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		37	0	83	0	-1310	-330	-660	-315	0	-100	120	-2481
PJM	-37		0	0	0	0	0	660	315	0	0	-1326	-388
IESO	0	0		0	0	-1250	0	0	0	0	0	0	-1250
ISONE	-83	0	0		-800	-1725	330	0	0	0	100	0	-2178
NB/NS	0	0	0	800		-883	0	0	0	0	0	0	-83
Trans Énergie	1310	0	1250	1725	883		0	0	0	0	0	45	5213

APPENDIX A *SUMMARY OF SUMMER 2024 BASE TRANSFERS*	
NEW BRUNSWICK/NOVA SCOTIA	
New Brunswick to TransÉnergie: Madawaska and Eel River HVdc	-785
New Brunswick to New England	800
Total Export (+) / Import (-)	**15**

NEW ENGLAND	
New England to New Brunswick	-800
New England to TransÉnergie: Sandy Pond HVdc	-1500
New England to TransÉnergie: Vermont	-225
New England to New York	-83
New England to NY: Norwalk Harbor-Northport	100
New England to NY: Cross-Sound	330
Total Export (+) / Import (-)	**-2178**

NEW YORK ISO	
New York to TransÉnergie	-1310
New York to New England	83
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	75
New York to PJM: Sithe Allegheny	-37
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	0
New York to MISO: NYPA to AMP- Ohio	120
New York to IESO (Ontario)	0
Total Export (+) / Import (-)	**-1154**

APPENDIX A *SUMMARY OF SUMMER 2024 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	-75
PJM to New York: Sithe Allegheny	37
PJM to New York: Non Firm Energy	0
PJM to New York: Neptune HVdc	660
PJM to New York: Linden VFT	315
PJM to New York: HTP	0
Miscellaneous Transfers to Other Areas	-1326
Total Export (+) / Import (-)	**-389**

TRANSÉNERGIE	
TransÉnergie to New Brunswick: Madawaska and Eel River HVdc	785
TransÉnergie to New England: Sandy Pond HVdc	1500
TransÉnergie to New England: Vermont	225
TransÉnergie to New York	1310
TransÉnergie to IESO (Ontario)	1250
TransÉnergie to Cornwall	45
Total Export (+) / Import (-)	**5115**

Appendix B – SUMMER 2024 BASE CASE CONDITIONS

Summer 2024 Conditions

GENERATION FACILITIES (LEVEL OF GENERATION IN CASE)

The status and dispatch level of generation represented in this analysis are 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

Chateauguay HVdc	825 MW	In Service
Sandy Pond HVdc	1500 MW	In Service
Highgate HVdc	223 MW	In Service
Madawaska HVdc	360 MW	In Service
Eel River HVdc	299 MW	In Service

AREA LOADS & LOSSES

NYISO	31,618 MW
ISO-NE	24,739 MW
IESO (Ontario)	24,463 MW
PJM	56,955 MW

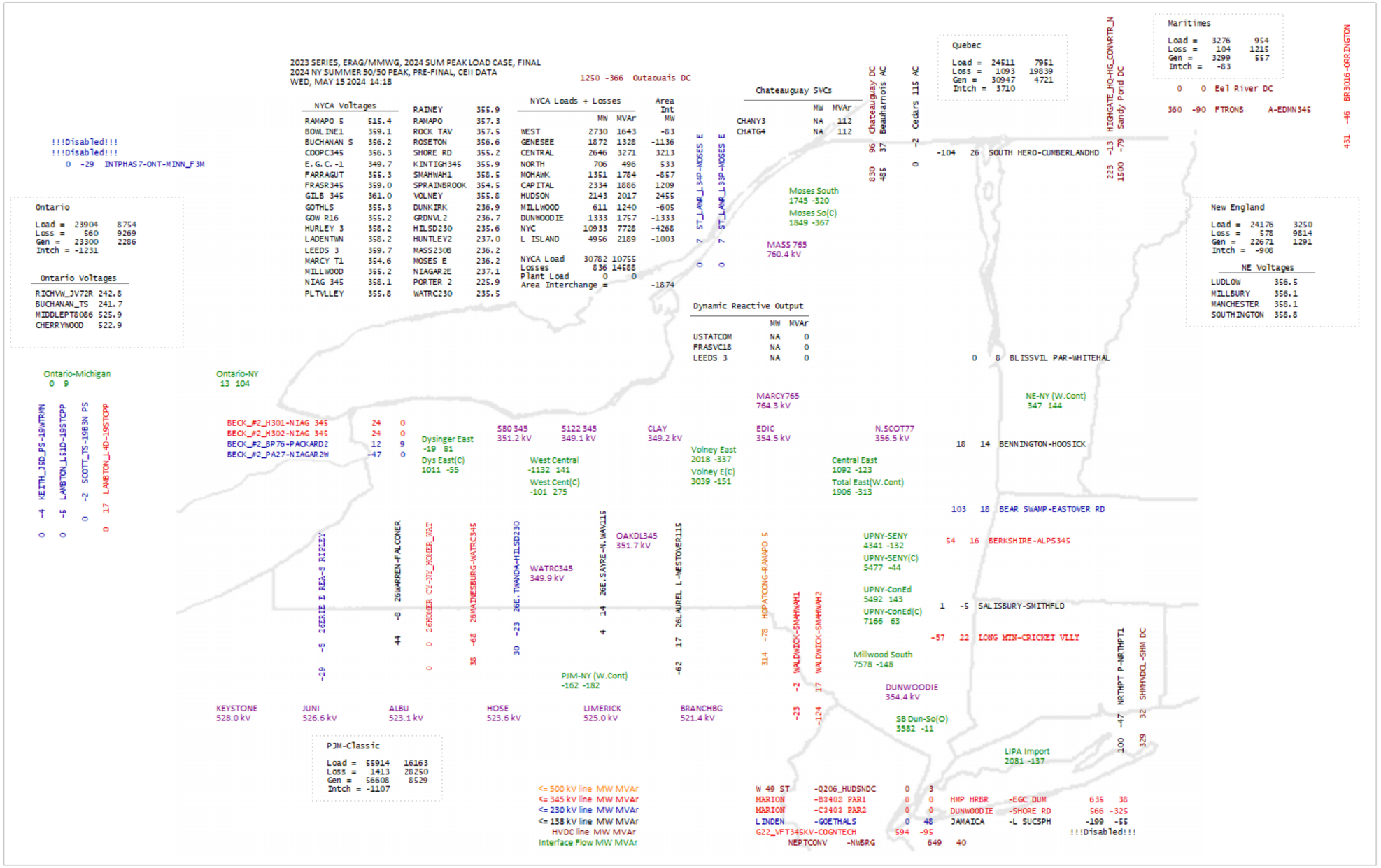
PHASE ANGLE REGULATOR SCHEDULES

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)	0 MW	Out-of-Service
Marion-Farragut (C3403)	0 MW	Out-of-Service
Linden-Goethals	0 MW	
Waldwick-Hinchmans	0 MW	
Waldwick-Fairlawn	0 MW	
Waldwick-Hillsdale	0 MW	
Ramapo PAR #1 (+ to NY)	157 MW	
Ramapo PAR #2 (+ to NY)	157 MW	

East Garden City #1	317 MW
East Garden City #2	317 MW

Appendix C – POWER FLOW TRANSCRIPTION DIAGRAM

SYSTEM OVERVIEW



Appendix D – RATINGS OF MAJOR TRANSMISSION FACILITIES IN NEW YORK

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
ACADEMY__138A_138B_PAR1	PAR1	138	251	312	372	325751	150
ACADEMY__138A_138B_PAR8	PAR8	138	251	312	372	325750	151
ACADEMY__345_138_TR1	T1	345	227	284	328	325753	150
ACADEMY__345_138_TR8	T8	345	227	284	328	325752	150
ADIRNDCK_230_115_BK 1	AT1	230	115	144	172	26697	79
ADIRNDCK-CHASLAKE_230_13	13	230	440	478	560	325233	45
ADIRNDCK-PORTER___230_12	12	230	440	478	560	25082	263
ALBANY__-GREENBSH_115_1	1	115	237	293	354	25860	143
ALBANY__-GREENBSH_115_2	2	115	237	293	354	25868	143
ALBANY__-TRINITY__115_5	5	115	198	244	280	25861	171
ALBANY__-TRINITY__115_9	9	115	147	178	258	25872	76
ALCOA___-BRADY____115_13	13	115	128	147	159	25230	19
ALCOA___-DENNISON_115_12	12	115	254	276	345	25227	40
ANDOVER_-PALMITER_115_157-932	157-932	115	79	101	119	25094	3
ARCADE__-MACHIAS__115_167	167	115	129	148	160	326168	21
ASHLEYRD-MASONCR__115_909	909	115	155	179	193	25847	20
ASHLEYRD-PLATSBRG_115_700	700	115	174	193	220	25845	42
ASTANNEX_138A_138B_PAR1	PAR1	138	347	416	464	325848	75
ASTANNEX_345_138_TR1	TR1	345	268	335	393	325847	75
ASTANNEX-ASTORIAE_138_34091	34091	138	236	272	304	325849	75
ASTANNEX-E13THSTA_345_Q35L	Q35L	345	320	565	1476	25134	209
ASTANNEX-E13THSTA_345_Q35M	Q35M	345	320	565	1476	25142	230
ASTORIAE-CORONA___138_34181	34181	138	174	235	368	25277	121
ASTORIAE-CORONA___138_34182	34182	138	174	235	368	25278	116
ASTORIAE-CORONA___138_34183	34183	138	174	235	368	25279	120
ASTORIAE-CORONA___138_34184	34184	138	174	235	368	25280	112
ASTORIAE-CORONA___138_34185	34185	138	174	235	368	25281	107
ASTORIAE-CORONA___138_34186	34186	138	174	235	368	25282	109
ASTORIAW-QUENBRDG_138_28241	28241	138	174	235	368	25315	72
ASTORIAW-QUENBRDG_138_28242	28242	138	174	235	368	25316	74
ASTORIAW-QUENBRDG_138_28243	28243	138	348	469	688	25317	136

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
ASTORIAW-QUENBRDG_138_28244	28244	138	363	525	688	25318	156
ATHENS__-VNWAGNER_345_91	91	345	1331	1538	1724	25054	815
BABBITSC-LIGHTHSE_115_6	6	115	116	120	145	25506	17
BABYLON_-BRGHTWTR_69__771	771	69	142	155	178	327240	23
BAGATLRD-PILGRIM__138_564	564	138	492	540	618	325607	55
BARRETT__138A_138B_PAR	PAR	138	185	272	327	25590	105
BARRETT_-FREEPORT_138_459	459	138	185	272	327	26425	105
BATAVIA_-SEBATVIA_115_117	117	115	220	239	239	26017	14
BATH____-MONTRFL__115_965	965	115	124	139	159	26163	12
BATH____-SPENCHIL_115_723	723	115	125	151	191	325797	19
BEAR SWP-EASTOVER_230_E205W	E205W	230	440	505	555	25030	105
BECK____-NIAGARA__230_PA27	PA27	230	400	460	558	25025	48
BECK____-NIAGARA__345_PA301	PA301	345	1070	1322	1714	25040	25
BECK____-NIAGARA__345_PA302	PA302	345	1070	1322	1714	25041	25
BECK____-PACKARD__230_BP76	BP76	230	500	587	616	25024	13
BENNETT_-MORAINE__115_725	725	115	125	152	179	325858	27
BENNETT_-SPENCHIL_115_953	953	115	181	209	231	26164	14
BERKSHIR-ALPS_____345_393	393	345	1463	1697	1912	25034	56
BETHLHEM-ALBANY___115_18	18	115	329	369	423	26119	82
BIGTREE_-DAVIS_RD_115_904	904	115	139	163	183	25162	25
BIGTREE_-GARDNVLB_115_902	151	115	187	215	232	26040	2
BIGTREE_-LANGNERD_115_903	903	115	227	251	285	326050	9
BLACKRVR-CARTHAGE_115_1	1	115	116	120	145	26067	53
BLACKRVR-EWATRTWN_115_5	5	115	116	120	145	325771	19
BLACKRVR-FORTDRUM_115_2	2	115	116	120	145	26068	15
BLACKRVR-MIDDLERD_115_8	8	115	116	120	145	326703	25
BLISSVIL-WHITEHAL_115_K7	K7	115	187	217	229	25028	0
BNNINGTN-HOOSICK__115_K6	K6	115	150	217	239	25029	18
BOONVLLE-BNVLMUNI_115_2	2	115	96	96	96	26073	5
BOONVLLE-STITVILE_115_1	1	115	100	100	100	625016	25
BOONVLLE-TURIN_RD_115_3	3	115	116	120	145	26071	48
BORDRCTY-GUARDIAN_115_969	969	115	239	239	239	325283	60
BOWLINE__345_138_BK455	BK 455	345	195	272	343	25664	175
BOWLINE_-WHAVSTRW_345_67-1	67	345	687	747	747	25567	573

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
BOWLINOR-CONGERS__138_561	561	138	191	230	383	26723	157
BRANCOMB-SCHAGCKT_115_310	10	115	186	214	237	26474	31
BRENTWOD-PILGRIM__69__765	765	69	236	259	266	26536	51
BRENTWOD-PILGRIM__69__768	768	69	83	96	102	26534	40
BRISTLHL-WHITAKER_115_4	4	115	105	114	134	25512	55
BROOKHVN-EDWARDAV_138_864	864	138	277	438	561	25553	120
BROOKHVN-SILLSRD__138_874	874	138	396	482	569	325617	130
BROOKHVN-SILLSRD__138_887	887	138	396	482	569	325619	129
BROOKHVN-WILDWOOD_138_861	861	138	434	480	586	325932	50
BROWNFLS-TAYLORVL_115_3	3	115	102	120	135	26076	57
BROWNFLS-TAYLORVL_115_4	4	115	102	120	142	26077	57
BUCHAN_N_345_138_BK TA5	BK TA5	345	195	272	343	25425	87
BUCHAN_N-BUCHANAN_138_95891	95891	138	225	273	345	25568	86
BUCHAN_N-EASTVIEW_345_W93	W93	345	1722	1894	2404	25133	808
BUCHAN_S-MILLWOOD_345_W97	W97	345	1490	1664	1876	25146	510
BUCHAN_S-MILLWOOD_345_W98	W98	345	1490	1664	1876	25247	510
BUCHANAN-MILLWOOD_138_96951	96951	138	275	302	383	25283	5
BUCHANAN-MILLWOOD_138_96952	96952	138	275	302	383	25284	5
BURNS___-N.HEMPST_138_531	531	138	222	270	285	25878	29
BURNS___-OAKSTRET_138_702	702	138	189	217	226	325812	93
BURNS___-WHAVSTOR_138_541	541	138	222	270	285	25879	107
BUTLER__-MOHICAN__115_18	18	115	116	120	145	26434	23
C._ISLIP-RONKOKMA_138_883	883	138	401	540	618	26497	61
CANAL___-RIVRHEAD_138_910	910	138	206	248	284	325242	101
CANAL___-RIVRHEAD_138_911	911	138	190	229	262	327371	94
CANANDGA-STONYRDG_230_68	68	230	498	534	566	25176	20
CARMEL__-UNIONVAL_115_991	991	115	216	227	261	26155	78
CARMEL__-WOODSTNY_115_900	900	115	210	227	261	326880	56
CARMEL__-WOODSTNY_115_992	992	115	215	246	269	325278	55
CARR_ST_-DEWITT___115_15	15	115	187	213	236	26093	4
CASTLEGD-FULLRHLW_115_937	937	115	248	286	319	325222	10
CATON___-HILLSIDE_115_960	960	115	125	151	155	325290	37
CEDAR___-BURGOYNE_115_6	6	115	116	120	145	26516	37
CEDARS__-ROSEMNTA_115_1/11	1/11	115	176	203	223	26083	2

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
CEDARS__-ROSEMNTB_115_2/22	2/22	115	176	203	223	26082	2
CEDRHRST-HEWLETT__69__263	263	69	114	132	146	326318	1
CHADWICK-E.WALDEN_115_DW	DW	115	176	194	221	26218	69
CHADWICK-WBALMVLE_115_DW	DW	115	176	194	221	26217	50
CHASLAKE-PORTER___230_11	11	230	440	505	516	25051	0
CHAT_TAP-LYON_MTN_115_1(911)	1(911)	115	135	159	175	325704	0
CHATGUAY-MASSENA__765_7040	7040	765	3975	4839	5300	25301	1305
CHEMUNG_-NWAVERLY_115_962	962	115	107	128	145	325289	19
CHESTROR-SUGRLOAF_138_271	271	138	236	270	285	325424	35
CHRCHTWN-BLUESTOR_115_4	4	115	221	256	287	327496	53
CHRCHTWN-CRARYVIL_115_984	984	115	248	286	326	26500	22
CHRCHTWN-CRARYVIL_115_984	984	115	248	286	326	26500	22
CHRCHTWN-HUDSON___115_12	12	115	8888	8888	8888	327503	35
CHRCHTWN-LAFARGE__115_8	8	115	116	120	145	327497	57
CHRCHTWN-NCATSKLL_115_5	5	115	129	183	220	327495	18
CLAY_____345_115_BK 1	BK 1	345	455	606	794	25387	247
CLAY_____345_115_BK 2	BK 2	345	478	637	794	25421	247
CLAY____-BARTELRD_115_10	10	115	233	253	317	25520	108
CLAY____-BARTELRD_115_3	3	115	220	252	280	25519	81
CLAY____-COLAMCRS_115_5	5	115	219	252	280	25522	49
CLAY____-DEWITT___345_13	13	345	1109	1344	1529	25168	431
CLAY____-EDIC_____345_1-16	1-16	345	1301	1501	1685	25200	305
CLAY____-EDIC_____345_2-15	2-15	345	1301	1501	1685	25169	306
CLAY____-EUCLID___115_11	11	115	220	252	280	25516	113
CLAY____-EUCLID___115_17	17	115	220	252	280	25515	87
CLAY____-INDPDNCE_345_26	26	345	1670	1931	2210	25858	993
CLAY____-WETZEL___115_14	14	115	220	252	280	25517	85
CLINTON_-IMC_TAP__115_15	15	115	116	120	145	26128	10
CLOSTER_-SPARKL___69__751	751	69	118	135	142	26504	3
CLRKSCRN_345_115_BK1	BK 1	345	235	255	295	325724	86
CLRKSCRN_345_115_BK2	BK 2	345	235	255	295	325725	86
CLRKSCRN-OAKDALE__345_36	36	345	1207	1327	1590	325726	574
CODINGTN-E.ITHACA_115_981	981	115	221	260	304	25730	3
CODINGTN-ETNA_____115_998	998	115	216	227	258	25734	52

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
COFFEEN_-EWATRTWN_115_5	5	115	152	152	152	325769	28
COFFEEN_-GLENPARK_115_3	3	115	119	119	119	26069	52
COLDENHM-ROCKTVRN_115_J	J	115	232	257	304	26420	2
COLDSPRG-CARRSCRN_115_905	905	115	36	40	42	26440	12
COLLIERS-RICHFELD_115_929	929	115	125	152	215	26169	2
COLTON__-FLATROCK_115_2	2	115	114	123	142	26088	57
COLTON__-HIGLEY___115_1	1	115	128	147	156	26087	56
COLTON__-LITTLRIV_115_7	7	115	76	87	94	26086	0
COLTON__-TOWNLINE_115_9	9	115	109	109	109	325641	21
CONGERS_-SNKEHLRD_138_563	563	138	212	270	285	25887	116
COOPERNY-FERNDALE_115_950	950	115	176	179	179	26171	54
COOPERNY-ROCKHILL_115_957	957	115	119	119	119	325614	36
COOPERS__345_115_BK 2	BK 2	345	219	239	239	25433	70
COOPERS__345_115_BK 3	BK 3	345	220	239	239	25434	70
COOPERS_-DOLSONAV_345_CCDA42	CCDA42	345	1793	1793	1793	25111	411
COOPERS_-MIDDLETP_345_CCRT34	CCRT34	345	1464	1792	1792	25110	675
CORONA__-JAMAICA__138_18001	18001	138	143	212	357	25285	45
CORONA__-JAMAICA__138_18002	18002	138	143	212	357	25286	45
CORONA__-RAINEY___138_36187	36187	138	296	374	521	326894	0
CORPDRIV-HARNGCRN_138_703	703	138	135	164	206	25881	60
CORTLAND-LABDELFE_115_3	3	115	176	207	207	325248	2
CORTLAND-TULLYCTR_115_18	18	115	176	211	239	26089	48
CRICKVLY-PLSNTVLY_345_F83	F83	345	1135	1313	1596	326887	422
CRICKVLY-PLSNTVLY_345_F84	F84	345	1260	1893	2091	326888	545
CURRY_RD-LINE8TAP_115_8	8	115	116	120	145	26254	14
DANSKAMR-CHADWICK_115_DW	DW	115	217	250	279	26219	119
DANSKAMR-MARLBORO_115_DB	DB	115	183	215	237	26221	0
DANSKAMR-NCHELSEA_115_AC	AC	115	183	248	295	25829	129
DANSKAMR-NCHELSEA_115_DC	DC	115	178	199	295	25830	134
DANSKAMR-RYNDS_HL_115_DR	DR	115	183	248	279	25831	101
DAVIS_RD-STOLLERD_115_927	927	115	239	239	239	26172	52
DELHI___-DELHI_TP_115_951	951	115	227	251	255	26174	50
DELHI_TP-COLLIERS_115_951	951	115	239	239	239	26203	50
DENNISON-LAWRNCAV_115_5	5	115	220	252	280	25226	19

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
DENNISON-NORFOLK__115_4	4	115	220	252	280	25225	20
DEPOSIT_-INDIANHD_69__675	675	69	100	120	130	325971	35
DEWITT___345_115_BK 1	BK 1	345	318	318	318	325221	208
DEWITT___345_115_BK 2	BK 2	345	318	318	318	25418	209
DEWITT__-BUTERNUT_115_4	4	115	116	120	145	26094	31
DOLSONAV-ROCKTVRN_345_DART44	DART44	345	1793	1990	2195	326310	1042
DULEY___-PATNODE__230_PND-1	PND-1	230	397	476	504	325856	5
DULEY___-PLATSBRG_230_DP-1	DP-1	230	249	281	318	25272	5
DUNKIRK__230_115_BK 31	BK 31	230	139	197	248	25386	38
DUNKIRK__230_115_BK 41	BK 41	230	133	190	248	25430	38
DUNKIRK_-BERRY_RD_115_160	160	115	193	213	239	26025	20
DUNKIRK_-BRIGHAM__115_161	161	115	168	181	206	26021	24
DUNKIRK_-BRIGHAM__115_162	162	115	168	185	206	26027	16
DUNWODIE_138__138__BK N1	BK N1	138	315	375	433	25624	115
DUNWODIE_138__138__BK N2	BK N2	138	194	293	400	25623	115
DUNWODIE-DUNWOODN_345_W74	W74	345	411	494	554	326212	291
DUNWODIE-DUNWOODS_345_W73	W73	345	424	512	590	326211	270
DUNWODIE-E179THST_138_99153	99153	138	233	348	617	25287	180
DUNWODIE-MOTTHAVN_345_71	71	345	707	833	1298	25151	562
DUNWODIE-MOTTHAVN_345_72	72	345	707	833	1298	25191	561
DUNWODIE-SHERMCRK_138_99031	99031	138	139	187	303	25193	115
DUNWODIE-SHERMCRK_138_99032	99032	138	189	288	393	25239	115
DUNWODIE-SHORE_RD_345_Y50	Y50	345	600	862	1526	25091	569
DUNWOODN_345_138_BK N1	BK N1	345	411	494	554	25209	291
DUNWOODS_138_138_PAR S1	BK S1	138	310	442	540	25626	180
DUNWOODS_345_138_BK S1	BK S1	345	424	512	590	25208	271
DUNWOODS-DUNWOODN_138_99997	99997 TIE	138	205	255	311	25532	15
DYSINGER_345A_345B_1T3521_PAR	PAR	345	700	874	874	327480	399
DYSINGER-ESTOLERD_345_DES1	DES1	345	700	874	874	327465	399
DYSINGER-KINTIGH__345_38	38	345	1649	1780	2007	25074	46
DYSINGER-KINTIGH__345_39	39	345	1195	1195	1195	327246	49
DYSINGER-STA_255__345_DH1	DH1	345	1301	1501	1685	327457	81
DYSINGER-STA_255__345_DH2	DH2	345	1301	1501	1685	327458	81
E.ITHACA-ETNA_____115_732	732	115	107	128	145	25733	42

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
E.SAYRE_-NWAVERLY_115_956	956	115	107	127	127	25013	4
E.TWANDA-HILLSIDE_230_70	70	230	489	549	630	25014	30
E.WALDEN-COLDENHM_115_CW	CW	115	232	257	304	26225	24
E.WALDEN-MODENA___115_EM	EM	115	232	257	304	25832	0
E.WALDEN-ROCKTVRN_115_D	D	115	233	265	312	26226	18
E13THSA_E13THSA_138_37371	37371	138	296	485	793	325707	89
E13THSTA_138_69__TR 9	BK9	138	147	188	235	26488	0
E13THSTA_345_138_BK 10	BK 10	345	273	288	315	25467	105
E13THSTA_345_138_BK 11	BK 11	345	273	288	315	25468	112
E13THSTA_345_138_BK 12	BK 12	345	274	312	343	25463	112
E13THSTA_345_138_BK 13	BK 13	345	258	320	368	25464	111
E13THSTA_345_138_BK 14	BK 14	345	251	280	305	25465	112
E13THSTA_345_138_BK 15	BK 15	345	260	321	361	25466	101
E13THSTA_345_138_BK 16	BK 16	345	270	304	338	25469	112
E13THSTA_345_69__BK 17	BK 17	345	247	321	409	25459	0
E13THSTA-FARRAGUT_345_45	45	345	745	913	1339	25190	129
E13THSTA-FARRAGUT_345_46	46	345	760	927	1350	25251	133
E13THSTA-FARRAGUT_345_48	48	345	554	740	1150	25252	13
E13THSTA-FARRAGUT_345_B47	B47	345	358	645	1011	25177	96
E179THST-HELLGATE_138_15055	15055	138	210	301	384	25288	303
E179THST-HELLGT_E_138_15053	15053	138	165	229	364	25289	34
E179THST-HELLGT_E_138_15054	15054	138	165	229	364	25290	34
E179THST-PARKCHTR_138_38X01	38X01	138	169	288	501	25327	25
E179THST-PARKCHTR_138_38X02	38X02	138	169	288	501	25328	25
E179THST-PARKCHTR_138_38X03	38X03	138	169	288	501	25329	2
E179THST-PARKCHTR_138_38X04	38X04	138	169	288	501	25330	2
EASTOVER_230_115_BK1	BK 1	230	381	494	666	326097	84
EASTOVER_230_115_BK2	BK 2	230	381	494	666	326403	90
EASTRIVR_138_69__BK 111	BK111	138	76	108	159	25526	2
EASTRIVR_138_69__BK 112	BK112	138	76	108	159	25527	0
EASTRIVR_138_69__BK 113	BK113	138	76	108	159	25528	2
EASTRIVR_138_69__BK 114	BK114	138	76	108	159	25529	2
EASTVIEW_345_138_BK 1N	BK 1N	345	408	485	532	25472	170
EASTVIEW_345_138_BK 1S	BK 1S	345	389	480	538	25373	166

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
EASTVIEW_345_138_BK 2N	BK 2N	345	406	480	532	25471	147
EASTVIEW_345_138_BK 2S	BK 2S	345	408	485	532	25470	169
EASTVIEW-SPRNBRK__345_W64	W64	345	2296	2658	3202	25143	658
EASTVIEW-SPRNBRK__345_W65	W65	345	1720	2215	2657	25144	844
EASTVIEW-SPRNBRK__345_W78	W78	345	2296	2658	3202	25346	794
EASTVIEW-SPRNBRK__345_W79	W79	345	1720	2215	2657	25153	795
EBATAVIA-NO.LEROY_115_119	119	115	139	160	173	26012	16
EDIC_____345_115_BK4	BK 4	345	505	629	794	25454	111
EDIC_____345_230_BK2	BK 2	345	479	562	683	25422	11
EDIC_____-FRASER___345_EF24-40	EF24-40	345	1793	1793	1793	25112	647
EDIC_____-GORDONRD_345_14	14	345	1331	1538	1724	327482	422
EDIC_____-PRINCTWN_345_351	351	345	2022	2022	2022	625077	463
EDIC_____-PRINCTWN_345_352	352	345	2022	2022	2022	625078	463
EDIC_PTR_230_115_BK 1P	BK 1	230	269	320	338	25389	126
EDIC_PTR_230_115_BK 2P	BK 2	230	269	320	338	25423	126
EDIC_PTR_345_115_BK 3E	BK 3	345	455	539	679	25424	111
EDWARDAV-RIVRHEAD_138_893	893	138	260	300	336	325654	100
EELPOTRD-MEYER_____115_724	724	115	112	131	143	325288	8
EFISHKIL_345_115_BK 1	BK 1	345	412	522	530	25724	88
EFISHKIL_345_115_BK 2	BK 2	345	450	505	560	325845	0
EFISHKIL-WOOD_ST__345_F38	F38	345	1839	2157	2656	25367	1101
EFISHKIL-WOOD_ST__345_F39	F39	345	1839	2457	2656	25368	1171
EGRDNCTY_345_138_AT1	AT1	345	428	513	641	25551	317
EGRDNCTY_345_138_AT2	AT2	345	428	513	641	25552	317
EGRDNCTY_345C_345A_PAR1	PAR1	345	428	599	787	25678	317
EGRDNCTY_345C_345B_PAR2	PAR2	345	428	599	787	25679	317
EGRDNCTY-CARLPLCE_138_361	361	138	254	294	328	25533	62
EGRDNCTY-CNTYLPRS_69_361	361	69	131	131	131	325824	27
EGRDNCTY-NEWBRDGE_138_462	462	138	203	281	493	25303	30
EGRDNCTY-NEWBRDGE_138_463	463	138	171	287	350	25304	30
EGRDNCTY-NEWBRDGE_138_465	465	138	199	292	354	25535	39
EGRDNCTY-ROSLYN___138_362	362	138	250	288	322	25534	26
EKINGSTN-RHINEBCK_115_ER	ER	115	176	194	221	26222	23
ELBRIDGE_345_115_BK 1	BK 1	345	470	557	717	25448	346

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
ELBRIDGE-GRS_LOCK_115_19	19	115	116	120	145	26097	17
ELBRIDGE-GRS_LOCK_115_3	3	115	143	143	143	26098	21
ELBRIDGE-LAKELAND_115_4	4	115	156	179	195	325316	27
ELBRIDGE-MILTON_C_115_18	18	115	129	136	136	26095	17
ELBRIDGE-STATE_ST_115_5-972	5-972	115	185	224	254	25107	117
ELBRIDGE-STATE_ST_115_6-710	6-710	115	237	249	287	326377	91
ELM_ST__-SENECA___230_71	71	230	223	254	262	26426	23
ELM_ST__-SENECA___230_72	72	230	223	254	262	26427	23
ELWOOD__-PULASKLI_69__670	670	69	100	120	130	26610	58
ENDICOTT-RANGEHL__115_920	920	115	202	226	239	26158	21
ENDICOTT-ROBBLEAV_115_948	948	115	249	263	263	26159	48
ENORWICH-CTYLINE__115_918	918	115	125	152	179	325280	37
ENORWICH-CTYLINE__115_918	918	115	125	152	179	325280	37
ENORWICH-CTYLINE__115_918	918	115	125	152	179	325280	37
ENORWICH-JENNISON_115_946	946	115	80	110	131	25729	45
ERIE E__-S.RIPLEY_230_69	69	230	501	607	637	25016	30
ERIE_ST_-PAVMNTRD_115_926	926	115	215	240	268	26175	72
ESTOLERD-STOLLERD_345_28	28	345	800	800	800	327463	311
ETNA____-CLRKSCRN_115_715	715	115	226	237	273	325728	111
ETNA____-CLRKSCRN_115_947	947	115	176	185	203	325727	56
ETNA____-WILLET___115_945	945	115	127	147	159	25731	46
FAIRFIEL-INGHAM_C_115_3	3	115	105	114	134	26106	58
FALCONER-SOUTHDOW_115_153	153	115	129	148	160	26033	11
FALCONER-SOUTHDOW_115_154	154	115	129	148	160	26032	2
FALLSPRK-VALKIN___115_19-730	19-730	115	186	214	237	326940	69
FARRAGUT_345B_345A_TR11	TR11	345	497	705	930	25044	0
FARRAGUT_345C_345A_TR12	TR12	345	503	699	930	25043	0
FARRAGUT-GOWANUS__345_41	41	345	636	834	1303	25141	535
FARRAGUT-GOWANUS__345_42	42	345	636	834	1303	25140	535
FARRAGUT-HUDS_AVE_138_32077	32077	138	102	136	148	25291	21
FARRAGUT-HUDS_AVE_138_32711	32711	138	108	144	159	25293	21
FARRAGUT-PLYMTHST_138_32078	32078	138	108	144	157	25292	21
FARRCKWY-CEDRHRST_69__256	256	69	114	132	146	26566	13
FARRCKWY-WOODMERE_69__259	259	69	89	112	118	26597	10

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
FERNDALE-WWDBURNY_115_959	959	115	90	90	90	26180	18
FEURABSH-GREENBSH_115_17	17	115	176	197	248	25862	56
FEURABSH-NCATSKLL_115_2	2	115	116	120	145	25067	72
FISHKPLN-EFISHKIL_115_HF	HF	115	255	294	333	26227	49
FISHKPLN-SYLVANLK_115_FP/990	FP/990	115	203	226	239	25066	125
FITZPTRK-EDIC_____345_FE-1	FE-1	345	1434	1434	1661	25077	665
FIVEMILE_345_115_BK1	BK 1	345	538	597	597	326175	120
FIVEMILE-ESTOLERD_345_29	29	345	1195	1195	1195	327464	87
FLATSTR_-EELPOTRD_115_722	722	115	112	131	143	325287	6
FORGEBRK-MERTPARK_115_WF	WF	115	176	211	240	26229	56
FORTORNG-SCHODACK_115_14	14	115	186	214	237	326937	84
FOXHILLS-WILLWBRK_138_29211	29211	138	182	262	439	25771	129
FOXHILLS-WILLWBRK_138_29212	29212	138	182	262	439	25772	118
FRASER___345_115_BK 2	BK 2	345	308	378	420	25391	83
FRASER__-COOPERS__345_33	33	345	1494	1721	1793	25236	521
FRASER__-GILBOA___345_GF5-35	GF5-35	345	1428	1605	1793	25060	61
FRASERNY-DELHI_TP_115_951	951	115	251	255	255	26202	50
FREEPORT-NEWBRDGE_138_461	461	138	221	286	336	25155	148
FRESHKLS_138C_138A_R1 _ 21191	PSR 1	138	309	371	407	25639	200
FRESHKLS_138C_138B_R2 _ 21192	PSR 2	138	279	369	415	25640	200
FRESHKLS_345_138_TA 1	TA 1	345	309	371	407	25457	201
FRESHKLS_345_138_TB 1	TB 1	345	314	376	415	25458	200
FRONT_ST-ROSA_RD__115_11	11	115	200	239	239	26274	78
FROST_RD-MEYER____230_87	87	230	430	493	549	625082	28
FTZPK_NM-LIGHTHSE_115_3	3	115	101	105	131	25502	27
FULLRHWL-MORGANRD_115_937	937	115	239	239	239	325223	2
GALEVILE-KERHONKS_69__GK	GK	115	117	117	117	326089	9
GARDNVLA_230_1___BK6P	BK 6	230	304	343	365	25405	60
GARDNVLA_230_1___BK7P	BK 7	230	202	253	300	25435	68
GARDNVLA-GIRDLERD_115_705	705	115	215	239	239	25116	60
GARDNVLA-LANGNERD_115_903	903	115	249	255	255	325284	29
GARDNVLA-STOLLERD_230_66	66	230	474	574	665	25180	133
GARDNVLB_230_115_TR 2	BK 2	230	348	444	666	25385	59
GARDNVLB_230_115_TR 3	BK 3	230	382	462	462	25416	39

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
GARDNVLB_230_115_TR 4	BK 4	230	382	454	462	25417	58
GARDNVLB-BETHWEST_115_149	149	115	200	217	260	325317	18
GARDNVLB-BETHWEST_115_150	150	115	200	217	260	325318	0
GARDNVLB-COBBLENM_115_152	152	115	187	215	232	26023	2
GARDNVLB-DUNKIRK__230_74	74	230	505	505	505	25197	29
GARDNVLB-GARDNVLA_115_T1012	T10	115	308	308	308	25085	50
GARDNVLB-GARDNVLA_115_T1112	T11	115	302	328	423	326149	50
GARDNVLB-GARDNVLA_230_T8-12	T8-12	230	662	689	689	25089	4
GARDNVLB-METALICO_115_141	141	115	221	232	232	26038	30
GARDNVLB-METALICO_115_142	142	115	221	237	237	26037	29
GARDNVLB-STEBBINS_230_73	73	230	556	584	601	25166	0
GARDNVLB-WALDENNG_115_54-921	54-921	115	187	215	236	26035	22
GE_R_D__-GROOMS___115_20_15	20	115	200	217	260	26266	18
GE_R_D__-GROOMS___115_20_15	20	115	200	217	260	26266	18
GILBOA__-LEEDS____345_GL3	GL3	345	1428	1605	1971	25219	398
GILBOA__-N.SCTLND_345_GNS-1	GNS-1	345	1428	1605	1866	25052	31
GINNA___-PANNELRG_115_912	912	115	227	251	264	25260	40
GINNA___-S124_____115_913	913	115	218	228	261	26281	148
GINNA___-STA_135__115_909	909	115	226	249	269	325837	75
GINNA___-STA_135__115_937	937	115	244	281	318	325838	75
GINNA___-STA_204__115_908	908	115	252	302	355	26282	82
GINNA___-STA_204__115_911	911	115	251	300	354	26283	159
GIRDLERD-STOLLERD_115_706	706	115	202	226	239	325161	100
GLDNBRGD-CROTONFL_115_991	991	115	215	247	275	326416	8
GLENWDGT-ROSLYN___138_364	364	138	285	314	364	25556	18
GLENWOOD-CARLPLCE_138_363	363	138	253	311	343	25554	5
GLENWOOD-GLENWDGT_138_366	366	138	285	314	364	25555	31
GOETHALS_345_1___BK1P	BK 1	345	709	957	1052	325129	2
GOETHALS_345A_345B_BK 1N	BK 1N	345	688	843	1056	25641	2
GOETHALS-FRESHKLS_345_21	21	345	919	1006	1286	25138	9
GOETHALS-FRESHKLS_345_22	22	345	981	1390	1602	25137	9
GOETHALS-LINDN_CG_345_G23L	G23L	345	672	893	1630	26000	383
GOETHALS-LINDN_CG_345_G23M	G23M	345	672	893	1630	325203	383
GOLAH___-MORTIMER_115_110	110	115	116	120	145	26034	80

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
GORDONRD_345_230_TR-G1	TR-G1	345	637	738	738	327483	230
GORDONRD_345_230_TR-G3	TR-G3	345	637	758	1083	327484	230
GORDONRD-PRINCTWN_345_371	371	345	2037	2037	2037	625030	39
GORDONRD-ROTTRDAM_230_30	30	230	501	607	680	327485	230
GORDONRD-ROTTRDAM_230_31	31	230	501	607	680	327486	230
GOUDEY__-ROBBLEAV_115_940	940	115	238	262	262	325166	34
GOWANUS__138A_138B_PAR R14	PAR R14	138	237	289	338	25794	140
GOWANUS__138A_138B_PAR R2	PAR R2	138	344	436	600	25793	140
GOWANUS__345_138_BK T14	BK T14	345	248	335	421	25475	140
GOWANUS__345_138_BK T2	BK T2	345	344	436	600	25476	140
GOWANUS__345KV_REA_R41_REACTR	R41 S.REACT	345	687	896	1315	26001	535
GOWANUS__345KV_REA_R42_REACTR	R42 S.REACT	345	687	896	1315	26003	535
GOWANUS_-GOETHALS_345_25	25	345	492	702	1211	25139	392
GOWANUS_-GOETHALS_345_26	26	345	492	702	1211	25571	392
GOWANUS_-GREENWD__138_42231	42231	138	254	372	516	25214	140
GOWANUS_-GREENWD__138_42232	42232	138	237	289	338	25215	140
GOWANUSA-GREENWD__138_42G24	42G24	138	288	439	574	26007	120
GOWANUSC-GREENWD__138_42G13	42G13	138	286	404	574	26006	120
GREENBSH-STEPHTWN_115_993	993	115	99	114	134	26447	0
GREENDGE-FLATSTR__115_968	968	115	107	128	143	26185	22
GREENDGE-MONTRFL__115_967	967	115	108	128	145	26184	1
GREENDGE-MONTRFL__115_967	967	115	108	128	145	26184	1
GREENDGE-MONTRFL__115_970	970	115	124	138	158	26183	30
GREENLWN-ELWOOD___138_673	673	138	362	477	563	25546	105
GREENLWN-SYOSSET__138_676	676	138	246	353	563	25548	0
GREENWD_-FOXHILLS_138_29231	29231	138	174	235	368	25321	44
GREENWD_-FOXHILLS_138_29232	29232	138	174	235	368	25322	58
GROOMS__-JOHNSON__115_13-14	14	115	220	252	280	26267	75
GROOMS__-JOHNSON__115_13-14	14	115	220	252	280	26267	75
GRS_LOCK-GELCKHM__115_8	8	115	116.3	120.9	145.8	26103	60
GRS_LOCK-HARRISRD_115_16	16	115	116	120	145	26102	28
GUARDIAN-HALEYRD__115_969	969	115	248	270	270	26167	55
HALEYRD_-GREENDGE_115_969	969	115	192	233	265	325294	29
HANCOCK_-HAZEL____115_955	955	115	90	90	90	26187	0

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
HARNGCRN-W.NYACK__69__701	701	69	118	135	142	26259	15
HARSNRAD-ROBNSNRD_115_907	907	115	215	227	261	26162	41
HAUPPAUG-C._ISLIP_138_889	889	138	232	324	358	25681	54
HAZEL___-FERNDALE_115_955	955	115	107	128	143	26181	10
HELLGATE-ASTORIAW_138_24051	24051	138	158	253	258	25210	29
HELLGATE-ASTORIAW_138_24052	24052	138	160	250	436	25211	18
HELLGATE-HELLGATE_138_15055L	15055L	138	210	301	384	25573	302
HELLGATE-HELLGATE_138_15055M	15055M	138	210	301	384	26729	302
HELLGT_E-ASTORIAE_138_34051	34051	138	174	235	368	25323	41
HELLGT_E-ASTORIAE_138_34052	34052	138	174	235	368	25324	42
HELLGT_W-ASTORIAW_138_24053	24053	138	140	186	186	25212	127
HELLGT_W-ASTORIAW_138_24054	24054	138	140	186	186	25213	126
HELLGT_W-ASTORIAW_138_24056	24056	138	158	253	258	26461	29
HEMPSTED-EGRDNCTY_69_358	358	69	131	131	131	326813	34
HEWLETT_-VALLYSTR_69__260	260	69	107	132	146	325286	34
HICKLING-CATON____115_958	958	115	125	151	183	26189	19
HICKLING-YAWGERRD_115_964	964	115	95	123	147	26188	17
HILLBURN-RAMAPOOR_138_52	52	138	203	226	247	25882	57
HILLBURN-S.MAHWAH_69__65	65	69	139	159	167	26263	34
HILLSIDE_230_1_BK3P	BK 3	230	254	304	336	325759	97
HILLSIDE_230_1_BK4P	BK 4	230	393	474	560	325760	77
HILLSIDE-CHEMUNG__115_962	962	115	155	155	155	25726	21
HILLSIDE-WATRCURE_230_69	69	230	514	538	599	25181	198
HINMAN__-HARSNRAD_115_908	908	115	238	287	306	26161	119
HISHELDN-STONCREK_230_81	81	230	430	493	549	325622	6
HOLBROOK-NSHORBCH_138_884	884	138	334	387	442	25341	1
HOLBROOK-SILLSRD__138_872	872	138	438	485	592	25340	23
HOLBROOK-WEST BUS_138_888	888	138	497	545	624	25542	251
HOMER_HL-DUGAN_RD_115_157	157	115	88	101	108	26041	30
HOMER_HL-FIVE_MIL_115_169	169	115	221	256	287	26452	27
HOMER_HL-FIVE_MIL_115_170	170	115	221	256	287	26022	27
HOMR_NYW-PIERC_NY_345_48	48	345	1287	1534	1622	326214	105
HOMRC_NY-MAINS_NY_345_47	47	345	0	0	0	326121	95
HONK_FLS-ELLENVTP_69__WH	WH2	69	69	93	96	26234	18

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
HOOK_TAP-FARMGTN__115_7-983	7-983	115	145	151	185	26100	44
HOPATCON-RAMAPO___500_5018	5018	500	999	1301	1713	25019	316
HUDS_AVE-JAMAICA__138_701	701	138	147	221	360	25294	70
HUDS_AVE-JAMAICA__138_702	702	138	147	221	360	25295	70
HUDSON__-FALLSPRK_115_20-731	20-731	115	239	319	383	326939	68
HUDSONP_-FARRAGUT_345_B3402	B3402	345	432	614	801	25020	0
HUDSONTP-W49TH_ST_345_Y56	Y56	345	9999	9999	9999	325893	0
HUNTLEY_-ELM_ST___230_70	70	230	368	368	368	25855	53
HUNTLEY_-PEROXYCM_115_39	39	115	168	181	206	26044	49
HUNTLEY_-SAWYER___230_79	79	230	566	654	755	25127	139
HUNTLEY_-SAWYER___230_80	80	230	566	654	755	25128	190
HUNTLEY_-SWETH224_115_37	37	115	148	148	148	26045	15
HUNTLEY_-TWOMLCRK_115_38	38	115	145	151	185	26047	50
HUNTLEY_-YOUNG214_115_36	36	115	168	176	176	26046	17
HURLYAVE_345/115_BK 1	BK 1	345	419	481	488	25419	170
HURLYAVE-LINCNPRK_115_HP	HP	115	198	230	260	25833	69
HURLYAVE-ROSETON__345_303	303	345	1396	1623	1870	25218	484
HURLYAVE-STURGNPL_115_HS	HS	115	169	186	191	25834	58
HYATT___-BORDRCTY_115_10-979	10-979	115	127	146	159	25106	51
IMC_TAP_-MECO_____115_15-IM	15	115	125	143	154	26132	22
INDK-OSW-EPULASKI_115_2	2	115	114	120	142	25503	41
INDPDNCE-SCRIBA___345_25	25	345	1670	1931	2210	25859	46
INGHAM_C_115_115_PAR 2	PAR 2	115	167	197	239	25242	120
INGHAM_C-INGHAM_E_115_R81	R81	115	182	197	239	25243	0
INGHAM_E-ESPRGFLD_115_7-942	7-942	115	105	114	124	25061	27
INGHAM_E-FAGEDARY_115_9	9	115	105	114	134	25863	34
INGHAM_E-STJHNVLE_115_6	6	115	86	90	107	26133	30
JAMAICA_-LAKSUCSS_138_903	903	138	240	328	428	25090	199
JAMAICA_-VALLYSTR_138_901 L_M	901 L&M	138	268	358	441	25048	100
JENNISON-AFTON____115_954	954	115	135	159	173	26186	26
JENNISON-KATTLVLE_115_943	943	115	124	139	159	25898	48
JENNISON-SIDNEYRR_115_949	949	115	79	109	135	26173	38
JOHNSON_-MAPLEWOD_115_12	12	115	220	239	239	26268	95
KATONAH_-AMAWALK__115_995	995	115	215	247	275	325279	30

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
KATONAH_-GLDNBRGD_115_991	991	115	215	249	275	26157	24
KENTAVE_-GREENWD__138_31232	31232	138	174	226	247	25299	108
KINGS___-WEST BUS_138_881	881	138	492	540	618	326911	24
KNAPPCRN-SANDDOCK_115_KB_KC	KC	115	198	230	260	26240	27
KNAPPCRN-SANDDOCK_115_KB_KC	KC	115	198	230	260	26240	27
KNAPPCRN-SPACKILL_115_SK	SK	115	198	230	260	325777	1
KNICRBKR-ALPS_____345_6	6	345	1242	1386	1589	625040	451
KNICRBKR-PLSNTVLY_345_Y57	Y57	345	2297	2297	2297	625041	785
KNTFSRNC-SCOTAFLT_115_913	913	115	119	119	119	26207	7
LADENTWN-BOWLINE__345_68	68	345	687	747	747	25249	379
LADENTWN-LOVETT___345_Y66	Y66	345	1703	1894	2404	625085	1077
LADENTWN-WHAVSTRW_345_67	67	345	1720	2215	2657	25248	340
LAFARGE_-LN6_TP_1_115_6	6	115	116	120	145	25864	0
LAFAYTTE-CLRKSCRN_345_4-46	4-46	345	1207	1327	1479	25049	748
LAFAYTTE-DEWITT___345_22	22	345	1164	1164	1164	25174	221
LAKSUCSS_138A_138B_PAR	PAR	138	240	328	427	25593	200
LANGDON_-NORTHSDE_115_936	936	115	176	196	225	26160	51
LAONA___-MOONROAD_115_172	172	115	88	101	108	326591	4
LAONA___-MOONROAD_115_173	173	115	88	101	108	326592	4
LASHERRD-TAPBLSTN_115_43	43	115	402	467	478	327083	43
LAUREL L-GOUDEY___115_952	952	115	108	128	143	25012	63
LEEDS___-ATHENS___345_95	95	345	1331	1538	1724	25789	69
LEEDS___-HURLYAVE_345_301	301	345	1396	1623	1870	25055	1
LEEDS___-VNWAGNER_345_92	92	345	1331	1538	1724	25056	814
LIGHTHSE-MALLORY__115_7	7	115	108	108	108	25521	37
LINCNPRK-EKINGSTN_115_LR	LR	115	194	214	240	26223	35
LINDEN__-GOETHALS_230_A2253	A2253	230	541	720	845	25017	2
LINDN_CG-LNDVFT___345_V-3022	V-3022	345	325	415	436	325657	315
LITTLRIV-COLTON___115_8	8	115	76	87	94	25514	2
LOCKPORT-HINMAN___115_100	100	115	220	252	280	25087	83
LOCKPORT-OAKFIELD_115_112	112	115	131	144	158	25300	27
LOCKPORT-SHELBY76_115_113	113	115	143	165	180	25263	17
LOCKPORT-TELGRAPH_115_107	107	115	220	252	280	25265	42
LOCKPORT-TELGRAPH_115_111	111	115	199	199	199	25262	11

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
LOCKPORT-TELGRAPH_115_114	114	115	143	165	180	25264	23
LOCUSTGR-NEWBRDGE_138_558	558	138	323	476	580	25158	225
LONG_MTN-CRICKVLY_345_398	398	345	1260	1786	2091	25033	57
LOVETT___345_138_BK_192	BK 192	345	240	320	400	625086	56
LOVETT__-BOWLINOR_138_56	56	138	191	230	285	25877	17
LOVETT__-BUCHAN_S_345_Y88	Y88	345	1703	1894	2404	25185	1018
LOVETT__-STONYPNT_138_54	54	138	262.2	300	316.7	25885	28
LUTHERFT-MALTA____115_44	44	115	197	256	287	325890	28
LUTHERFT-MULBRYNM_115_308	308	115	254	294	318	325742	55
LYON_MTN-KNTFSRNC_115_1(911)	1(911)	115	125	151	180	26205	13
MAINESBG-WATRCURE_345_30	30	345	1207	1326	1434	25018	38
MALONE__-WILLIS___115_1-910	1-910	115	129	159	173	25586	53
MANCHSTR-SPACKILL_115_MC	MC	115	198	230	260	325776	27
MAPLEWOD-WTRVLARS_115_19	19	115	220	239	239	25870	57
MAPLEWOD-WTRVLARS_115_31	31	115	129	176	224	25844	75
MARCY____765_345_AT2	AT2	765	1675	2010	2384	25456	709
MARCY____765_345_BK 1	AT1	765	1488	1650	1756	25455	816
MARCY___-EDIC_____345_UE1-7	UE1-7	345	1864	2079	2384	25229	955
MARCY___-FRASANNX_345_UCC2-41	UCC2-41	345	1793	1793	1793	25113	724
MARCY___-N.SCTLND_345_18	18	345	1488	1650	1971	25276	474
MARION__-FARRAGUT_345_C3403	C3403	345	414	589	767	25038	0
MARSHVLE-CLINTON__115_12	12	115	125	143	154	325267	0
MASSENA__765_230_AT1	AT1	765	968	1238	1537	25665	112
MASSENA__765_230_AT2	AT2	765	968	1238	1537	25666	112
MASSENA_-MARCY____765_MSU1	MSU1	765	5300	5300	5300	25224	1524
MCADOO__-DEKALB___115_4	4	115	76	87	89	26064	14
MCINTYRE-CORNING__115_6	6	115	128	136	137	26108	6
MCKNOWNV-NEWKRMKL_115_8	8	115	258	321	368	26499	131
MECO____-CENTERST_115_22	10	115	125	130	130	327075	1
MENANDS_-REYNOLDS_115_2	2	115	217	250	280	26135	113
MENANDS_-RIVERSDE_115_3	3	115	250	303	368	26134	129
MERTPARK-WICCOPEE_115_WP	WP	115	194	214	240	325772	28
MEYER____230_1___BK4P	BK 4	230	201	223	268	325765	20
MEYER___-CANANDGA_230_60	60	230	483	556	634	325604	8

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
MEYER___-MORAINE__115_966	966	115	125	152	191	26166	38
MIDDLEOR-SHOEMAKR_138_29	29	138	500	572	601	26468	268
MIDDLETP_345_138_BK 114	BK 114	345	500	572	601	26465	268
MIDDLETP-ROCKTVRN_345_CCRT34	CCRT34	345	1704	1852	2362	26464	402
MILAN___-BLUESTOR_115_T7	T7	115	175	194	221	327498	41
MILAN___-PLSTVYCH_115_10	10	115	129	158	192	26433	31
MILAN___-RHINEBCK_115_MR	MR	115	175	193	220	26242	1
MILLERPL-HOLBROOK_138_885	885	138	396	482	569	26691	16
MILLIKEN-ETNA_____115_974	974	115	185	224	255	26177	18
MILLIKEN-ETNA_____115_975	975	115	185	219	219	26178	20
MILLWOOD_345_138_TA 1	TA 1	345	216	307	346	25530	56
MILLWOOD_345_138_TA 2	TA 2	345	205	297	321	25531	62
MILLWOOD-EASTVIEW_345_W82	W82	345	2296	2658	3202	25147	1014
MILLWOOD-EASTVIEW_345_W85	W85	345	2296	2658	3202	25258	963
MILLWOOD-EASTVIEW_345_W99	W99	345	2296	2658	3202	25255	962
MNTNDALE-WWDBURNY_115_957	957	115	107	128	138	325616	24
MODENA__-GALEVILE_69__MG	MG	115	41	44	51	26236	5
MODENA__-OHIOVLLE_115_PX	PX	115	232	257	304	25835	24
MOHICAN_-DARBY____115_309	3	115	186	214	237	26687	30
MOHICAN_-IRVINGTS_115_15	15	115	221	256	287	26122	0
MONSEY__-BURNS____138_601	601	138	425	451	475	325608	81
MONTRFL_-CODINGTN_115_982	982	115	107	128	144	25728	8
MONTRFL_-RIDGE_RD_115_963	963	115	107	128	145	26196	3
MONTRFL_-RIDGE_RD_115_978	978	115	124	131	131	26197	1
MOONROAD-FALCONER_115_175	175	115	88	101	108	26030	4
MOONROAD-FALCONER_115_176	176	115	88	101	108	26031	4
MORGANRD-LANGDON__115_936	936	115	202	226	239	325224	18
MORTIMER-FAIRPORT_115_1	1	115	129	151	163	25163	35
MORTIMER-FAIRPORT_115_2	2	115	129	144	158	25240	3
MORTIMER-STA_56___115_24	24	115	129	148	160	25096	51
MORTIMER-STA_89___115_25	25	115	114	123	142	25095	56
MOSES____230_115_AT1	AT1	230	401	490	646	25411	4
MOSES____230_115_AT2	AT2	230	401	490	646	25451	4
MOSES____230_115_AT3	AT3	230	192	240	288	25452	0

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
MOSES____230_115_AT4	AT4	230	479	589	690	25453	4
MOSES___-ADIRNDCK_230_MA1	MA1	230	349	386	440	25269	74
MOSES___-ADIRNDCK_230_MA2	MA2	230	349	386	440	25270	75
MOSES___-ALCOA_PA_115_MAL6	MAL6	115	219	230	230	25581	81
MOSES___-GRASRIVR_115_MAL4	MAL4	115	238	275	310	25582	83
MOSES___-GRASRIVR_115_MAL5	MAL5	115	207	207	207	25583	83
MOSES___-MASSENA__230_MMS1	MMS1	230	936	1197	1391	25274	112
MOSES___-MASSENA__230_MMS2	MMS2	230	936	1197	1414	25275	112
MOSES___-WILLIS___230_MW1	MW1	230	349	386	440	25188	24
MOSES___-WILLIS___230_MW2	MW2	230	349	386	440	25271	0
MOTTHAVN-RAINEY___345_Q11	Q11	345	707	833	1298	325430	409
MOTTHAVN-RAINEY___345_Q12	Q12	345	707	833	1298	325431	382
N.AKRON_-BATAVIA__115_108	108	115	125	136	154	25125	11
N.CARTHG-TAYLORVL_115_8	8	115	102	119	119	26431	3
N.END___-ASHLEYRD_115_702	702	115	287	333	388	25846	61
N.END___-PLATSBRG_115_701	701	115	217	239	239	25848	134
N.HEMPST-WHAVSTOR_138_530	530	138	236	270	285	26506	92
N.SCTLND_345_115_BK 1	BK 1	345	458	570	731	25445	1
N.SCTLND_345_115_BK 2	BK 2	345	510	690	794	25460	1
N.SCTLND-AIRPRDCT_115_8	8	115	278	321	368	25496	26
N.SCTLND-ALTAMONT_115_20	20	115	116	120	145	25492	63
N.SCTLND-BETHLHEM_115_4	4	115	254	266	266	25497	12
N.SCTLND-FEURABSH_115_3	3	115	254	292	333	25495	81
N.SCTLND-KNICRBKR_345_2	2	345	1670	1931	2007	25217	352
N.SCTLND-LEEDS____345_93	93	345	1331	1538	1724	25171	511
N.SCTLND-LEEDS____345_94	94	345	1331	1538	1724	25203	508
N.SCTLND-OWENSCRN_115_7	7	115	116	120	145	25491	18
N.SCTLND-OWENSCRN_115_9	9	115	116	120	145	25490	15
N.TROY__-EASTOVER_115_306	306	115	186	214	237	326095	28
N.TROY__-EASTOVER_115_307	307	115	186	214	237	326096	26
N.TROY__-HOOSICK__115_5	5	115	220	252	280	26131	1
N.TROY__-SYCAWAY__115_14-988	14-988	115	186	214	237	26137	56
N.TROY__-SYCAWAY__115_16	16	115	186	214	237	26139	76
NANOTECH-MCKNOWNV_115_2	2	115	258	321	368	326637	108

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
NCHELSEA-FISHKPLN_115_NF	NF	115	183	248	279	26228	85
NCHELSEA-FORGEBRK_115_FO	FO	115	176	211	240	26230	94
NEPTUNE_-DUFFYAVE_345_NEPTUNE	NEPTUNE	345	660	785	785	325304	660
NESCNSET-HOLBROOK_69__673	673	69	100	120	130	326339	43
NEVRSNK_-NVRSK_TP_69__WH	WH	69	77	99	107	26244	8
NEWBRDGE_345_138_BK_1	BK 1	345	375	450	596	325301	325
NEWBRDGE_345_138_BK_2	BK 2	345	385	469	562	325302	325
NEWBRDGE-BAGATLRD_138_563	563	138	373	476	580	25536	24
NEWBRDGE-DUFFYAVE_345_501	501	345	660	785	785	325303	650
NEWBRDGE-EGRDNCTY_138_467	467	138	251	388	618	325378	33
NEWBRDGE-RULAND___138_561	561	138	237	275	303	25305	61
NEWBRDGE-RULAND___138_562	562	138	234	272	300	25306	61
NEWBRDGE-RULAND___138_567	567	138	240	388	601	325379	62
NEWKRMKL-ALBANY___115_7	7	115	275	303	354	325257	148
NIAGARA__230_115_AT1	AT1	230	240	299	479	25409	51
NIAGARA__230_115_AT2	AT2	230	239	349	418	25410	40
NIAGARA__345_230_AT3	AT3	345	376	500	657	25408	72
NIAGARA__345_230_AT4	AT4	345	751	924	1082	25449	137
NIAGARA__345_230_AT5	AT5	345	376	470	564	25450	75
NIAGARA_-DYSINGER_345_ND1	ND1	345	1301	1501	1685	327443	167
NIAGARA_-DYSINGER_345_ND2	ND2	345	1301	1501	1685	327456	166
NIAGARA_-LNGRD209_115_180	180	115	200	208	265	25104	88
NIAGARA_-MOUNTAIN_115_120	120	115	176	211	258	25135	30
NIAGARA_-PACKARD__115_191	191	115	344	487	597	25075	122
NIAGARA_-PACKARD__115_192	192	115	344	487	597	25099	142
NIAGARA_-PACKARD__115_193	193	115	344	487	597	25100	129
NIAGARA_-PACKARD__115_194	194	115	344	487	597	25101	129
NIAGARA_-PACKARD__115_195	195	115	344	487	597	25102	150
NIAGARA_-PACKARD__230_61	61	230	626	727	846	25186	259
NIAGARA_-PACKARD__230_62	62	230	626	717	846	25220	254
NIAGARA_-ROBNSNRD_230_64	64	230	495	550	656	25088	191
NIAGARA_-SANBORN__115_102	102	115	273	301	352	25103	85
NINEMILE-CLAY_____345_8	8	345	1032	1271	1416	25167	797
NINEMILE-FTZPK_NM_115_4	4	115	119	119	159	25500	27

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
NINEMILE-SCRIBA___345_9	9	345	1032	1284	1562	25359	185
NOGDNBRG-MCINTYRE_115_9	9	115	159	159	159	26080	14
NRTH1385-NOR HBR__138_601	601	138	147	182	409	325597	33
NRTH1385-NOR HBR__138_602	602	138	147	182	409	325598	33
NRTH1385-NOR HBR__138_603	603	138	147	182	409	325599	33
NRTH1385-NRTHPORT_138_NNC	NNC	138	436	518	532	25035	99
NRTHPORT_138_138_PS2	PS2	138	384	467	552	25599	155
NRTHPORT_138N_138E_PAR 1	PAR 1	138	436	518	532	25598	99
NRTHPORT-ELWOOD___138_678	678	138	355	472	557	25543	126
NRTHPORT-ELWOOD___138_681	681	138	358	540	618	25544	119
NRTHPORT-PILGRIM__138_672	672	138	187	286	347	25307	131
NRTHPORT-PILGRIM__138_677	677	138	376	529	605	25308	261
NRTHPORT-PILGRIM__138_679	679	138	380	529	605	25309	261
OAKDALE__230_115_BK 1	BK 1	230	275	398	398	25400	1
OAKDALE__345_1___BK3P	BK 3	345	440	540	600	25399	165
OAKDALE__345_115_BK 2	BK 2	345	433	454	523	25401	217
OAKDALE_-DELHI____115_919	919	115	161	177	179	25897	96
OAKDALE_-ENDICOTT_115_938	938	115	175	175	175	26198	109
OAKDALE_-FRASER___345_32	32	345	1254	1314	1314	25235	16
OAKDALE_-GOUDEY___115_939	939	115	238	274	306	26182	128
OAKDALE_-KATTLVLE_115_943	943	115	153	163	173	26201	58
OAKDALE_-NORTHSDE_115_944	944	115	185	224	239	26199	97
OAKSTRET-CORPDRIV_138_704	704	138	235	309	383	326882	92
OAKWOOD_-ELWOOD___138_674	674	138	362	477	563	25545	49
OAKWOOD_-SYOSSET__138_675	675	138	246	353	563	25547	5
OHIOVLLE-HIGHLAND_115_OR	OR	115	182	197	240	26247	4
ONEIDA__-GRNEMPFM_115_2	2	115	116	120	145	25895	15
ONEIDA__-SHERILPL_115_6	6	115	116	120	145	26113	24
ONEIDA__-WALESVIL_115_7	7	115	116	120	145	26115	40
OSWEGO___345_115_BK 7	BK 7	345	489	552	690	25372	316
OSWEGO__-ELBRIDGE_345_17	17	345	1207	1326	1426	25234	883
OSWEGO__-S.OSWEGO_115_3	3	115	209	250	250	25507	129
OSWEGO__-S.OSWEGO_115_5	5	115	209	250	250	25508	129
OSWEGO__-S.OSWEGO_115_8	8	115	318	318	318	25509	46

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
OSWEGO__-VOLNEY___345_11	11	345	1200	1326	1685	25199	205
OSWEGO__-VOLNEY___345_12	12	345	1200	1326	1685	25201	205
PACKARD__230_115_BK 3	BK 3	230	189	250	250	25414	14
PACKARD__230_115_BK 4	BK 4	230	190	250	250	25415	47
PACKARD_-LNGRD209_115_182	182	115	200	208	265	26056	102
PACKARD_-MILTR210_115_129	129	115	239	299	299	25906	118
PACKARD_-MILTR210_115_130	130	115	239	298	298	26059	126
PACKARD_-NIAGB130_115_181-922	181-922	115	160	166	206	26055	89
PACKARD_-SAWYER___230_77	77	230	556	644	746	25164	245
PACKARD_-SAWYER___230_78	78	230	556	644	746	25195	245
PALMITER-BENNETT__115_932	932	115	111	131	143	26165	6
PANNELL__345_115_4T	BK 4T	345	489	598	598	326315	99
PANNELL__345_115_5T	BK 5T	345	489	598	598	326316	99
PANNELL__345_115_6T	BK 6T	345	493	556	556	326317	104
PANNELL_-CLAY_____345_1	1	345	1195	1315	1673	25058	601
PANNELL_-CLAY_____345_2	2	345	1195	1315	1673	25050	603
PANNELRG-FARMGTN__115_4-977	4-977	115	221	254	279	25080	87
PARISHVL-COLTON___115_3	3	115	128	147	159	25241	1
PATROON_-NANOTECH_115_6	6	115	278	321	368	25866	80
PAVMNTRD-STOLLERD_115_926	926	115	249	287	319	325220	96
PAWLING_-TILYFSTR_115_994	994	115	248	277	311	25902	46
PEARLRVR-HARNGCRN_34__45	45	34.5	19	24	28	26278	2
PIERCBRK-FIVEMILE_345_37	37	345	1195	1195	1195	326225	34
PILGRIM__138B_138A_PAR	PAR	138	264	324	358	25604	110
PILGRIM_-HAUPPAUG_138_871	871	138	264	324	358	25550	109
PILGRIM_-KINGS____138_880	880	138	492	540	618	25537	59
PLATSBRG_230_1___AT1	AT1	230	254	296	357	325794	5
PLATSBRG_230_1___AT4	AT4	230	252	281	322	325801	0
PLATSBRG-KNTFSRNC_115_PS1	PS1	115	125	151	180	25078	13
PLSNTVLE_345_13__BK 1	BK 1	345	59	67	67	25477	36
PLSNTVLE_345_13__BK 2	BK 2	345	59	67	67	25478	35
PLSNTVLE-DUNWODIE_345_W89	W89	345	1868	2081	2384	25182	1022
PLSNTVLE-DUNWODIE_345_W90	W90	345	1720	1977	2265	25250	1055
PLSNTVLY-EFISHKIL_345_F36	F36	345	1720	2215	2657	25256	541

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
PLSNTVLY-EFISHKIL_345_F37	F37	345	1720	2215	2657	25257	541
PLSNTVLY-WOOD_ST__345_F30	F30	345	1720	2157	2656	25237	1098
PLSNTVLY-WOOD_ST__345_F31	F31	345	1720	2157	2656	25238	1098
PLSTVYCH_345_115_BK S1	BK S1	345	396	450	450	25382	101
PLSTVYCH-INWOOD___115_X	X	115	175	193	220	26209	28
PLSTVYCH-MANCHSTR_115_M	M	115	183	230	260	26208	53
PLSTVYCH-TODDHILL_115_C	C	115	183	248	295	325156	61
PORTER__-VALLEY___115_4	4	115	116	120	145	25231	79
PORTER__-WATKINRD_115_5	5	115	116	120	145	25232	84
PORTJEFF-HOLBROOK_138_862	862	138	253	311	343	25539	35
PORTJEFF-HOLBROOK_138_886	886	138	288	318	368	25540	36
PRINCTWN-N.SCTLND_345_361	361	345	2037	2037	2037	625031	295
PRINCTWN-N.SCTLND_345_362	362	345	2037	2037	2037	625032	295
PRINCTWN-N.SCTLND_345_55	55	345	1308	1511	1682	327492	285
QUAKERRD-MACEDON__115_930	930	115	60	75	112	25093	31
QUAKERRD-PANNELRG_115_914	914	115	207	247	264	25261	35
QUAKERRD-PANNELRG_115_925	925	115	274	303	354	25682	59
QUAKERRD-SLEIGHT__115_13-980	13-980	115	143	146	146	25079	30
QUENBRDG-VERNON___138_31281	31281	138	363	455	602	25159	72
QUENBRDG-VERNON___138_31282	31282	138	363	455	602	25160	18
QUENSBRY-CEDAR____115_10	10	115	128	147	159	26140	54
RAINEY___345_1___8EP	BK 8E	345	258	311	352	325107	43
RAINEY___345_1___8WP	BK 8W	345	273	336	380	325110	91
RAINEY___345_138_5E	BK 5E	345	209	370	478	326892	59
RAINEY__-E75THSTA_138_38M35	38M35	138	150	214	234	327306	148
RAINEY__-FARRAGUT_345_61	61	345	537	749	1247	25152	303
RAINEY__-FARRAGUT_345_62	62	345	691	818	1281	25253	267
RAINEY__-FARRAGUT_345_63	63	345	537	749	1247	25254	290
RAINEY__-VERNON___138_36311	36311	138	233	280	317	25296	44
RAINEY__-VERNON___138_36312	36312	138	245	303	342	25297	91
RAINEY_138A_138B_PAR_5	PAR5	138	296	374	521	326893	0
RAMAPO___345_138_BK 1300	BK 1300	345	592	677	743	25441	132
RAMAPO___345_138_BK 2300	BK 2300	345	592	677	743	25442	132
RAMAPO___345_345_PAR3500	PAR3500	345	611	788	1054	25370	158

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
RAMAPO___345_345_PAR4500	PAR4500	345	575	803	1081	25371	158
RAMAPO___500_345_BK 1500	BK 1500	500	995	1304	1750	25656	316
RAMAPO__-BUCHAN_N_345_Y94	Y94	345	1703	1894	2265	25184	895
RAMAPO__-LADENTWN_345_W72	W72	345	1722	1894	2404	25233	359
RAMAPO__-SUGARLOF_345_76	76	345	1872	2037	2145	326219	697
RAMAPOOR-STRLFRST_138_26	26	138	236	270	285	326302	56
RAMAPOOR-TALLMAN__138_60	60	138	425	451	475	25880	167
RANGEHL_-CASTLEGD_115_937	937	115	227	239	239	325225	18
REVERCOP-ROME_____115_4	4	115	116	120	145	26072	21
REYNOLDS_345_115_BK 2	BK 2	345	459	538	646	25403	187
REYNOLDS-ALPS_____345_1	1	345	1670	1912	1912	25587	395
REYNOLDS-REGENRON_115_9	9	115	329	400	474	26129	224
RIDGE_RD-HILLSIDE_115_963	963	115	108	128	145	26190	26
RIDGE_RD-HILLSIDE_115_978	978	115	108	128	145	26191	24
RIVERSDE-RVSD_TAP_115_4	4	115	220	239	239	26144	14
RIVERSDE-TRINITY__115_18	18	115	147	178	243	26491	93
RIVERSDE-TRINITY__115_19	19	115	198	242	278	26492	114
RIVRHEAD-WILDWOOD_138_912	912	138	317	379	434	327372	114
ROBNSNRD_230_1___BK1P	BK 1	230	331	383	420	25395	62
ROBNSNRD-STOLLERD_230_65	65	230	549	637	717	25065	129
ROCHESTR_345_115_BK 1	BK 1T	345	494	603	630	25412	98
ROCHESTR_345_115_BK 2	BK 2T	345	327	415	478	25432	118
ROCHESTR_345_115_BK 3	BK 3T	345	494	603	630	25446	108
ROCHESTR_345_115_BK 5	BK 5T	345	462	567	630	325381	203
ROCHESTR-PANNELL__345_RP1	RP1	345	1301	1501	1685	25192	437
ROCHESTR-PANNELL__345_RP2	RP2	345	1301	1501	1685	25172	438
ROCKHILL-MNTNDALE_115_957	957	115	153	163	173	325615	30
ROCKTVRN_345_115_BK TR1	BK TR1	345	396	445	445	25406	85
ROCKTVRN_345_115_BK TR3	BK TR3	345	396	459	519	26168	86
ROCKTVRN-RAMAPO___345_77	77	345	1872	2037	2145	25183	811
ROCKTVRN-SUGARLOF_345_76	76	345	1872	2037	2145	326218	860
ROCKTVRN-SUGRL_CH_115_SL	SL	115	302	352	424	625048	74
ROME____-TURNSTON_115_1	1	115	200	217	239	26112	0
RONKOKMA-HOLBROOK_138_875	875	138	467	512	586	25541	108

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
ROSA_RD_-GE_R_D___115_14	14	115	200	217	260	26145	41
ROSETON_-EFISHKIL_345_RFK305	RFK305	345	1936	2666	3133	25108	1282
ROSETON_-ROCKTVRN_345_311	311	345	1396	1623	1870	25069	399
ROTTRDAM_230_115_BK 6	BK 6	230	352	414	478	25407	142
ROTTRDAM_230_115_BK 7	BK 7	230	300	355	402	25392	137
ROTTRDAM_230_115_BK 8	BK 8	230	326	369	423	25413	110
ROTTRDAM-BURDECK__115_17	17	115	116	120	145	25129	29
ROTTRDAM-BURDECK__115_19	19	115	116	120	145	26146	38
ROTTRDAM-CURRY_RD_115_11	11	115	220	252	280	25869	16
ROTTRDAM-EASTOVER_230_38	38	230	482	530	637	326094	70
ROTTRDAM-FRONT_ST_115_16	16	115	220	252	280	26147	107
ROTTRDAM-PINEBUSH_115_35	35	115	116	120	145	25865	8
RULAND__-HOLBROOK_138_882	882	138	396	482	569	25538	34
RULAND__-PILGRIM__138_661	661	138	384	467	549	25310	97
RULAND__-PILGRIM__138_662	662	138	482	529	543	25311	97
RYAN____-PLATSBRG_230_RYP-2	RYP-2	230	249	281	318	25273	28.8
RYNDS_HL-HIGHLAND_115_HR	HR	115	176	194	221	325825	21
RYNDS_HL-INWOOD___115_IR	IR	115	175	193	220	26248	46
S.MAHWAH-RAMAPOOR_138_51	51	138	236	270	285	25888	97
S.OSWEGO-CLEARWTR_115_9	9	115	192	199	199	25510	97
S.OSWEGO-CURTIS___115_10	10	115	175	175	175	25511	87
S.OSWEGO-HAMRHILL_115_6	6	115	116	120	145	25513	11
S.OSWEGO-NINEMILE_115_1	1	115	116	120	145	25501	35
S.OWEGO_-GOUDEY___115_961	961	115	112	131	143	25725	26
S.OWEGO_-NWAVERLY_115_962	962	115	111	131	143	25727	23
S.OWEGO_-NWAVERLY_115_962	962	115	111	131	143	25727	23
S.PERRY_-FROST_RD_230_86	86	230	430	493	549	326586	28
S.PERRY_-MEYER____115_934	934	115	82	96	104	26194	41
S.RIPLEY-DUNKIRK__230_68	68	230	475	475	475	25045	10
S42_____-S124_____115_932	932	115	185	207	215	325827	134
S42_____-S124_____115_938	938	115	185	207	215	325972	134
SANBORN_-LOCKPORT_115_101	101	115	233	253	318	25267	80
SAND_BAR-PLATSBRG_115_PV20	PV20	115	210	245	258	25027	104
SANDDOCK-NCHELSEA_115_SC	SC	115	183	248	279	26249	49

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
SCHODACK-GREENBSH_115_13	13	115	186	214	237	325804	93
SCHUYLER-PORTER___115_13	13	115	176	191	191	326142	44
SCOTAFLT-MASONCR__115_909	909	115	155	179	193	325702	6
SCRIBA__-FITZPTRK_345_FS-10	FS-10	345	1434	1434	1662	25076	154
SCRIBA__-VOLNEY___345_20	20	345	1200	1396	1686	25204	514
SCRIBA__-VOLNEY___345_21	21	345	1670	1912	1912	25314	673
SHAWNERD-LOCKPORT_115_104	104	115	168	181	199	26050	0
SHENDOAH-EFISHKIL_115_EF	EF	115	251	294	333	26251	38
SHERMAN_-SPIERFLS_115_17	17	115	116	120	145	26148	44
SHERMCRK-ACADEMY__138_331	331	138	313	406	524	325755	150
SHERMCRK-ACADEMY__138_332	332	138	313	406	524	325754	150
SHERMCRK-E179THST_138_15031	15031	138	162	220	360	25156	128
SHERMCRK-E179THST_138_15032	15032	138	162	220	360	25157	127
SHOEMAKR-CHESTROR_138_27	27	138	236	270	285	26466	63
SHOR_NPX-SHOREHAM_138_CSC	CSC	138	353	353	353	325153	329
SHORE_RD_345_138_BK 1	BK 1	345	428	534	641	25439	293
SHORE_RD_345_138_BK 2	BK 2	345	439	534	641	25440	273
SHORE_RD-GLENWOOD_138_365	365	138	291	321	372	25205	87
SHORE_RD-GLENWOOD_138_366	366	138	479	540	651	25154	46
SHORE_RD-LAKSUCSS_138_367	367	138	238	413	545	25145	215
SHORE_RD-LAKSUCSS_138_368	368	138	241	417	552	25150	215
SHOREHAM-MILLERPL_138_879	879	138	396	482	569	25117	31
SHOREHAM-WILDWOOD_138_863	863	138	442	490	598	25115	176
SHOREHAM-WILDWOOD_138_867	867	138	396	482	569	25114	173
SIDNEYRR-DELHI____115_949	949	115	79	109	127	326184	21
SLEIGHT_-CLYDE____115_3-971	3-971	115	145	151	155	26686	20
SMAHWAH__345_138_BK 258	BK 258	345	441	516	569	25393	147
SMAHWAH_-RAMAPO___345_69	69	345	1226	1737	2102	25021	172
SMAHWAH_-RAMAPO___345_70	70	345	1720	1890	2287	25259	126
SMITHFLD-SALISBRY_69__690/FV	690/FV	69	53	60	60	25619	2
SPENCPRT-STA_113__115_947	947	115	113	123	135	326080	53
SPIERFLS-BUTLER___115_4	4	115	105	114	134	26136	36
SPIERFLS-CURTPALM_115_9	9	115	105	114	134	326145	5
SPIERFLS-MOHICAN__115_7	7	115	116	120	145	26435	30

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
SPIERFLS-QUENSBRY_115_5	5	115	116	120	145	26141	55
SPIERFLS-TAPBROOK_115_2	2	115	232	241	291	25874	22
SPIERFLS-TAPBROOK_115_302	302	115	182	197	248	25873	17
SPRNBRK__345_138_BK N7	BK N7	345	284	397	417	25628	208
SPRNBRK__345_138_BK S6	BK S6	345	284	397	417	25625	217
SPRNBRK_-ACADEMY__345_M29	M29	345	474	719	1351	325756	302
SPRNBRK_-DUNWODIE_138_99942	99942	138	330	402	464	25246	207
SPRNBRK_-DUNWODIE_345_W75	W75	345	2331	2658	3202	25071	176
SPRNBRK_-DUNWOODN_138_99941	99941	138	330	444	465	25245	217
SPRNBRK_-EGRDNCTR_345_Y49	Y49	345	637	900	1329	25105	638
SPRNBRK_-TREMONT__345_X28	X28	345	465	675	1182	25175	402
SPRNBRK_-W49TH_ST_345_M51	M51	345	760	927	1527	25053	569
SPRNBRK_-W49TH_ST_345_M52	M52	345	790	940	1527	25223	569
STA_128_-STA_82___115_906	906	115	129	129	129	26303	4
STA_133_-STA_1185_115_933	933	115	117	129	149	326161	58
STA_135_-STA_230__115_929	929	115	224	247	268	325839	62
STA_158_-STA_128__115_924	924	115	129	147	155	26654	6
STA_162_-S.PERRY__115_906- 7X	906- 7X	115	111	131	143	25062	15
STA_162_-STA_1185_115_907	907	115	117	126	146	325254	46
STA_162_-STA_158__115_924	924	115	129	147	155	26653	31
STA_204_-S124_____115_911	911	115	218	228	261	26307	134
STA_23__-S42_____115_920	920	115	211	230	230	70027	15
STA_23__-STA_255R_115_941	941	115	299	398	398	327242	80
STA_23__-STA_262__115_944	944	115	400	538	640	70028	0
STA_230_-QUAKERRD_115_929	929	115	244	281	318	325840	51
STA_251_-MORTIMER_115_901	901	115	191	210	237	25097	62
STA_251_-STA_33___115_942	942	115	193	213	241	326100	48
STA_251_-STA_33___115_943	943	115	193	213	241	326101	62
STA_255__345_115_1TRANS	BK 1T	345	493	605	672	327207	92
STA_255__345_115_2TRANS	BK 2T	345	493	605	672	327208	92
STA_255_-ROCHESTR_345_40	40	345	1309	1506	1697	327209	155
STA_255_-ROCHESTR_345_HR1	HR1	345	1301	1488	1685	327243	96
STA_255_-ROCHESTR_345_HR2	HR2	345	1301	1488	1685	327244	96
STA_255R-STA_418__115_940	940	115	300	564	637	327241	104

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
STA_262_-STA_33___115_943	943	115	400	640	640	326414	10
STA_37__-STA_48___115_926	926	115	275	305	355	26314	68
STA_37__-STA_67___115_926	926	115	250	280	300	26313	101
STA_418_-STA_113__115_947	947	115	125	144	156	326069	68
STA_56__-STA_82___115_23	23	115	145	151	185	26287	35
STA_67__-ROCHESRG_115_922	922	115	311	364	376	26321	118
STA_67__-STA_418__115_910	910	115	225	247	283	326048	3
STA_67__-STA_82___115_903	903	115	311	364	384	26322	37
STA_69__-STA_71___115_945	945	115	103	121	141	326238	3
STA_69__-STA_93___115_917	917	115	125	143	155	326237	21
STA_7___-STA_48___115_919	919	115	217	228	260	26302	38
STA_7___-STA_48___115_927	927	115	206	247	310	326039	41
STA_7___-STA_93___115_917	917	115	117	127	147	26301	34
STA_70__-SPENCPRT_115_947	947	115	113	123	135	326343	45
STA_71__-STA_70___115_946	946	115	113	123	135	326342	15
STA_82__-MORTIMER_115_7X8272	7X8272	115	258	358	410	25098	147
STA_82__-ROCHESRG_115_904	904	115	488	564	637	25081	184
STA_82__-ROCHESRG_115_905	905	115	506	584	617	26305	159
STA_82__-STA_251__115_902	902	115	176	210	237	70058	48
STA_82__-STA_48___115_916	916	115	422	504	532	326055	70
STATE_CA-PATRTAP__115_15	15	115	160	176	224	26494	44
STATE_ST-WRGHTAVE_115_976	976	115	185	221	239	26200	99
STEBBINS-DUNKIRK__230_84	84	230	556	637	637	625020	36
STERLING-RULAND___138_663	663	138	211	251	287	26498	145
STJHNVLE-MARSHVLE_115_11	11	115	159	159	159	26127	27
STLAWRNC-MOSES____230_L33P	L33P	230	299	402	446	25026	0
STLAWRNC-MOSES____230_L34P	L34P	230	317	411	446	25037	0
STOLLERD_345_115_BK 3	BK 3	345	249	299	350	25461	156
STOLLERD_345_115_BK 4	BK 4	345	249	299	349	25462	155
STOLLERD-HISHELDN_230_67	67	230	430	493	549	25064	6
STONBROK-PORTJEFF_69__877	877	69	100	120	130	326336	48
STONCREK-WETHSRFD_230_83	83	230	430	493	549	325973	15
STONER__-VAILMILL_115_12	12	115	84	84	84	25680	3
STONYRDG_230_115_BK1	BK 1	230	246	258	258	325811	72

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
STONYRDG-HILLSIDE_230_72	72	230	497	573	653	325810	52
STURGNPL-OHIOVLLE_115_OR	OR	115	182	193	193	326294	43
SUGARLOF_345_138_BK1112	BK 1112	345	425	451	475	326220	159
SUGRL_CH_138_115_T1	T-1	138	369	402	420	625050	74
SUGRL_CH-SUGRLOAF_138_30	30	138	395	460	502	625049	74
SUGRLOAF-STRLFRST_138_261	261	138	236	270	285	25326	121
SULLVNPK-STONYRDG_115_712	712	115	237	249	287	325809	72
SWAGRTWN-ROTTRDAM_115_1	1	115	402	467	478	26429	207
SWANROAD-LOCKPORT_115_103	103	115	174	181	199	26051	0
SYLVANLK-PAWLING__115_990	990	115	203	227	239	26156	107
SYOSSET_-LOCUSTGR_138_559	559	138	388	472	557	25904	153
TALLMAN_-MONSEY___138_602	602	138	425	451	475	325609	121
TAYLORVL-BREMEN___115_6	6	115	102	120	142	26070	52
TAYLORVL-WATERSRD_115_5	5	115	102	120	135	26107	0
TEALLAVE-BRIDGPRT_115_5	5	115	116	120	145	325164	59
TEALLAVE-CROUSEHD_115_13	13	115	202	219	239	326066	16
TEALLAVE-SALCARBM_115_6	6	115	187	213	236	26154	48
TEMPLE__-PEAT ST__115_10	10	115	119	152	179	26715	50
TERMINAL-PORTER___115_6	6	115	200	208	265	326140	50
TERMINAL-SCHUYLER_115_7	7	115	116	120	145	326141	14
TILDEN__-SOUTHWOD_115_19	19	115	182	197	236	26092	49
TILYFSTR-CROTONFL_115_994	994	115	176	179	179	326413	18
TODDHILL-FISHKPLN_115_A	A	115	232	253	304	325157	27
TREMONT__138A_138B_BK 11	BK 11	138	243	279	312	25649	200
TREMONT__138C_138D_BK 12	BK 12	138	243	279	312	25650	200
TREMONT__345_138_BK 11	BK11	345	245	299	339	25473	201
TREMONT__345_138_BK 12	BK12	345	246	299	339	25474	201
TREMONT_-PARKCHTR_138_38X01	38X01	138	180	320	526	25120	100
TREMONT_-PARKCHTR_138_38X02	38X02	138	180	320	526	25121	100
TREMONT_-PARKCHTR_138_38X03	38X03	138	190	318	526	25122	100
TREMONT_-PARKCHTR_138_38X04	38X04	138	190	318	526	25123	100
TULLERHL-CLRKSCRN_115_1-716	1-716	115	128	147	159	26192	2
UNIONVAL-CROTONFL_115_991	991	115	215	227	239	326417	58
VALLEY__-FAIRFIEL_115_12	12	115	116	120	145	325743	53

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
VALLYSTR_138A_138B_PAR	PAR	138	268	358	441	25607	100
VALLYSTR-BARRETT__138_291	291	138	191	282	340	25312	83
VALLYSTR-BARRETT__138_292	292	138	184	276	336	25313	94
VALLYSTR-EGRDNCTY_138_261	261	138	267	373	617	327260	85
VALLYSTR-EGRDNCTY_138_262	262	138	210	292	350	25244	137
VALLYSTR-FARRCKWY_69__270	270	69	100	120	130	326311	8
VALLYSTR-LAKEVIEW_69_264	264	69	45	56	59	325818	8
VALLYSTR-MALVERNE_69_267	267	69	73	87	92	325820	32
VERNON___138A_138B_PAR R1	PAR R1	138	299	366	421	325712	0
VERNON__-GREENWD__138_31231	31231	138	174	226	247	25337	156
VERNON__-KENTAVE__138_31232	31232	138	174	226	247	26123	108
VERNON__-W49TH_ST_138_38M72	38M72	138	149	221	221	325122	87
VINEGRHL_138_27__TR1	TR1	138	88	117	137	327488	3
VINEGRHL_138_27__TR2	TR2	138	88	117	137	625027	3
VNWAGNER-PLSNTVLY_345_Y58	Y58	345	2309	2583	2662	625044	814
VNWAGNER-PLSNTVLY_345_Y59	Y59	345	2309	2583	2662	625045	814
VOLNEY__-CLAY_____345_6	6	345	1200	1396	1686	25198	951
VOLNEY__-MARCY____345_19	19	345	1670	1931	2210	25345	638
W.NYACK_-SNKEHLRD_138_562	562	138	212	270	285	325906	82
W_ERIAVE-HICKLING_115_935	935	115	136	163	185	325568	6
W_ERIAVE-SULLVNPK_115_711	711	115	216	227	261	325808	53
W_YAPHNK-HOLTS_8G_69__853	853	69	66	83	88	26547	0
W49TH_ST_345_138_TR1	TR1	345	386	459	549	325061	172
W49TH_ST-E13THSTA_345_M54	M54	345	753	986	1566	25228	85
W49TH_ST-E13THSTA_345_M55	M55	345	753	986	1566	25222	89
WADNGRIV-NSHORBCH_138_878	878	138	422	485	592	325642	21
WADNGRIV-SHOREHAM_138_891	891	138	392	477	563	25342	51
WALCK_RD-BUFALO78_115_133	133	115	239	298	298	26153	132
WALDWICK-SMAHWAH__345_J3410	J3410	345	819	1158	1986	25032	25
WALDWICK-SMAHWAH__345_K3411	K3411	345	832	1165	1991	25039	126
WARNSBRG-SCOFLDRD_115_10	10	115	105	114	119	326148	40
WARREN__-FALCONER_115_171	171	115	116	120	140	25015	0
WATERSRD-BNVL_TAP_115_8	8	115	116	120	145	327519	35
WATERSRD-LOWVILLE_115_7	7	115	105	114	134	327520	43

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
WATKINRD-INGHAM_C_115_2	2	115	105	114	134	25805	64
WATRCURE_345_230_BK 1	BK 1	345	446	542	600	25402	102
WATRCURE_345_230_BK 2	BK 2	345	439	539	599	327087	104
WATRCURE-OAKDALE__230_71	71	230	275	400	440	25179	1
WATRCURE-OAKDALE__345_31	31	345	717	717	717	25178	169
WBALMVLE-MARLBORO_115_MW	MW	115	198	230	260	326090	17
WEST BUS-SILLSRD__138_873	873	138	492	540	618	325618	12
WETHSRFD-S.PERRY__230_85	85	230	430	494	550	325623	28
WHAVSTOR_345_138_BK 194	BK 194	345	451	546	619	25447	232
WHAVSTOR-LOVETT___138_53	53	138	187	228	268	25884	15
WHAVSTOR-STONYPNT_138_542	542	138	236	270	285	326049	3
WHAVSTRW-WHAVSTOR_345_671	671	345	451	546	619	326216	232
WHEMPSTD-CNTYLPRS_69_357-355	357-355	69	131	131	131	325822	5
WHEMPSTD-HEMPSTED_69_356	356	69	125	131	131	325823	17
WHEMPSTD-LAKEVIEW_69_352	352	69	45	56	59	325819	0
WHEMPSTD-MALVERNE_69_353	353	69	45	56	59	325821	5
WHITEHAL-COMSTKNM_115_13	13	115	116	120	145	25903	27
WHITEHAL-TICONDRG_115_3	3	115	116	120	145	26471	39
WHITMAN_-ONEIDA___115_8	8	115	146	157	159	25894	10
WICCOPEE-SHENDOAH_115_FS	FS	115	194	214	240	325773	28
WILDWOOD-RIVRHEAD_138_890	890	138	294	324	376	25905	116
WILLET__-ENORWICH_115_709	709	115	127	147	159	25732	34
WILLIS___230_115_AT1	AT1	230	150	184	216	25388	25
WILLIS___230_115_AT2	AT2	230	150	184	216	25390	25
WILLIS__-CHAT_TAP_115_1(911)	1(911)	115	135	159	175	26204	8
WILLIS__-PATNODE__230_WPN-1	WPN-1	230	434	500	532	325565	27
WILLIS__-RYAN_____230_WRY-2	WRY-2	230	396	459	524	325566	0
WILLWBRK-FRESHKLS_138_29211	29211	138	182	262	439	25319	155
WILLWBRK-FRESHKLS_138_29212	29212	138	182	262	439	25320	165
WOLF_RD_-EVERETRD_115_10	10	115	221	256	287	26255	70
WOOD_ST__345_115_BK 1	BK 1	345	302	354	420	25437	104
WOOD_ST__345_115_BK 2	BK 2	345	311	368	420	25438	68
WOOD_ST__345_115_BK_3	BK 3	345	302	354	420	625083	0
WOOD_ST_-MILLWOOD_345_W80	W80	345	1720	2157	2656	25148	1022

Name	ID	Voltage	NORM	LTE	STE	PTID	Flow
WOOD_ST_-MILLWOOD_345_W81	W81	345	1720	2157	2656	25525	1023
WOOD_ST_-PLSNTVLE_345_Y86	Y86	345	1839	2157	2656	25358	1095
WOOD_ST_-PLSNTVLE_345_Y87	Y87	345	1774	1976	2265	25132	1060
WOODLAWN-RUTHROAD_115_12	12	115	116	120	145	26490	33
WOODMERE-VALLYSTR_69__261	261	69	89	112	118	325285	22
WOODSTNY-AMAWALK__115_996	996	115	215	247	275	25574	75
WOODSTNY-KATONAH__115_901	901	115	215	247	274	326481	53
WRGHTAVE-MILLIKEN_115_973	973	115	185	221	249	26195	54
WWDBURNE-STHLOWTP_69__WH1	WH1	69	46	53	56	326487	18
WWDBURNY_115_69__BK 1	BK 1	115	48	50	50	25404	15
WYNTKLNM-REYNOLDS_115_13-988	13-988	115	186	214	237	26143	96
YAHNUNDA-DEBALSO__115_3	3	115	125	143	154	26515	64
YAWGERRD-RIDGE_RD_115_963	963	115	154	177	193	326312	
ACADEMY__138A_138B_PAR1	PAR1	138	251	312	372	325751	150
ACADEMY__138A_138B_PAR8	PAR8	138	251	312	372	325750	151
ACADEMY__345_138_TR1	T1	345	227	284	328	325753	150

Appendix E – INTERFACE DEFINITIONS

NYISO OPERATING INTERFACES & OASIS TRANSMISSION PATHS

DYSINGER EAST		
West (Zone A) – Genesee (Zone B)		
Name	**Line ID**	**Voltage (kV)**
*Dysinger-Station 255 (Henrietta)	DH1	345
*Dysinger-Station 255 (Henrietta)	DH2	345
*Lockport-N. Akron	108	115
*Lockport-Oakfield	112	115
*Lockport-Sweden 1	111	115
*Lockport-Shelby	113	115
*Lockport-Telegraph	107	115
*Lockport-Telegraph	114	115
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 49th Street	M51	345
*Sprain Brook-West 49th Street	M52	345
*Sprain Brook-Academy	M29	345
*Dunwoodie-Sherman Creek	99031	138
*Dunwoodie-Sherman Creek	99032	138
*Dunwoodie-East 179th Street	99153	138
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-Sandstone	5	115
*Alcoa-N. Ogdensburg	13	115
Parishville-Colton*	3	115

UPNY-CONED		
Hudson Valley (Zone G) – Millwood (Zone H)		
Name	**Line ID**	**Voltage (kV)**
*Lovett-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

UPNY-SENY		
Mohawk Valley (Zone E) – Hudson Valley (Zone G)		
Name	**Line ID**	**Voltage (kV)**
Middletown-Rock Tavern*	CCRT34	345
Coopers Corners-Dolson Ave.*	CCDA42	345
Middletown 345*/138	BK114	345/138
West Woodbourne 115/69*	BK1	115/69
Capital (Zone F) – Hudson Valley (Zone G)		
*Athen-Van Wagner	91	345
*Leeds-Van Wagner	92	345
*Leeds-Hurley Ave.	301	345
Churchtown-North Catskill*	12	115
Blue Stores-Milan*	T7	115
Knickerbocker-Pleasant Valley*	Y57	345
*Feura Bush-North Catskill	2	115

* indicates the metered end of the circuit

TOTAL EAST		
Mohawk Valley (Zone E) – Capital (Zone F)		
Name	**Line ID**	**Voltage (kV)**
Edic-Gordon Rd.*	14	345
Marcy-New Scotland*	18	345
*Fraser-Gilboa	GF5-35	345
*Edic-Princetown	351	345
*Edic-Princetown	352	345
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

CENTRAL EAST		
Mohawk Valley (Zone E) – Capital (Zone F)		
Name	**Line ID**	**Voltage (kV)**
Edic-Gordon Rd.*	14	345
Marcy-New Scotland*	18	345
*Edic-Princetown	351	345
*Edic-Princetown	352	345
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

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-ISONE		
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)		
*Cricket Valley-Long Mountain	398	345
Smithfield-Salisbury*	690/FV	69

* 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-Homer City	47	345
*Homer City-Mainesburg	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-Homer City	48	345
*Homer City-Pierce Brook	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)		
*Closter-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

WESTERN EXPORT		
West (Zone A) – Ontario South (Zone O)		
Name	**Line ID**	**Voltage (kV)**
*Niagara-Beck	PA301	345
*Niagara-Beck	PA302	345
*Niagara-Beck	PA27	230
Packard-Beck*	BP76	230
West (Zone A) – PJM West		
Five Mile Road-Pierce Brook*	37	345
*Pierce Brook-Homer City	48	345
*Homer City-Pierce Brook	48	345
* South Ripley-Erie East	69	230
Falconer-Warren*	171	115
West (Zone A) – Genesee (Zone B)		
*Dysinger-Station 255 (Henrietta)	DH1	345
*Dysinger-Station 255 (Henrietta)	DH2	345
*Lockport-N. Akron	108	115
*Lockport-Oakfield	112	115
*Lockport-Sweden 1	111	115
*Lockport-Shelby	113	115
*Lockport-Telegraph	107	115
*Lockport-Telegraph	114	115
West (Zone A) – Central (Zone C)		
*Stolle Road-High Sheldon	67	230
*Andover-Palmiter	157-932	115

OSWEGO EXPORT	
Oswego Complex Generation Export Limit	
Name	**Gen ID**
Sithe Unit G1	Stihe-G1
Sithe Unit G2	Sithe-G2
Sithe Unit G3	Sithe-G3
Sithe Unit G4	Sithe-G4
Sithe Unit G5	Sithe-G5
Sithe Unit G6	Sithe-G6
Fitzpatrick Generator	Fitz
Nine Mile Point 1 Generator	9 mile #1
Nine Mile Point 2 Generator	9 mile #2
Oswego 5 Generator	Oswego 5
Oswego 6 Generator	Oswego 6

* indicates the metered end of the circuit

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

West Central		
Genesee (Zone B) – Central (Zone C)		
Name	**Line ID**	**Voltage (kV)**
Pannell Rd-Clay*	PC1	345
Pannell Rd-Clay*	PC2	345
*Quaker-Macedon	930	115
*Mortimer-Hook Rd- Elbridge	1/7	115
*Mortimer-Elbridge	2	115
*Pannell-Farmington	4	115
*Quaker-Sleight Rd	13	115
*St. 162 - S. Perry	906	115
Hook Rd (RGE-NGRID)	TB#3	34.5/115
Clyde	TR1	34.5/115
(Farmington 34.5/115kV)	#7	34.5/115
(Farmtington 34.5/115kV&12/115 kV)	#4	34.5/115 & 12/115
West (Zone A) – Central (Zone C)		
*Stolle Road-High Sheldon	67	230
*Andover-Palmiter	157-932	115

* indicates the metered end of the circuit

Appendix F – ANNOTATED TARA OUTPUT

This Section Is Available Electronically If Requested

Appendix G – COMPARSION OF TRANSFER LIMITS SUMMER 2024 VS. 2023

		SUMMER 2024		SUMMER 2023		
Interface		**Limit (MW)**	**Contingency**	**Limit (MW)**	**Contingency**	**Delta**
Dysinger East	Normal	1850	1	1825	1	-
	Emergency	2125	2	2150	2	-
West Central Reverse	Normal	1775	3	1950	4	-175
	Emergency	2200	5	2300	6	100
UPNY - SENY	Normal	5975	7	4975	8	1000
	Emergency	6150	9	5425	9	725
UPNY - ConEd	Normal	7350	10	7150	11	200
	Emergency	8450	9	7825	9	625
Sprain Brook Dunwoodie-South	Normal	4225	12	4275	13	-50
	Emergency	4225	14	4275	14	-50
Con Ed - LIPA	Normal	925	15	900	15	25
	Emergency	1400	16	1500	16	-100
Central East	**MSC-7040 FLOW**	**HQ -> NY**	**1600 MW**	**HQ -> NY**	**1600 MW**	
	Normal	3625	17	1825	18	1800
	Emergency	4200	19	2725	20	1475
	MSC-7040 FLOW	**HQ -> NY**	**1310 MW**	**HQ -> NY**	**1310 MW**	
	Normal	3625	17	1825	18	1800
	Emergency	4200	19	2825	20	1375
	MSC-7040 FLOW	**HQ -> NY**	**800 MW**	**HQ -> NY**	**800 MW**	
	Normal	3575	17	1825	18	1750
	Emergency	4100	19	2725	20	1375
Total East [1]	**MSC-7040 FLOW**	**HQ -> NY**	**1600 MW**	**HQ -> NY**	**1600 MW**	
	Normal	3275	21	3200	18	75
	Emergency	4775	22	4250	22	525
	MSC-7040 FLOW	**HQ -> NY**	**1310 MW**	**HQ -> NY**	**1310 MW**	
	Normal	3275	21	3200	18	75
	Emergency	4775	22	4250	22	525
	MSC-7040 FLOW	**HQ -> NY**	**800 MW**	**HQ -> NY**	**800 MW**	
	Normal	3200	21	3200	18	-
	Emergency	4725	22	4200	22	525
Moses - South	**MSC-7040 FLOW**	**HQ -> NY**	**1600 MW**	**HQ -> NY**	**1600 MW**	
	Normal	2100	24	1975	26	225
	Emergency	2350	25	2800	27	-450
	MSC-7040 FLOW	**HQ -> NY**	**1310 MW**	**HQ -> NY**	**1310 MW**	
	Normal	1900	23	1950	26	-50
	Emergency	2625	27	2600	27	25
	MSC-7040 FLOW	**HQ -> NY**	**800 MW**	**HQ -> NY**	**800 MW**	
	Normal	1625	23	1925	26	-300
	Emergency	2100	28	2225	27	-125

[1] Limits in this report do not include Neptune in the Total East Interface.

NYISO SUMMER 2024 CROSS-STATE THERMAL LIMIT CONTINGENCY LIST

	Limiting Element	Rating		Contingency	
(1)	Niagara – Packard (61) 230 kV	@STE[3]	846 MW	L/O	Niagara – Packard (62) 230 kV Beck – Packard (BP76) 230 kV
(2)	Niagara – Dysinger (ND1) 345 kV	@STE	1685 MW	L/O	Niagara – Dysinger (ND2)
(3)	Pannell – Clay (PC2) 345 kV	@LTE	1315 MW	L/O	Pannell – Clay (PC1) 345 kV Clay – Edic (1-16) 345 kV
(4)	Belmont – Woodard (4) 115 kV	@STE	195 MW	L/O	Dewitt – Lafayette (22) 345 kV Elbridge – Lafayette (17-LE) 345 kV Oswego – Elbridge (17) 345 kV Elbridge 345/115 kV transformer (BK1)
(5)	Sta. 56 – Sta. 89 (25) 115 kV	@STE	129 MW	L/O	Rochester - Pannell (RP2) 345 kV
(6)	Pannell – Sta. 56 (24) 115 kV	@NORM	129 MW		Pre-Contingency Loading
(7)	Pleasant Valley – Wood Street (F30) 345 kV	@LTE	2157 MW	L/O	East Fishkill – Wood Street (F38) 345kV East Fishkill – Wood Street (F39) 345kV
(8)	Dolson Ave – Rock Tavern (DART44) 345 kV	@LTE	1852 MW	L/O	Middletown TAP – Rock Tavern (CCRT34) 345 kV Coopers Corners – Middletown TAP (CCRT34) 345 kV Roseton – Rock Tavern (311) 345 kV Middletown 345/138 kV Transformer
(9)	Coopers Corners – Middletown TAP (CCRT34) 345 kV	@STE	1793 MW	L/O	Dolson Ave – Rock Tavern (DART44) 345 kV
(10)	Lovett – Buchanan (Y88) 345 kV	@LTE	1894 MW	L/O	Pleasant Valley – Wood St (F30) 345 kV Pleasant Valley – Wood St (F31) 345 kV
(11)	Ladentown – Buchanan (Y88) 345 kV	@LTE	1894 MW	L/O	Millwood – Wood St. (W80) 345kV Pleasant Valley – Wood St (F30) 345 kV Wood St. Transformer 345/115 kV (BK 2)
(12)	Mott Haven – Rainey (Q11) 345 kV	@MTE[1]	1066 MW	L/O	Rainey – Corona (PAR 5W) 138 kV Mott Haven – Rainey W. (5W) 345/138/13.8 kV Transformer Mott Haven – Rainey W. (Q12) 345 kV
(13)	Mott Haven – Rainey (Q11) 345 kV	@MTE[2]	1066 MW	L/O	(SB:MOTT345_7) Dunwoodie – Mott Haven (72) 345 kV Mott Haven 345/138 kV Transformer (TR9)
(14)	Dunwoodie – Mott Haven (71) 345 kV	@NORM	707 MW		Pre-Contingency Loading
(15)	Dunwoodie – Shore Rd. (Y50) 345 kV	@LTE	916 MW[3]	L/O	(SB:SPRA345_RNS2) Sprain Brook – East Garden City (Y49) 345 kV Sprain Brook – Academy (M29) 345 kV
(16)	Dunwoodie – Shore Rd. (Y50) 345 kV	@NORM	656 MW[3]		Pre-Contingency Loading
(17)	Fraser – Coopers Corner (33) 345 kV	@LTE	1721 MW	L/O	Edic – Princetown (351) 345 kV Marcy – Coopers Corner (UCC2-41) 345 kV
(18)	Gordon Road – Rotterdam (30) 345/230kV Transformer	@LTE	562 MW	L/O	Gordon Road – Princetown 345 kV (371) Gordon Road (31) 345/230 kV Transformer

(19)	New Scotland – Leeds (93) 345 kV	@STE	1724 MW	L/O	New Scottland– Leeds (94) 345 kV
(20)	Edic – Gordon Road (14) 345 kV	@STE	1724 MW	L/O	Marcy – New Scotland 345 kV (18)
(21)	Sugarloaf – Sterling Forest (28)138 kV	@STE	285 MW	L/O	Rock Tavern – Ramapo (76) 345 kV Rock Tavern – Ramapo (77) 345 kV
(22)	Coopers Corners – Middletown TAP (CCRT34) 345 kV	@STE	1793 MW	L/O	Dolson Ave – Rock Tavern (DART44) 345 kV
(23)	Adirondack – Porter (12) 230 kV	@LTE	478 MW	L/O	Marcy – Massena (MSU1) 765 kV Massena – Chateaguay (7040) 765 kV
(24)	Moses – Adirondack (MA1) 230 kV	@LTE	386 MW	L/O	Chateauguay – Massena (MSC-7040) 765 kV Massena – Marcy (MSU1) 765 kV
(25)	Moses – Adirondack (MA2) 230 kV	@ STE	440 MW	L/O	Marcy – Massena (MSU1) 765 kV
(26)	Moses – Adirondack (MA2) 230 kV	@LTE	386 MW	L/O	Massena – Marcy (MSU1) 765 kV
(27)	Flat Rock – Browns Falls (1) 115 kV	@STE	142 MW	L/O	Browns Falls – Higley (1) 115 kV
(28)	Adirondack – Porter (12) 230 kV	@STE	560 MW	L/O	Moses – Massena (MSU1) 765 kV

Table-1 DISTRIBUTION FACTORS FOR DYSINGER EAST CIRCUITS

Monitored Element		Base Flow	TRANSFER	DYSINGER-STA255	STOLLE-HIGHSHELDON	LOCKPT-SHEL	LOCKPT-SOUR
DYSINGER	345 STATION 255 345 1	-80.83	31.91%	TRIP	17.63%	18.41%	20.29%
DYSINGER	345 STATION 255 345 2	-80.83	31.91%	65.41%	17.63%	18.41%	20.29%
STOLE230	230 SHLDN230 230 1	-5.74	10.14%	3.90%	TRIP	4.92%	5.42%
PALMT115	115 ANDOVER1 115 1	3.03	1.48%	0.94%	10.28%	0.73%	0.80%
LOCKPORT	115 SHEL-113 115 1	16.56	2.40%	2.52%	3.04%	TRIP	14.84%
LOCKPORT	115 NAKR-108 115 1	26.58	0.89%	0.93%	1.12%	3.52%	3.81%
LOCKPORT	115 OAKFLDTP 115 1	26.59	0.99%	1.04%	1.26%	3.94%	4.26%
LOCKPORT	115 SOUR-111 115 1	11.02	2.44%	2.56%	3.09%	13.69%	TRIP
LOCKPORT	115 TELRD107 115 1	41.63	1.14%	1.19%	1.44%	6.16%	6.05%
LOCKPORT	115 TELRD114 115 1	22.61	2.40%	2.52%	3.04%	18.49%	11.28%
SUB-TOTALS			85.70%	81.00%	58.54%	88.26%	87.06%
L33P-L34P		-0.35	4.22%	6.77%	9.30%	4.02%	4.43%
PJM-NYISO		582.94	3.92%	12.18%	32.10%	7.69%	8.47%
TOTALS			93.84%	99.95%	99.95%	99.97%	99.96%

Table-2 DISTRIBUTION FACTORS FOR WEST CENTRAL CIRCUITS

Monitored Element			Base Flow	TRANSFER	PANNEL-CLAY (1)	PANNEL-CLAY (2)	STOLLE-SHLDN	PANNEL-FARM	S121-SLEGH
PANNELL3	345 CLAY	345 1	600.26	30.98%	TRIP	-55.00%	10.38%	19.57%	19.15%
PANNELL3	345 CLAY	345 2	602.18	31.08%	-55.08%	TRIP	10.41%	19.64%	19.21%
STOLE230	230 SHLDN230	230 1	5.74	10.14%	-3.03%	-3.03%	TRIP	7.83%	2.45%
ANDOVER1	115 PALMT115	115 1	-3.03	1.48%	-0.43%	-0.43%	10.28%	2.40%	0.53%
MORTIMER	115 LAWLER-1	115 1	-35.61	2.53%	-2.54%	-2.55%	1.27%	14.54%	4.19%
MORTIMER	115 LAWLER-2	115 1	-3.25	2.63%	-2.80%	-2.80%	1.17%	5.93%	4.73%
PANNELLI	115 FRMGTN-4	115 1	-87.32	3.27%	-5.94%	-5.95%	8.14%	TRIP	16.69%
QUAKER	115 MACDN115	115 1	30.00	3.33%	-0.48%	-0.48%	0.36%	3.33%	19.18%
S121 B#2	115 SLEIG115	115 1	-30.72	2.76%	-3.83%	-3.84%	1.68%	11.02%	TRIP
STA 162	115 S.PER115	115 1	-14.79	0.50%	-1.82%	-1.83%	14.85%	4.56%	1.89%
SUB-TOTALS				88.70%	-75.95%	-75.91%	58.54%	88.81%	88.02%
L33P-L34P			0.50	0.00%	-8.88%	-8.90%	9.30%	2.78%	3.92%
PJM-NYISO			-62.50	13.73%	-15.10%	-15.13%	32.10%	8.40%	8.04%
TOTALS				102.43%	99.93%	99.93%	99.94%	99.99%	99.98%

Table-3 DISTRIBUTION FACTORS FOR TOTAL EAST CIRCUITS

Monitored Element			Base Flow	TRANSFER	EDIC34-GORDON	FRASER-GILBA	MARCY3-NSCOT	WALD-SMAWA	HOPATCONG-RAMPO	LINDEN-GOETH
COOPC345	345 DOLSON_AVE	345 2	410.83	16.17%	4.63%	16.21%	6.01%	0.44%	4.92%	1.12%
EDIC	345 GORDONRD	345 1	422.01	11.27%	TRIP	11.59%	17.78%	0.16%	1.99%	2.16%
FRASR345	345 GILB 345	345 1	-61.04	13.59%	12.29%	TRIP	16.06%	0.21%	2.82%	4.11%
MARCY T1	345 N.SCOT99	345 1	473.76	13.28%	16.73%	14.26%	TRIP	0.19%	2.36%	2.55%
MDTN TAP	345 ROCK TAV	345 1	402.93	14.51%	4.34%	15.09%	5.63%	0.51%	4.24%	1.35%
WALDWICK	345 SMAHWAH1	345 1	-124.91	0.14%	1.06%	1.34%	1.34%	TRIP	26.35%	20.61%
WALDWICK	345 SMAHWAH2	345 1	-23.86	-0.14%	1.09%	1.30%	1.37%	91.06%	26.81%	21.59%
MDTN TAP	345 SHOEMTAP	138 1	267.95	2.32%	0.42%	1.58%	0.54%	-0.09%	0.95%	-0.31%
SMAHWAH1	345 SMAH138	138 1	-147.07	0.41%	-0.04%	0.06%	-0.05%	-3.47%	-0.56%	-1.32%
HCOR138	138 CORPORATE DR	138 1	-60.29	0.01%	0.00%	0.00%	0.00%	0.05%	0.01%	0.02%
SMAH138	138 RAMP138	138 1	-96.49	-0.28%	0.02%	-0.05%	0.03%	2.78%	0.59%	0.86%
E.SPR115	115 INGHAM-E	115 1	-27.02	0.76%	0.25%	2.35%	-0.04%	0.01%	0.11%	0.15%
INGMS-CD	115 INGHAM-E	115 1	119.93	0.00%	3.31%	0.59%	2.78%	0.03%	0.36%	0.37%
NE_PV20_NY	115 CUMBERLAND	115 1	104.24	0.00%	1.51%	1.16%	1.76%	0.05%	0.59%	0.65%
W.WDB115	115 W.WDBR69	69.0 1	15.09	0.57%	0.33%	1.02%	0.41%	0.01%	0.09%	0.16%
CLOSTER	69.0 SPARKILL	69.0 1	-3.35	0.05%	0.01%	0.03%	0.01%	0.04%	-0.01%	0.07%
HCOR69	69.0 WNYA69	69.0 1	-15.31	0.11%	0.02%	0.06%	0.03%	0.08%	-0.02%	0.14%
MONTVALE	69.0 BLUHILL	69.0 1	2.21	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MONTVALE	69.0 BLUHILL	69.0 2	2.21	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MONTVALE	69.0 L491T	69.0 1	-34.26	0.08%	0.02%	0.04%	0.02%	0.12%	0.00%	0.11%
SMAH69	69.0 HILB69	69.0 1	-34.10	-0.37%	-0.03%	-0.15%	-0.04%	0.42%	-0.02%	0.13%
HCOR34	34.5 PEARL34	34.5 1	-2.46	-0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	-0.01%
Edic	345 Princetown	345 1	463.18	12.77%	24.93%	13.46%	20.55%	0.18%	2.27%	2.44%
Edic	345 Princetown	345 2	462.88	12.76%	24.91%	13.46%	20.54%	0.18%	2.27%	2.44%
SUB-TOTALS					95.79%	93.40%	94.72%	92.92%	76.13%	59.39%
RAMAPO 5	500 HOPATCONG	500 1	316.09	0.00%	2.03%	2.70%	2.56%	4.02%	TRIP	24.44%
NEPTCONV	345 NWBRG	345 1	375.53	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
COGNTECH	345 G22_VFT345KV	345 1	296.35	0.00%	0.39%	0.70%	0.49%	0.56%	4.37%	16.04%
B3402 PAR1	345 MARION	345 1	0.00	0.00%	O/S	O/S	O/S	O/S	O/S	O/S
C3403 PAR2	345 MARION	345 1	0.00	0.00%	O/S	O/S	O/S	O/S	O/S	O/S
GOETHALS	230 LINDEN	230 1	0.07	0.00%	1.74%	3.13%	2.19%	2.49%	19.36%	TRIP
TOTALS					99.95%	99.94%	99.95%	99.99%	99.86%	99.87%

Table-4 DISTRIBUTION FACTORS FOR UPNY-CONED CIRCUITS

Monitored Element			Base Flow	TRANSFER	LADNTW-BUCHS	PLVLLY-E.FISHK	RAMAPO-BUCHN	ROSETN-E.FISHK	LINDEN-GOETH
LADENTWN	345 BUCHANAN S	345 1	1019.13	16.10%	TRIP	57.58%	-3.62%	27.57%	33.10%
PLTVLLEY	345 E FISHKILL	345 1	543.15	9.79%	-7.01%	-0.53%	TRIP	33.42%	1.37%
PLTVLLEY	345 E FISHKILL	345 2	543.15	9.79%	-7.01%	-0.53%	64.71%	33.42%	1.37%
PLTVLLEY	345 WOOD B	345 1	1098.49	16.00%	14.49%	4.39%	8.83%	-8.78%	3.91%
PLTVLLEY	345 WOOD C	345 1	1098.43	16.00%	14.49%	4.39%	8.83%	-8.78%	3.91%
RAMAPO	345 BUCHANAN N	345 1	897.33	14.63%	42.82%	TRIP	-0.20%	15.03%	22.32%
ROSETON	345 E FISHKILL	345 1	1278.19	14.31%	27.22%	19.96%	17.04%	TRIP	13.69%
E FISH I	115 E FISHKILL	345 1	-87.65	0.61%	0.11%	0.32%	2.52%	3.70%	0.29%
FISHKILL	115 SYLVN115	115 1	124.91	0.76%	0.75%	0.35%	-0.20%	-0.16%	0.28%
	SUB_TOTALS			98.00%	85.85%	85.93%	97.90%	95.40%	80.25%
B3402 PAR1	345 MARION	345 1	0.00	0.00%	O/S	O/S	O/S	O/S	O/S
C3403 PAR2	345 MARION	345 1	0.00	0.00%	O/S	O/S	O/S	O/S	O/S
GOETHALS	230 LINDEN	230 1	0.07	0.00%	10.56%	9.57%	0.23%	4.42%	TRIP
COGNTECH	345 G22_VFT345KV	345 1	296.35	0.00%	2.39%	2.16%	0.05%	1.00%	16.04%
NRTHPT P	138 NRTHPT1	138 1	100.00	0.00%	1.20%	2.34%	1.82%	-0.83%	3.71%
	TOTALS			98.00%	100.00%	100.00%	100.00%	100.00%	99.99%

Table-5 DISTRIBUTION FACTORS FOR SPRAINBROOK DUNWOODIE SOUTH CIRCUITS

Monitored Element			Base Flow	TRANSFER	DUNWDE-RAINY	SPRAIN-W49TH	SPRAIN-TRMNT	LKSUC-JMAICA	VSTR-KMAICA
REAC71	345 MOTT HAVEN	345 3	561.29	25.63%	TRIP	4.72%	19.18%	-7.75%	7.91%
REAC72	345 MOTT HAVEN	345 4	560.16	25.59%	22.82%	4.71%	19.14%	-7.74%	7.90%
REACM51	345 W 49 ST	345 1	570.50	24.39%	18.74%	4.89%	TRIP	-7.63%	7.56%
REACM52	345 W 49 ST	345 2	570.50	24.39%	18.74%	4.89%	21.63%	-7.63%	7.56%
SPRAINBROOK	345 ACADEMY	345 1	300.83	0.00%	2.81%	21.14%	2.99%	-3.67%	3.61%
SPRAINBROOK	345 TREMONT	345 1	400.76	0.00%	3.24%	TRIP	3.43%	-4.22%	4.14%
DUN NO1R	138 S CREEK W	138 1	114.80	0.00%	1.76%	12.26%	1.65%	-2.13%	2.15%
DUN NO2R	138 S CREEK E	138 1	114.92	0.00%	2.09%	14.53%	1.95%	-2.53%	2.55%
DUN SO1R	138 E179 ST W	138 1	179.82	0.00%	2.81%	19.58%	2.64%	-3.41%	3.43%
L SUCSPH	138 JAMAICA	138 1	199.75	0.00%	6.13%	4.68%	5.99%	-46.60%	TRIP
V STRM P	138 JAMAICA	138 1	99.90	0.00%	6.06%	4.81%	6.11%	TRIP	47.04%
	SUB-TOTALS			100.00%	85.18%	96.21%	84.70%	-93.31%	93.83%
B3402 PAR1	345 MARION	345 1	0.00	0.00%	O/S	O/S	O/S	O/S	O/S
C3403 PAR2	345 MARION	345 1	0.00	0.00%	O/S	O/S	O/S	O/S	O/S
GOETHALS	230 LINDEN	230 1	0.07	0.00%	12.09%	3.09%	12.48%	-5.46%	5.03%
COGNTECH	345 G22_VFT345KV	345 1	314.00	0.00%	2.73%	0.70%	2.82%	-1.23%	1.14%
	TOTALS			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	MOSES-ADRONB1	MOSES-ADRONB2
MASS 765	765 MARCY765	765 1	1534.63	77.00%	**66.33%**	TRIP	30.09%	30.14%
MOSES W	230 ADRON B1	230 1	74.88	7.98%	2.58%	**15.81%**	TRIP	55.84%
MOSES W	230 ADRON B2	230 1	75.29	8.01%	2.58%	15.85%	**55.91%**	TRIP
ALCOA-NM	115 BRADY	115 1	19.30	1.14%	0.45%	2.27%	0.53%	0.53%
ALLENS F	115 COLTON	115 1	1.31	1.47%	0.07%	0.94%	0.29%	0.29%
DENNISON	115 ANDRWS-4	115 1	20.47	2.20%	0.87%	4.38%	1.01%	1.02%
DENNISON	115 LWRNCE-B	115 1	19.37	2.20%	0.87%	4.38%	1.01%	1.02%
	SUB_TOTALS			**100.00%**	**73.76%**	**43.64%**	**88.83%**	**88.82%**
MOSES E	230 ST_LAWR_L33P	230 1	1.10	0.00%	11.51%	22.17%	4.40%	4.41%
MOSES E	230 ST_LAWR_L34P	230 1	0.00	0.00%	11.80%	22.73%	4.51%	4.52%
CUMBERLAND	115 NE_PV20_NY	115 1	104.40	0.00%	2.93%	11.46%	2.25%	2.26%
	TOTALS			**100.00%**	**100.00%**	**100.00%**	**100.00%**	**100.00%**

Table-7 DISTRIBUTION FACTORS FOR NEISO NYISO CIRCUITS

Monitored Element				Base Flow	TRANSFER	ALPS34-BERK	CV.345-LNGMT	EASTOVER-BEARSWAMP
NE_393_NY	345 ALPS345	345 1		90.94	33.33%	TRIP	-38.57%	38.65%
NE_398_NY	345 CKTVLLEY	345 1		-46.82	53.85%	-50.22%	TRIP	26.18%
NE_E205W_NY	230 EASTOVER RD	230 1		-63.15	8.89%	-16.39%	-8.53%	TRIP
NE_K7_NY	115 WHITEHAL	115 1		0.00	0.00%	-8.40%	-4.43%	7.64%
NE_K6_NY	115 HOOSICK	115 1		-4.08	2.94%	-7.66%	-2.87%	18.27%
NE_PV20_NY	115 CUMBERLAND	115 1		104.25	0.00%	-6.10%	-4.23%	3.09%
NE_690_NY	69.0 SMITHFLD	69.0 1		1.21	0.99%	-0.98%	-2.77%	0.53%
NE_601_NY	138 NRTHPT P	138 1		33.40	0.00%	-3.32%	-12.83%	1.82%
NE_602_NY	138 NRTHPT P	138 2		33.50	0.00%	-3.31%	-12.79%	1.81%
NE_603_NY	138 NRTHPT P	138 3		33.30	0.00%	-3.29%	-12.70%	1.80%
SHM DC	138 SHOREHAM2	138 1		329.50	0.00%	0.00%	0.00%	0.00%
TOTALS				100.00%	99.66%	99.70%	99.79%	

Table-8 DISTRIBUTION FACTORS FOR ONTARIO NYISO CIRCUITS

Monitored Element		Base Flow	TRANSFER	BECK-NIAG301	BECK-NIAG302	PA27-NIAGAR	BP76-PACKD2	MOSE-STLAWL34	MOSE-STLAWL33
BECK_#2_H301 345 NIAG 345	345 1	24.45	33.34%	TRIP	55.74%	33.98%	31.85%	7.39%	7.27%
BECK_#2_H302 345 NIAG 345	345 1	24.45	33.34%	55.74%	TRIP	33.98%	31.85%	7.39%	7.27%
BECK_#2_BP76 230 PACKARD2	230 1	-47.95	17.43%	20.58%	20.58%	TRIP	29.70%	3.74%	3.68%
BECK_#2_PA27 230 NIAGAR2W	230 1	12.87	15.88%	16.78%	16.78%	25.84%	TRIP	3.37%	3.31%
ST_LAWR_L33P 230 MOSES E	230 1	-0.19	0.00%	1.45%	1.45%	1.21%	1.26%	TRIP	66.07%
ST_LAWR_L34P 230 MOSES E	230 1	0.00	0.00%	1.42%	1.42%	1.18%	1.22%	65.51%	TRIP
SUB-TOTALS			100.00%	95.97%	95.97%	96.21%	95.89%	87.40%	87.60%
ON-MICH		-0.63	0.00%	3.75%	3.75%	3.54%	3.83%	11.56%	11.37%
TOTALS			100.00%	99.73%	99.73%	99.74%	99.72%	98.96%	98.97%

Table-9 DISTRIBUTION FACTORS FOR PJM-NYISO CIRCUITS

Monitored Element				Base Flow	TRANSFER	HOPATCONG-RAMPO	LINDEN-GOETH	WALDWK-SMAWA	PIERCE-5MILE	MAIN-WATER	E.TOWD-HILLS	Erie-S.RIPLEY
HOPATCONG	500	RAMAPO 5	500 1	700.43	0.00%	TRIP	24.48%	4.02%	9.97%	10.12%	9.03%	6.89%
G22_VFT345KV	345	COGNTECH	345 1	314.00	0.00%	4.38%	16.05%	0.56%	1.38%	1.39%	1.04%	0.96%
MARION	345	B3402 PAR1	345 1	0.00	0.00%	O/S	O/S	O/S	O/S	O/S	O/S	O/S
MARION	345	C3403 PAR2	345 1	0.00	0.00%	O/S	O/S	O/S	O/S	O/S	O/S	O/S
NEPTCONV	345	NWBRG	345 1	660.00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
26MAINESBURG	345	WATRC345	345 1	128.57	28.07%	4.05%	3.13%	0.34%	17.68%	TRIP	27.08%	6.87%
26HOMER CY	345	NY_HOMER_WAT	345 Z1	178.00	0.00%	3.22%	2.60%	0.28%	13.10%	-61.73%	9.71%	6.45%
26MAINESBURG	345	NY_MAINESBUR	345 Z1	176.00	0.00%	-3.22%	-2.60%	-0.28%	-13.10%	61.73%	-9.71%	-6.45%
26PIERCEBRK	345	5MILE345	345 1	173.46	20.41%	3.79%	2.95%	0.32%	TRIP	16.81%	5.87%	23.76%
26HOMER CY	345	NY_HOMER_STO	345 Z1	207.00	0.00%	2.39%	1.88%	0.20%	-55.38%	11.56%	0.95%	10.22%
26PIERCEBRK	345	NY_PIERCEBRK	345 Z1	209.00	0.00%	-2.39%	-1.88%	-0.20%	55.38%	-11.56%	-0.95%	-10.22%
WALDWICK	345	SMAHWAH1	345 1	145.63	-0.07%	26.85%	21.62%	91.06%	5.83%	6.02%	4.55%	4.09%
WALDWICK	345	SMAHWAH2	345 1	34.35	0.07%	26.38%	20.64%	TRIP	5.46%	5.63%	4.24%	3.83%
26E.TWANDA	230	HILSD230	230 1	86.63	18.89%	3.75%	2.43%	0.27%	6.42%	28.16%	TRIP	4.05%
26ERIE E REA	230	S RIPLEY	230 1	17.35	9.32%	1.18%	0.93%	0.10%	12.38%	2.98%	1.76%	TRIP
LINDEN	230	GOETHALS	230 1	84.09	0.00%	19.40%	TRIP	2.49%	6.14%	6.21%	4.63%	4.30%
SMAHWAH1	345	SMAH138	138 1	-161.03	0.20%	-0.56%	-1.32%	-3.47%	-0.51%	-0.54%	-0.42%	
HCOR138	138	CORPORATE DR	138 1	-60.27	0.00%	0.01%	0.02%	0.05%	0.00%	0.00%	0.00%	17.36%
SMAH138	138	RAMP138	138 1	-87.75	-0.13%	0.59%	0.87%	2.78%	0.33%	0.35%	0.27%	1.34%
26E.SAYRE	115	N.WAV115	115 1	21.76	6.67%	1.27%	0.84%	0.09%	2.56%	8.17%	25.13%	0.72%
26LAUREL L	115	WESTOVER115	115 1	-46.42	6.61%	1.32%	0.86%	0.10%	1.30%	3.22%	9.90%	0.00%
26WARREN	115	FALCONER	115 1	O/S	O/S	O/S	O/S	O/S	O/S	O/S	O/S	0.23%
CLOSTER	69.0	SPARKILL	69.0 1	-2.84	0.02%	-0.01%	0.07%	0.04%	0.01%	0.00%	0.00%	-0.36%
HCOR69	69.0	WNYA69	69.0 1	-14.24	0.05%	-0.02%	0.14%	0.08%	0.01%	0.01%	0.01%	0.00%
MONTVALE	69.0	BLUHILL	69.0 1	2.21	0.00%	O/S	O/S	O/S	O/S	O/S	O/S	0.00%
MONTVALE	69.0	BLUHILL	69.0 2	2.21	0.00%	O/S	O/S	O/S	O/S	O/S	O/S	0.11%
MONTVALE	69.0	L491T	69.0 1	-33.51	0.04%	0.00%	0.11%	0.12%	0.01%	0.01%	0.01%	0.01%
SMAH69	69.0	HILB69	69.0 1	-31.24	-0.18%	-0.02%	0.13%	0.42%	0.15%	0.17%	0.13%	0.00%
HCOR34	34.5	PEARL34	34.5 1	-2.51	0.00%	0.00%	-0.01%	0.00%	0.00%	0.00%	0.00%	0.01%
SUB-TOTALS					**97.00%**	**92.36%**	**93.92%**	**99.35%**	**69.09%**	**88.71%**	**93.23%**	**74.18%**
ON-MICH				-0.63	0.00%	6.80%	5.32%	0.54%	23.81%	9.96%	5.94%	23.97%
TOTALS					**97.00%**	**99.16%**	**99.24%**	**99.89%**	**92.90%**	**98.67%**	**99.18%**	**98.15%**