

PJM 2020/2021 Stage 1A Over Allocation Notice

This document is to inform PJM members that Stage 1A of the 2020/2021 Annual ARR Allocation was infeasible and PJM was required per PJM Tariff and Operating Agreement to increase the capability limits on these facilities in order to allocate all Stage 1A ARRs.

Section 7.4.2 (i) of the PJM OATT and Operating Agreement states:

If any Auction Revenue Right requests made during Stage 1A of the annual allocation process are not feasible due to system conditions, then PJM shall increase the capability limits of the binding constraints that would have rendered the Auction Revenue Rights infeasible to the extent necessary in order to allocate such Auction Revenue Rights without their being infeasible unless such infeasibility is caused by extraordinary circumstances. Such increased limits shall be included in all rounds of the annual allocation and auction processes and in subsequent modeling during the Planning Year to support any incremental allocations of Auction Revenue Rights and monthly and balance of the Planning Period Financial Transmission Rights auctions unless and to the extent those system conditions that contributed to infeasibility in the annual process are not extant for the time period subject to the subsequent modeling, such as would be the case, for example, if transmission facilities are returned to service during the Planning Year. In these cases, any increase in the capability limits taken under this subsection (i) during the annual process will be removed from subsequent modeling to support any incremental allocations of Auction Revenue Rights and monthly and balance of the Planning Period Financial Transmission Rights auctions. In addition, PJM may remove or lower the increased capability limits, if feasible, during subsequent FTR Auctions if the removal or lowering of the increased capability limits does not impact Auction Revenue Rights funding and net auction revenues are positive.

The below facilities were infeasible and required an increase to the capability limits. These increases will be modeled for all future rounds of the 2020/2021 Annual ARR Allocation and all FTR Auctions effective for the 2020/2021 planning period unless the reason for infeasibility is because of Transmission Outages in which case the increase to capability limits will only apply when the transmission outage is out of service. In addition, PJM may remove or lower the increased capability limits, if feasible, during subsequent FTR Auctions if the removal or lowering of the increased capability limits does not impact Auction Revenue Rights funding and net auction revenues are positive.

Equipment Name	Contingency Description	Required MW Increase in Capability Limits	Type	Reason for Infeasibility
02FOWLES138 KV 02F-02P1_I	L345.Avonlake-Juniper	6	Internal PJM	Transmission Outage
BAGLEY 230 KV BAG-GRA_Z	L500.Cabot-Keystone.5002	104	Internal PJM	Transmission Outage
BAGLEY 230 KV BAG-GRA_Z		102	Internal PJM	Transmission Outage
BAGLEY 230 KV BAG-RAP5_I	L500.Cabot-Keystone.5002	89	Internal PJM	Transmission Outage
BAGLEY 230 KV BAG-RAP5_I		87	Internal PJM	Transmission Outage
Batesville-Hubble 138I/o Tanners Crk-Miami Fort 345		140	M2M Flowgate	Transmission Outage
BOONETWN230 KV BOO-SRE_I	L500.PeachBottom-TMI.5007	153	Internal PJM	Transmission Outage
BREC Paradise Tap-Paradise FP 161 kV I/o Barkly-Princeton 161 kV		5	M2M Flowgate	Transmission Outage
BREMO4 230 KV 298A_Z	L230.Clover-SedgeHill.2068	20	Internal PJM	Transmission Outage
BRIERY 230 KV 235A1_Z	L230.Clover-SedgeHill.2068	251	Internal PJM	Transmission Outage
BRIERY 230 KV 235B_I	L230.Clover-SedgeHill.2068	249	Internal PJM	Transmission Outage
BUCKNGHM230 KV 298B_Z	L230.Clover-SedgeHill.2068	46	Internal PJM	Transmission Outage
BUXMONT 230 KV BUX-WHI_Z	L500.PeachBottom-TMI.5007	103	Internal PJM	Transmission Outage
CARL PN 115 KV CAR-GAR_Z	L500.Cabot-Keystone.5002	2	Internal PJM	Transmission Outage

Equipment Name	Contingency Description	Required MW Increase in Capability Limits	Type	Reason for Infeasibility
CARL PN 115 KV CAR-GAR_Z		9	Internal PJM	Transmission Outage
Cayuga 345/230 XFMR 9 (flo) Cayuga 345/230 XFMR 10		38	M2M Flowgate	Transmission Outage
Cayuga Starbus TR 9-P I/o Cayuga-Nucor 345		3	Pseudo Tie Flowgate	Transmission Outage
Cherry Valley Silver Lake 15616 345kV I/o Byron-Wayne 0626 345 kV		3	M2M Flowgate	Network Load
COLLEGEC138 KV COL-COL6_I	L765.Marysville-Sorenson	141	Internal PJM	Transmission Outage
COLLEGEC138 KV COL-COL6_I		86	Internal PJM	Transmission Outage
COLLINSV138 KV HUS-COL_I	L765.Marysville-Sorenson	113	Internal PJM	Transmission Outage
COLLINSV138 KV HUS-COL_I		69	Internal PJM	Transmission Outage
COOPERPE230 KV COO-GRA_I	L500.PeachBottom-TMI.5007	437	Internal PJM	Transmission Outage
COOPERPE230 KV COO-GRA_I		228	Internal PJM	Transmission Outage
COOPERPE230 KV COO-PEA_Z	L500.PeachBottom-TMI.5007	451	Internal PJM	Transmission Outage
COOPERPE230 KV COO-PEA_Z		241	Internal PJM	Transmission Outage
Cordova-EastMoline345kV-Io-QuadCities-Sub91 345kV		333	M2M Flowgate	Network Load
ELIMA 138 KV ELI-HAV1_Z	L765.Marysville-Sorenson	55	Internal PJM	Transmission Outage
ESIDELIM138 KV ESI-NDE1_Z	L765.Marysville-Sorenson	16	Internal PJM	Transmission Outage
Eugene-Cayuga 345 I/o Rockport-Jefferson 765		172	M2M Flowgate	Transmission Outage
Fargo 345/138 kv Xfmr I/o Duck Creek-Ipava 345 kV		17	M2M Flowgate	Network Load
Fargo XF 3 I/o Maple Rid-Tazwell 345kV		160	M2M Flowgate	Network Load
GardenPlains-15518 138kV I/o Cordova-Nelson 15503 345kV		5	M2M Flowgate	Transmission Outage
GRACETON230 KV GRA-SAF_Z	L230.OtterCreek-Conastone.2302	313	Internal PJM	Transmission Outage
GRACETON230 KV GRA-SAF_Z		75	Internal PJM	Transmission Outage
Grand Mound - Maquoketa 161 kV I/o Rock Creek - Salem 345 kV		5	M2M Flowgate	Transmission Outage
Henry-New Castle 138 I/o Noblesville-Sanderson 138		14	M2M Flowgate	Transmission Outage
JACK ME 230 KV JAC-TMI_Z	L500.Cabot-Keystone.5002	43	Internal PJM	Transmission Outage
JACK ME 230 KV JAC-TMI_Z		10	Internal PJM	Transmission Outage
Labadie-GraySummit 2 345 kV I/o Labadie-GraySummit 1 345 kV		50	Pseudo Tie Flowgate	Network Load
LACKAWAN230 KV LAC-OXB_I	L500.Cabot-Keystone.5002	37	Internal PJM	Transmission Outage
LACKAWAN230 KV LAC-OXB_I		89	Internal PJM	Transmission Outage
LENOX 115 KV LEN-MAC_I	L230.ETowanda-Hillside.2002 [NYISO]	19	Internal PJM	Transmission Outage
LENOX 115 KV LEN-MAC_I		2	Internal PJM	Transmission Outage
LOGTOWN 138 KV LOG-NDEL_I	L765.Marysville-Sorenson	5	Internal PJM	Transmission Outage
LTVSteel - Hennepin 138 kV I/o Powerton - Toulon 138 kV		9	M2M Flowgate	Network Load
LTVSteel_Hennepin_138kV_flo_Oglesby_Mazon_Crescent_138kV		4	M2M Flowgate	Transmission Outage
MACNEW T115 KV MAC-WIL_I	L230.ETowanda-Hillside.2002 [NYISO]	16	Internal PJM	Transmission Outage
McCredie-Montgomery 345 kV		143	M2M Flowgate	Network Load
MILLWDPL230 KV MIL-SAK_Z	L500.Cabot-Keystone.5002	24	Internal PJM	Transmission Outage
MILLWDPL230 KV MIL-SAK_Z		15	Internal PJM	Transmission Outage
Monroe - Lallendorf 345kV I/o Monroe - Brownstown 345 kV		261	M2M Flowgate	Network Load
Monroe - Lallendorf 345kV I/o Monroe - Wayne 345 kV		258	M2M Flowgate	Network Load
Monroe-Lallendorf 345 kV I/o Lulu 345 kV Sub		417	M2M Flowgate	Transmission Outage
Monroe-Lallendorf 345kV		288	M2M Flowgate	Network Load
Montgomery_Labadie_345_flo_Callaway_Bland_345		104	M2M Flowgate	Network Load
Morocco-Allen Junction 345 kV		107	M2M Flowgate	Network Load
NEWBERRY115 KV NEW-ROU_I	L500.Cabot-Keystone.5002	19	Internal PJM	Transmission Outage
NEWBERRY115 KV NEW-ROU_I		3	Internal PJM	Transmission Outage
North Lake George-Burlington 138kV I/o University-Mukwonago 138kV		23	M2M Flowgate	Network Load
NOTTINGH230 KV 1-3_I	L500.PeachBottom-TMI.5007	463	Internal PJM	Transmission Outage
NOTTINGH230 KV 1-3_I		243	Internal PJM	Transmission Outage
NOTTINGH230 KV 2-3_I	L500.PeachBottom-TMI.5007	463	Internal PJM	Transmission Outage
NOTTINGH230 KV 2-3_I		243	Internal PJM	Transmission Outage
NOTTINGH230 KV NOT-PEA_I	L500.PeachBottom-TMI.5007	452	Internal PJM	Transmission Outage
NOTTINGH230 KV NOT-PEA_I		243	Internal PJM	Transmission Outage
Nucor-Whitestown 345 kV I/o Rockport-Jefferson 765 kV		51	M2M Flowgate	Transmission Outage
Princeton Tap LTV Steel 138 kV I/o Hennepin - Kewanee - Streator 138 kV		23	M2M Flowgate	Transmission Outage
Roxana-Praxair 1 138 kV I/o Wilton Center-Dumont 765 kV		13	M2M Flowgate	Transmission Outage
Roxana-Praxair 138 kV I/o Gary Ave-Sheffield 345 kV		19	M2M Flowgate	Network Load
Roxana-Praxair 138 kV I/o Inland5-Marktown 138 kV		18	M2M Flowgate	Transmission Outage
Roxana-Praxair I/o Gary Ave-Sheffield+Dumont-WiltonCenter		18	M2M Flowgate	Network Load
Sandburg xfmr 3 I/o Oak Grove - Sandburg 345 kV		123	M2M Flowgate	Network Load
SMITHJCT115 KV SMI-SMI_Z	L230.Jackson-TMI.1051	36	Internal PJM	Transmission Outage
SUB_85_TO_ROCK_ISLAND_161KV_FLO_OAK_GROVE_TO_LOUISA_345KV		20	M2M Flowgate	Network Load
Sub85-RockIsland-161kV-flo-EastMoline-345-161-T1		39	M2M Flowgate	Network Load
Sullivan-Petersburg 345 I/o Rockport-Jefferson 765		476	M2M Flowgate	Transmission Outage
TILTONS2138 KV TIL-WIN_I		2	Internal PJM	Transmission Outage
TMI 500 KV 1BANK_I	500/230.Lauschtown.T3	299	Internal PJM	Transmission Outage
TMI 500 KV 1BANK_I		281	Internal PJM	Transmission Outage
TRENTON2138 KV HUS-TRE_Z	L765.Marysville-Sorenson	112	Internal PJM	Transmission Outage
TRENTON2138 KV HUS-TRE_Z		67	Internal PJM	Transmission Outage
TRENTON2138 KV TRE-COL1_Z	L765.Marysville-Sorenson	16	Internal PJM	Transmission Outage
TRENTON2138 KV TRE-COL1_Z		2	Internal PJM	Transmission Outage
TRENTON2138 KV TRE-HUT1_I	L765.Marysville-Sorenson	10	Internal PJM	Transmission Outage
WILLIAMM115 KV WIL-WMP_Z	L230.ETowanda-Hillside.2002 [NYISO]	5	Internal PJM	Transmission Outage

Listed below are the aggregate MW quantities, by source and sinks, of infeasible ARR in Stage 1A of the 2020/2021 Annual ARR Allocation.

Source	Sink	Infeasible MW Quantity
100 SHAD34.5 KV GSG6WF	COMED_RESID_AGG	15.7
100 SHAD34.5 KV GSG6WF	NAPERVILLE	0.2
107 DIXO34.5 KV SUBLETTE	COMED_RESID_AGG	5.3
107 DIXO34.5 KV SUBLETTE	GENEVA	0.1
107 DIXO34.5 KV SUBLETTE	NAPERVILLE	0.1
107 DIXO34.5 KV SUBLETTE	ST. CHARLES	0.1
139 MEND34.5 KV WBROOKWF	COMED_RESID_AGG	7.1
139 MEND34.5 KV WBROOKWF	NAPERVILLE	0.1
21 KINCA20 KV KN-1	COMED_RESID_AGG	3.4
21 KINCA20 KV KN-2	COMED_RESID_AGG	1.4
4 QUAD C18 KV QC-1	BATAVIA	2.5
4 QUAD C18 KV QC-1	COMED_RESID_AGG	619.6
4 QUAD C18 KV QC-1	GENEVA	1.5
4 QUAD C18 KV QC-1	N ILLINOIS HUB	119.7
4 QUAD C18 KV QC-1	NAPERVILLE	10.4
4 QUAD C18 KV QC-1	ROCHELLE	1
4 QUAD C18 KV QC-1	ST. CHARLES	3.6
4 QUAD C18 KV QC-2	BATAVIA	2.5
4 QUAD C18 KV QC-2	COMED_RESID_AGG	619.8
4 QUAD C18 KV QC-2	GENEVA	1.5
4 QUAD C18 KV QC-2	N ILLINOIS HUB	279.2
4 QUAD C18 KV QC-2	NAPERVILLE	10.4
4 QUAD C18 KV QC-2	ROCHELLE	1
4 QUAD C18 KV QC-2	ST. CHARLES	3.6
6 BYRON 25 KV BY-1	BATAVIA	3.4
6 BYRON 25 KV BY-1	COMED_RESID_AGG	896.6
6 BYRON 25 KV BY-1	GENEVA	2
6 BYRON 25 KV BY-1	N ILLINOIS HUB	99.7
6 BYRON 25 KV BY-1	NAPERVILLE	15
6 BYRON 25 KV BY-1	ST. CHARLES	4.7
6 BYRON 25 KV BY-2	BATAVIA	3.3
6 BYRON 25 KV BY-2	COMED_RESID_AGG	859.3
6 BYRON 25 KV BY-2	GENEVA	1.9
6 BYRON 25 KV BY-2	N ILLINOIS HUB	232.5
6 BYRON 25 KV BY-2	NAPERVILLE	14.7
6 BYRON 25 KV BY-2	ST. CHARLES	4.5
937 LEE 13.5 KV LEE31-1	BATAVIA	0.3

Source	Sink	Infeasible MW Quantity
937 LEE 13.5 KV LEE31-1	COMED_RESID_AGG	72.1
937 LEE 13.5 KV LEE31-1	GENEVA	0.1
937 LEE 13.5 KV LEE31-1	NAPERVILLE	1.2
937 LEE 13.5 KV LEE31-1	ST. CHARLES	0.4
937 LEE 13.5 KV LEE31-2	BATAVIA	0.3
937 LEE 13.5 KV LEE31-2	COMED_RESID_AGG	72.2
937 LEE 13.5 KV LEE31-2	GENEVA	0.1
937 LEE 13.5 KV LEE31-2	NAPERVILLE	1.2
937 LEE 13.5 KV LEE31-2	ST. CHARLES	0.4
937 LEE 13.5 KV LEE32-1	BATAVIA	0.1
937 LEE 13.5 KV LEE32-1	COMED_RESID_AGG	36.4
937 LEE 13.5 KV LEE32-1	GENEVA	0.1
937 LEE 13.5 KV LEE32-1	NAPERVILLE	0.5
937 LEE 13.5 KV LEE32-1	ST. CHARLES	0.2
937 LEE 13.5 KV LEE32-2	BATAVIA	0.1
937 LEE 13.5 KV LEE32-2	COMED_RESID_AGG	36.3
937 LEE 13.5 KV LEE32-2	GENEVA	0.1
937 LEE 13.5 KV LEE32-2	NAPERVILLE	0.5
937 LEE 13.5 KV LEE32-2	ST. CHARLES	0.2
937 LEE 13.5 KV LEE33-1	BATAVIA	0.3
937 LEE 13.5 KV LEE33-1	COMED_RESID_AGG	70.7
937 LEE 13.5 KV LEE33-1	GENEVA	0.1
937 LEE 13.5 KV LEE33-1	NAPERVILLE	1.1
937 LEE 13.5 KV LEE33-1	ST. CHARLES	0.4
937 LEE 13.5 KV LEE33-2	BATAVIA	0.3
937 LEE 13.5 KV LEE33-2	COMED_RESID_AGG	70.6
937 LEE 13.5 KV LEE33-2	GENEVA	0.1
937 LEE 13.5 KV LEE33-2	NAPERVILLE	1.1
937 LEE 13.5 KV LEE33-2	ST. CHARLES	0.4
937 LEE 13.5 KV LEE34-1	BATAVIA	0.1
937 LEE 13.5 KV LEE34-1	COMED_RESID_AGG	35.7
937 LEE 13.5 KV LEE34-1	GENEVA	0.1
937 LEE 13.5 KV LEE34-1	NAPERVILLE	0.5
937 LEE 13.5 KV LEE34-1	ST. CHARLES	0.2
937 LEE 13.5 KV LEE34-2	BATAVIA	0.1
937 LEE 13.5 KV LEE34-2	COMED_RESID_AGG	35.8
937 LEE 13.5 KV LEE34-2	GENEVA	0.1
937 LEE 13.5 KV LEE34-2	NAPERVILLE	0.5
937 LEE 13.5 KV LEE34-2	ST. CHARLES	0.2
940 CORD18 KV CD-1	BATAVIA	0.4

Source	Sink	Infeasible MW Quantity
940 CORD18 KV CD-1	COMED_RESID_AGG	109.6
940 CORD18 KV CD-1	GENEVA	0.2
940 CORD18 KV CD-1	NAPERVILLE	1.8
940 CORD18 KV CD-1	ROCHELLE	0.1
940 CORD18 KV CD-1	ST. CHARLES	0.6
940 CORD18 KV CD-2	BATAVIA	0.4
940 CORD18 KV CD-2	COMED_RESID_AGG	109.5
940 CORD18 KV CD-2	GENEVA	0.2
940 CORD18 KV CD-2	NAPERVILLE	1.8
940 CORD18 KV CD-2	ROCHELLE	0.1
940 CORD18 KV CD-2	ST. CHARLES	0.6
944 SE C13.5 KV SE10	COMED_RESID_AGG	7.9
944 SE C13.5 KV SE10	NAPERVILLE	0.3
944 SE C13.5 KV SE10	ST. CHARLES	0.1
944 SE C13.5 KV SE11	COMED_RESID_AGG	7.9
944 SE C13.5 KV SE11	NAPERVILLE	0.3
944 SE C13.5 KV SE11	ST. CHARLES	0.1
944 SE C13.5 KV SE12	COMED_RESID_AGG	7.9
944 SE C13.5 KV SE12	NAPERVILLE	0.3
944 SE C13.5 KV SE12	ST. CHARLES	0.1
944 SE C13.5 KV SE-5	BATAVIA	0.1
944 SE C13.5 KV SE-5	COMED_RESID_AGG	24.9
944 SE C13.5 KV SE-5	GENEVA	0.1
944 SE C13.5 KV SE-5	NAPERVILLE	0.4
944 SE C13.5 KV SE-5	ST. CHARLES	0.1
944 SE C13.5 KV SE-6	BATAVIA	0.1
944 SE C13.5 KV SE-6	COMED_RESID_AGG	24.7
944 SE C13.5 KV SE-6	GENEVA	0.1
944 SE C13.5 KV SE-6	NAPERVILLE	0.4
944 SE C13.5 KV SE-6	ST. CHARLES	0.1
944 SE C13.5 KV SE-7	BATAVIA	0.1
944 SE C13.5 KV SE-7	COMED_RESID_AGG	24.6
944 SE C13.5 KV SE-7	GENEVA	0.1
944 SE C13.5 KV SE-7	NAPERVILLE	0.4
944 SE C13.5 KV SE-7	ST. CHARLES	0.1
944 SE C13.5 KV SE-8	BATAVIA	0.1
944 SE C13.5 KV SE-8	COMED_RESID_AGG	24.6
944 SE C13.5 KV SE-8	GENEVA	0.1
944 SE C13.5 KV SE-8	NAPERVILLE	0.4
944 SE C13.5 KV SE-8	ST. CHARLES	0.1

Source	Sink	Infeasible MW Quantity
944 SE C13.5 KV SE-9	COMED_RESID_AGG	7.9
944 SE C13.5 KV SE-9	NAPERVILLE	0.3
944 SE C13.5 KV SE-9	ST. CHARLES	0.1
952 ROCK16 KV RO11	COMED_RESID_AGG	56
952 ROCK16 KV RO11	GENEVA	0.2
952 ROCK16 KV RO11	NAPERVILLE	1.8
952 ROCK16 KV RO11	ST. CHARLES	0.6
952 ROCK16 KV RO12	COMED_RESID_AGG	55.8
952 ROCK16 KV RO12	GENEVA	0.2
952 ROCK16 KV RO12	NAPERVILLE	1.8
952 ROCK16 KV RO12	ST. CHARLES	0.6
955 RIVE16 KV RV-1	BATAVIA	0.4
955 RIVE16 KV RV-1	COMED_RESID_AGG	88.6
955 RIVE16 KV RV-1	GENEVA	0.2
955 RIVE16 KV RV-1	NAPERVILLE	1.8
955 RIVE16 KV RV-1	ST. CHARLES	0.6
955 RIVE16 KV RV-2	COMED_RESID_AGG	43.1
955 RIVE16 KV RV-2	GENEVA	0.1
955 RIVE16 KV RV-2	NAPERVILLE	1.1
955 RIVE16 KV RV-2	ST. CHARLES	0.4
959ERDBS34.5 KV BSWFBR1	BATAVIA	0.1
959ERDBS34.5 KV BSWFBR1	COMED_RESID_AGG	28.5
959ERDBS34.5 KV BSWFBR1	GENEVA	0.1
959ERDBS34.5 KV BSWFBR1	NAPERVILLE	0.5
959ERDBS34.5 KV BSWFBR1	ST. CHARLES	0.1
969 ECOG34.5 KV LENAUF	COMED_RESID_AGG	16.6
969 ECOG34.5 KV LENAUF	GENEVA	0.1
969 ECOG34.5 KV LENAUF	NAPERVILLE	0.3
969 ECOG34.5 KV LENAUF	ST. CHARLES	0.1
ASYLUM 23 KV LIBRTY10	BGE_RESID_AGG	15.3
ASYLUM 23 KV LIBRTY10	PEPCO DC	4.6
ASYLUM 23 KV LIBRTY10	PEPCO MD	6.9
ASYLUM 23 KV LIBRTY10	SMECO_RESID_AGG	1.2
AVONLAK214 KV G10	DUQ_RESID_AGG	0.9
BEAVER 13.8 KV WL20	CPP	0.2
BERRHYD 4 KV BR1	AEPOHIO W.O. MON POWER	0.3
BERRHYD 4 KV BR10	AEPOHIO W.O. MON POWER	0.5
BERRHYD 4 KV BR11	AEPOHIO W.O. MON POWER	0.4
BERRHYD 4 KV BR12	AEPOHIO W.O. MON POWER	0.5
BERRHYD 4 KV BR2	AEPOHIO W.O. MON POWER	0.4

Source	Sink	Infeasible MW Quantity
BERRHYD 4 KV BR3	AEPOHIO W.O. MON POWER	0.4
BERRHYD 4 KV BR4	AEPOHIO W.O. MON POWER	0.4
BERRHYD 4 KV BR5	AEPOHIO W.O. MON POWER	0.4
BERRHYD 4 KV BR6	AEPOHIO W.O. MON POWER	0.4
BERRHYD 4 KV BR7	AEPOHIO W.O. MON POWER	0.4
BERRHYD 4 KV BR8	AEPOHIO W.O. MON POWER	0.4
BERRHYD 4 KV BR9	AEPOHIO W.O. MON POWER	0.4
BLUECREE34.5 KV BLUEC3WF	AEPAPCO_RESID_AGG	0.3
BLUECREE34.5 KV BLUEC3WF	AEPKY_RESID_AGG	1.8
BLUECREE34.5 KV BLUEC3WF	AEPOHIO W.O. MON POWER	3.1
BLUECREE34.5 KV BLUEC3WF	AMP-ATSI OH	0.7
BLUECREE34.5 KV BLUEC3WF	AMP-OHIO	0.2
BLUECREE34.5 KV BLUEC3WF	BLUE RIDGE	0.6
BUCHANAN2 KV BU1	AEPOHIO W.O. MON POWER	0.1
BUCHANAN2 KV BU10	AEPOHIO W.O. MON POWER	0.1
BUCHANAN2 KV BU2	AEPOHIO W.O. MON POWER	0.1
BUCHANAN2 KV BU3	AEPOHIO W.O. MON POWER	0.1
BUCHANAN2 KV BU4	AEPOHIO W.O. MON POWER	0.1
BUCHANAN2 KV BU5	AEPOHIO W.O. MON POWER	0.1
BUCHANAN2 KV BU6	AEPOHIO W.O. MON POWER	0.1
BUCHANAN2 KV BU7	AEPOHIO W.O. MON POWER	0.1
BUCHANAN2 KV BU8	AEPOHIO W.O. MON POWER	0.1
BUCHANAN2 KV BU9	AEPOHIO W.O. MON POWER	0.1
CLOVER 25 KV G1	DOM_RESID_AGG	125.7
CLOVER 25 KV G2	DOM_RESID_AGG	125.2
CONEMAUG115 KV DIESEL	BGE_RESID_AGG	5
CONEMAUG115 KV DIESEL	PEPCO MD	0.1
CONEMAUG22 KV UNIT 1	BGE_RESID_AGG	48.1
CONEMAUG22 KV UNIT 1	PEPCO DC	12.7
CONEMAUG22 KV UNIT 1	PEPCO MD	16.8
CONEMAUG22 KV UNIT 1	SMECO_RESID_AGG	4.5
CONEMAUG22 KV UNIT02	BGE_RESID_AGG	47.9
CONEMAUG22 KV UNIT02	PEPCO DC	12.7
CONEMAUG22 KV UNIT02	PEPCO MD	16.8
CONEMAUG22 KV UNIT02	SMECO_RESID_AGG	4.5
CONESVIL26 KV CV4	DEOK_RESID_AGG	160.7
CONOWING13 KV G10	PECO_RESID_AGG	0.3
CONOWING13 KV G11	PECO_RESID_AGG	0.2
CONOWING13 KV GEN1	PECO_RESID_AGG	0.3
CONOWING13 KV GEN2	PECO_RESID_AGG	0.3

Source	Sink	Infeasible MW Quantity
CONOWING13 KV GEN3	PECO_RESID_AGG	0.3
CONOWING13 KV GEN4	PECO_RESID_AGG	0.3
CONOWING13 KV GEN5	PECO_RESID_AGG	0.3
CONOWING13 KV GEN6	PECO_RESID_AGG	0.3
CONOWING13 KV GEN8	PECO_RESID_AGG	0.3
CONOWING13 KV GEN9	PECO_RESID_AGG	0.3
CONOWING13 KV UNIT07	PECO_RESID_AGG	0.3
CONSTANT2 KV CO1	AEPOHIO W.O. MON POWER	0.2
CONSTANT2 KV CO2	AEPOHIO W.O. MON POWER	0.2
CONSTANT2 KV CO3	AEPOHIO W.O. MON POWER	0.2
CONSTANT2 KV CO4	AEPOHIO W.O. MON POWER	0.3
COOK 26 KV CK1	AEPAPCO_RESID_AGG	290
COOK 26 KV CK1	AEPKY_RESID_AGG	51.9
COOK 26 KV CK1	AEPOHIO W.O. MON POWER	310.8
COOK 26 KV CK1	AMP-OHIO	3.7
COOK 26 KV CK1	BLUE RIDGE	13.6
COOK 26 KV CK1	BUCK-CIN	0.5
COOK 26 KV CK1	BUCKEYE - AEPOH	7.6
COOK 26 KV CK1	BUCKEYE - DPL	2
COOK 26 KV CK1	BUCK-FE	1.3
COOK 26 KV CK2	AEPAPCO_RESID_AGG	26.4
COOK 26 KV CK2	AEPKY_RESID_AGG	47.4
COOK 26 KV CK2	AEPOHIO W.O. MON POWER	122.3
COOK 26 KV CK2	AMP-OHIO	1.5
COOK 26 KV CK2	BLUE RIDGE	9.8
COOK 26 KV CK2	BUCK-CIN	0.5
COOK 26 KV CK2	BUCKEYE - AEPOH	3.2
COOK 26 KV CK2	BUCKEYE - DPL	1
COOK 26 KV CK2	BUCK-FE	0.6
COOP_EK 13.8 KV COOPER01	EKPC-DEOK LOAD	0.9
COOP_EK 20 KV COOPER02	EKPC-DEOK LOAD	1.7
CORNU 18 KV 2GT1	BUCK-CIN	0.1
CORNU 18 KV 2GT2	BUCK-CIN	0.1
COVERT 16 KV 1GTG	AEPAPCO_RESID_AGG	311.3
COVERT 16 KV 1GTG	AEPKY_RESID_AGG	55.8
COVERT 16 KV 1GTG	AEPOHIO W.O. MON POWER	327.9
COVERT 16 KV 1GTG	AMP-OHIO	4
COVERT 16 KV 1GTG	BLUE RIDGE	14.4
COVERT 16 KV 1GTG	BUCK-CIN	0.6
COVERT 16 KV 1GTG	BUCKEYE - AEPOH	9.4

Source	Sink	Infeasible MW Quantity
COVERT 16 KV 1GTG	BUCKEYE - DPL	2.6
COVERT 16 KV 1GTG	BUCK-FE	2.1
DLTAPLNT13.8 KV GEN1	AMP-ATSI OH	1.1
DLTAPLNT13.8 KV GEN1	AMP-ATSI PA	0.1
DLTAPLNT13.8 KV GEN1	BGE_RESID_AGG	12.9
DLTAPLNT13.8 KV GEN1	CPP	0.7
DLTAPLNT13.8 KV GEN1	DEOK_RESID_AGG	28.2
DLTAPLNT13.8 KV GEN1	DUQ_RESID_AGG	14.3
DLTAPLNT13.8 KV GEN1	EKPC_RESID_AGG	3.8
DLTAPLNT13.8 KV GEN1	EKPC-DEOK LOAD	0.1
DLTAPLNT13.8 KV GEN1	FEOHIO_RESID_AGG	38.7
DLTAPLNT13.8 KV GEN1	PENNPOWER_RESID_AGG	6.5
DLTAPLNT13.8 KV GEN1	PEPCO DC	6.5
DLTAPLNT13.8 KV GEN1	PEPCO MD	8.9
DLTAPLNT13.8 KV GEN1	SMECO_RESID_AGG	1.9
DLTAPLNT13.8 KV GEN1	WILLIAMSTOWN	0.1
DLTAPLNT13.8 KV GEN2	AMP-ATSI OH	1.2
DLTAPLNT13.8 KV GEN2	AMP-ATSI PA	0.1
DLTAPLNT13.8 KV GEN2	BGE_RESID_AGG	13.3
DLTAPLNT13.8 KV GEN2	CPP	0.7
DLTAPLNT13.8 KV GEN2	DEOK_RESID_AGG	29.4
DLTAPLNT13.8 KV GEN2	DUQ_RESID_AGG	14.7
DLTAPLNT13.8 KV GEN2	EKPC_RESID_AGG	4.1
DLTAPLNT13.8 KV GEN2	EKPC-DEOK LOAD	0.1
DLTAPLNT13.8 KV GEN2	FEOHIO_RESID_AGG	38.2
DLTAPLNT13.8 KV GEN2	PENNPOWER_RESID_AGG	5.8
DLTAPLNT13.8 KV GEN2	PEPCO DC	6.6
DLTAPLNT13.8 KV GEN2	PEPCO MD	9.2
DLTAPLNT13.8 KV GEN2	SMECO_RESID_AGG	1.8
DLTAPLNT13.8 KV GEN2	WILLIAMSTOWN	0.1
DLTAPLNT13.8 KV GEN3	AMP-ATSI OH	1.2
DLTAPLNT13.8 KV GEN3	AMP-ATSI PA	0.1
DLTAPLNT13.8 KV GEN3	BGE_RESID_AGG	13.2
DLTAPLNT13.8 KV GEN3	CPP	0.7
DLTAPLNT13.8 KV GEN3	DEOK_RESID_AGG	29.6
DLTAPLNT13.8 KV GEN3	DUQ_RESID_AGG	14.3
DLTAPLNT13.8 KV GEN3	EKPC_RESID_AGG	4.1
DLTAPLNT13.8 KV GEN3	EKPC-DEOK LOAD	0.1
DLTAPLNT13.8 KV GEN3	FEOHIO_RESID_AGG	37.5
DLTAPLNT13.8 KV GEN3	PENNPOWER_RESID_AGG	5.4

Source	Sink	Infeasible MW Quantity
DLTAPLNT13.8 KV GEN3	PEPCO DC	6.4
DLTAPLNT13.8 KV GEN3	PEPCO MD	9.1
DLTAPLNT13.8 KV GEN3	SMECO_RESID_AGG	1.8
DLTAPLNT13.8 KV GEN3	WILLIAMSTOWN	0.1
DLTAPLNT18 KV GEN4	AMP-ATSI OH	1.7
DLTAPLNT18 KV GEN4	AMP-ATSI PA	0.1
DLTAPLNT18 KV GEN4	BGE_RESID_AGG	16.7
DLTAPLNT18 KV GEN4	CPP	1.1
DLTAPLNT18 KV GEN4	DEOK_RESID_AGG	40.9
DLTAPLNT18 KV GEN4	DUQ_RESID_AGG	18.8
DLTAPLNT18 KV GEN4	EKPC_RESID_AGG	6.3
DLTAPLNT18 KV GEN4	EKPC-DEOK LOAD	0.1
DLTAPLNT18 KV GEN4	FEOHIO_RESID_AGG	49.4
DLTAPLNT18 KV GEN4	PENPOWER_RESID_AGG	5.7
DLTAPLNT18 KV GEN4	PEPCO DC	8.1
DLTAPLNT18 KV GEN4	PEPCO MD	10.3
DLTAPLNT18 KV GEN4	SMECO_RESID_AGG	2.4
DLTAPLNT18 KV GEN4	WILLIAMSTOWN	0.1
EDGEMOOR13 KV HAYRD5	AMP-ATSI OH	1.4
EDGEMOOR13 KV HAYRD5	AMP-ATSI PA	0.1
EDGEMOOR13 KV HAYRD5	BGE_RESID_AGG	13.2
EDGEMOOR13 KV HAYRD5	CPP	0.9
EDGEMOOR13 KV HAYRD5	DEOK_RESID_AGG	31.1
EDGEMOOR13 KV HAYRD5	EKPC_RESID_AGG	4.7
EDGEMOOR13 KV HAYRD5	EKPC-DEOK LOAD	0.1
EDGEMOOR13 KV HAYRD5	FEOHIO_RESID_AGG	39.3
EDGEMOOR13 KV HAYRD5	PENPOWER_RESID_AGG	5.2
EDGEMOOR13 KV HAYRD5	PEPCO DC	6.2
EDGEMOOR13 KV HAYRD5	PEPCO MD	8.3
EDGEMOOR13 KV HAYRD5	SMECO_RESID_AGG	1.8
EDGEMOOR13 KV HAYRD5	WILLIAMSTOWN	0.1
EDGEMOOR13 KV HAYRD6	AMP-ATSI OH	1.4
EDGEMOOR13 KV HAYRD6	AMP-ATSI PA	0.1
EDGEMOOR13 KV HAYRD6	BGE_RESID_AGG	13.1
EDGEMOOR13 KV HAYRD6	CPP	0.9
EDGEMOOR13 KV HAYRD6	DEOK_RESID_AGG	30.8
EDGEMOOR13 KV HAYRD6	EKPC_RESID_AGG	4.7
EDGEMOOR13 KV HAYRD6	EKPC-DEOK LOAD	0.1
EDGEMOOR13 KV HAYRD6	FEOHIO_RESID_AGG	39.2
EDGEMOOR13 KV HAYRD6	PENPOWER_RESID_AGG	5.2

Source	Sink	Infeasible MW Quantity
EDGEMOOR13 KV HAYRD6	PEPCO DC	6.1
EDGEMOOR13 KV HAYRD6	PEPCO MD	8.3
EDGEMOOR13 KV HAYRD6	SMECO_RESID_AGG	1.9
EDGEMOOR13 KV HAYRD6	WILLIAMSTOWN	0.1
EDGEMOOR13 KV HAYRD7	AMP-ATSI OH	1.4
EDGEMOOR13 KV HAYRD7	AMP-ATSI PA	0.1
EDGEMOOR13 KV HAYRD7	BGE_RESID_AGG	13
EDGEMOOR13 KV HAYRD7	CPP	0.9
EDGEMOOR13 KV HAYRD7	DEOK_RESID_AGG	30.9
EDGEMOOR13 KV HAYRD7	EKPC_RESID_AGG	4.7
EDGEMOOR13 KV HAYRD7	EKPC-DEOK LOAD	0.1
EDGEMOOR13 KV HAYRD7	FEOHIO_RESID_AGG	39.1
EDGEMOOR13 KV HAYRD7	PENNPOWER_RESID_AGG	5.3
EDGEMOOR13 KV HAYRD7	PEPCO DC	6
EDGEMOOR13 KV HAYRD7	PEPCO MD	8.5
EDGEMOOR13 KV HAYRD7	SMECO_RESID_AGG	1.9
EDGEMOOR13 KV HAYRD7	WILLIAMSTOWN	0.1
EDGEMOOR18 KV HAYRD8	AMP-ATSI OH	2
EDGEMOOR18 KV HAYRD8	AMP-ATSI PA	0.1
EDGEMOOR18 KV HAYRD8	BGE_RESID_AGG	16.6
EDGEMOOR18 KV HAYRD8	CPP	1.3
EDGEMOOR18 KV HAYRD8	DEOK_RESID_AGG	44
EDGEMOOR18 KV HAYRD8	EKPC_RESID_AGG	7.1
EDGEMOOR18 KV HAYRD8	EKPC-DEOK LOAD	0.1
EDGEMOOR18 KV HAYRD8	FEOHIO_RESID_AGG	51.4
EDGEMOOR18 KV HAYRD8	PENNPOWER_RESID_AGG	5.3
EDGEMOOR18 KV HAYRD8	PEPCO DC	7.8
EDGEMOOR18 KV HAYRD8	PEPCO MD	10.8
EDGEMOOR18 KV HAYRD8	SMECO_RESID_AGG	2.5
EDGEMOOR18 KV HAYRD8	WILLIAMSTOWN	0.1
ELKHYDRO4 KV ELK	AEPAPCO_RESID_AGG	0.4
ELKHYDRO4 KV ELK	AEPOHIO W.O. MON POWER	5.3
ELKHYDRO4 KV ELK	BLUE RIDGE	0.3
EVERTSUB34.5 KV ARMENIA	APS_RESID_AGG	0.8
FOOTHILL18 KV UNIT 4	AMP-ATSI OH	0.2
FOOTHILL18 KV UNIT 4	BGE_RESID_AGG	3.7
FOOTHILL18 KV UNIT 4	DEOK_RESID_AGG	23.6
FOOTHILL18 KV UNIT 4	EKPC-DEOK LOAD	0.1
FOOTHILL18 KV UNIT 4	PEPCO DC	0.4
FOOTHILL18 KV UNIT 4	PEPCO MD	0.4

Source	Sink	Infeasible MW Quantity
FOOTHILL18 KV UNIT 4	SMECO_RESID_AGG	0.2
FOOTHILL18 KV UNIT 5	AMP-ATSI OH	0.2
FOOTHILL18 KV UNIT 5	BGE_RESID_AGG	3.7
FOOTHILL18 KV UNIT 5	DEOK_RESID_AGG	23.6
FOOTHILL18 KV UNIT 5	EKPC-DEOK LOAD	0.1
FOOTHILL18 KV UNIT 5	PEPCO DC	0.4
FOOTHILL18 KV UNIT 5	PEPCO MD	0.4
FOOTHILL18 KV UNIT 5	SMECO_RESID_AGG	0.2
FOWLER 34.5 KV FWL2-1WF	AEOHIO W.O. MON POWER	3.6
FOWLER 34.5 KV FWL2-2WF	AEOHIO W.O. MON POWER	3.6
FOWLER 34.5 KV FWL2-3WF	AEOHIO W.O. MON POWER	3.6
FOWLER 34.5 KV FWL2-4WF	AEOHIO W.O. MON POWER	3.4
FOWLER 34.5 KV FWLR1AWF	AEPAPCO_RESID_AGG	4
FOWLER 34.5 KV FWLR1AWF	AEPKY_RESID_AGG	0.6
FOWLER 34.5 KV FWLR1AWF	AEOHIO W.O. MON POWER	10.2
FOWLER 34.5 KV FWLR1AWF	AK STEEL	0.1
FOWLER 34.5 KV FWLR1AWF	BLUE RIDGE	0.6
FOWLER 34.5 KV FWLR1BWF	AEPAPCO_RESID_AGG	4
FOWLER 34.5 KV FWLR1BWF	AEPKY_RESID_AGG	0.6
FOWLER 34.5 KV FWLR1BWF	AEOHIO W.O. MON POWER	9.9
FOWLER 34.5 KV FWLR1BWF	AK STEEL	0.1
FOWLER 34.5 KV FWLR1BWF	BLUE RIDGE	0.6
FOWLER 34.5 KV FWLR3WF	AEPAPCO_RESID_AGG	9.5
GRAYFR_113 KV 1 GEN	AMP-ATSI OH	1.7
GRAYFR_113 KV 1 GEN	AMP-ATSI PA	0.1
GRAYFR_113 KV 1 GEN	BGE_RESID_AGG	14.7
GRAYFR_113 KV 1 GEN	CPP	1.1
GRAYFR_113 KV 1 GEN	DEOK_RESID_AGG	37.7
GRAYFR_113 KV 1 GEN	EKPC_RESID_AGG	6.2
GRAYFR_113 KV 1 GEN	EKPC-DEOK LOAD	0.1
GRAYFR_113 KV 1 GEN	FEOHIO_RESID_AGG	45.6
GRAYFR_113 KV 1 GEN	PENPOWER_RESID_AGG	3.9
GRAYFR_113 KV 1 GEN	PEPCO DC	6.4
GRAYFR_113 KV 1 GEN	PEPCO MD	9.4
GRAYFR_113 KV 1 GEN	SMECO_RESID_AGG	2.1
GRAYFR_113 KV 1 GEN	WILLIAMSTOWN	0.1
GREENUP	DEOK_RESID_AGG	30.5
HOPECREE25 KV UNIT 1	HILLSDALE_PARKRIDGE	0.4
JKSMT_EK13.8 KV JKSM1	EKPC-DEOK LOAD	0.8
JKSMT_EK13.8 KV JKSM10	EKPC-DEOK LOAD	0.4

Source	Sink	Infeasible MW Quantity
JKSMT_EK13.8 KV JKSMT2	EKPC-DEOK LOAD	0.8
JKSMT_EK13.8 KV JKSMT3	EKPC-DEOK LOAD	0.8
JKSMT_EK13.8 KV JKSMT4	EKPC-DEOK LOAD	0.5
JKSMT_EK13.8 KV JKSMT5	EKPC-DEOK LOAD	0.5
JKSMT_EK13.8 KV JKSMT6	EKPC-DEOK LOAD	0.5
JKSMT_EK13.8 KV JKSMT7	EKPC-DEOK LOAD	0.5
KENDALL 3 CC	MISO	29
KEYSTNE 13 KV _UN1__15	DAY_RESID_AGG	27.1
KEYSTNE 13 KV _UN2__15	DAY_RESID_AGG	27.1
KEYSTNE 13 KV _UN3__15	DAY_RESID_AGG	27.1
KEYSTNE 13 KV _UN4__15	DAY_RESID_AGG	27.1
KEYSTONE20 KV UNIT 1	BGE_RESID_AGG	92.1
KEYSTONE20 KV UNIT 2	BGE_RESID_AGG	92.3
KEYSTONE20 KV UNIT 3	BGE_RESID_AGG	5.3
LAURELDM13.8 KV LAUREL	EKPC-DEOK LOAD	0.5
LAWRENC218 KV S1	AEPAPCO_RESID_AGG	34.5
LAWRENC218 KV S1	AEPKY_RESID_AGG	6.7
LAWRENC218 KV S1	AEPOHIO W.O. MON POWER	44.2
LAWRENC218 KV S1	AMP-OHIO	0.6
LAWRENC218 KV S1	BLUE RIDGE	1.6
LAWRENC218 KV S1	BUCK-CIN	0.2
LAWRENC218 KV S1	BUCKEYE - AEPOH	1.4
LAWRENC218 KV S1	BUCKEYE - DPL	0.5
LAWRENC218 KV S1	BUCK-FE	0.5
LAWRENC218 KV S1	EKPC_RESID_AGG	5
LAWRENC218 KV S1	EKPC-DEOK LOAD	0.2
LAWRENC218 KV S2	AEPAPCO_RESID_AGG	3.2
LAWRENC218 KV S2	AEPKY_RESID_AGG	6.7
LAWRENC218 KV S2	AEPOHIO W.O. MON POWER	44.2
LAWRENC218 KV S2	AMP-OHIO	0.6
LAWRENC218 KV S2	BLUE RIDGE	1.5
LAWRENC218 KV S2	BUCK-CIN	0.2
LAWRENC218 KV S2	BUCKEYE - AEPOH	1.4
LAWRENC218 KV S2	BUCKEYE - DPL	0.5
LAWRENC218 KV S2	BUCK-FE	0.5
LAWRENC218 KV S2	EKPC_RESID_AGG	5
LAWRENC218 KV S2	EKPC-DEOK LOAD	0.2
LINWDPE 18 KV STM	AMP-ATSI OH	7.2
LINWDPE 18 KV STM	AMP-ATSI PA	0.4
LINWDPE 18 KV STM	BGE_RESID_AGG	52.2

Source	Sink	Infeasible MW Quantity
LINWDPE 18 KV STM	CPP	4.6
LINWDPE 18 KV STM	DEOK_RESID_AGG	154.4
LINWDPE 18 KV STM	DUQ_RESID_AGG	68.9
LINWDPE 18 KV STM	EKPC_RESID_AGG	25.8
LINWDPE 18 KV STM	EKPC-DEOK LOAD	0.4
LINWDPE 18 KV STM	FEOHIO_RESID_AGG	171.8
LINWDPE 18 KV STM	PENPOWER_RESID_AGG	11.8
LINWDPE 18 KV STM	PEPCO DC	22.3
LINWDPE 18 KV STM	PEPCO MD	30.3
LINWDPE 18 KV STM	SMECO_RESID_AGG	7.9
LINWDPE 18 KV STM	WILLIAMSTOWN	0.2
MISO	AEC - AP	3.5
MISO	AEPAPCO_RESID_AGG	153.4
MISO	AEPIM_RESID_AGG	103.4
MISO	AEPKY_RESID_AGG	27.5
MISO	AEPOHIO W.O. MON POWER	158.4
MISO	AK STEEL	0.6
MISO	AMP-OHIO	19
MISO	APS_RESID_AGG	438.7
MISO	BLUE RIDGE	7.2
MISO	BUCK-CIN	0.2
MISO	BUCKEYE - AEPIM	0.1
MISO	BUCKEYE - AEPOH	3.9
MISO	BUCKEYE - DPL	1
MISO	BUCK-FE	0.7
MISO	DAY_RESID_AGG	69.1
MISO	HREA - AP	1
MISO	LIDA - AP	0.6
MISO	MERIDIAN EWHITLEY	0.4
MISO	MON POWER	15
MISO	MONT ALTO - AP	0.1
MISO	NEWMARTINSVILLE-AP	0.2
MISO	PHILIPPI - AP	0.4
MISO	TARENTUM - AP	0.2
MONTOUR 24 KV UNIT01	EPHRATA	0.9
MONTOUR 24 KV UNIT02	EPHRATA	0.9
MOTTVILL2 KV MO1	AEPOHIO W.O. MON POWER	0.1
MOTTVILL2 KV MO2	AEPOHIO W.O. MON POWER	0.1
MOTTVILL2 KV MO3	AEPOHIO W.O. MON POWER	0.1
MOTTVILL2 KV MO4	AEPOHIO W.O. MON POWER	0.1

Source	Sink	Infeasible MW Quantity
MTNTOP 34.5 KV MHOOPWF2	APS_RESID_AGG	2.3
N ILLINOIS HUB	COOK	388
NAMPTON 138 KV NUG	METED_RESID_AGG	0.2
NYIS	AMP-OHIO	2.5
NYIS	BUCKEYE - AEPOH	29.3
NYIS	BUCKEYE - DPL	5.9
NYIS	PENELEC_RESID_AGG	3.8
PEACHBOT22 KV UNIT02	BRUNSWICK	0.1
PEACHBOT22 KV UNIT02	HILLSDALE_PARKRIDGE	0.2
PEACHBOT22 KV UNIT03	BRUNSWICK	0.1
PEACHBOT22 KV UNIT03	HILLSDALE_PARKRIDGE	0.2
PLEA APS26 KV GEN 1	APS_RESID_AGG	13
PLEA APS26 KV GEN 2	APS_RESID_AGG	7.9
PORTLAND13 KV CT 3	METED	0.3
PORTLAND13 KV CT 3	METED_RESID_AGG	3.6
PORTLAND13 KV CT 4	METED	0.5
PORTLAND13 KV CT 4	METED_RESID_AGG	4.8
PORTLAND13 KV CT 5	AMP-METED	0.2
PORTLAND13 KV CT 5	METED	4.3
PORTLAND13 KV CT 5	METED_RESID_AGG	41.7
PRINTZ 18 KV STG	AMP-ATSI OH	5.8
PRINTZ 18 KV STG	AMP-ATSI PA	0.4
PRINTZ 18 KV STG	BGE_RESID_AGG	43
PRINTZ 18 KV STG	CPP	3.7
PRINTZ 18 KV STG	DEOK_RESID_AGG	124.8
PRINTZ 18 KV STG	EKPC_RESID_AGG	20.9
PRINTZ 18 KV STG	EKPC-DEOK LOAD	0.3
PRINTZ 18 KV STG	FEOHIO_RESID_AGG	139
PRINTZ 18 KV STG	PENPOWER_RESID_AGG	9.7
PRINTZ 18 KV STG	PEPCO DC	17.9
PRINTZ 18 KV STG	PEPCO MD	24.5
PRINTZ 18 KV STG	SMECO_RESID_AGG	6.3
PRINTZ 18 KV STG	WILLIAMSTOWN	0.2
PSEGGLOB18 KV 6	BGE_RESID_AGG	4.8
PSEGGLOB18 KV 6	DEOK_RESID_AGG	26
PSEGGLOB18 KV 6	EKPC-DEOK LOAD	0.1
PSEGGLOB18 KV 6	PEPCO DC	0.9
PSEGGLOB18 KV 6	PEPCO MD	1
PSEGGLOB18 KV 6	SMECO_RESID_AGG	0.3
PSEGGLOB18 KV 7	BGE_RESID_AGG	4.8

Source	Sink	Infeasible MW Quantity
PSEGGLOB18 KV 7	DEOK_RESID_AGG	25.8
PSEGGLOB18 KV 7	EKPC-DEOK LOAD	0.1
PSEGGLOB18 KV 7	PEPCO DC	0.9
PSEGGLOB18 KV 7	PEPCO MD	1
PSEGGLOB18 KV 7	SMECO_RESID_AGG	0.3
PSEGGLOB18 KV 8	BGE_RESID_AGG	4.8
PSEGGLOB18 KV 8	DEOK_RESID_AGG	25.8
PSEGGLOB18 KV 8	EKPC-DEOK LOAD	0.1
PSEGGLOB18 KV 8	PEPCO DC	0.9
PSEGGLOB18 KV 8	PEPCO MD	1
PSEGGLOB18 KV 8	SMECO_RESID_AGG	0.3
PSEGGLOB22 KV 5	BGE_RESID_AGG	11.3
PSEGGLOB22 KV 5	DEOK_RESID_AGG	54.3
PSEGGLOB22 KV 5	EKPC-DEOK LOAD	0.1
PSEGGLOB22 KV 5	PEPCO DC	2
PSEGGLOB22 KV 5	PEPCO MD	2.6
PSEGGLOB22 KV 5	SMECO_RESID_AGG	0.8
REDOAKB 18 KV ST	JCPL_RESID_AGG	6.1
ROCKPOR226 KV RP1	AEPAPCO_RESID_AGG	285.9
ROCKPOR226 KV RP1	AEPIM_RESID_AGG	141.7
ROCKPOR226 KV RP1	AEPKY_RESID_AGG	51.9
ROCKPOR226 KV RP1	AEPOHIO W.O. MON POWER	297.1
ROCKPOR226 KV RP1	AMP-OHIO	3.6
ROCKPOR226 KV RP1	BLUE RIDGE	13.4
ROCKPOR226 KV RP1	BUCK-CIN	0.5
ROCKPOR226 KV RP1	BUCKEYE - AEPIM	0.1
ROCKPOR226 KV RP1	BUCKEYE - AEPOH	7.3
ROCKPOR226 KV RP1	BUCKEYE - DPL	2
ROCKPOR226 KV RP1	BUCK-FE	1.4
ROCKPOR226 KV RP1	MERIDIAN EWHITLEY	1.1
ROCKPOR226 KV RP2	AEPAPCO_RESID_AGG	114.3
ROCKPOR226 KV RP2	AEPIM_RESID_AGG	139.9
ROCKPOR226 KV RP2	AEPKY_RESID_AGG	51.4
ROCKPOR226 KV RP2	AEPOHIO W.O. MON POWER	293.3
ROCKPOR226 KV RP2	AMP-OHIO	3.6
ROCKPOR226 KV RP2	BLUE RIDGE	13
ROCKPOR226 KV RP2	BUCK-CIN	0.5
ROCKPOR226 KV RP2	BUCKEYE - AEPIM	0.1
ROCKPOR226 KV RP2	BUCKEYE - AEPOH	7.1
ROCKPOR226 KV RP2	BUCKEYE - DPL	1.9

Source	Sink	Infeasible MW Quantity
ROCKPOR226 KV RP2	BUCK-FE	1.4
ROCKPOR226 KV RP2	MERIDIAN EWHITLEY	1.1
ROCKSPRI24 KV WCATSTG	APS_RESID_AGG	63.8
RPMONE 18 KV 1	AEPAPCO_RESID_AGG	1
RPMONE 18 KV 1	AEPKY_RESID_AGG	6.2
RPMONE 18 KV 1	AEPOHIO W.O. MON POWER	12.4
RPMONE 18 KV 1	BLUE RIDGE	1.2
RPMONE 18 KV 2	AEPAPCO_RESID_AGG	1
RPMONE 18 KV 2	AEPKY_RESID_AGG	6.2
RPMONE 18 KV 2	AEPOHIO W.O. MON POWER	12.4
RPMONE 18 KV 2	BLUE RIDGE	1.2
RPMONE 18 KV 3	AEPAPCO_RESID_AGG	1
RPMONE 18 KV 3	AEPKY_RESID_AGG	6.2
RPMONE 18 KV 3	AEPOHIO W.O. MON POWER	11.8
RPMONE 18 KV 3	BLUE RIDGE	1.2
SALEM 25 KV SALEM1	HILLSDALE_PARKRIDGE	0.2
SALEM 25 KV SALEM2	HILLSDALE_PARKRIDGE	0.2
SANDERSO13.8 KV SAN1	AEPIM_RESID_AGG	2.5
SANDERSO13.8 KV SAN2	AEPIM_RESID_AGG	2.5
SANDERSO13.8 KV SAN3	AEPIM_RESID_AGG	22.5
SAYREVIL13 KV CT 1	JCPL_RESID_AGG	2.3
SAYREVIL13 KV CT 2	JCPL_RESID_AGG	2.2
SAYREVIL13 KV CT 3	JCPL_RESID_AGG	2.1
SAYREVIL13 KV CT 4	JCPL_RESID_AGG	2
SBEND 18 KV CT1	LIDA - AP	0.1
SBEND 18 KV CT2	LIDA - AP	0.1
SBEND 18 KV CT3	LIDA - AP	0.1
SBEND 18 KV CT4	LIDA - AP	0.1
SHAWNEE 13 KV SHAWNE	METED	0.5
SHAWNEE 13 KV SHAWNE	METED_RESID_AGG	5
SJEC 18 KV STG	AEPAPCO_RESID_AGG	22.2
SJEC 18 KV STG	AEPKY_RESID_AGG	40.5
SJEC 18 KV STG	AEPOHIO W.O. MON POWER	234
SJEC 18 KV STG	AMP-OHIO	3.5
SJEC 18 KV STG	BLUE RIDGE	8.4
SJEC 18 KV STG	BUCK-CIN	0.4
SJEC 18 KV STG	BUCKEYE - AEPOH	6.7
SJEC 18 KV STG	BUCKEYE - DPL	1.7
SJEC 18 KV STG	BUCK-FE	1.1
SPRINGDA18 KV ST5	LIDA - AP	0.1

Source	Sink	Infeasible MW Quantity
SUSQUEHA24 KV UNIT01	BGE_RESID_AGG	50.1
SUSQUEHA24 KV UNIT01	EPHRATA	1.6
SUSQUEHA24 KV UNIT01	METED_RESID_AGG	2.6
SUSQUEHA24 KV UNIT02	BGE_RESID_AGG	52.4
SUSQUEHA24 KV UNIT02	EPHRATA	2.2
SUSQUEHA24 KV UNIT02	METED_RESID_AGG	5.4
SUSQUEHA24 KV UNIT02	PENELEC_RESID_AGG	25
TANNERS18 KV TC3	MIAMIFOR18 KV G6	143.9
TIDD_AEP24 KV CD2	BUCK-CIN	7.4
TIDD_AEP26 KV CD3	BUCK-CIN	7.4
WCATWIND34.5 KV WLDCATWF	AEPOHIO W.O. MON POWER	0.2
WOODBDRG18 KV CT-1A	BRUNSWICK	0.5
WOODBDRG18 KV CT-1A	HILLSDALE_PARKRIDGE	0.2
WOODBDRG18 KV CT-1A	PSEG_RESID_AGG	112.8
ZELDA 18 KV UNIT 1	BUCK-CIN	0.1
ZELDA 18 KV UNIT 2	BUCK-CIN	0.1
ZELDA 18 KV UNIT 3	BUCK-CIN	0.1