-0.06%	0.06%	0.06%	-0.08%	-4.58%	-1.11%	0.97%
BRAYTON	-15.30%	-3.59%	3.35%	3.59%	-2.46%	-0.39%	7.20%	-9.26%
SBRK	-16.62%	-3.85%	3.59%	3.85%	-2.53%	-0.28%	7.90%	-9.45%
BECK	28.04%	74.64%	23.81%	25.36%	49.07%	8.56%	19.04%	24.09%
CONEMAUGH	11.78%	10.58%	-9.92%	89.42%	10.09%	17.96%	5.52%	10.03%
SALEM	8.02%	6.74%	-6.30%	93.26%	5.99%	19.52%	3.14%	6.83%
PORTLAND	6.83%	4.87%	-4.55%	95.13%	4.33%	18.25%	2.30%	5.81%
EDDYSTONE	8.02%	6.69%	-6.25%	93.31%	5.95%	19.69%	3.13%	6.83%
BRANDON	10.84%	11.08%	-10.33%	88.92%	9.39%	18.42%	5.04%	9.22%
KARNS	16.47%	26.66%	-25.65%	73.34%	17.96%	15.28%	9.38%	13.97%
ZEEL	16.29%	26.02%	-24.93%	73.98%	17.66%	15.38%	9.23%	13.81%
BOWEN	13.98%	18.40%	-16.75%	81.60%	13.89%	16.66%	7.36%	11.87%
BAYSHORE	16.09%	24.89%	-24.10%	75.12%	17.27%	15.48%	9.04%	13.64%
MTSTORM	12.64%	14.45%	-13.48%	85.55%	11.80%	17.40%	6.31%	10.75%
HATFIELD	12.87%	14.25%	-13.33%	85.75%	11.97%	17.28%	6.43%	10.94%
NEWTON	14.70%	20.55%	-18.59%	79.45%	15.01%	16.26%	7.93%	12.47%
HOPATCONG-RAMAPO	6.20%	6.23%	-5.82%	-6.23%	5.57%	TRIP	5.33%	5.28%