

## PJM 2023/2024 Stage 1A Over Allocation Notice

This document is to inform PJM members that Stage 1A of the 2023/2024 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 2023/2024 Annual ARR Allocation and all FTR Auctions effective for the 2023/2024 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.

Constraint Name	Contingency Description	Required MW Increase in Capability Limits	Type	Reason for Infeasibility
Argenta-Tompkins 345 kV I/o Argent- Battle Creek 345 kV		55	M2M Flowgate	Network Load
ASHBURN 230 KV 227A_Z	L230.Beaumead-Ashburn-PleasantView.274	553	Internal PJM	Transmission Outage
ASHBURN 230 KV 227B_I	L230.Beaumead-Ashburn-PleasantView.274	519	Internal PJM	Transmission Outage
Batesville-Hubble 138 I/o Tanners Crk-Miami Fort 345		85	M2M Flowgate	Network Load
BLMNTDOM230 KV BEL-COCH_I	L230.Beaumead-Ashburn-PleasantView.274	274	Internal PJM	Transmission Outage
Cherry Valley - Silver Lake (15616) 345 kV I/o Byron - Wayne 345 kV		205	M2M Flowgate	Network Load
CHURCH 69 KV CHU-NME_I	230/138.Milford.AT20	12	Internal PJM	Transmission Outage
CLINTON 230 KV CLI-SAE_Z	L230.Columbia-Montour	12	Internal PJM	Transmission Outage
COLORA 230 KV COL-CON2_Z	L230.Conowingo-Nottingham-220-03	28	Internal PJM	Transmission Outage
Commodore 345-230 xfmr 21/o Prairie State-Mt Vernon 345		26	M2M Flowgate	Network Load
CONASTON500 KV 500-4_I	L500.Brighton-Conastone.5011	80	Internal PJM	Transmission Outage
CONASTON500 KV CNS-PEA_Z		144	Internal PJM	Transmission Outage
COOPERPE230 KV COO-GRA_I	L500.Conastone-PeachBottom.5012	510	Internal PJM	Transmission Outage
COOPERPE230 KV COO-GRA_I		14	Internal PJM	Transmission Outage

Constraint Name	Contingency Description	Required MW Increase in Capability Limits	Type	Reason for Infeasibility
COOPERPE230 KV COO-PEA_Z	L500.Conastone-PeachBottom.5012	517	Internal PJM	Transmission Outage
COOPERPE230 KV COO-PEA_Z		21	Internal PJM	Transmission Outage
DICKERSH230 KV DIC-DIC4_I	L500.BurchesHill-PossumPoint.560	870	Internal PJM	Transmission Outage
DICKERSH230 KV DIC-DIC4_I		772	Internal PJM	Transmission Outage
EDWSFERY230 KV 203A_I	L500.BurchesHill-PossumPoint.560	333	Internal PJM	Transmission Outage
EDWSFERY230 KV 203A_I		101	Internal PJM	Transmission Outage
EDWSFERY230 KV 23111_Z	L500.BurchesHill-PossumPoint.560	271	Internal PJM	Transmission Outage
EDWSFERY230 KV 23111_Z		137	Internal PJM	Transmission Outage
ELIMSPOR230 KV ELI-SUN_I	L230.Columbia-Montour	698	Internal PJM	Transmission Outage
ELIMSPOR230 KV ELI-SUN_I		169	Internal PJM	Transmission Outage
Elkhorn North Lake Geneva 138 I/o Sunrise White Water 138		66	M2M Flowgate	Network Load
ELMONT4 230 KV 2103_Z	L500.Midlothian-NorthAnna.576	26	Internal PJM	Transmission Outage
ESAYRE 115 KV ESA-NWA_I	L230.ETowanda-Hillside.2002 [NVIS0]	23	Internal PJM	Transmission Outage
FALCONER115 KV FAL-WAR_Z	L230.Glade-Warren.2088	4	Tie Line	Transmission Outage
Francisco - Duff 345 kv flo Gibson -ABBrown 345 kv		56	M2M Flowgate	Transmission Outage
HAMPSHIR138 KV HAM-RID_Z	L230.PleasantView-EdwardsFerry-Dickerson.23111/203A	16	Internal PJM	Transmission Outage
Joppa - Shawnee 3 161 kv I/o Joppa - Shawnee 4 161 kv		3	M2M Flowgate	Transmission Outage
Joppa North Shawnee LN_3 I/o Shawnee 500 345_T11		16	M2M Flowgate	Network Load
Labadie-GraySummit 2 345 kv I/o Labadie-GraySummit 1 345 kv		21	M2M Flowgate	Network Load
LENOX 115 KV LEN-MAC_I	L230.EastTowanda-Canyon-NMeshoppen	18	Internal PJM	Transmission Outage
LENOX 115 KV LEN-NME_Z	L230.EastTowanda-Canyon-NMeshoppen	34	Internal PJM	Transmission Outage
LENOX 115 KV LEN-NME_Z		9	Internal PJM	Transmission Outage
MACNEW_T115 KV MAC-WIL_I	L230.EastTowanda-Canyon-NMeshoppen	5	Internal PJM	Transmission Outage
MALISZEW765 KV 1_I	765/345.Vassell.T1	56	Internal PJM	Transmission Outage
MIDDLEJCT115 KV MID-YOR7_I	L500.Conastone-PeachBottom.5012	8	Internal PJM	Transmission Outage
Monroe-Lallendorf 345 kv I/o Lulu 345 kv Sub		554	M2M Flowgate	Network Load
Monroe-Lallendorf I/o Morocco-Allen Junction		607	M2M Flowgate	Network Load
MONTOUR 230 KV MON-SAE_I	L230.Columbia-Montour	659	Internal PJM	Transmission Outage
N Lake Geneva Tap Burlington 138kv I/o University Mukwonago 138		15	M2M Flowgate	Network Load
North Lake Geneva Burlington 138 I/o Balsam Spring Valley 138		26	M2M Flowgate	Network Load
NOTTINGH230 KV 1-3_I	L500.Conastone-PeachBottom.5012	533	Internal PJM	Transmission Outage
NOTTINGH230 KV 1-3_I		22	Internal PJM	Transmission Outage
NOTTINGH230 KV 2-3_I	L500.Conastone-PeachBottom.5012	533	Internal PJM	Transmission Outage
NOTTINGH230 KV 2-3_I		22	Internal PJM	Transmission Outage
NOTTINGH230 KV NOT-PEA_I	L500.Conastone-PeachBottom.5012	518	Internal PJM	Transmission Outage
NOTTINGH230 KV NOT-PEA_I		22	Internal PJM	Transmission Outage
Paradise - BR_Tap 161 kv I/o Gibson Unit 1		21	M2M Flowgate	Network Load
Paradise-Big River Tap I/o Wilson1		21	M2M Flowgate	Network Load
Paradise-BR Tap 161kv (flo) Phipps Bend-Volunteer 500kv		5	M2M Flowgate	Network Load
Pleasant Prairie-Zion EC 345 kv I/o Pleasant Prairie-Zion 345 kv		12	M2M Flowgate	Network Load
POE 230 KV 2002A_Z	L500.Carson-Midlothian.563	26	Internal PJM	Transmission Outage
POSSUMP4230 KV 2078Z_I	L230.PleasantView-EdwardsFerry-Dickerson.23111/203A	198	Internal PJM	Transmission Outage
POSSUMP4500 KV TX1_I	L230.PleasantView-EdwardsFerry-Dickerson.23111/203A	288	Internal PJM	Transmission Outage
Quad Cities - Cordova 0402 345kv I/o Quad Cities - Cordova 0403 345kv		96	M2M Flowgate	Network Load
QuadCities-RockCreek 345 kv I/o QuadCities-Sub91 345/161 kv Sub91 XF		10	M2M Flowgate	Network Load
ROXBURY 115 KV ROX-SHA_Z	L500.Conastone-PeachBottom.5012	7	Internal PJM	Transmission Outage
Sandburg xfmr 3 I/o Oak Grove - Sandburg 345 kv		107	M2M Flowgate	Network Load
SEWARD 230 KV T11_I	L230.Johnstown-Seward.2018	30	Internal PJM	Transmission Outage
Sioux - Roxford 345 kv I/o Graysum - Labadie 1 345 kv		109	M2M Flowgate	Network Load
Sugar Creek Dresser 345 I/o Nucor Cayuga 345		3	M2M Flowgate	Transmission Outage
TMI 500 KV 1 BANK_I	L500.Conastone-PeachBottom.5012	214	Internal PJM	Transmission Outage
TMI 500 KV 1 BANK_I		6	Internal PJM	Transmission Outage
TYLER 230 KV 2003A1_I	L500.Carson-Midlothian.563	88	Internal PJM	Transmission Outage
TYLER 230 KV 2003B1_Z	L500.Carson-Midlothian.563	110	Internal PJM	Transmission Outage

Listed below are the aggregate MW quantities, by source and sinks, of infeasible ARR in Stage 1A of the 2023/2024 Annual ARR Allocation.

Source	Sink	Infeasible MW Quantity
100 SHAD34.5 KV GSG6WF	COMED_RESID_AGG	2.7
100 SHAD34.5 KV GSG6WF	NAPERVILLE	0.1
107 DIXO34.5 KV SUBLETTE	COMED_RESID_AGG	0.8
139 MEND34.5 KV WBROOKWF	COMED_RESID_AGG	0.5
4 QUAD C18 KV QC-1	BATAVIA	1.9
4 QUAD C18 KV QC-1	COMED_RESID_AGG	449.2
4 QUAD C18 KV QC-1	GENEVA	1.1
4 QUAD C18 KV QC-1	N ILLINOIS HUB	87.2
4 QUAD C18 KV QC-1	NAPERVILLE	7.6
4 QUAD C18 KV QC-1	ST. CHARLES	2.6
4 QUAD C18 KV QC-2	BATAVIA	1.9
4 QUAD C18 KV QC-2	COMED_RESID_AGG	449.1
4 QUAD C18 KV QC-2	GENEVA	1.1
4 QUAD C18 KV QC-2	N ILLINOIS HUB	203.6
4 QUAD C18 KV QC-2	NAPERVILLE	7.6
4 QUAD C18 KV QC-2	ST. CHARLES	2.6
6 BYRON 25 KV BY-1	BATAVIA	2.1
6 BYRON 25 KV BY-1	COMED_RESID_AGG	586.6
6 BYRON 25 KV BY-1	GENEVA	1.3
6 BYRON 25 KV BY-1	N ILLINOIS HUB	61.6
6 BYRON 25 KV BY-1	NAPERVILLE	9.7
6 BYRON 25 KV BY-1	ST. CHARLES	3
6 BYRON 25 KV BY-2	BATAVIA	2
6 BYRON 25 KV BY-2	COMED_RESID_AGG	572.3
6 BYRON 25 KV BY-2	GENEVA	1.3
6 BYRON 25 KV BY-2	N ILLINOIS HUB	143.8
6 BYRON 25 KV BY-2	NAPERVILLE	9.5
6 BYRON 25 KV BY-2	ST. CHARLES	2.9
937 LEE 13.5 KV LEE31-1	BATAVIA	0.1
937 LEE 13.5 KV LEE31-1	COMED_RESID_AGG	34.6
937 LEE 13.5 KV LEE31-1	GENEVA	0.1
937 LEE 13.5 KV LEE31-1	NAPERVILLE	0.6
937 LEE 13.5 KV LEE31-1	ST. CHARLES	0.2
937 LEE 13.5 KV LEE31-2	BATAVIA	0.1
937 LEE 13.5 KV LEE31-2	COMED_RESID_AGG	34.6
937 LEE 13.5 KV LEE31-2	GENEVA	0.1
937 LEE 13.5 KV LEE31-2	NAPERVILLE	0.6

Source	Sink	Infeasible MW Quantity
937 LEE 13.5 KV LEE31-2	ST. CHARLES	0.2
937 LEE 13.5 KV LEE32-1	COMED_RESID_AGG	15.8
937 LEE 13.5 KV LEE32-1	NAPERVILLE	0.3
937 LEE 13.5 KV LEE32-1	ST. CHARLES	0.1
937 LEE 13.5 KV LEE32-2	COMED_RESID_AGG	15.8
937 LEE 13.5 KV LEE32-2	NAPERVILLE	0.3
937 LEE 13.5 KV LEE32-2	ST. CHARLES	0.1
937 LEE 13.5 KV LEE33-1	BATAVIA	0.1
937 LEE 13.5 KV LEE33-1	COMED_RESID_AGG	34
937 LEE 13.5 KV LEE33-1	GENEVA	0.1
937 LEE 13.5 KV LEE33-1	NAPERVILLE	0.6
937 LEE 13.5 KV LEE33-1	ST. CHARLES	0.2
937 LEE 13.5 KV LEE33-2	BATAVIA	0.1
937 LEE 13.5 KV LEE33-2	COMED_RESID_AGG	33.9
937 LEE 13.5 KV LEE33-2	GENEVA	0.1
937 LEE 13.5 KV LEE33-2	NAPERVILLE	0.6
937 LEE 13.5 KV LEE33-2	ST. CHARLES	0.2
937 LEE 13.5 KV LEE34-1	COMED_RESID_AGG	15.8
937 LEE 13.5 KV LEE34-1	NAPERVILLE	0.3
937 LEE 13.5 KV LEE34-1	ST. CHARLES	0.1
937 LEE 13.5 KV LEE34-2	COMED_RESID_AGG	15.8
937 LEE 13.5 KV LEE34-2	NAPERVILLE	0.3
937 LEE 13.5 KV LEE34-2	ST. CHARLES	0.1
940 CORD18 KV CD-1	BATAVIA	0.3
940 CORD18 KV CD-1	COMED_RESID_AGG	80.5
940 CORD18 KV CD-1	GENEVA	0.1
940 CORD18 KV CD-1	NAPERVILLE	1.4
940 CORD18 KV CD-1	ST. CHARLES	0.4
940 CORD18 KV CD-2	BATAVIA	0.3
940 CORD18 KV CD-2	COMED_RESID_AGG	80.4
940 CORD18 KV CD-2	GENEVA	0.1
940 CORD18 KV CD-2	NAPERVILLE	1.4
940 CORD18 KV CD-2	ST. CHARLES	0.4
952 ROCK16 KV RO11	BATAVIA	0.2
952 ROCK16 KV RO11	COMED_RESID_AGG	84.6
952 ROCK16 KV RO11	GENEVA	0.1
952 ROCK16 KV RO11	NAPERVILLE	1.2
952 ROCK16 KV RO11	ST. CHARLES	0.3
952 ROCK16 KV RO12	BATAVIA	0.2
952 ROCK16 KV RO12	COMED_RESID_AGG	83.7

Source	Sink	Infeasible MW Quantity
952 ROCK16 KV RO12	GENEVA	0.1
952 ROCK16 KV RO12	NAPERVILLE	1.2
952 ROCK16 KV RO12	ST. CHARLES	0.3
959ERDBS34.5 KV BSWFBR1	COMED_RESID_AGG	12.5
959ERDBS34.5 KV BSWFBR1	NAPERVILLE	0.2
969 ECOG34.5 KV LENAUF	COMED_RESID_AGG	9.4
969 ECOG34.5 KV LENAUF	NAPERVILLE	0.1
981 CRES34.5 KV CRIDGEWF	COMED_RESID_AGG	0.5
981 CRES34.5 KV PROVIDWF	COMED_RESID_AGG	0.8
982 ROCK16 KV RO21	BATAVIA	0.2
982 ROCK16 KV RO21	COMED_RESID_AGG	86.8
982 ROCK16 KV RO21	GENEVA	0.1
982 ROCK16 KV RO21	NAPERVILLE	1.3
982 ROCK16 KV RO21	ST. CHARLES	0.3
AEP-DAYTON HUB	DOM_RESID_AGG	41.6
AMOS 26 KV AM1	AEPOHIO W.O. MON POWER	3.1
AMOS 26 KV AM1	AMP-OHIO	0.6
AMOS 26 KV AM1	BLUE RIDGE	0.8
AMOS 26 KV AM2	AEPOHIO W.O. MON POWER	3.7
AMOS 26 KV AM2	AMP-OHIO	0.3
AMOS 26 KV AM3	AEPOHIO W.O. MON POWER	6.5
AMOS 26 KV AM3	AMP-OHIO	0.9
AMOS 26 KV AM3	BLUE RIDGE	1.4
ARCHBTAP13 KV PEI 1	CITIZENS	0.3
ARCHBTAP13 KV PEI 1	EPHRATA	0.1
ARCHBTAP13 KV PEI 1	PERKASIE	0.1
ARCHBTAP13 KV PEI 1	PPL_RESID_AGG	18.8
ARCHBTAP13 KV PEI 2	CITIZENS	0.2
ARCHBTAP13 KV PEI 2	EPHRATA	0.1
ARCHBTAP13 KV PEI 2	PERKASIE	0.1
ARCHBTAP13 KV PEI 2	PPL_RESID_AGG	26
ASYLUM 23 KV LIBRTY10	BGE_RESID_AGG	15.7
ASYLUM 23 KV LIBRTY10	PENELEC_RESID_AGG	91.5
ASYLUM 23 KV LIBRTY10	PEPCO DC	4.2
ASYLUM 23 KV LIBRTY10	PEPCO MD	6.9
ASYLUM 23 KV LIBRTY10	SMECO_RESID_AGG	1.3
BATHCO 20 KV GM1	DOM_RESID_AGG	164.4
BATHCO 20 KV GM2	DOM_RESID_AGG	164.4
BATHCO 20 KV GM3	DOM_RESID_AGG	164.1
BATHCO 20 KV GM4	DOM_RESID_AGG	164

Source	Sink	Infeasible MW Quantity
BATHCO 20 KV GM5	DOM_RESID_AGG	164.8
BATHCO 20 KV GM6	DOM_RESID_AGG	165.4
BEARGRDN18 KV ST1C	DOM_RESID_AGG	142.5
BEAV DUQ22 KV UNIT1	AMP-ATSI OH	21.7
BEAV DUQ22 KV UNIT1	FEOHIO_RESID_AGG	491.9
BEAV DUQ22 KV UNIT2	AMP-ATSI OH	21.4
BEAV DUQ22 KV UNIT2	FEOHIO_RESID_AGG	466.5
BERRHYD 4 KV BR1	AEPAPCO_RESID_AGG	0.4
BERRHYD 4 KV BR1	AEPIM_RESID_AGG	1.2
BERRHYD 4 KV BR1	AEPOHIO W.O. MON POWER	5.1
BERRHYD 4 KV BR1	AK STEEL	0.1
BERRHYD 4 KV BR1	BLUE RIDGE	0.3
BERRHYD 4 KV BR10	AEPAPCO_RESID_AGG	0.4
BERRHYD 4 KV BR10	AEPIM_RESID_AGG	1.2
BERRHYD 4 KV BR10	AEPOHIO W.O. MON POWER	4.9
BERRHYD 4 KV BR10	AK STEEL	0.1
BERRHYD 4 KV BR10	BLUE RIDGE	0.3
BERRHYD 4 KV BR11	AEPAPCO_RESID_AGG	0.4
BERRHYD 4 KV BR11	AEPIM_RESID_AGG	1.2
BERRHYD 4 KV BR11	AEPOHIO W.O. MON POWER	4.9
BERRHYD 4 KV BR11	AK STEEL	0.1
BERRHYD 4 KV BR11	BLUE RIDGE	0.3
BERRHYD 4 KV BR12	AEPAPCO_RESID_AGG	0.4
BERRHYD 4 KV BR12	AEPIM_RESID_AGG	1.1
BERRHYD 4 KV BR12	AEPOHIO W.O. MON POWER	4.2
BERRHYD 4 KV BR12	AK STEEL	0.1
BERRHYD 4 KV BR12	BLUE RIDGE	0.3
BERRHYD 4 KV BR2	AEPAPCO_RESID_AGG	0.4
BERRHYD 4 KV BR2	AEPIM_RESID_AGG	1.1
BERRHYD 4 KV BR2	AEPOHIO W.O. MON POWER	4.3
BERRHYD 4 KV BR2	AK STEEL	0.1
BERRHYD 4 KV BR2	BLUE RIDGE	0.3
BERRHYD 4 KV BR3	AEPAPCO_RESID_AGG	0.4
BERRHYD 4 KV BR3	AEPIM_RESID_AGG	1.2
BERRHYD 4 KV BR3	AEPOHIO W.O. MON POWER	4.1
BERRHYD 4 KV BR3	AK STEEL	0.1
BERRHYD 4 KV BR3	BLUE RIDGE	0.3
BERRHYD 4 KV BR4	AEPAPCO_RESID_AGG	0.3
BERRHYD 4 KV BR4	AEPIM_RESID_AGG	1.1
BERRHYD 4 KV BR4	AEPOHIO W.O. MON POWER	4

Source	Sink	Infeasible MW Quantity
BERRHYD 4 KV BR4	AK STEEL	0.1
BERRHYD 4 KV BR4	BLUE RIDGE	0.3
BERRHYD 4 KV BR5	AEPAPCO_RESID_AGG	0.3
BERRHYD 4 KV BR5	AEPIM_RESID_AGG	1.2
BERRHYD 4 KV BR5	AEPOHIO W.O. MON POWER	3.8
BERRHYD 4 KV BR5	AK STEEL	0.1
BERRHYD 4 KV BR5	BLUE RIDGE	0.3
BERRHYD 4 KV BR6	AEPAPCO_RESID_AGG	0.3
BERRHYD 4 KV BR6	AEPIM_RESID_AGG	1.1
BERRHYD 4 KV BR6	AEPOHIO W.O. MON POWER	3.8
BERRHYD 4 KV BR6	AK STEEL	0.1
BERRHYD 4 KV BR6	BLUE RIDGE	0.3
BERRHYD 4 KV BR7	AEPAPCO_RESID_AGG	0.3
BERRHYD 4 KV BR7	AEPIM_RESID_AGG	1
BERRHYD 4 KV BR7	AEPOHIO W.O. MON POWER	3.8
BERRHYD 4 KV BR7	AK STEEL	0.1
BERRHYD 4 KV BR7	BLUE RIDGE	0.3
BERRHYD 4 KV BR8	AEPAPCO_RESID_AGG	0.3
BERRHYD 4 KV BR8	AEPIM_RESID_AGG	1
BERRHYD 4 KV BR8	AEPOHIO W.O. MON POWER	3.8
BERRHYD 4 KV BR8	AK STEEL	0.1
BERRHYD 4 KV BR8	BLUE RIDGE	0.3
BERRHYD 4 KV BR9	AEPAPCO_RESID_AGG	0.3
BERRHYD 4 KV BR9	AEPIM_RESID_AGG	1.2
BERRHYD 4 KV BR9	AEPOHIO W.O. MON POWER	3.8
BERRHYD 4 KV BR9	AK STEEL	0.1
BERRHYD 4 KV BR9	BLUE RIDGE	0.3
BIGSANDY22 KV BS1	AEPOHIO W.O. MON POWER	0.1
BIGSANDY22 KV BS1	AMP-OHIO	0.1
BIGSANDY22 KV BS1	BLUE RIDGE	0.2
BIRDBORO23 KV CT1	PENELEC_RESID_AGG	72.2
BIRDBORO23 KV CT1	WELLSBORO	0.9
BIRDNECK34.5 KV CVOWPLWF	DOM_RESID_AGG	0.2
BLAIRSVE22 KV CONMDMUN	PENELEC_RESID_AGG	0.9
BLMNTDOM19 KV STONEST	DOM_RESID_AGG	216.6
BLOSSBUR13 KV UNITCT	PENELEC_RESID_AGG	15.4
BLUECREE34.5 KV BLUEC3WF	BLUE RIDGE	0.1
BOARDMAN69 KV MAHONILF	AMP-ATSI OH	2.8
BRUNSCOL21 KV BRUNSST	DOM_RESID_AGG	377.9
BSPEAKER138 KV 1	AEPOHIO W.O. MON POWER	5.2

Source	Sink	Infeasible MW Quantity
BSPEAKER138 KV 1	BLUE RIDGE	0.1
BSPEAKER138 KV 2	AEPOHIO W.O. MON POWER	5.2
BSPEAKER138 KV 2	BLUE RIDGE	0.1
BSPEAKER138 KV 3	AEPOHIO W.O. MON POWER	5.2
BSPEAKER138 KV 3	BLUE RIDGE	0.1
BSPEAKER138 KV 4	AEPOHIO W.O. MON POWER	5.2
BSPEAKER138 KV 4	BLUE RIDGE	0.1
BSPEAKER138 KV 5	AEPOHIO W.O. MON POWER	5.2
BSPEAKER138 KV 5	BLUE RIDGE	0.1
BSPEAKER138 KV 6	AEPOHIO W.O. MON POWER	5.2
BSPEAKER138 KV 6	BLUE RIDGE	0.1
BUCHANAN2 KV BU1	AEPAPCO_RESID_AGG	0.4
BUCHANAN2 KV BU1	AEPOHIO W.O. MON POWER	4.7
BUCHANAN2 KV BU1	BLUE RIDGE	0.3
BUCHANAN2 KV BU10	AEPAPCO_RESID_AGG	0.4
BUCHANAN2 KV BU10	AEPOHIO W.O. MON POWER	4.4
BUCHANAN2 KV BU10	BLUE RIDGE	0.3
BUCHANAN2 KV BU2	AEPAPCO_RESID_AGG	0.4
BUCHANAN2 KV BU2	AEPOHIO W.O. MON POWER	4.4
BUCHANAN2 KV BU2	BLUE RIDGE	0.3
BUCHANAN2 KV BU3	AEPAPCO_RESID_AGG	0.4
BUCHANAN2 KV BU3	AEPOHIO W.O. MON POWER	4.1
BUCHANAN2 KV BU3	BLUE RIDGE	0.3
BUCHANAN2 KV BU4	AEPAPCO_RESID_AGG	0.4
BUCHANAN2 KV BU4	AEPOHIO W.O. MON POWER	4.1
BUCHANAN2 KV BU4	BLUE RIDGE	0.3
BUCHANAN2 KV BU5	AEPAPCO_RESID_AGG	0.4
BUCHANAN2 KV BU5	AEPOHIO W.O. MON POWER	4
BUCHANAN2 KV BU5	BLUE RIDGE	0.3
BUCHANAN2 KV BU6	AEPAPCO_RESID_AGG	0.4
BUCHANAN2 KV BU6	AEPOHIO W.O. MON POWER	4
BUCHANAN2 KV BU6	BLUE RIDGE	0.3
BUCHANAN2 KV BU7	AEPAPCO_RESID_AGG	0.4
BUCHANAN2 KV BU7	AEPOHIO W.O. MON POWER	3.9
BUCHANAN2 KV BU7	BLUE RIDGE	0.3
BUCHANAN2 KV BU8	AEPAPCO_RESID_AGG	0.4
BUCHANAN2 KV BU8	AEPOHIO W.O. MON POWER	3.7
BUCHANAN2 KV BU8	BLUE RIDGE	0.3
BUCHANAN2 KV BU9	AEPAPCO_RESID_AGG	0.4
BUCHANAN2 KV BU9	AEPOHIO W.O. MON POWER	3.7



Source	Sink	Infeasible MW Quantity
BUCHANAN2 KV BU9	BLUE RIDGE	0.3
BUCK 13 KV BK1	AEPOHIO W.O. MON POWER	0.1
BUCK 13 KV BK2	AEPOHIO W.O. MON POWER	0.1
BUCK 13 KV BK3	AEPOHIO W.O. MON POWER	0.1
BUXTON 34.5 KV GEN12	DOM_RESID_AGG	0.9
BUXTON 34.5 KV GEN34	DOM_RESID_AGG	0.9
BUXTON 34.5 KV GEN5	DOM_RESID_AGG	0.4
BUXTON 34.5 KV OCRACOK1	DOM_RESID_AGG	0.4
CAPITALA34.5 KV STJOESP	AEPIM_RESID_AGG	3.3
CARTANZA13.8 KV GARRISON	DPL_ODEC	0.9
CHESTER422 KV G6	DOM_RESID_AGG	0.1
CHINQUPN23 KV CONET2SP	DOM_RESID_AGG	52.1
CHR138 12 KV G11	DEMEC	0.1
CHR138 12 KV G11	DPL_ODEC	0.9
CHR138 12 KV G14	DEMEC	0.1
CHR138 12 KV G14	DPL_ODEC	0.9
CLIFTYCR15.5 KV CC1	BUCKEYE - AEPOH	16.3
CLIFTYCR15.5 KV CC1	DAY_RESID_AGG	20.4
CLOVER 25 KV G1	DOM_RESID_AGG	134
CLOVER 25 KV G2	DOM_RESID_AGG	133.5
COLVERPO13 KV NUG GE	PENELEC_RESID_AGG	13.5
CONEMAUG115 KV DIESEL	PSEG_RESID_AGG	0.3
CONEMAUG22 KV UNIT 1	DPL_ODEC	1
CONEMAUG22 KV UNIT 1	PSEG_RESID_AGG	0.4
CONEMAUG22 KV UNIT02	DPL_ODEC	1
CONEMAUG22 KV UNIT02	PSEG_RESID_AGG	0.4
CONOWING13 KV G10	PECO_RESID_AGG	26.1
CONOWING13 KV G11	PECO_RESID_AGG	26.1
CONOWING13 KV GEN1	PECO_RESID_AGG	18.5
CONOWING13 KV GEN2	PECO_RESID_AGG	13.4
CONOWING13 KV GEN3	PECO_RESID_AGG	18.5
CONOWING13 KV GEN4	PECO_RESID_AGG	18.5
CONOWING13 KV GEN5	PECO_RESID_AGG	13.4
CONOWING13 KV GEN6	PECO_RESID_AGG	18.5
CONOWING13 KV GEN8	PECO_RESID_AGG	26.1
CONOWING13 KV GEN9	PECO_RESID_AGG	26.1
CONOWING13 KV UNIT07	PECO_RESID_AGG	18.5
CONSTANT2 KV CO1	AEPAPCO_RESID_AGG	0.3
CONSTANT2 KV CO1	AEPOHIO W.O. MON POWER	4.2
CONSTANT2 KV CO1	AK STEEL	0.1

Source	Sink	Infeasible MW Quantity
CONSTANT2 KV CO1	BLUE RIDGE	0.3
CONSTANT2 KV CO2	AEPAPCO_RESID_AGG	0.3
CONSTANT2 KV CO2	AEPOHIO W.O. MON POWER	4.1
CONSTANT2 KV CO2	AK STEEL	0.1
CONSTANT2 KV CO2	BLUE RIDGE	0.3
CONSTANT2 KV CO3	AEPAPCO_RESID_AGG	0.3
CONSTANT2 KV CO3	AEPOHIO W.O. MON POWER	4
CONSTANT2 KV CO3	AK STEEL	0.1
CONSTANT2 KV CO3	BLUE RIDGE	0.3
CONSTANT2 KV CO4	AEPAPCO_RESID_AGG	0.3
CONSTANT2 KV CO4	AEPOHIO W.O. MON POWER	4
CONSTANT2 KV CO4	AK STEEL	0.1
CONSTANT2 KV CO4	BLUE RIDGE	0.3
COOK 26 KV CK1	AEPAPCO_RESID_AGG	223.2
COOK 26 KV CK1	AEPIM_RESID_AGG	114.1
COOK 26 KV CK1	AEPKY_RESID_AGG	40.2
COOK 26 KV CK1	AEPOHIO W.O. MON POWER	379.3
COOK 26 KV CK1	AK STEEL	1.1
COOK 26 KV CK1	AMP-OHIO	3.8
COOK 26 KV CK1	BLUE RIDGE	12.4
COOK 26 KV CK1	BUCK-CIN	0.4
COOK 26 KV CK1	BUCKEYE - AEPOH	7.7
COOK 26 KV CK1	BUCKEYE - DPL	1.9
COOK 26 KV CK1	BUCK-FE	1.4
COOK 26 KV CK1	MERIDIAN EWHITLEY	1.3
COOK 26 KV CK2	AEPAPCO_RESID_AGG	191.5
COOK 26 KV CK2	AEPKY_RESID_AGG	33.7
COOK 26 KV CK2	AEPOHIO W.O. MON POWER	368.6
COOK 26 KV CK2	AK STEEL	0.8
COOK 26 KV CK2	AMP-OHIO	3.8
COOK 26 KV CK2	BLUE RIDGE	11.2
COOK 26 KV CK2	BUCK-CIN	0.4
COOK 26 KV CK2	BUCKEYE - AEPOH	8.1
COOK 26 KV CK2	BUCKEYE - DPL	2
COOK 26 KV CK2	BUCK-FE	1.5
CORNU 18 KV 1GT1	AEPOHIO W.O. MON POWER	3.1
CORNU 18 KV 1GT1	AMP-OHIO	0.1
CORNU 18 KV 1GT2	AEPOHIO W.O. MON POWER	1.4
CORNU 18 KV 1GT2	AMP-OHIO	0.1
CORNU 18 KV 2GT1	AEPOHIO W.O. MON POWER	3

Source	Sink	Infeasible MW Quantity
CORNU 18 KV 2GT1	AMP-OHIO	0.1
CORNU 18 KV 2GT2	AEPOHIO W.O. MON POWER	2.5
CORNU 18 KV 2GT2	AMP-OHIO	0.1
CORNU 18 KV ST1	AEPOHIO W.O. MON POWER	0.7
CORNU 18 KV ST1	AMP-OHIO	0.1
CORNU 18 KV ST2	AEPOHIO W.O. MON POWER	2.5
CORNU 18 KV ST2	AMP-OHIO	0.1
COVERT 16 KV 1GTG	AEPAPCO_RESID_AGG	242.2
COVERT 16 KV 1GTG	AEPIM_RESID_AGG	152.9
COVERT 16 KV 1GTG	AEPKY_RESID_AGG	43.8
COVERT 16 KV 1GTG	AEPOHIO W.O. MON POWER	402.6
COVERT 16 KV 1GTG	AK STEEL	1.2
COVERT 16 KV 1GTG	AMP-OHIO	4.2
COVERT 16 KV 1GTG	BLUE RIDGE	13.1
COVERT 16 KV 1GTG	BUCK-CIN	0.5
COVERT 16 KV 1GTG	BUCKEYE - AEPOH	9.6
COVERT 16 KV 1GTG	BUCKEYE - DPL	2.6
COVERT 16 KV 1GTG	BUCK-FE	2.1
COVERT 16 KV 1GTG	MERIDIAN EWHITLEY	1.6
CUSHAW 2 KV G15	DOM_RESID_AGG	1
DELA DPL13 KV G1	DEMEC	0.4
DELA DPL13 KV G1	DPL_ODEC	2.2
DELA DPL13 KV G10	DEMEC	0.1
DELA DPL13 KV G10	DPL_ODEC	0.7
DELA DPL13 KV G2	DEMEC	0.4
DELA DPL13 KV G2	DPL_ODEC	2.3
DENAWASH18 KV UN1	BLUE RIDGE	1.3
DENAWASH18 KV UN2	BLUE RIDGE	1.1
DENAWASH18 KV UN3	BLUE RIDGE	1.1
DICKERSH13 KV HCT1	PEPCO DC	43.1
DICKERSH13 KV HCT1	PEPCO MD	62
DICKERSH13 KV HCT1	SMECO_RESID_AGG	16.6
DICKERSH13 KV HCT2	PEPCO DC	43
DICKERSH13 KV HCT2	PEPCO MD	61.8
DICKERSH13 KV HCT2	SMECO_RESID_AGG	16.6
DICKERSH13 KV RESREC	PEPCO DC	15.3
DICKERSH13 KV RESREC	PEPCO MD	22.3
DICKERSH13 KV RESREC	SMECO_RESID_AGG	6
DLTAPLNT13.8 KV GEN1	AMP-ATSI OH	1.1
DLTAPLNT13.8 KV GEN1	AMP-ATSI PA	0.1

Source	Sink	Infeasible MW Quantity
DLTAPLNT13.8 KV GEN1	BGE_RESID_AGG	11
DLTAPLNT13.8 KV GEN1	CPP	0.8
DLTAPLNT13.8 KV GEN1	DEK	0.6
DLTAPLNT13.8 KV GEN1	DEOK	2.7
DLTAPLNT13.8 KV GEN1	DEOK_RESID_AGG	26.6
DLTAPLNT13.8 KV GEN1	DUQ_RESID_AGG	14.8
DLTAPLNT13.8 KV GEN1	EKPC_RESID_AGG	3.7
DLTAPLNT13.8 KV GEN1	EKPC-DEOK LOAD	0.1
DLTAPLNT13.8 KV GEN1	FEOHIO_RESID_AGG	41.4
DLTAPLNT13.8 KV GEN1	PENPOWER_RESID_AGG	5.9
DLTAPLNT13.8 KV GEN1	PEPCO DC	1.2
DLTAPLNT13.8 KV GEN1	PEPCO MD	1.9
DLTAPLNT13.8 KV GEN1	SMECO_RESID_AGG	0.7
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	11.5
DLTAPLNT13.8 KV GEN2	CPP	0.8
DLTAPLNT13.8 KV GEN2	DEK	0.6
DLTAPLNT13.8 KV GEN2	DEOK	3
DLTAPLNT13.8 KV GEN2	DEOK_RESID_AGG	27.8
DLTAPLNT13.8 KV GEN2	DUQ_RESID_AGG	14.8
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	42.1
DLTAPLNT13.8 KV GEN2	PENPOWER_RESID_AGG	5
DLTAPLNT13.8 KV GEN2	PEPCO DC	1.5
DLTAPLNT13.8 KV GEN2	PEPCO MD	2
DLTAPLNT13.8 KV GEN2	SMECO_RESID_AGG	0.8
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	11.4
DLTAPLNT13.8 KV GEN3	CPP	0.8
DLTAPLNT13.8 KV GEN3	DEK	0.6
DLTAPLNT13.8 KV GEN3	DEOK	3
DLTAPLNT13.8 KV GEN3	DEOK_RESID_AGG	27.4
DLTAPLNT13.8 KV GEN3	DUQ_RESID_AGG	14.9
DLTAPLNT13.8 KV GEN3	EKPC_RESID_AGG	4.1
DLTAPLNT13.8 KV GEN3	EKPC-DEOK LOAD	0.1

Source	Sink	Infeasible MW Quantity
DLTAPLNT13.8 KV GEN3	FEOHIO_RESID_AGG	41.2
DLTAPLNT13.8 KV GEN3	PENPOWER_RESID_AGG	4.8
DLTAPLNT13.8 KV GEN3	PEPCO DC	1.5
DLTAPLNT13.8 KV GEN3	PEPCO MD	2
DLTAPLNT13.8 KV GEN3	SMECO_RESID_AGG	0.8
DLTAPLNT13.8 KV GEN3	WILLIAMSTOWN	0.1
DLTAPLNT18 KV GEN4	AMP-ATSI OH	1.8
DLTAPLNT18 KV GEN4	AMP-ATSI PA	0.1
DLTAPLNT18 KV GEN4	BGE_RESID_AGG	13.4
DLTAPLNT18 KV GEN4	CPP	1.2
DLTAPLNT18 KV GEN4	DEK	1
DLTAPLNT18 KV GEN4	DEOK	4.3
DLTAPLNT18 KV GEN4	DEOK_RESID_AGG	39.7
DLTAPLNT18 KV GEN4	DUQ_RESID_AGG	20.5
DLTAPLNT18 KV GEN4	EKPC_RESID_AGG	6.2
DLTAPLNT18 KV GEN4	EKPC-DEOK LOAD	0.1
DLTAPLNT18 KV GEN4	FEOHIO_RESID_AGG	56.3
DLTAPLNT18 KV GEN4	PENPOWER_RESID_AGG	5
DLTAPLNT18 KV GEN4	PEPCO DC	2.4
DLTAPLNT18 KV GEN4	PEPCO MD	3.4
DLTAPLNT18 KV GEN4	SMECO_RESID_AGG	1.2
DLTAPLNT18 KV GEN4	WILLIAMSTOWN	0.1
DLTAPLNT18 KV ST7	BGE_RESID_AGG	181.4
DRYBREAD34.5 KV DRYBRDSP	DOM_RESID_AGG	67
EBEND 20 KV EB2	DAY_RESID_AGG	35.7
EBENSBUR13 KV NUG GE	PENELEC_RESID_AGG	17.9
EDGEMOOR12 KV G10	DEMEC	0.1
EDGEMOOR12 KV G10	DPL_ODEC	0.5
EDGEMOOR13 KV HAYRD1	DEMEC	0.8
EDGEMOOR13 KV HAYRD1	DPL_ODEC	4.7
EDGEMOOR13 KV HAYRD2	DEMEC	0.8
EDGEMOOR13 KV HAYRD2	DPL_ODEC	4.7
EDGEMOOR13 KV HAYRD3	DEMEC	0.8
EDGEMOOR13 KV HAYRD3	DPL_ODEC	4.7
EDGEMOOR13 KV HAYRD4	DEMEC	1.1
EDGEMOOR13 KV HAYRD4	DPL_ODEC	6.4
EDGEMOOR13 KV HAYRD5	AMP-ATSI OH	1.4
EDGEMOOR13 KV HAYRD5	AMP-ATSI PA	0.1
EDGEMOOR13 KV HAYRD5	BGE_RESID_AGG	11.1
EDGEMOOR13 KV HAYRD5	CPP	1

Source	Sink	Infeasible MW Quantity
EDGEMOOR13 KV HAYRD5	DEK	0.7
EDGEMOOR13 KV HAYRD5	DEOK	3.3
EDGEMOOR13 KV HAYRD5	DEOK_RESID_AGG	30.3
EDGEMOOR13 KV HAYRD5	EKPC_RESID_AGG	5.1
EDGEMOOR13 KV HAYRD5	EKPC-DEOK LOAD	0.1
EDGEMOOR13 KV HAYRD5	FEOHIO_RESID_AGG	43
EDGEMOOR13 KV HAYRD5	PENNPPOWER_RESID_AGG	4.2
EDGEMOOR13 KV HAYRD5	PEPCO DC	1.8
EDGEMOOR13 KV HAYRD5	PEPCO MD	2.5
EDGEMOOR13 KV HAYRD5	SMECO_RESID_AGG	0.9
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	11.1
EDGEMOOR13 KV HAYRD6	CPP	1
EDGEMOOR13 KV HAYRD6	DEK	0.7
EDGEMOOR13 KV HAYRD6	DEOK	3.3
EDGEMOOR13 KV HAYRD6	DEOK_RESID_AGG	29.3
EDGEMOOR13 KV HAYRD6	EKPC_RESID_AGG	5.1
EDGEMOOR13 KV HAYRD6	EKPC-DEOK LOAD	0.1
EDGEMOOR13 KV HAYRD6	FEOHIO_RESID_AGG	42.4
EDGEMOOR13 KV HAYRD6	PENNPPOWER_RESID_AGG	4
EDGEMOOR13 KV HAYRD6	PEPCO DC	1.8
EDGEMOOR13 KV HAYRD6	PEPCO MD	2.5
EDGEMOOR13 KV HAYRD6	SMECO_RESID_AGG	0.9
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	11.1
EDGEMOOR13 KV HAYRD7	CPP	1
EDGEMOOR13 KV HAYRD7	DEK	0.7
EDGEMOOR13 KV HAYRD7	DEOK	3.3
EDGEMOOR13 KV HAYRD7	DEOK_RESID_AGG	29.3
EDGEMOOR13 KV HAYRD7	EKPC_RESID_AGG	5.1
EDGEMOOR13 KV HAYRD7	EKPC-DEOK LOAD	0.1
EDGEMOOR13 KV HAYRD7	FEOHIO_RESID_AGG	42.5
EDGEMOOR13 KV HAYRD7	PENNPPOWER_RESID_AGG	4.2
EDGEMOOR13 KV HAYRD7	PEPCO DC	1.8
EDGEMOOR13 KV HAYRD7	PEPCO MD	2.5
EDGEMOOR13 KV HAYRD7	SMECO_RESID_AGG	0.9

Source	Sink	Infeasible MW Quantity
EDGEMOOR13 KV HAYRD7	WILLIAMSTOWN	0.1
EDGEMOOR13 KV UNIT03	DEMEC	0.6
EDGEMOOR13 KV UNIT03	DPL_ODEC	3.2
EDGEMOOR18 KV HAYRD8	AMP-ATSI OH	2.2
EDGEMOOR18 KV HAYRD8	AMP-ATSI PA	0.1
EDGEMOOR18 KV HAYRD8	BGE_RESID_AGG	13.3
EDGEMOOR18 KV HAYRD8	CPP	1.5
EDGEMOOR18 KV HAYRD8	DEK	1.1
EDGEMOOR18 KV HAYRD8	DEOK	4.8
EDGEMOOR18 KV HAYRD8	DEOK_RESID_AGG	42.7
EDGEMOOR18 KV HAYRD8	EKPC_RESID_AGG	7.6
EDGEMOOR18 KV HAYRD8	EKPC-DEOK LOAD	0.1
EDGEMOOR18 KV HAYRD8	FEOHIO_RESID_AGG	58.2
EDGEMOOR18 KV HAYRD8	PENPOWER_RESID_AGG	4.6
EDGEMOOR18 KV HAYRD8	PEPCO DC	2.9
EDGEMOOR18 KV HAYRD8	PEPCO MD	4.2
EDGEMOOR18 KV HAYRD8	SMECO_RESID_AGG	1.4
EDGEMOOR18 KV HAYRD8	WILLIAMSTOWN	0.1
EDGEMOOR19 KV UNIT04	DEMEC	1.1
EDGEMOOR19 KV UNIT04	DPL_ODEC	6.5
EDGEMOOR23 KV UNIT05	DEMEC	2.7
EDGEMOOR23 KV UNIT05	DPL_ODEC	15.8
ELIZRIV 13.8 KV GT1	DOM_RESID_AGG	1.9
ELIZRIV 13.8 KV GT2	DOM_RESID_AGG	1.9
ELIZRIV 13.8 KV GT3	DOM_RESID_AGG	1.9
ELKHYDRO4 KV ELK	AEPAPCO_RESID_AGG	1.1
ELKHYDRO4 KV ELK	AEPIM_RESID_AGG	0.1
ELKHYDRO4 KV ELK	AEPKY_RESID_AGG	0.1
ELKHYDRO4 KV ELK	AEPOHIO W.O. MON POWER	6.2
ELKHYDRO4 KV ELK	AK STEEL	0.1
ELKHYDRO4 KV ELK	BLUE RIDGE	0.4
ELKHYDRO4 KV ELK	MERIDIAN EWHITLEY	0.1
EMUNI 12 KV G1	DPL_ODEC	3.7
EPIKE 22 KV IUP	PENELEC_RESID_AGG	2
EVERTSUB34.5 KV ARMENIA	APS_RESID_AGG	1.5
EVERTSUB34.5 KV ARMENIA	DPL_ODEC	1.6
EWATERVT138 KV EWATRVS	AEPIM_RESID_AGG	1.5
FAIRVWEC21 KV S1	JCPL_RESID_AGG	0.1
FAIRVWEC21 KV S1	PENELEC_RESID_AGG	84.7
FLATLICK18 KV 1	AEPOHIO W.O. MON POWER	12.2

Source	Sink	Infeasible MW Quantity
FLATLICK18 KV 1	BLUE RIDGE	0.6
FLATLICK18 KV 2	AEPOHIO W.O. MON POWER	11.9
FLATLICK18 KV 2	BLUE RIDGE	0.6
FLATLICK18 KV 3	AEPOHIO W.O. MON POWER	12.1
FLATLICK18 KV 3	BLUE RIDGE	0.4
FLATLICK18 KV 4	AEPOHIO W.O. MON POWER	10.6
FLATLICK18 KV 4	BLUE RIDGE	0.4
FLATLICK18 KV 5	AEPOHIO W.O. MON POWER	10.7
FLATLICK18 KV 5	BLUE RIDGE	0.4
FOOTHILL18 KV UNIT 4	DEK	0.9
FOOTHILL18 KV UNIT 4	DEOK	3.8
FOOTHILL18 KV UNIT 4	DEOK_RESID_AGG	33.6
FOOTHILL18 KV UNIT 4	EKPC-DEOK LOAD	0.1
FOOTHILL18 KV UNIT 4	FEOHIO_RESID_AGG	0.1
FOOTHILL18 KV UNIT 4	WILLIAMSTOWN	0.1
FOOTHILL18 KV UNIT 5	DEK	0.9
FOOTHILL18 KV UNIT 5	DEOK	3.7
FOOTHILL18 KV UNIT 5	DEOK_RESID_AGG	33.6
FOOTHILL18 KV UNIT 5	EKPC-DEOK LOAD	0.1
FOOTHILL18 KV UNIT 5	FEOHIO_RESID_AGG	0.1
FOOTHILL18 KV UNIT 5	WILLIAMSTOWN	0.1
FOWLER 34.5 KV FWL2-1WF	AEPOHIO W.O. MON POWER	3.5
FOWLER 34.5 KV FWL2-2WF	AEPOHIO W.O. MON POWER	3.5
FOWLER 34.5 KV FWL2-3WF	AEPOHIO W.O. MON POWER	3.5
FOWLER 34.5 KV FWL2-4WF	AEPOHIO W.O. MON POWER	3.3
FOWLER 34.5 KV FWLR1AWF	AEPAPCO_RESID_AGG	2.9
FOWLER 34.5 KV FWLR1AWF	AEPKY_RESID_AGG	0.4
FOWLER 34.5 KV FWLR1AWF	AEPOHIO W.O. MON POWER	10.4
FOWLER 34.5 KV FWLR1AWF	BLUE RIDGE	0.5
FOWLER 34.5 KV FWLR1BWF	AEPAPCO_RESID_AGG	2.8
FOWLER 34.5 KV FWLR1BWF	AEPKY_RESID_AGG	0.4
FOWLER 34.5 KV FWLR1BWF	AEPOHIO W.O. MON POWER	10
FOWLER 34.5 KV FWLR1BWF	BLUE RIDGE	0.5
FOWLER 34.5 KV FWLR3WF	AEPAPCO_RESID_AGG	8.2
FRONTROY21 KV WARCOST1	DOM_RESID_AGG	77
GASTON4 14 KV G1	DOM_RESID_AGG	54.9
GASTON4 14 KV G2	DOM_RESID_AGG	54.9
GASTON4 14 KV G3	DOM_RESID_AGG	54.9
GASTON4 14 KV G4	DOM_RESID_AGG	54.9
GAVINAEP26 KV GV1	AEPOHIO W.O. MON POWER	63.9



Source	Sink	Infeasible MW Quantity
GAVINAEP26 KV GV1	BLUE RIDGE	0.7
GAVINAEP26 KV GV2	AEPOHIO W.O. MON POWER	3.2
GAVINAEP26 KV GV2	BLUE RIDGE	3.3
GRASSFID35 KV GRASFDSP	DOM_RESID_AGG	1.4
GRAYFR_113 KV 1 GEN	AMP-ATSI OH	1.9
GRAYFR_113 KV 1 GEN	AMP-ATSI PA	0.1
GRAYFR_113 KV 1 GEN	BGE_RESID_AGG	13.1
GRAYFR_113 KV 1 GEN	CPP	1.3
GRAYFR_113 KV 1 GEN	DEK	0.9
GRAYFR_113 KV 1 GEN	DEOK	4.2
GRAYFR_113 KV 1 GEN	DEOK_RESID_AGG	39
GRAYFR_113 KV 1 GEN	EKPC_RESID_AGG	7
GRAYFR_113 KV 1 GEN	EKPC-DEOK LOAD	0.1
GRAYFR_113 KV 1 GEN	FEOHIO_RESID_AGG	52.8
GRAYFR_113 KV 1 GEN	PENPOWER_RESID_AGG	4.8
GRAYFR_113 KV 1 GEN	PEPCO DC	3.3
GRAYFR_113 KV 1 GEN	PEPCO MD	4.6
GRAYFR_113 KV 1 GEN	SMECO_RESID_AGG	1.6
GRAYFR_113 KV 1 GEN	WILLIAMSTOWN	0.1
GREENECC23 KV GREENECC	AEPAPCO_RESID_AGG	6
GREENECC23 KV GREENECC	AEPKY_RESID_AGG	0.9
GREENECC23 KV GREENECC	AEPOHIO W.O. MON POWER	11.4
GREENECC23 KV GREENECC	BLUE RIDGE	0.5
GREENECC23 KV GREENECC	BUCK-CIN	0.1
GREENECC23 KV GREENECC	BUCKEYE - AEPOH	0.3
GREENECC23 KV GREENECC	DAY_RESID_AGG	33.8
GREENECC23 KV GREENECC	DEOK	6.6
GREENECC23 KV GREENECC	DEOK_RESID_AGG	58.3
GREENECC23 KV GREENECC	DUQ_RESID_AGG	36.1
GREENECC23 KV GREENECC	WILLIAMSTOWN	0.1
GRNSVIL 20 KV GREENSST	DOM_RESID_AGG	406.3
HALLBRAN13.8 KV G1	DOM_RESID_AGG	34.1
HANNIBAL24 KV LONGRDCC	AEPAPCO_RESID_AGG	7.4
HANNIBAL24 KV LONGRDCC	BLUE RIDGE	0.8
HANNIBAL24 KV LONGRDCC	BUCK-CIN	0.1
HANNIBAL24 KV LONGRDCC	DAY_RESID_AGG	48.5
HANNIBAL24 KV LONGRDCC	DEOK	7.4
HANNIBAL24 KV LONGRDCC	DEOK_RESID_AGG	67
HANNIBAL24 KV LONGRDCC	WILLIAMSTOWN	0.1
HCF 13.8 KV GT1	DOM_RESID_AGG	0.4

Source	Sink	Infeasible MW Quantity
HIBBMILL26 KV CTG-1	AEPAPCO_RESID_AGG	8.9
HIBBMILL26 KV CTG-1	AEPKY_RESID_AGG	0.9
HIBBMILL26 KV CTG-1	BLUE RIDGE	0.9
HIBBMILL26 KV CTG-1	DAY_RESID_AGG	38.9
HIBBMILL26 KV CTG-1	DEOK	7
HIBBMILL26 KV CTG-1	DEOK_RESID_AGG	62.2
HIBBMILL26 KV CTG-1	WILLIAMSTOWN	0.1
HIBBMILL26 KV CTG-2	AEPAPCO_RESID_AGG	8.9
HIBBMILL26 KV CTG-2	AEPKY_RESID_AGG	0.9
HIBBMILL26 KV CTG-2	BLUE RIDGE	0.8
HIBBMILL26 KV CTG-2	DAY_RESID_AGG	38.9
HIBBMILL26 KV CTG-2	DEOK	7
HIBBMILL26 KV CTG-2	DEOK_RESID_AGG	62.1
HIBBMILL26 KV CTG-2	WILLIAMSTOWN	0.1
HICRUNEC22 KV 1S STG	AMP-ATSI OH	16
HICRUNEC22 KV 1S STG	CPP	4.2
HICRUNEC22 KV 1S STG	FEOHIO_RESID_AGG	383.2
HOMERCIT20 KV UNIT 1	PENELEC_RESID_AGG	117.2
HOMERCIT20 KV UNIT 2	PENELEC_RESID_AGG	6
HOMERCIT24 KV UNIT 3	PENELEC_RESID_AGG	1.7
KAMMER2 26 KV ML1	AEPAPCO_RESID_AGG	35.2
KAMMER2 26 KV ML1	AEPOHIO W.O. MON POWER	50.3
KAMMER2 26 KV ML1	BLUE RIDGE	5.3
KAMMER2 26 KV ML2	AEPAPCO_RESID_AGG	51.3
KAMMER2 26 KV ML2	BLUE RIDGE	5.7
KAMMER2 26 KV ML2	BUCK-FE	1
KERRDAM 14 KV G1	DOM_RESID_AGG	1.9
KERRDAM 14 KV G2	DOM_RESID_AGG	5.2
KERRDAM 14 KV G3	DOM_RESID_AGG	5.2
KERRDAM 14 KV G4	DOM_RESID_AGG	5.2
KERRDAM 14 KV G5	DOM_RESID_AGG	5.2
KERRDAM 14 KV G6	DOM_RESID_AGG	5.2
KERRDAM 14 KV G7	DOM_RESID_AGG	5.2
KEYSTNE 13 KV _UN1_15	DAY_RESID_AGG	40.3
KEYSTNE 13 KV _UN2_15	DAY_RESID_AGG	40.1
KEYSTNE 13 KV _UN3_15	DAY_RESID_AGG	39.7
KEYSTNE 13 KV _UN4_15	DAY_RESID_AGG	39.5
KEYSTONE20 KV UNIT 1	AECO_RESID_AGG	0.1
KEYSTONE20 KV UNIT 1	DPL_ODEC	1
KEYSTONE20 KV UNIT 1	JCPL_RESID_AGG	0.8

Source	Sink	Infeasible MW Quantity
KEYSTONE20 KV UNIT 1	PSEG_RESID_AGG	1.8
KEYSTONE20 KV UNIT 2	AECO_RESID_AGG	0.1
KEYSTONE20 KV UNIT 2	DPL_ODEC	1.1
KEYSTONE20 KV UNIT 2	JCPL_RESID_AGG	0.7
KEYSTONE20 KV UNIT 2	PSEG_RESID_AGG	1.8
KEYSTONE20 KV UNIT 3	JCPL_RESID_AGG	0.5
KEYSTONE20 KV UNIT 3	PSEG_RESID_AGG	0.1
KLINE 138 KV TWINB1-6	AEPIM_RESID_AGG	1.3
KYGERCRE15.5 KV KY1	BUCKEYE - AEPOH	30.1
LACKAENG24 KV CTG1	BRUNSWICK	0.2
LACKAENG24 KV CTG1	CITIZENS	0.5
LACKAENG24 KV CTG1	EPHRATA	0.4
LACKAENG24 KV CTG1	HILLSDALE_PARKRIDGE	0.1
LACKAENG24 KV CTG1	JCPL_RESID_AGG	19.5
LACKAENG24 KV CTG1	PERKASIE	0.1
LACKAENG24 KV CTG1	PPL_RESID_AGG	85.9
LACKAENG24 KV CTG1	PSEG	2.7
LACKAENG24 KV CTG1	PSEG_RESID_AGG	40.7
LAWRENC218 KV S1	AEPOHIO W.O. MON POWER	51.1
LAWRENC218 KV S1	AMP-OHIO	0.6
LAWRENC218 KV S2	AEPOHIO W.O. MON POWER	51.1
LAWRENC218 KV S2	AMP-OHIO	0.6
LINWDPE 18 KV STM	AMP-ATSI OH	7.5
LINWDPE 18 KV STM	AMP-ATSI PA	0.4
LINWDPE 18 KV STM	BGE_RESID_AGG	43.3
LINWDPE 18 KV STM	CPP	5
LINWDPE 18 KV STM	DEK	3.5
LINWDPE 18 KV STM	DEOK	16.7
LINWDPE 18 KV STM	DEOK_RESID_AGG	152.8
LINWDPE 18 KV STM	DUQ_RESID_AGG	76
LINWDPE 18 KV STM	EKPC_RESID_AGG	28.7
LINWDPE 18 KV STM	EKPC-DEOK LOAD	0.3
LINWDPE 18 KV STM	FEOHIO_RESID_AGG	196.2
LINWDPE 18 KV STM	PENPOWER_RESID_AGG	14.8
LINWDPE 18 KV STM	PEPCO DC	19.6
LINWDPE 18 KV STM	PEPCO MD	28.5
LINWDPE 18 KV STM	SMECO_RESID_AGG	7.3
LINWDPE 18 KV STM	WILLIAMSTOWN	0.3
LOUISACT18 KV G5	DOM_RESID_AGG	5.2
LOWMOOR 13 KV GTS	DOM_RESID_AGG	0.8

Source	Sink	Infeasible MW Quantity
LRDTWNEC19 KV ST10	AMP-ATSI OH	20
LRDTWNEC19 KV ST10	CPP	3
LRDTWNEC19 KV ST10	FEOHIO_RESID_AGG	476.9
MARSHRUN18 KV GT1	DOM_RESID_AGG	10.6
MARSHRUN18 KV GT2	DOM_RESID_AGG	10.6
MARSHRUN18 KV GT3	DOM_RESID_AGG	10.6
MIAMIFOR22 KV G7	DAY_RESID_AGG	16.7
MIAMIFOR22 KV G8	DAY_RESID_AGG	5.3
MIDLOTH 35 KV DRYBRIBS	DOM_RESID_AGG	0.6
MISO	AEC - AP	3.3
MISO	AEPAPCO_RESID_AGG	111.2
MISO	AEPIM_RESID_AGG	116.3
MISO	AEPKY_RESID_AGG	20.2
MISO	AEPOHIO W.O. MON POWER	184.8
MISO	AK STEEL	0.6
MISO	AMP-OHIO	18.1
MISO	APS_RESID_AGG	415
MISO	BLUE RIDGE	5.9
MISO	BUCK-CIN	0.2
MISO	BUCKEYE - AEPIM	0.1
MISO	BUCKEYE - AEPOH	3.7
MISO	BUCKEYE - DPL	0.9
MISO	BUCK-FE	0.6
MISO	DAY_RESID_AGG	84.3
MISO	HREA - AP	0.8
MISO	LIDA - AP	0.4
MISO	MERIDIAN EWHITLEY	0.7
MISO	MON POWER	15.3
MISO	MONT ALTO - AP	0.1
MISO	NEWMARTINSVILLE-AP	0.3
MISO	PHILIPPI - AP	0.3
MISO	TARENTUM - AP	0.2
MONTOUR 24 KV UNIT01	CITIZENS	2.4
MONTOUR 24 KV UNIT01	EPHRATA	1.8
MONTOUR 24 KV UNIT01	PERKASIE	0.4
MONTOUR 24 KV UNIT01	PPL_RESID_AGG	370.2
MONTOUR 24 KV UNIT02	CITIZENS	2.4
MONTOUR 24 KV UNIT02	EPHRATA	1.8
MONTOUR 24 KV UNIT02	PERKASIE	0.4
MONTOUR 24 KV UNIT02	PPL_RESID_AGG	369.9

Source	Sink	Infeasible MW Quantity
MOTTVILL2 KV MO1	AEPAPCO_RESID_AGG	0.3
MOTTVILL2 KV MO1	AEPOHIO W.O. MON POWER	4
MOTTVILL2 KV MO1	AK STEEL	0.1
MOTTVILL2 KV MO1	BLUE RIDGE	0.3
MOTTVILL2 KV MO2	AEPAPCO_RESID_AGG	0.3
MOTTVILL2 KV MO2	AEPOHIO W.O. MON POWER	4
MOTTVILL2 KV MO2	AK STEEL	0.1
MOTTVILL2 KV MO2	BLUE RIDGE	0.3
MOTTVILL2 KV MO3	AEPAPCO_RESID_AGG	0.3
MOTTVILL2 KV MO3	AEPOHIO W.O. MON POWER	4
MOTTVILL2 KV MO3	AK STEEL	0.1
MOTTVILL2 KV MO3	BLUE RIDGE	0.3
MOTTVILL2 KV MO4	AEPAPCO_RESID_AGG	0.2
MOTTVILL2 KV MO4	AEPOHIO W.O. MON POWER	4
MOTTVILL2 KV MO4	AK STEEL	0.1
MOTTVILL2 KV MO4	BLUE RIDGE	0.3
MOUNTAIN26 KV MT1	AEPOHIO W.O. MON POWER	129.2
MOUNTAIN26 KV MT1	BLUE RIDGE	5.8
MTNTOP 34.5 KV MHOOPWF2	APS_RESID_AGG	4.4
MTNTOP 34.5 KV MHOOPWF2	DPL_ODEC	5.1
MTSTORM422 KV G1	DOM_RESID_AGG	488.1
MTSTORM422 KV G2	DOM_RESID_AGG	477.6
MTSTORM422 KV G3	DOM_RESID_AGG	449.3
MTSTORM435 KV GT1	DOM_RESID_AGG	10.5
N ILLINOIS HUB	COOK	204.4
NANNA4 22 KV G1	DOM_RESID_AGG	3.9
NANNA4 22 KV G2	DOM_RESID_AGG	2.2
NORTHST 12 KV G11	DPL_ODEC	0.4
NORTHST 69 KV GF	DPL_ODEC	0.1
NYIS	AMP-OHIO	3.4
NYIS	BUCKEYE - AEPIM	0.6
NYIS	BUCKEYE - AEPOH	39.2
NYIS	BUCKEYE - DPL	9.7
NYIS	METED_RESID_AGG	2.3
NYIS	PENELEC_RESID_AGG	14.7
OLIVE 12 KV OLIVESP	AEPIM_RESID_AGG	0.4
PATRIOT123 KV PAT10	CITIZENS	0.4
PATRIOT123 KV PAT10	EPHRATA	0.1
PATRIOT123 KV PAT10	PERKASIE	0.1
PATRIOT123 KV PAT10	PPL_RESID_AGG	32.6

Source	Sink	Infeasible MW Quantity
PAULDNG334.5 KV PAUL3WF	AEPAPCO_RESID_AGG	2
PAULDNG334.5 KV PAUL3WF	AEPKY_RESID_AGG	0.3
PAULDNG334.5 KV PAUL3WF	AEPOHIO W.O. MON POWER	9
PEACHBOT22 KV UNIT02	DEMEC	0.5
PEACHBOT22 KV UNIT02	DPL_ODEC	3
PEACHBOT22 KV UNIT03	DEMEC	0.5
PEACHBOT22 KV UNIT03	DPL_ODEC	3.1
PERRY_FE22 KV PR10	AMP-ATSI OH	40.6
PERRY_FE22 KV PR10	FEOHIO_RESID_AGG	930.7
PERRY_FE22 KV PR10	PENPOWER_RESID_AGG	29.8
PHILPOTT138 KV UNITS1-3	DOM_RESID_AGG	3.9
PLYWOOD 13.8 KV PLYWODBI	DOM_RESID_AGG	21.2
PRINTZ 18 KV STG	AMP-ATSI OH	6.1
PRINTZ 18 KV STG	AMP-ATSI PA	0.3
PRINTZ 18 KV STG	BGE_RESID_AGG	35.8
PRINTZ 18 KV STG	CPP	4.1
PRINTZ 18 KV STG	DEK	3.2
PRINTZ 18 KV STG	DEOK	13.4
PRINTZ 18 KV STG	DEOK_RESID_AGG	123.7
PRINTZ 18 KV STG	EKPC_RESID_AGG	23.3
PRINTZ 18 KV STG	EKPC-DEOK LOAD	0.3
PRINTZ 18 KV STG	FEOHIO_RESID_AGG	159
PRINTZ 18 KV STG	PENPOWER_RESID_AGG	11.8
PRINTZ 18 KV STG	PEPCO DC	16.3
PRINTZ 18 KV STG	PEPCO MD	23.6
PRINTZ 18 KV STG	SMECO_RESID_AGG	5.9
PRINTZ 18 KV STG	WILLIAMSTOWN	0.2
PSEGGLOB18 KV 6	DEK	1
PSEGGLOB18 KV 6	DEOK	4.3
PSEGGLOB18 KV 6	DEOK_RESID_AGG	38.3
PSEGGLOB18 KV 6	EKPC-DEOK LOAD	0.1
PSEGGLOB18 KV 6	FEOHIO_RESID_AGG	0.3
PSEGGLOB18 KV 6	WILLIAMSTOWN	0.1
PSEGGLOB18 KV 7	DEK	1
PSEGGLOB18 KV 7	DEOK	4.2
PSEGGLOB18 KV 7	DEOK_RESID_AGG	38.3
PSEGGLOB18 KV 7	EKPC-DEOK LOAD	0.1
PSEGGLOB18 KV 7	FEOHIO_RESID_AGG	0.4
PSEGGLOB18 KV 7	WILLIAMSTOWN	0.1
PSEGGLOB18 KV 8	DEK	1

Source	Sink	Infeasible MW Quantity
PSEGGLOB18 KV 8	DEOK	4.2
PSEGGLOB18 KV 8	DEOK_RESID_AGG	38.2
PSEGGLOB18 KV 8	EKPC-DEOK LOAD	0.1
PSEGGLOB18 KV 8	FEOHIO_RESID_AGG	0.4
PSEGGLOB18 KV 8	WILLIAMSTOWN	0.1
PSEGGLOB22 KV 5	DEK	2.1
PSEGGLOB22 KV 5	DEOK	8.9
PSEGGLOB22 KV 5	DEOK_RESID_AGG	81.9
PSEGGLOB22 KV 5	EKPC-DEOK LOAD	0.2
PSEGGLOB22 KV 5	FEOHIO_RESID_AGG	0.4
PSEGGLOB22 KV 5	WILLIAMSTOWN	0.1
RAYSTOWN46 KV RAYSUN	PENELEC_RESID_AGG	1.8
REMNTNCT18 KV GT1	DOM_RESID_AGG	0.5
REMNTNCT18 KV GT2	DOM_RESID_AGG	0.5
REMNTNCT18 KV GT3	DOM_RESID_AGG	0.5
REMNTNCT18 KV GT4	DOM_RESID_AGG	0.5
ROCKPOR226 KV RP1	AEPAPCO_RESID_AGG	0.5
ROCKPOR226 KV RP1	AEPOHIO W.O. MON POWER	291.2
ROCKPOR226 KV RP1	AMP-OHIO	2.4
ROCKPOR226 KV RP1	BUCK-CIN	0.3
ROCKPOR226 KV RP1	BUCKEYE - AEPOH	9
ROCKPOR226 KV RP1	BUCKEYE - DPL	2.1
ROCKPOR226 KV RP1	BUCK-FE	1.8
ROCKPOR226 KV RP2	AEPAPCO_RESID_AGG	0.8
ROCKPOR226 KV RP2	AEPOHIO W.O. MON POWER	295.2
ROCKPOR226 KV RP2	AMP-OHIO	2.4
ROCKPOR226 KV RP2	BUCK-CIN	0.3
ROCKPOR226 KV RP2	BUCKEYE - AEPOH	8.8
ROCKPOR226 KV RP2	BUCKEYE - DPL	2
ROCKPOR226 KV RP2	BUCK-FE	1.8
ROCKSPRI18 KV CT3	DEMEC	0.1
ROCKSPRI18 KV CT3	DPL_ODEC	0.5
ROCKSPRI18 KV CT4	DEMEC	0.1
ROCKSPRI18 KV CT4	DPL_ODEC	0.5
ROCKSPRI24 KV WCATSTG	APS_RESID_AGG	51.7
ROCKSPRI24 KV WCATSTG	DPL_ODEC	20.6
RORAPIDS14 KV G1	DOM_RESID_AGG	9.9
RORAPIDS14 KV G2	DOM_RESID_AGG	9.9
RORAPIDS14 KV G3	DOM_RESID_AGG	9.9
RORAPIDS14 KV G4	DOM_RESID_AGG	9.9

Source	Sink	Infeasible MW Quantity
ROSEMARY13.8 KV NUG	DOM_RESID_AGG	163.6
SALEM 25 KV SALEM1	DEMEC	0.4
SALEM 25 KV SALEM1	DPL_ODEC	2.6
SALEM 25 KV SALEM2	DEMEC	0.4
SALEM 25 KV SALEM2	DPL_ODEC	2.6
SAMMISFE19 KV SH60	AMP-ATSI OH	14.3
SAMMISFE19 KV SH60	CPP	4.2
SAMMISFE19 KV SH60	FEOHIO_RESID_AGG	342.4
SAMMISFE19 KV SH70	AMP-ATSI OH	14.3
SAMMISFE19 KV SH70	CPP	4.2
SAMMISFE19 KV SH70	FEOHIO_RESID_AGG	336.5
SAMMISFE23.4 KV SH50	AMP-ATSI OH	6.9
SAMMISFE23.4 KV SH50	CPP	2.1
SAMMISFE23.4 KV SH50	FEOHIO_RESID_AGG	151.2
SBEND 18 KV CT1	MON POWER	0.1
SBEND 18 KV CT2	MON POWER	0.1
SBEND 18 KV CT3	MON POWER	0.1
SBEND 18 KV CT4	MON POWER	0.1
SEWARD 22 KV UNIT1	PENELEC_RESID_AGG	230
SHAMPTON115 KV G1	DOM_RESID_AGG	15
SJEC 18 KV STG	AEPAPCO_RESID_AGG	145.6
SJEC 18 KV STG	AEPKY_RESID_AGG	26.1
SJEC 18 KV STG	AEPOHIO W.O. MON POWER	256.8
SJEC 18 KV STG	AK STEEL	0.7
SJEC 18 KV STG	AMP-OHIO	3.1
SJEC 18 KV STG	BLUE RIDGE	8.2
SJEC 18 KV STG	BUCK-CIN	0.3
SJEC 18 KV STG	BUCKEYE - AEPOH	6.1
SJEC 18 KV STG	BUCKEYE - DPL	1.5
SJEC 18 KV STG	BUCK-FE	1.1
SJEC 18 KV STG	MERIDIAN EWHITLEY	0.6
SOUTH	DOM_RESID_AGG	39.4
SPRINGDA18 KV ST5	NEWMARTINSVILLE-AP	0.1
STEMPLE 18 KV STG	AEPAPCO_RESID_AGG	57.2
STEMPLE 18 KV STG	AEPKY_RESID_AGG	3.6
STEMPLE 18 KV STG	BLUE RIDGE	5.2
STEMPLE 18 KV STG	BUCK-FE	0.6
STGCOACH34.5 KV STGCHSP	DOM_RESID_AGG	29.2
SUFFOLK 35 KV PLSNTHSP	DOM_RESID_AGG	1.9
SURRY4 22 KV G1	DOM_RESID_AGG	29.3



Source	Sink	Infeasible MW Quantity
SURRY4 22 KV G2	DOM_RESID_AGG	88.2
SUSQUEHA24 KV UNIT01	BGE_RESID_AGG	43.5
SUSQUEHA24 KV UNIT01	EPHRATA	0.7
SUSQUEHA24 KV UNIT01	METED_RESID_AGG	2.8
SUSQUEHA24 KV UNIT01	PENELEC_RESID_AGG	67.6
SUSQUEHA24 KV UNIT01	PERKASIE	0.2
SUSQUEHA24 KV UNIT02	BGE_RESID_AGG	35
SUSQUEHA24 KV UNIT02	PENELEC_RESID_AGG	65.1
TANNERSC18 KV TC3	MIAMIFOR18 KV G6	76.2
TIDD_AEP24 KV CD1	AEPAPCO_RESID_AGG	53.1
TIDD_AEP24 KV CD1	AEPIM_RESID_AGG	2.9
TIDD_AEP24 KV CD1	AEPKY_RESID_AGG	4.2
TIDD_AEP24 KV CD1	BLUE RIDGE	4.4
TIDD_AEP24 KV CD1	BUCK-CIN	0.3
TIDD_AEP24 KV CD1	BUCK-FE	0.7
TIDD_AEP24 KV CD2	AEPAPCO_RESID_AGG	6.3
TIDD_AEP24 KV CD2	AEPIM_RESID_AGG	0.3
TIDD_AEP24 KV CD2	AEPKY_RESID_AGG	0.4
TIDD_AEP24 KV CD2	BLUE RIDGE	0.6
TIDD_AEP24 KV CD2	BUCK-CIN	12.4
TIDD_AEP24 KV CD2	BUCK-FE	39.2
TIDD_AEP26 KV CD3	AEPAPCO_RESID_AGG	6.6
TIDD_AEP26 KV CD3	AEPKY_RESID_AGG	0.5
TIDD_AEP26 KV CD3	BLUE RIDGE	0.6
TIDD_AEP26 KV CD3	BUCK-CIN	12.4
TIDD_AEP26 KV CD3	BUCK-FE	39.2
TIMBERRD34.5 KV TIMR2WF1	AEPOHIO W.O. MON POWER	16.7
TWELVEPO13 KV 1	DUQ_RESID_AGG	0.2
TWELVEPO13 KV 2	DUQ_RESID_AGG	0.2
TWELVEPO13 KV 3	DUQ_RESID_AGG	0.2
TWINBRAN138 KV TWINBRSP	AEPIM_RESID_AGG	0.4
WELCO 35 KV WATLNGSP	DOM_RESID_AGG	4.9
WESTDPL 12 KV G1	DEMEC	0.1
WESTDPL 12 KV G1	DPL_ODEC	0.6
WMORELND20 KV CT1	MON POWER	0.1
YORKTOW425 KV G3	DOM_RESID_AGG	0.2
ZELDA 18 KV UNIT 1	AMP-OHIO	0.1
ZELDA 18 KV UNIT 2	AEPOHIO W.O. MON POWER	0.1
ZELDA 18 KV UNIT 2	AMP-OHIO	0.1
ZELDA 18 KV UNIT 3	AEPOHIO W.O. MON POWER	0.1

Source	Sink	Infeasible MW Quantity
ZELDA 18 KV UNIT 3	AMP-OHIO	0.1