

PJM 2022/2023 Stage 1A Over Allocation Notice

This document is to inform PJM members that Stage 1A of the 2022/2023 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 2022/2023 Annual ARR Allocation and all FTR Auctions effective for the 2022/2023 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
15518 - 132 Garden Plain 138 kV I/o 0405 Quad Cities - Rock Creek 345 kV		3	M2M Flowgate	Transmission Outage
Argenta-Tompkins 345 kV I/o Argent - Battle Creek 345 kV		22	M2M Flowgate	Transmission Outage
Batesville-Hubble 138 I/o Tanners Crk-Miami Fort 345		80	M2M Flowgate	Network Load
BERWICK 69 KV BER-KOO_Z	L230.Harwood-Susquehanna.1	3	Internal PJM	Transmission Outage
BOONETWN230 KV BOO-SRE_I	500/230.Lauschtown.T3	10	Internal PJM	Transmission Outage
Cherry Valley Silver Lake 15616 345kV I/o Byron-Wayne 0626 345 kV		90	M2M Flowgate	Network Load
CONASTON500 KV CNS-PEA_Z		143	Internal PJM	Transmission Outage
FACEROCK115 KV 1_Z	L500.Conastone-PeachBottom.5012	17	Internal PJM	Transmission Outage
FACEROCK115 KV 2_Z	L500.Conastone-PeachBottom.5012	24	Internal PJM	Transmission Outage
FACEROCK115 KV FAC-FIV1_I	L500.Conastone-PeachBottom.5012	22	Internal PJM	Transmission Outage
FACEROCK115 KV FAC-FIV2_I	L500.Conastone-PeachBottom.5012	22	Internal PJM	Transmission Outage
FACEROCK69 KV FAC-MAN_Z	L500.Conastone-PeachBottom.5012	14	Internal PJM	Transmission Outage
FACEROCK69 KV FAROZBR_I	L500.Conastone-PeachBottom.5012	98	Internal PJM	Transmission Outage

Equipment Name	Contingency Description	Required MW Increase in Capability Limits	Type	Reason for Infeasibility
Grand Mound - Maquoketa 161 kV I/o Rock Creek - Salem 345 kV		2	M2M Flowgate	Network Load
HARWGATE115 KV 100J_Z	L500.Carson-Midlothian.563	53	Internal PJM	Transmission Outage
HEBRON 69 KV HEB-MAR_Z	L138.Loretto-Vienna.13780	8	Internal PJM	Transmission Outage
HOPECREE230 KV HOP-SIL_I	L500.NewFreedom-EastWindsor.5038	66	Internal PJM	Transmission Outage
JUNIATA 500 KV 1_I	L500.Conastone-PeachBottom.5012	494	Internal PJM	Transmission Outage
JUNIATA 500 KV 1_I		227	Internal PJM	Transmission Outage
Kokomo-Tipton 230 I/o Nucor-Cayuga 345		54	M2M Flowgate	Network Load
Labadie-GraySummit 2 345 kV I/o Labadie-GraySummit 1 345 kV		90	M2M Flowgate	Network Load
LAUSCHTO500 KV T3_I	L500.Conastone-PeachBottom.5012	2	Internal PJM	Transmission Outage
MANOR 69 KV MAN-SAF3_Z		17	Internal PJM	Transmission Outage
Map-Chryslr 13811 I/o Greentown-Delco 13810		6	M2M Flowgate	Transmission Outage
MapleST - Chrysler 138 kV I/o HighlandPark - New London 230 kV		21	M2M Flowgate	Network Load
MARDELA 69 KV MAR-VIE_Z	L138.Loretto-Vienna.13780	12	Internal PJM	Transmission Outage
Monroe-Lallendorf 345 kV I/o Lulu 345 kV Sub		539	M2M Flowgate	Network Load
Monroe-Lallendorf I/o Morocco-Allen Junction		542	M2M Flowgate	Network Load
Montgomery-Labadie 4 345 kV I/o Belleau-Montgomery 345 kV		88	M2M Flowgate	Network Load
N Lake Geneva Tap Burlington 138kV I/o University Mukwonago 138		13	M2M Flowgate	Network Load
Nelson 345/138 TR82 I/o Nelson 345/138 TR81		149	M2M Flowgate	Network Load
Norris City N-Crossvill 138kV I/o Newton-Xenia 345kV		4	M2M Flowgate	Transmission Outage
NSALISBU69 KV NSA-PEM_I	L138.Loretto-Vienna.13780	2	Internal PJM	Transmission Outage
Nucor-Whitestown 345 kV I/o Rockport-Jefferson 765 kV		41	M2M Flowgate	Transmission Outage
Paradise - BR Tap 161 kV I/o E.BowlingGreen - SummerShade 161 kV		14	M2M Flowgate	Network Load
Paradise - BR_Tap 161 kV I/o Gibson Unit 1		14	M2M Flowgate	Network Load
Paradise-Big River Tap I/o Wilson1		14	M2M Flowgate	Network Load
Paradise-BR Tap 161kV (flo) Phipps Bend-Volunteer 500kV		18	M2M Flowgate	Network Load
PLANE BRO230 KV PLA-TRE4_I	L230.Plymouth Meeting-Upper Merion.220-69	30	Internal PJM	Transmission Outage
Quad Cities - Cordova 0402 345kV I/o Quad Cities - Cordova 0403 345kV		159	M2M Flowgate	Network Load
QuadCities-RockCreek 345 kV I/o QuadCities-Sub91 345/161 kV Sub91 XF		8	M2M Flowgate	Network Load
ROXBURY 115 KV ROX-SHA_Z	L500.Conastone-PeachBottom.5012	23	Internal PJM	Transmission Outage
Sandburg xfmr 3 I/o Oak Grove - Sandburg 345 kV		112	M2M Flowgate	Network Load
TREDYFFR230 KV TRE-UPP4_I	L230.Plymouth Meeting-Upper Merion.220-69	13	Internal PJM	Transmission Outage
TurkeyRiver-Stoneman161 I/o Nelson-Electricct345B-15502		2	M2M Flowgate	Transmission Outage

Listed below are the aggregate MW quantities, by source and sinks, of infeasible ARR in Stage 1A of the 2022/2023 Annual ARR Allocation.

Source	Sink	Infeasible MW Quantity
100 SHAD34.5 KV GSG6WF	BATAVIA	0.1
100 SHAD34.5 KV GSG6WF	COMED_RESID_AGG	17.2
100 SHAD34.5 KV GSG6WF	GENEVA	0.1
100 SHAD34.5 KV GSG6WF	NAPERVILLE	0.2
100 SHAD34.5 KV GSG6WF	ST. CHARLES	0.1
107 DIXO34.5 KV SUBLETTE	BATAVIA	0.1
107 DIXO34.5 KV SUBLETTE	COMED_RESID_AGG	7.4
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	BATAVIA	0.1
139 MEND34.5 KV WBROOKWF	COMED_RESID_AGG	8.7
139 MEND34.5 KV WBROOKWF	GENEVA	0.1
139 MEND34.5 KV WBROOKWF	NAPERVILLE	0.1
139 MEND34.5 KV WBROOKWF	ST. CHARLES	0.1
4 QUAD C18 KV QC-1	BATAVIA	2.3
4 QUAD C18 KV QC-1	COMED_RESID_AGG	543.7
4 QUAD C18 KV QC-1	GENEVA	1.4
4 QUAD C18 KV QC-1	N ILLINOIS HUB	104.5
4 QUAD C18 KV QC-1	NAPERVILLE	9
4 QUAD C18 KV QC-1	ST. CHARLES	3.1
4 QUAD C18 KV QC-2	BATAVIA	2.3
4 QUAD C18 KV QC-2	COMED_RESID_AGG	543.4
4 QUAD C18 KV QC-2	GENEVA	1.4
4 QUAD C18 KV QC-2	N ILLINOIS HUB	243.7
4 QUAD C18 KV QC-2	NAPERVILLE	9
4 QUAD C18 KV QC-2	ST. CHARLES	3.1
6 BYRON 25 KV BY-1	N ILLINOIS HUB	30.1
6 BYRON 25 KV BY-2	N ILLINOIS HUB	70.2
937 LEE 13.5 KV LEE31-1	BATAVIA	0.2
937 LEE 13.5 KV LEE31-1	COMED_RESID_AGG	64.9
937 LEE 13.5 KV LEE31-1	NAPERVILLE	1
937 LEE 13.5 KV LEE31-1	ST. CHARLES	0.3
937 LEE 13.5 KV LEE31-2	BATAVIA	0.2
937 LEE 13.5 KV LEE31-2	COMED_RESID_AGG	64.8
937 LEE 13.5 KV LEE31-2	NAPERVILLE	1
937 LEE 13.5 KV LEE31-2	ST. CHARLES	0.3

Source	Sink	Infeasible MW Quantity
937 LEE 13.5 KV LEE32-1	COMED_RESID_AGG	32.7
937 LEE 13.5 KV LEE32-1	NAPERVILLE	0.5
937 LEE 13.5 KV LEE32-1	ST. CHARLES	0.1
937 LEE 13.5 KV LEE32-2	COMED_RESID_AGG	32.6
937 LEE 13.5 KV LEE32-2	NAPERVILLE	0.5
937 LEE 13.5 KV LEE32-2	ST. CHARLES	0.1
937 LEE 13.5 KV LEE33-1	BATAVIA	0.2
937 LEE 13.5 KV LEE33-1	COMED_RESID_AGG	63.3
937 LEE 13.5 KV LEE33-1	NAPERVILLE	1
937 LEE 13.5 KV LEE33-1	ST. CHARLES	0.3
937 LEE 13.5 KV LEE33-2	BATAVIA	0.2
937 LEE 13.5 KV LEE33-2	COMED_RESID_AGG	63.2
937 LEE 13.5 KV LEE33-2	NAPERVILLE	1
937 LEE 13.5 KV LEE33-2	ST. CHARLES	0.3
937 LEE 13.5 KV LEE34-1	COMED_RESID_AGG	32.2
937 LEE 13.5 KV LEE34-1	NAPERVILLE	0.5
937 LEE 13.5 KV LEE34-1	ST. CHARLES	0.1
937 LEE 13.5 KV LEE34-2	COMED_RESID_AGG	32.3
937 LEE 13.5 KV LEE34-2	NAPERVILLE	0.5
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	93.9
940 CORD18 KV CD-1	GENEVA	0.2
940 CORD18 KV CD-1	NAPERVILLE	1.5
940 CORD18 KV CD-1	ST. CHARLES	0.5
940 CORD18 KV CD-2	BATAVIA	0.3
940 CORD18 KV CD-2	COMED_RESID_AGG	93.6
940 CORD18 KV CD-2	GENEVA	0.2
940 CORD18 KV CD-2	NAPERVILLE	1.5
940 CORD18 KV CD-2	ST. CHARLES	0.5
959ERDBS34.5 KV BSWFBRS1	COMED_RESID_AGG	26.1
959ERDBS34.5 KV BSWFBRS1	NAPERVILLE	0.4
961 LEE 34.5 KV LEEDKWF1	COMED_RESID_AGG	17.7
961 LEE 34.5 KV LEEDKWF1	NAPERVILLE	0.2
961 LEE 34.5 KV LEEDKWF2	COMED_RESID_AGG	10.2
961 LEE 34.5 KV LEEDKWF2	NAPERVILLE	2
969 ECOG34.5 KV LENA WF	COMED_RESID_AGG	13.4
969 ECOG34.5 KV LENA WF	NAPERVILLE	0.2
981 CRES34.5 KV CRIDGE WF	COMED_RESID_AGG	0.8
981 CRES34.5 KV PROVID WF	COMED_RESID_AGG	1.1

Source	Sink	Infeasible MW Quantity
AMOS 26 KV AM1	AEPOHIO W.O. MON POWER	10.6
AMOS 26 KV AM2	AEPOHIO W.O. MON POWER	10.9
AMOS 26 KV AM2	AMP-OHIO	0.3
AMOS 26 KV AM3	AEPOHIO W.O. MON POWER	11.9
ARCHBTAP13 KV PEI 1	PPL_RESID_AGG	3.8
ARCHBTAP13 KV PEI 2	PPL_RESID_AGG	6.4
ASYLUM 23 KV LIBRTY10	BGE_RESID_AGG	15.1
ASYLUM 23 KV LIBRTY10	PENELEC_RESID_AGG	87.9
ASYLUM 23 KV LIBRTY10	PEPCO DC	4.4
ASYLUM 23 KV LIBRTY10	PEPCO MD	7.4
ASYLUM 23 KV LIBRTY10	SMECO_RESID_AGG	1.1
BEAV DUQ22 KV UNIT1	FEOHIO_RESID_AGG	233.4
BEAV DUQ22 KV UNIT2	FEOHIO_RESID_AGG	134.9
BERRHYD 4 KV BR1	AEPAPCO_RESID_AGG	0.3
BERRHYD 4 KV BR1	AEPOHIO W.O. MON POWER	1.3
BERRHYD 4 KV BR10	AEPAPCO_RESID_AGG	0.3
BERRHYD 4 KV BR10	AEPOHIO W.O. MON POWER	1.2
BERRHYD 4 KV BR11	AEPAPCO_RESID_AGG	0.3
BERRHYD 4 KV BR11	AEPOHIO W.O. MON POWER	1.2
BERRHYD 4 KV BR12	AEPAPCO_RESID_AGG	0.3
BERRHYD 4 KV BR12	AEPOHIO W.O. MON POWER	1.1
BERRHYD 4 KV BR2	AEPAPCO_RESID_AGG	0.3
BERRHYD 4 KV BR2	AEPOHIO W.O. MON POWER	1.2
BERRHYD 4 KV BR3	AEPAPCO_RESID_AGG	0.3
BERRHYD 4 KV BR3	AEPOHIO W.O. MON POWER	1.2
BERRHYD 4 KV BR4	AEPAPCO_RESID_AGG	0.3
BERRHYD 4 KV BR4	AEPOHIO W.O. MON POWER	1.1
BERRHYD 4 KV BR5	AEPAPCO_RESID_AGG	0.3
BERRHYD 4 KV BR5	AEPOHIO W.O. MON POWER	1.1
BERRHYD 4 KV BR6	AEPAPCO_RESID_AGG	0.3
BERRHYD 4 KV BR6	AEPOHIO W.O. MON POWER	1.1
BERRHYD 4 KV BR7	AEPAPCO_RESID_AGG	0.3
BERRHYD 4 KV BR7	AEPOHIO W.O. MON POWER	1.1
BERRHYD 4 KV BR8	AEPAPCO_RESID_AGG	0.3
BERRHYD 4 KV BR8	AEPOHIO W.O. MON POWER	1.1
BERRHYD 4 KV BR9	AEPAPCO_RESID_AGG	0.3
BERRHYD 4 KV BR9	AEPOHIO W.O. MON POWER	0.9
BIGSANDY22 KV BS1	AEPOHIO W.O. MON POWER	0.9
BIGSANDY22 KV BS1	AMP-OHIO	0.2
BIRDBORO23 KV CT1	AMP-METED	0.4

Source	Sink	Infeasible MW Quantity
BIRDBORO23 KV CT1	METED	17.7
BIRDBORO23 KV CT1	METED_RESID_AGG	67.3
BLOOMING69 KV WLPK	PPL_RESID_AGG	2.7
BLOSSBUR13 KV UNITCT	PENELEC_RESID_AGG	14.8
BLUECREE34.5 KV BLUEC3WF	AMP-ATSI OH	1.1
BLUECREE34.5 KV BLUEC3WF	CPP	1
BRUNSCOL21 KV BRUNSST	DOM_RESID_AGG	343.9
BSPEAKER138 KV 1	AEPOHIO W.O. MON POWER	6
BSPEAKER138 KV 2	AEPOHIO W.O. MON POWER	6
BSPEAKER138 KV 3	AEPOHIO W.O. MON POWER	6
BSPEAKER138 KV 4	AEPOHIO W.O. MON POWER	6
BSPEAKER138 KV 5	AEPOHIO W.O. MON POWER	6
BSPEAKER138 KV 6	AEPOHIO W.O. MON POWER	6
BUCHANAN2 KV BU1	AEPAPCO_RESID_AGG	0.2
BUCHANAN2 KV BU1	AEPOHIO W.O. MON POWER	1.5
BUCHANAN2 KV BU10	AEPAPCO_RESID_AGG	0.2
BUCHANAN2 KV BU10	AEPOHIO W.O. MON POWER	1.4
BUCHANAN2 KV BU2	AEPAPCO_RESID_AGG	0.2
BUCHANAN2 KV BU2	AEPOHIO W.O. MON POWER	1.4
BUCHANAN2 KV BU3	AEPAPCO_RESID_AGG	0.2
BUCHANAN2 KV BU3	AEPOHIO W.O. MON POWER	1.4
BUCHANAN2 KV BU4	AEPAPCO_RESID_AGG	0.2
BUCHANAN2 KV BU4	AEPOHIO W.O. MON POWER	1.4
BUCHANAN2 KV BU5	AEPAPCO_RESID_AGG	0.2
BUCHANAN2 KV BU5	AEPOHIO W.O. MON POWER	1.3
BUCHANAN2 KV BU6	AEPAPCO_RESID_AGG	0.2
BUCHANAN2 KV BU6	AEPOHIO W.O. MON POWER	1.3
BUCHANAN2 KV BU7	AEPAPCO_RESID_AGG	0.2
BUCHANAN2 KV BU7	AEPOHIO W.O. MON POWER	1.2
BUCHANAN2 KV BU8	AEPAPCO_RESID_AGG	0.2
BUCHANAN2 KV BU8	AEPOHIO W.O. MON POWER	1.2
BUCHANAN2 KV BU9	AEPAPCO_RESID_AGG	0.2
BUCHANAN2 KV BU9	AEPOHIO W.O. MON POWER	1.2
CAPITALA34.5 KV STJOESP	AEPIM_RESID_AGG	5.3
CHINQUPN23 KV CONET2SP	DOM_RESID_AGG	50.2
CLIFTYCR15.5 KV CC1	BUCKEYE - AEPOH	45
CLIFTYCR15.5 KV CC1	DAY_RESID_AGG	11.6
CLINCHRI15.5 KV CR1	AEPOHIO W.O. MON POWER	1
CLINCHRI15.5 KV CR2	AEPOHIO W.O. MON POWER	1
CLOVER 25 KV G1	DOM_RESID_AGG	56.8

Source	Sink	Infeasible MW Quantity
CLOVER 25 KV G2	DOM_RESID_AGG	56.2
CONEMAUG115 KV DIESEL	AMP-METED	0.1
CONEMAUG115 KV DIESEL	METED	1.7
CONEMAUG115 KV DIESEL	METED_RESID_AGG	5.4
CONEMAUG22 KV UNIT 1	AMP-METED	0.3
CONEMAUG22 KV UNIT 1	BGE_RESID_AGG	26.6
CONEMAUG22 KV UNIT 1	METED	18.5
CONEMAUG22 KV UNIT 1	METED_RESID_AGG	70.8
CONEMAUG22 KV UNIT 1	PEPCO DC	7
CONEMAUG22 KV UNIT 1	PEPCO MD	9.7
CONEMAUG22 KV UNIT 1	PPL_RESID_AGG	0.3
CONEMAUG22 KV UNIT 1	SMECO_RESID_AGG	2.9
CONEMAUG22 KV UNIT02	AMP-METED	0.3
CONEMAUG22 KV UNIT02	BGE_RESID_AGG	26.5
CONEMAUG22 KV UNIT02	METED	18.5
CONEMAUG22 KV UNIT02	METED_RESID_AGG	70.7
CONEMAUG22 KV UNIT02	PEPCO DC	7
CONEMAUG22 KV UNIT02	PEPCO MD	9.7
CONEMAUG22 KV UNIT02	PPL_RESID_AGG	0.3
CONEMAUG22 KV UNIT02	SMECO_RESID_AGG	2.9
CONSTANT2 KV CO1	AEPAPCO_RESID_AGG	0.2
CONSTANT2 KV CO1	AEPOHIO W.O. MON POWER	3.4
CONSTANT2 KV CO2	AEPAPCO_RESID_AGG	0.2
CONSTANT2 KV CO2	AEPOHIO W.O. MON POWER	3.3
CONSTANT2 KV CO3	AEPAPCO_RESID_AGG	0.2
CONSTANT2 KV CO3	AEPOHIO W.O. MON POWER	3.2
CONSTANT2 KV CO4	AEPAPCO_RESID_AGG	0.2
CONSTANT2 KV CO4	AEPOHIO W.O. MON POWER	3.2
COOK 26 KV CK1	AEPAPCO_RESID_AGG	230.8
COOK 26 KV CK1	AEPIM_RESID_AGG	143
COOK 26 KV CK1	AEPKY_RESID_AGG	40.5
COOK 26 KV CK1	AEPOHIO W.O. MON POWER	376.7
COOK 26 KV CK1	AK STEEL	1.3
COOK 26 KV CK1	AMP-OHIO	4
COOK 26 KV CK1	BLUE RIDGE	12.8
COOK 26 KV CK1	BUCK-CIN	0.4
COOK 26 KV CK1	BUCKEYE - AEPOH	7.9
COOK 26 KV CK1	BUCKEYE - DPL	1.9
COOK 26 KV CK1	BUCK-FE	1.4
COOK 26 KV CK1	MERIDIAN EWHITLEY	1.4

Source	Sink	Infeasible MW Quantity
COOK 26 KV CK2	AEPAPCO_RESID_AGG	219.8
COOK 26 KV CK2	AEPKY_RESID_AGG	39
COOK 26 KV CK2	AEPOHIO W.O. MON POWER	375
COOK 26 KV CK2	AK STEEL	1.2
COOK 26 KV CK2	AMP-OHIO	4.1
COOK 26 KV CK2	BLUE RIDGE	11.9
COOK 26 KV CK2	BUCK-CIN	0.5
COOK 26 KV CK2	BUCKEYE - AEPOH	8.5
COOK 26 KV CK2	BUCKEYE - DPL	2
COOK 26 KV CK2	BUCK-FE	1.5
COOP_EK 13.8 KV COOPER01	EKPC_RESID_AGG	114.5
COOP_EK 13.8 KV COOPER01	EKPC-DEOK LOAD	1.2
COOP_EK 20 KV COOPER02	EKPC_RESID_AGG	222.4
COOP_EK 20 KV COOPER02	EKPC-DEOK LOAD	2.1
CORNU 18 KV 1GT1	AEPOHIO W.O. MON POWER	0.8
CORNU 18 KV 1GT2	AEPOHIO W.O. MON POWER	0.7
CORNU 18 KV 2GT1	AEPOHIO W.O. MON POWER	0.7
CORNU 18 KV 2GT2	AEPOHIO W.O. MON POWER	0.7
CORNU 18 KV ST1	AEPOHIO W.O. MON POWER	1
CORNU 18 KV ST2	AEPOHIO W.O. MON POWER	1
COVERT 16 KV 1GTG	AEPAPCO_RESID_AGG	246.7
COVERT 16 KV 1GTG	AEPIM_RESID_AGG	176.6
COVERT 16 KV 1GTG	AEPKY_RESID_AGG	43.3
COVERT 16 KV 1GTG	AEPOHIO W.O. MON POWER	396.5
COVERT 16 KV 1GTG	AK STEEL	1.4
COVERT 16 KV 1GTG	AMP-OHIO	4.2
COVERT 16 KV 1GTG	BLUE RIDGE	13.7
COVERT 16 KV 1GTG	BUCK-CIN	0.5
COVERT 16 KV 1GTG	BUCKEYE - AEPOH	9.9
COVERT 16 KV 1GTG	BUCKEYE - DPL	2.6
COVERT 16 KV 1GTG	BUCK-FE	2.2
COVERT 16 KV 1GTG	MERIDIAN EWHITLEY	1.6
DELA DPL13 KV G1	DPL_ODEC	2.5
DELA DPL13 KV G10	DPL_ODEC	0.8
DELA DPL13 KV G2	DPL_ODEC	2.6
DLTAPLNT13.8 KV GEN1	AMP-ATSI OH	1
DLTAPLNT13.8 KV GEN1	AMP-ATSI PA	0.1
DLTAPLNT13.8 KV GEN1	BGE_RESID_AGG	2.9
DLTAPLNT13.8 KV GEN1	CPP	0.6
DLTAPLNT13.8 KV GEN1	DEOK_RESID_AGG	30.3

Source	Sink	Infeasible MW Quantity
DLTAPLNT13.8 KV GEN1	DUQ_RESID_AGG	14.8
DLTAPLNT13.8 KV GEN1	EKPC_RESID_AGG	1.6
DLTAPLNT13.8 KV GEN1	EKPC-DEOK LOAD	0.1
DLTAPLNT13.8 KV GEN1	FEOHIO_RESID_AGG	41.6
DLTAPLNT13.8 KV GEN1	PENPOWER_RESID_AGG	6.9
DLTAPLNT13.8 KV GEN1	PEPCO DC	1.1
DLTAPLNT13.8 KV GEN1	PEPCO MD	1.5
DLTAPLNT13.8 KV GEN1	SMECO_RESID_AGG	0.5
DLTAPLNT13.8 KV GEN1	WILLIAMSTOWN	0.1
DLTAPLNT13.8 KV GEN2	AMP-ATSI OH	1
DLTAPLNT13.8 KV GEN2	AMP-ATSI PA	0.1
DLTAPLNT13.8 KV GEN2	BGE_RESID_AGG	3.2
DLTAPLNT13.8 KV GEN2	CPP	0.7
DLTAPLNT13.8 KV GEN2	DEOK_RESID_AGG	31.4
DLTAPLNT13.8 KV GEN2	DUQ_RESID_AGG	14.6
DLTAPLNT13.8 KV GEN2	EKPC_RESID_AGG	1.8
DLTAPLNT13.8 KV GEN2	EKPC-DEOK LOAD	0.1
DLTAPLNT13.8 KV GEN2	FEOHIO_RESID_AGG	40.1
DLTAPLNT13.8 KV GEN2	PENPOWER_RESID_AGG	5.9
DLTAPLNT13.8 KV GEN2	PEPCO DC	1.1
DLTAPLNT13.8 KV GEN2	PEPCO MD	1.6
DLTAPLNT13.8 KV GEN2	SMECO_RESID_AGG	0.5
DLTAPLNT13.8 KV GEN2	WILLIAMSTOWN	0.1
DLTAPLNT13.8 KV GEN3	AMP-ATSI OH	1
DLTAPLNT13.8 KV GEN3	AMP-ATSI PA	0.1
DLTAPLNT13.8 KV GEN3	BGE_RESID_AGG	3.2
DLTAPLNT13.8 KV GEN3	CPP	0.7
DLTAPLNT13.8 KV GEN3	DEOK_RESID_AGG	31.2
DLTAPLNT13.8 KV GEN3	DUQ_RESID_AGG	14.2
DLTAPLNT13.8 KV GEN3	EKPC_RESID_AGG	1.8
DLTAPLNT13.8 KV GEN3	EKPC-DEOK LOAD	0.1
DLTAPLNT13.8 KV GEN3	FEOHIO_RESID_AGG	38.8
DLTAPLNT13.8 KV GEN3	PENPOWER_RESID_AGG	5.6
DLTAPLNT13.8 KV GEN3	PEPCO DC	1.1
DLTAPLNT13.8 KV GEN3	PEPCO MD	1.6
DLTAPLNT13.8 KV GEN3	SMECO_RESID_AGG	0.5
DLTAPLNT13.8 KV GEN3	WILLIAMSTOWN	0.1
DLTAPLNT18 KV GEN4	AMP-ATSI OH	1.6
DLTAPLNT18 KV GEN4	AMP-ATSI PA	0.1
DLTAPLNT18 KV GEN4	BGE_RESID_AGG	5

Source	Sink	Infeasible MW Quantity
DLTAPLNT18 KV GEN4	CPP	1.1
DLTAPLNT18 KV GEN4	DEOK_RESID_AGG	43.6
DLTAPLNT18 KV GEN4	DUQ_RESID_AGG	18.6
DLTAPLNT18 KV GEN4	EKPC_RESID_AGG	2.7
DLTAPLNT18 KV GEN4	EKPC-DEOK LOAD	0.1
DLTAPLNT18 KV GEN4	FEOHIO_RESID_AGG	50.7
DLTAPLNT18 KV GEN4	PENPOWER_RESID_AGG	5.8
DLTAPLNT18 KV GEN4	PEPCO DC	1.8
DLTAPLNT18 KV GEN4	PEPCO MD	2.7
DLTAPLNT18 KV GEN4	SMECO_RESID_AGG	0.9
DLTAPLNT18 KV GEN4	WILLIAMSTOWN	0.1
DLTAPLNT18 KV ST7	BGE_RESID_AGG	128.3
DRYBREAD34.5 KV DRYBRDSP	DOM_RESID_AGG	38.7
EDGEMOOR13 KV HAYRD1	DPL_ODEC	0.1
EDGEMOOR13 KV HAYRD2	DPL_ODEC	0.1
EDGEMOOR13 KV HAYRD3	DPL_ODEC	5.8
EDGEMOOR13 KV HAYRD4	DPL_ODEC	8.3
EDGEMOOR13 KV HAYRD5	AMP-ATSI OH	1.2
EDGEMOOR13 KV HAYRD5	AMP-ATSI PA	0.1
EDGEMOOR13 KV HAYRD5	BGE_RESID_AGG	3
EDGEMOOR13 KV HAYRD5	CPP	0.8
EDGEMOOR13 KV HAYRD5	DEOK_RESID_AGG	33.3
EDGEMOOR13 KV HAYRD5	EKPC_RESID_AGG	2.8
EDGEMOOR13 KV HAYRD5	EKPC-DEOK LOAD	0.1
EDGEMOOR13 KV HAYRD5	FEOHIO_RESID_AGG	38.1
EDGEMOOR13 KV HAYRD5	PENPOWER_RESID_AGG	4.3
EDGEMOOR13 KV HAYRD5	PEPCO DC	1.8
EDGEMOOR13 KV HAYRD5	PEPCO MD	2.6
EDGEMOOR13 KV HAYRD5	SMECO_RESID_AGG	0.8
EDGEMOOR13 KV HAYRD5	WILLIAMSTOWN	0.1
EDGEMOOR13 KV HAYRD6	AMP-ATSI OH	1.2
EDGEMOOR13 KV HAYRD6	AMP-ATSI PA	0.1
EDGEMOOR13 KV HAYRD6	BGE_RESID_AGG	3
EDGEMOOR13 KV HAYRD6	CPP	0.8
EDGEMOOR13 KV HAYRD6	DEOK_RESID_AGG	32.5
EDGEMOOR13 KV HAYRD6	EKPC_RESID_AGG	2.8
EDGEMOOR13 KV HAYRD6	EKPC-DEOK LOAD	0.1
EDGEMOOR13 KV HAYRD6	FEOHIO_RESID_AGG	37.6
EDGEMOOR13 KV HAYRD6	PENPOWER_RESID_AGG	4.4
EDGEMOOR13 KV HAYRD6	PEPCO DC	1.8

Source	Sink	Infeasible MW Quantity
EDGEMOOR13 KV HAYRD6	PEPCO MD	2.6
EDGEMOOR13 KV HAYRD6	SMECO_RESID_AGG	0.8
EDGEMOOR13 KV HAYRD6	WILLIAMSTOWN	0.1
EDGEMOOR13 KV HAYRD7	AMP-ATSI OH	1.2
EDGEMOOR13 KV HAYRD7	AMP-ATSI PA	0.1
EDGEMOOR13 KV HAYRD7	BGE_RESID_AGG	3
EDGEMOOR13 KV HAYRD7	CPP	0.8
EDGEMOOR13 KV HAYRD7	DEOK_RESID_AGG	32.3
EDGEMOOR13 KV HAYRD7	EKPC_RESID_AGG	2.8
EDGEMOOR13 KV HAYRD7	EKPC-DEOK LOAD	0.1
EDGEMOOR13 KV HAYRD7	FEOHIO_RESID_AGG	37.6
EDGEMOOR13 KV HAYRD7	PENNPOWER_RESID_AGG	4.3
EDGEMOOR13 KV HAYRD7	PEPCO DC	1.8
EDGEMOOR13 KV HAYRD7	PEPCO MD	2.6
EDGEMOOR13 KV HAYRD7	SMECO_RESID_AGG	0.8
EDGEMOOR13 KV HAYRD7	WILLIAMSTOWN	0.1
EDGEMOOR13 KV UNIT03	DPL_ODEC	0.1
EDGEMOOR18 KV HAYRD8	AMP-ATSI OH	1.8
EDGEMOOR18 KV HAYRD8	AMP-ATSI PA	0.1
EDGEMOOR18 KV HAYRD8	BGE_RESID_AGG	4.7
EDGEMOOR18 KV HAYRD8	CPP	1.2
EDGEMOOR18 KV HAYRD8	DEOK_RESID_AGG	46.5
EDGEMOOR18 KV HAYRD8	EKPC_RESID_AGG	4.2
EDGEMOOR18 KV HAYRD8	EKPC-DEOK LOAD	0.1
EDGEMOOR18 KV HAYRD8	FEOHIO_RESID_AGG	51.3
EDGEMOOR18 KV HAYRD8	PENNPOWER_RESID_AGG	4.9
EDGEMOOR18 KV HAYRD8	PEPCO DC	2.8
EDGEMOOR18 KV HAYRD8	PEPCO MD	4.5
EDGEMOOR18 KV HAYRD8	SMECO_RESID_AGG	1.3
EDGEMOOR18 KV HAYRD8	WILLIAMSTOWN	0.1
EDGEMOOR19 KV UNIT04	DPL_ODEC	4.1
EDGEMOOR23 KV UNIT05	DPL_ODEC	20.6
ELDRED 69 KV FOWNUG	PPL_RESID_AGG	3.4
ELDRED 69 KV WESNUG	AMP-METED	0.1
ELDRED 69 KV WESNUG	METED	5.1
ELDRED 69 KV WESNUG	METED_RESID_AGG	19.8
ELKHYDRO4 KV ELK	AEPAPCO_RESID_AGG	1
ELKHYDRO4 KV ELK	AEPIM_RESID_AGG	0.2
ELKHYDRO4 KV ELK	AEPKY_RESID_AGG	0.1
ELKHYDRO4 KV ELK	AEPOHIO W.O. MON POWER	7.2

Source	Sink	Infeasible MW Quantity
ELKHYDRO4 KV ELK	AK STEEL	0.1
ELKHYDRO4 KV ELK	BLUE RIDGE	0.4
ELKHYDRO4 KV ELK	MERIDIAN EWHITLEY	0.1
EVERTSUB34.5 KV ARMENIA	APS_RESID_AGG	1.5
FACEROCK13 KV HOLT1	PPL_RESID_AGG	0.4
FACEROCK13 KV HOLT10	PPL_RESID_AGG	0.2
FACEROCK13 KV HOLT11	PPL_RESID_AGG	0.2
FACEROCK13 KV HOLT13	PPL_RESID_AGG	0.2
FACEROCK13 KV HOLT18	PPL_RESID_AGG	0.3
FACEROCK13 KV HOLT19	PPL_RESID_AGG	0.3
FACEROCK13 KV HOLT2	PPL_RESID_AGG	0.2
FACEROCK13 KV HOLT3	PPL_RESID_AGG	0.2
FACEROCK13 KV HOLT4	PPL_RESID_AGG	0.2
FACEROCK13 KV HOLT5	PPL_RESID_AGG	0.2
FACEROCK13 KV HOLT6	PPL_RESID_AGG	0.2
FACEROCK13 KV HOLT7	PPL_RESID_AGG	0.2
FACEROCK13 KV HOLT8	PPL_RESID_AGG	0.2
FACEROCK13 KV HOLT9	PPL_RESID_AGG	0.2
FAIRVWEC21 KV S1	AMP-METED	0.4
FAIRVWEC21 KV S1	METED	21.1
FAIRVWEC21 KV S1	METED_RESID_AGG	79.6
FAIRVWEC21 KV S1	PENELEC_RESID_AGG	35.7
FLATLICK18 KV 1	AEPOHIO W.O. MON POWER	2.1
FLATLICK18 KV 2	AEPOHIO W.O. MON POWER	3.7
FLATLICK18 KV 3	AEPOHIO W.O. MON POWER	3.6
FLATLICK18 KV 4	AEPOHIO W.O. MON POWER	2.3
FLATLICK18 KV 5	AEPOHIO W.O. MON POWER	2.4
FOOTHILL18 KV UNIT 4	DEOK_RESID_AGG	36.5
FOOTHILL18 KV UNIT 4	DUQ_RESID_AGG	0.7
FOOTHILL18 KV UNIT 4	EKPC-DEOK LOAD	0.1
FOOTHILL18 KV UNIT 4	FEOHIO_RESID_AGG	2.1
FOOTHILL18 KV UNIT 4	WILLIAMSTOWN	0.1
FOOTHILL18 KV UNIT 5	DEOK_RESID_AGG	36.5
FOOTHILL18 KV UNIT 5	DUQ_RESID_AGG	0.7
FOOTHILL18 KV UNIT 5	EKPC-DEOK LOAD	0.1
FOOTHILL18 KV UNIT 5	FEOHIO_RESID_AGG	2.1
FOOTHILL18 KV UNIT 5	WILLIAMSTOWN	0.1
FOWLER 34.5 KV FWL2-1WF	AEPOHIO W.O. MON POWER	3.2
FOWLER 34.5 KV FWL2-2WF	AEPOHIO W.O. MON POWER	3.2
FOWLER 34.5 KV FWL2-3WF	AEPOHIO W.O. MON POWER	3.2

Source	Sink	Infeasible MW Quantity
FOWLER 34.5 KV FWL2-4WF	AEPOHIO W.O. MON POWER	3.1
FOWLER 34.5 KV FWLR1AWF	AEPAPCO_RESID_AGG	2.2
FOWLER 34.5 KV FWLR1AWF	AEPKY_RESID_AGG	0.3
FOWLER 34.5 KV FWLR1AWF	AEPOHIO W.O. MON POWER	10.7
FOWLER 34.5 KV FWLR1BWF	AEPAPCO_RESID_AGG	2.1
FOWLER 34.5 KV FWLR1BWF	AEPKY_RESID_AGG	0.3
FOWLER 34.5 KV FWLR1BWF	AEPOHIO W.O. MON POWER	10.2
FOWLER 34.5 KV FWLR3WF	AEPAPCO_RESID_AGG	6.8
FRACKVIL69 KV GLBNUG	PPL_RESID_AGG	16.4
FRACKVIL69 KV SCENUG	PPL_RESID_AGG	17.2
FTMARTIN22 KV GEN 1	LIDA - AP	0.2
FTMARTIN22 KV GEN 2	LIDA - AP	0.2
GASTON4 14 KV G1	DOM_RESID_AGG	8
GASTON4 14 KV G2	DOM_RESID_AGG	8
GASTON4 14 KV G3	DOM_RESID_AGG	8
GASTON4 14 KV G4	DOM_RESID_AGG	8
GAVINAEP26 KV GV1	AEPOHIO W.O. MON POWER	23.5
GAVINAEP26 KV GV1	AMP-OHIO	0.7
GAVINAEP26 KV GV2	AEPOHIO W.O. MON POWER	10.5
GAVINAEP26 KV GV2	AMP-OHIO	0.7
GRAYFR_113 KV 1 GEN	AMP-ATSI OH	1.6
GRAYFR_113 KV 1 GEN	AMP-ATSI PA	0.2
GRAYFR_113 KV 1 GEN	BGE_RESID_AGG	6.3
GRAYFR_113 KV 1 GEN	CPP	1.1
GRAYFR_113 KV 1 GEN	DEOK_RESID_AGG	42.1
GRAYFR_113 KV 1 GEN	EKPC_RESID_AGG	4.5
GRAYFR_113 KV 1 GEN	EKPC-DEOK LOAD	0.1
GRAYFR_113 KV 1 GEN	FEOHIO_RESID_AGG	48
GRAYFR_113 KV 1 GEN	PENPOWER_RESID_AGG	5.3
GRAYFR_113 KV 1 GEN	PEPCO DC	2.8
GRAYFR_113 KV 1 GEN	PEPCO MD	4.1
GRAYFR_113 KV 1 GEN	SMECO_RESID_AGG	1.4
GRAYFR_113 KV 1 GEN	WILLIAMSTOWN	0.1
GREENECC23 KV GREENECC	AEPOHIO W.O. MON POWER	3.1
GREENECC23 KV GREENECC	AK STEEL	0.1
GREENECC23 KV GREENECC	BUCK-CIN	0.1
GREENECC23 KV GREENECC	BUCKEYE - AEPOH	0.2
GREENECC23 KV GREENECC	DEOK_RESID_AGG	57.6
GREENECC23 KV GREENECC	DUQ_RESID_AGG	16.1
GREENUP	DEOK_RESID_AGG	46.7

Source	Sink	Infeasible MW Quantity
GRNSVIL 20 KV GREENSST	DOM_RESID_AGG	413.4
HANNIBAL24 KV LONGRDCC	DEOK_RESID_AGG	68
HANNIBAL24 KV LONGRDCC	WILLIAMSTOWN	0.1
HIBBMILL26 KV CTG-1	DEOK_RESID_AGG	63.2
HIBBMILL26 KV CTG-1	WILLIAMSTOWN	0.1
HIBBMILL26 KV CTG-2	DEOK_RESID_AGG	63
HIBBMILL26 KV CTG-2	WILLIAMSTOWN	0.1
HICRUNEC22 KV 1S STG	AMP-ATSI OH	15
HICRUNEC22 KV 1S STG	CPP	4.9
HICRUNEC22 KV 1S STG	FEOHIO_RESID_AGG	327.3
HOPECREE25 KV UNIT 1	BRUNSWICK	0.2
HOPECREE25 KV UNIT 1	HILLSDALE_PARKRIDGE	0.2
HOPECREE25 KV UNIT 1	PSEG_RESID_AGG	41.5
HUMMEL 22 KV STG	PPL_RESID_AGG	64.3
HUNTERST18 KV CT201	AMP-METED	0.2
HUNTERST22 KV ST401	AMP-METED	0.2
JKSMT_EK13.8 KV JKSMT1	EKPC-DEOK LOAD	0.4
JKSMT_EK13.8 KV JKSMT10	EKPC-DEOK LOAD	0.3
JKSMT_EK13.8 KV JKSMT2	EKPC-DEOK LOAD	0.4
JKSMT_EK13.8 KV JKSMT3	EKPC-DEOK LOAD	0.4
JKSMT_EK13.8 KV JKSMT4	EKPC-DEOK LOAD	0.2
JKSMT_EK13.8 KV JKSMT5	EKPC-DEOK LOAD	0.2
JKSMT_EK13.8 KV JKSMT6	EKPC-DEOK LOAD	0.2
JKSMT_EK13.8 KV JKSMT7	EKPC-DEOK LOAD	0.2
KENDALL 3 CC	MISO	24.1
KERRDAM 14 KV G1	DOM_RESID_AGG	2.2
KERRDAM 14 KV G2	DOM_RESID_AGG	2.3
KERRDAM 14 KV G3	DOM_RESID_AGG	2.3
KERRDAM 14 KV G4	DOM_RESID_AGG	2.3
KERRDAM 14 KV G5	DOM_RESID_AGG	2.3
KERRDAM 14 KV G6	DOM_RESID_AGG	2.3
KERRDAM 14 KV G7	DOM_RESID_AGG	2.3
KEYSTNE 13 KV _UN1__15	DAY_RESID_AGG	40.6
KEYSTNE 13 KV _UN2__15	DAY_RESID_AGG	40.1
KEYSTNE 13 KV _UN3__15	DAY_RESID_AGG	39.8
KEYSTNE 13 KV _UN4__15	DAY_RESID_AGG	39.4
KEYSTONE20 KV UNIT 1	BGE_RESID_AGG	39.5
KEYSTONE20 KV UNIT 1	PPL_RESID_AGG	0.1
KEYSTONE20 KV UNIT 2	BGE_RESID_AGG	39.6
KEYSTONE20 KV UNIT 2	PPL_RESID_AGG	0.1

Source	Sink	Infeasible MW Quantity
KEYSTONE20 KV UNIT 3	BGE_RESID_AGG	0.2
KLINE 138 KV TWINB1-6	AEPIM_RESID_AGG	2.1
KYGERCRE15.5 KV KY1	BUCKEYE - AEPOH	24.1
LACKAENG24 KV CTG1	EPHRATA	0.2
LACKAENG24 KV CTG1	PPL_RESID_AGG	31.2
LAURELDM13.8 KV LAUREL	EKPC_RESID_AGG	69.2
LAURELDM13.8 KV LAUREL	EKPC-DEOK LOAD	0.6
LAWRENC218 KV S1	AEPOHIO W.O. MON POWER	22
LAWRENC218 KV S1	AMP-OHIO	0.4
LAWRENC218 KV S1	BUCK-FE	0.6
LAWRENC218 KV S1	EKPC-DEOK LOAD	0.1
LAWRENC218 KV S2	AEPOHIO W.O. MON POWER	22
LAWRENC218 KV S2	AMP-OHIO	0.4
LAWRENC218 KV S2	BUCKEYE - AEPOH	1.7
LAWRENC218 KV S2	BUCK-FE	0.6
LAWRENC218 KV S2	EKPC-DEOK LOAD	0.1
LINWDPE 18 KV STM	AMP-ATSI OH	6.6
LINWDPE 18 KV STM	AMP-ATSI PA	0.5
LINWDPE 18 KV STM	BGE_RESID_AGG	33.2
LINWDPE 18 KV STM	CPP	4.5
LINWDPE 18 KV STM	DEOK_RESID_AGG	167
LINWDPE 18 KV STM	DUQ_RESID_AGG	69.9
LINWDPE 18 KV STM	EKPC_RESID_AGG	18.8
LINWDPE 18 KV STM	EKPC-DEOK LOAD	0.3
LINWDPE 18 KV STM	FEOHIO_RESID_AGG	173.3
LINWDPE 18 KV STM	PENPOWER_RESID_AGG	14.3
LINWDPE 18 KV STM	PEPCO DC	14.3
LINWDPE 18 KV STM	PEPCO MD	20.9
LINWDPE 18 KV STM	SMECO_RESID_AGG	5.7
LINWDPE 18 KV STM	WILLIAMSTOWN	0.3
LRDTWNEC19 KV ST10	CPP	4.1
LRDTWNEC19 KV ST10	FEOHIO_RESID_AGG	412.2
MARTINSC24 KV UNIT03	PPL_RESID_AGG	4.8
MARTINSC24 KV UNIT04	PPL_RESID_AGG	1.3
MISO	AEC - AP	2.8
MISO	AEPAPCO_RESID_AGG	104.9
MISO	AEPIM_RESID_AGG	109.3
MISO	AEPKY_RESID_AGG	18.4
MISO	AEPOHIO W.O. MON POWER	170
MISO	AK STEEL	0.5

Source	Sink	Infeasible MW Quantity
MISO	AMP-OHIO	17.4
MISO	APS_RESID_AGG	390.7
MISO	BLUE RIDGE	5.8
MISO	BUCK-CIN	0.2
MISO	BUCKEYE - AEPOH	3.6
MISO	BUCKEYE - DPL	0.9
MISO	BUCK-FE	0.6
MISO	DAY_RESID_AGG	44.7
MISO	HREA - AP	1
MISO	LIDA - AP	0.3
MISO	MERIDIAN EWHITLEY	0.6
MISO	MON POWER	12.3
MISO	MONT ALTO - AP	0.1
MISO	NEWMARTINSVILLE-AP	0.4
MISO	PHILIPPI - AP	0.3
MONTOUR 24 KV UNIT01	EPHRATA	1
MONTOUR 24 KV UNIT01	PPL_RESID_AGG	277
MONTOUR 24 KV UNIT02	EPHRATA	1
MONTOUR 24 KV UNIT02	PPL_RESID_AGG	277.4
MOTTVILL2 KV MO1	AEPAPCO_RESID_AGG	0.2
MOTTVILL2 KV MO1	AEPOHIO W.O. MON POWER	2.8
MOTTVILL2 KV MO2	AEPAPCO_RESID_AGG	0.2
MOTTVILL2 KV MO2	AEPOHIO W.O. MON POWER	2.4
MOTTVILL2 KV MO3	AEPAPCO_RESID_AGG	0.2
MOTTVILL2 KV MO3	AEPOHIO W.O. MON POWER	2.3
MOTTVILL2 KV MO4	AEPAPCO_RESID_AGG	0.2
MOTTVILL2 KV MO4	AEPOHIO W.O. MON POWER	2.2
MOUNTAIN26 KV MT1	AEPOHIO W.O. MON POWER	49.6
MOUNTAIN26 KV MT1	AMP-OHIO	0.6
MTNTOP 34.5 KV MHOOPWF2	APS_RESID_AGG	3.4
MTNTOP 34.5 KV MHOOPWF2	DPL_ODEC	2.7
NAMPTON 138 KV NUG	AMP-METED	0.2
NAMPTON 138 KV NUG	METED	14.6
NAMPTON 138 KV NUG	METED_RESID_AGG	55
NLONGVW 26 KV GEN 1	LIDA - AP	0.2
NYIS	AMP-OHIO	3.3
NYIS	BUCKEYE - AEPOH	37.5
NYIS	BUCKEYE - DPL	9.2
NYIS	METED_RESID_AGG	3.5
NYIS	PENELEC_RESID_AGG	15.6

Source	Sink	Infeasible MW Quantity
ONTELAUN18 KV STM	AMP-METED	0.1
ONTELAUN18 KV STM	METED	0.6
ONTELAUN18 KV STM	METED_RESID_AGG	1.7
ONTELAUN18 KV STM	PEPCO DC	2.1
ONTELAUN18 KV STM	PEPCO MD	3.3
ONTELAUN18 KV STM	SMECO_RESID_AGG	1.1
PANTHER 69 KV PANTR	AMP-METED	0.1
PANTHER 69 KV PANTR	METED	2.1
PANTHER 69 KV PANTR	METED_RESID_AGG	11.3
PATRIOT123 KV PAT10	EPHRATA	0.1
PATRIOT123 KV PAT10	PPL_RESID_AGG	19.3
PAULDNG334.5 KV PAUL3WF	AEPAPCO_RESID_AGG	2.4
PAULDNG334.5 KV PAUL3WF	AEPKY_RESID_AGG	0.4
PAULDNG334.5 KV PAUL3WF	AEPOHIO W.O. MON POWER	10.5
PAULDNG334.5 KV PAUL3WF	BLUE RIDGE	0.1
PEACHBOT22 KV UNIT02	DPL_ODEC	4.2
PEACHBOT22 KV UNIT03	DPL_ODEC	4.2
PERRY_FE22 KV PR10	AMP-ATSI OH	24.5
PERRY_FE22 KV PR10	FEOHIO_RESID_AGG	305
PLEA APS26 KV GEN 1	LIDA - AP	0.2
PLYWOOD 13.8 KV PLYWODBI	DOM_RESID_AGG	4.9
PORTLAND13 KV CT 3	AMP-METED	0.1
PORTLAND13 KV CT 3	METED	2.9
PORTLAND13 KV CT 3	METED_RESID_AGG	10.7
PORTLAND13 KV CT 4	AMP-METED	0.1
PORTLAND13 KV CT 4	METED	3.3
PORTLAND13 KV CT 4	METED_RESID_AGG	12.5
PORTLAND13 KV CT 5	AMP-METED	0.3
PORTLAND13 KV CT 5	METED	16.7
PORTLAND13 KV CT 5	METED_RESID_AGG	66.5
PRINTZ 18 KV STG	AMP-ATSI OH	5.4
PRINTZ 18 KV STG	AMP-ATSI PA	0.4
PRINTZ 18 KV STG	BGE_RESID_AGG	26.8
PRINTZ 18 KV STG	CPP	3.7
PRINTZ 18 KV STG	DEOK_RESID_AGG	135.4
PRINTZ 18 KV STG	EKPC_RESID_AGG	15.3
PRINTZ 18 KV STG	EKPC-DEOK LOAD	0.3
PRINTZ 18 KV STG	FEOHIO_RESID_AGG	142
PRINTZ 18 KV STG	PENPOWER_RESID_AGG	11.8
PRINTZ 18 KV STG	PEPCO DC	10.7

Source	Sink	Infeasible MW Quantity
PRINTZ 18 KV STG	PEPCO MD	16.9
PRINTZ 18 KV STG	SMECO_RESID_AGG	4.6
PRINTZ 18 KV STG	WILLIAMSTOWN	0.2
PSEGGLOB18 KV 6	DEOK_RESID_AGG	42.2
PSEGGLOB18 KV 6	EKPC-DEOK LOAD	0.1
PSEGGLOB18 KV 6	FEOHIO_RESID_AGG	2.6
PSEGGLOB18 KV 6	WILLIAMSTOWN	0.1
PSEGGLOB18 KV 7	DEOK_RESID_AGG	42.3
PSEGGLOB18 KV 7	EKPC-DEOK LOAD	0.1
PSEGGLOB18 KV 7	FEOHIO_RESID_AGG	2.2
PSEGGLOB18 KV 7	WILLIAMSTOWN	0.1
PSEGGLOB18 KV 8	DEOK_RESID_AGG	42.2
PSEGGLOB18 KV 8	EKPC-DEOK LOAD	0.1
PSEGGLOB18 KV 8	FEOHIO_RESID_AGG	2.2
PSEGGLOB18 KV 8	WILLIAMSTOWN	0.1
PSEGGLOB22 KV 5	DEOK_RESID_AGG	89.1
PSEGGLOB22 KV 5	EKPC-DEOK LOAD	0.2
PSEGGLOB22 KV 5	FEOHIO_RESID_AGG	3.8
PSEGGLOB22 KV 5	WILLIAMSTOWN	0.1
ROCKPOR226 KV RP1	AEPOHIO W.O. MON POWER	212.1
ROCKPOR226 KV RP1	AMP-OHIO	1.6
ROCKPOR226 KV RP1	BUCK-CIN	0.1
ROCKPOR226 KV RP1	BUCKEYE - AEPOH	7.6
ROCKPOR226 KV RP1	BUCK-FE	1.7
ROCKPOR226 KV RP2	AEPOHIO W.O. MON POWER	185.8
ROCKPOR226 KV RP2	BUCK-CIN	0.1
ROCKPOR226 KV RP2	BUCKEYE - AEPOH	7.4
ROCKPOR226 KV RP2	BUCK-FE	1.7
ROCKSPRI18 KV CT3	DPL_ODEC	0.7
ROCKSPRI18 KV CT4	DPL_ODEC	0.7
ROCKSPRI24 KV WCATSTG	APS_RESID_AGG	47.4
ROCKSPRI24 KV WCATSTG	DPL_ODEC	27.8
RONCO 18 KV STM	LIDA - AP	0.1
RORAPIDS14 KV G1	DOM_RESID_AGG	7.3
RORAPIDS14 KV G2	DOM_RESID_AGG	7.3
RORAPIDS14 KV G3	DOM_RESID_AGG	7.3
RORAPIDS14 KV G4	DOM_RESID_AGG	7.3
ROSEMARY13.8 KV NUG	DOM_RESID_AGG	22.8
RPMONE 18 KV 1	AEPOHIO W.O. MON POWER	25.3
RPMONE 18 KV 1	AMP-OHIO	0.2

Source	Sink	Infeasible MW Quantity
RPMONE 18 KV 1	BUCKEYE - AEPOH	0.8
RPMONE 18 KV 1	BUCKEYE - DPL	0.2
RPMONE 18 KV 1	BUCK-FE	0.2
RPMONE 18 KV 2	AEPOHIO W.O. MON POWER	25.3
RPMONE 18 KV 2	AMP-OHIO	0.2
RPMONE 18 KV 2	BUCKEYE - AEPOH	0.8
RPMONE 18 KV 2	BUCKEYE - DPL	0.2
RPMONE 18 KV 2	BUCK-FE	0.2
RPMONE 18 KV 3	AEPOHIO W.O. MON POWER	25.3
RPMONE 18 KV 3	AMP-OHIO	0.2
RPMONE 18 KV 3	BUCKEYE - AEPOH	0.8
RPMONE 18 KV 3	BUCKEYE - DPL	0.2
RPMONE 18 KV 3	BUCK-FE	0.2
SAFEHARB13 KV UNIT1	BGE_RESID_AGG	7.4
SAFEHARB13 KV UNIT10	BGE_RESID_AGG	5.5
SAFEHARB13 KV UNIT11	BGE_RESID_AGG	5.5
SAFEHARB13 KV UNIT12	BGE_RESID_AGG	5.5
SAFEHARB13 KV UNIT2	BGE_RESID_AGG	7.4
SAFEHARB13 KV UNIT3	BGE_RESID_AGG	7.8
SAFEHARB13 KV UNIT4	BGE_RESID_AGG	7.4
SAFEHARB13 KV UNIT5	BGE_RESID_AGG	7.8
SAFEHARB13 KV UNIT6	BGE_RESID_AGG	7.4
SAFEHARB13 KV UNIT7	BGE_RESID_AGG	7.8
SAFEHARB13 KV UNIT8	BGE_RESID_AGG	5.5
SAFEHARB13 KV UNIT9	BGE_RESID_AGG	5.5
SALEM 25 KV SALEM1	BERLIN DPL	0.1
SALEM 25 KV SALEM1	BRUNSWICK	0.1
SALEM 25 KV SALEM1	DEMEC	1.5
SALEM 25 KV SALEM1	DOVER	2
SALEM 25 KV SALEM1	DPL	9.4
SALEM 25 KV SALEM1	DPL_ODEC	9.9
SALEM 25 KV SALEM1	DPL_RESID_AGG	17.3
SALEM 25 KV SALEM1	EASTON	0.6
SALEM 25 KV SALEM1	HILLSDALE_PARKRIDGE	0.1
SALEM 25 KV SALEM1	LEWES DPL	0.3
SALEM 25 KV SALEM1	MOTIVA	0.4
SALEM 25 KV SALEM1	NAAMANS	0.1
SALEM 25 KV SALEM1	PECO_RESID_AGG	43.4
SALEM 25 KV SALEM1	PSEG_RESID_AGG	16
SALEM 25 KV SALEM1	REDLION T1	0.1

Source	Sink	Infeasible MW Quantity
SALEM 25 KV SALEM2	BERLIN DPL	0.1
SALEM 25 KV SALEM2	BRUNSWICK	0.1
SALEM 25 KV SALEM2	DEMEC	1.5
SALEM 25 KV SALEM2	DOVER	2
SALEM 25 KV SALEM2	DPL	9.4
SALEM 25 KV SALEM2	DPL_ODEC	9.9
SALEM 25 KV SALEM2	DPL_RESID_AGG	17.2
SALEM 25 KV SALEM2	EASTON	0.6
SALEM 25 KV SALEM2	HILLSDALE_PARKRIDGE	0.1
SALEM 25 KV SALEM2	LEWES DPL	0.2
SALEM 25 KV SALEM2	NAAMANS	0.1
SALEM 25 KV SALEM2	PECO_RESID_AGG	42.3
SALEM 25 KV SALEM2	PSEG_RESID_AGG	16
SAMMISFE19 KV SH60	AMP-ATSI OH	13.4
SAMMISFE19 KV SH60	CPP	5
SAMMISFE19 KV SH60	FEOHIO_RESID_AGG	328.7
SAMMISFE19 KV SH70	CPP	4.4
SAMMISFE19 KV SH70	FEOHIO_RESID_AGG	318.8
SAMMISFE23.4 KV SH50	AMP-ATSI OH	6.4
SAMMISFE23.4 KV SH50	FEOHIO_RESID_AGG	150.4
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
SHAMPTON115 KV G1	DOM_RESID_AGG	7.9
SHAWNEE 13 KV SHAWNE	AMP-METED	0.1
SHAWNEE 13 KV SHAWNE	METED	3.3
SHAWNEE 13 KV SHAWNE	METED_RESID_AGG	12.7
SJEC 18 KV STG	AEPAPCO_RESID_AGG	154.7
SJEC 18 KV STG	AEPIM_RESID_AGG	53.7
SJEC 18 KV STG	AEPKY_RESID_AGG	27.2
SJEC 18 KV STG	AEPOHIO W.O. MON POWER	257.3
SJEC 18 KV STG	AK STEEL	0.9
SJEC 18 KV STG	AMP-OHIO	3.3
SJEC 18 KV STG	BLUE RIDGE	8.4
SJEC 18 KV STG	BUCK-CIN	0.3
SJEC 18 KV STG	BUCKEYE - AEPOH	6.2
SJEC 18 KV STG	BUCKEYE - DPL	1.5
SJEC 18 KV STG	BUCK-FE	1.1
SJEC 18 KV STG	MERIDIAN EWHITLEY	0.7

Source	Sink	Infeasible MW Quantity
SMITHMOU13.8 KV SM2	AEPOHIO W.O. MON POWER	0.2
SOUTH	DOM_RESID_AGG	12.5
SPRINGDA13 KV AES 1	LIDA - AP	0.1
SPRINGDA13 KV AES 2	LIDA - AP	0.1
SPRINGDA18 KV ST5	LIDA - AP	0.2
SREADING13 KV TITUS4	AMP-METED	0.1
SREADING13 KV TITUS4	METED	0.7
SREADING13 KV TITUS4	METED_RESID_AGG	2.2
SREADING13 KV TITUS5	AMP-METED	0.1
SREADING13 KV TITUS5	METED	0.7
SREADING13 KV TITUS5	METED_RESID_AGG	2.2
STEELCTY18 KV BETH 4CC	PPL_RESID_AGG	11
STEELCTY18 KV BETH 8CC	PPL_RESID_AGG	0.2
SUNBURY 12 KV CT 1-2	PPL_RESID_AGG	12.5
SUNBURY 69 KV DIES	PPL_RESID_AGG	6.6
SUSQUEHA24 KV UNIT01	BGE_RESID_AGG	41
SUSQUEHA24 KV UNIT01	EPHRATA	1.4
SUSQUEHA24 KV UNIT01	METED_RESID_AGG	11.5
SUSQUEHA24 KV UNIT01	PENELEC_RESID_AGG	29.5
SUSQUEHA24 KV UNIT01	PPL_RESID_AGG	408.2
SUSQUEHA24 KV UNIT02	BGE_RESID_AGG	42.2
SUSQUEHA24 KV UNIT02	EPHRATA	1.5
SUSQUEHA24 KV UNIT02	METED_RESID_AGG	11.7
SUSQUEHA24 KV UNIT02	PENELEC_RESID_AGG	33.2
SUSQUEHA24 KV UNIT02	PPL_RESID_AGG	375.9
TANNERSC18 KV TC3	MIAMIFOR18 KV G6	100.6
TIDD_AEP24 KV CD1	AK STEEL	0.8
TIDD_AEP24 KV CD1	BUCK-CIN	0.3
TIDD_AEP24 KV CD1	BUCK-FE	0.7
TIDD_AEP24 KV CD2	BUCK-CIN	8.8
TIDD_AEP24 KV CD2	BUCK-FE	29.7
TIDD_AEP26 KV CD3	BUCK-CIN	8.9
TIDD_AEP26 KV CD3	BUCK-FE	29.8
TIMBERRD34.5 KV TIMR2WF1	AEPOHIO W.O. MON POWER	14
TWELVEPO13 KV 1	DUQ_RESID_AGG	1.4
TWELVEPO13 KV 2	DUQ_RESID_AGG	2.6
TWELVEPO13 KV 3	DUQ_RESID_AGG	2.6
TWELVEPO13 KV 4	DUQ_RESID_AGG	2.3
TWELVEPO13 KV 5	DUQ_RESID_AGG	1.5
TWELVEPO13 KV 6	DUQ_RESID_AGG	1.4

Source	Sink	Infeasible MW Quantity
TWINBRAN138 KV TWINBRSP	AEPIM_RESID_AGG	0.6
WINFIELD4 KV WI1	AEPOHIO W.O. MON POWER	0.1
WINFIELD4 KV WI2	AEPOHIO W.O. MON POWER	0.1
WINFIELD4 KV WI3	AEPOHIO W.O. MON POWER	0.1
WMORELND20 KV CT1	LIDA - AP	0.1
ZELDA 18 KV UNIT 1	AEPOHIO W.O. MON POWER	0.6
ZELDA 18 KV UNIT 2	AEPOHIO W.O. MON POWER	0.4
ZELDA 18 KV UNIT 3	AEPOHIO W.O. MON POWER	0.3