PJM 2021/2022 Stage 1A Over Allocation Notice

This document is to inform PJM members that Stage 1A of the 2021/2022 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 2021/2022 Annual ARR Allocation and all FTR Auctions effective for the 2021/2022 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
ALLDAM6 138 KV ALL-KIT_I	L345.Armstrong-HomerCity	107	Internal PJM	Transmission Outage
ALLLUD4J138 KV ALJ-ALL_I	L345.Armstrong-HomerCity	107	Internal PJM	Transmission Outage
APCI 115 KV APC-GEN_Z	L345.ErieWest-Wayne.3004	71	Internal PJM	Transmission Outage
APCI 115 KV API-FRN_I	L345.ErieWest-Wayne.3004	69	Internal PJM	Transmission Outage
ARMSTRON138 KV ARM-KIT_Z	L345.Armstrong-HomerCity	30	Internal PJM	Transmission Outage
BARNJNDP115 KV 33B_Z	L500.Clover-Rawlings.556	527	Internal PJM	Transmission Outage
BARTONVI138 KV BAR-MEA_Z	L500.FrontRoyal-Morrisville.541	24	Internal PJM	Transmission Outage
Batesville-Hubble 138 l/o Tanners Crk-Miami Fort 345		96	M2M Flowgate	Network Load
BIGPINET138 KV BIG-GAR_I	L345.Armstrong-HomerCity	132	Internal PJM	Transmission Outage
BIGPINET138 KV BIG-KIS_Z	L345.Armstrong-HomerCity	132	Internal PJM	Transmission Outage
BURMA 115 KV BUR-PIN_I	L345.HandsomeLake-Wayne	140	Internal PJM	Transmission Outage
BURMA 138 KV T1_I	L345.HandsomeLake-Wayne	127	Internal PJM	Transmission Outage
Cayuga 345/230 XFMR 9 (flo) Cayuga 345/230 XFMR 10		2	M2M Flowgate	Network Load
CHASECTY115 KV 33A_Z	L500.Clover-Rawlings.556	524	Internal PJM	Transmission Outage

Equipment Name	Contingency Description	Required MW Increase in Capability Limits	Type	Reason for Infeasibility
Cherry Valley Silver Lake 15616 345kV l/o Byron-Wayne 0626 345 kV		82	M2M Flowgate	Network Load
CONASTON500 KV CNS-PEA_Z		44	Internal PJM	Transmission Outage
COOPERPE230 KV COO-GRA_I	L500.Conastone-PeachBottom.5012	386	Internal PJM	Transmission Outage
COOPERPE230 KV COO-PEA_Z	L500.Conastone-PeachBottom.5012	401	Internal PJM	Transmission Outage
DIXONVIL115 KV DIX-GLO_Z	L345.Armstrong-HomerCity	7	Internal PJM	Transmission Outage
DIXONVIL115 KV DIX-TRA_I	L345.Armstrong-HomerCity	3	Internal PJM	Transmission Outage
DUBOIS 115 KV DUB-ROC_Z	L345.HandsomeLake-Wayne	13	Internal PJM	Transmission Outage
ECLIPSE 115 KV ECL-PIN_Z	L345.HandsomeLake-Wayne	88	Internal PJM	Transmission Outage
ECLIPSE 115 KV ECL-UTI_I	L345.HandsomeLake-Wayne	88	Internal PJM	Transmission Outage
Fargo XF 3 l/o Maple Rid-Tazwell 345kV		10	M2M Flowgate	Network Load
FRANKTAP115 KV FRN-GEN1_I	L345.ErieWest-Wayne.3004	78	Internal PJM	Transmission Outage
FRANKTAP115 KV FRN-MOR_I	L345.ErieWest-Wayne.3004	70	Internal PJM	Transmission Outage
FRANKTAP115 KV FRN-WAY_Z	L345.ErieWest-Wayne.3004	42	Internal PJM	Transmission Outage
Grand Mound - Maquoketa 161 kV l/o Rock Creek - Salem 345 kV		3	M2M Flowgate	Network Load
GRANDVIE115 KV GRA-HAY_Z	L345.HandsomeLake-Wayne	67	Internal PJM	Transmission Outage
GRANDVIE115 KV GRA-TIT_I	L345.ErieWest-Wayne.3004	34	Internal PJM	Transmission Outage
HAYNIE 115 KV HAY-PIN_Z	L345.HandsomeLake-Wayne	79	Internal PJM	Transmission Outage
HEBRON 69 KV HEB-MAR_Z	L138.Loretto-Vienna.13780	6	Internal PJM	Transmission Outage
JACK ME 230 KV JAC-TMI_Z	L500.Conastone-PeachBottom.5012	78	Internal PJM	Transmission Outage
Labadie-GraySummit 2 345 kV l/o Labadie-GraySummit 1 345 kV		75	M2M Flowgate	Network Load
Lakeview-Zion 138 l/o Pleasant Prairie-Zion 345+Pleasant Prairie-Zion EC 345		31	M2M Flowgate	Network Load
MANOR 69 KV MAN-SAF2_Z	L500.Greensville-RogersRoad.596 + Greensville.CC	5	Internal PJM	Transmission Outage
MANOR 69 KV MAN-SAF2_Z		27	Internal PJM	Transmission Outage
MARDELA 69 KV MAR-VIE_Z	L138.Loretto-Vienna.13780	10	Internal PJM	Transmission Outage
MDSNVLDP115 KV 154E1_Z	L500.Clover-Rawlings.556	30	Internal PJM	Transmission Outage
Monroe-Lallendorf 345 kV l/o Lulu 345 kV Sub		296	M2M Flowgate	Network Load
Monroe-Lallendorf l/o Morocco-Allen Junction		296	M2M Flowgate	Network Load
Montgomery_Labadie_345_flo_Callaway_Bland_345		58	M2M Flowgate	Network Load
MORGANST115 KV MOR-VEN_I	L345.ErieWest-Wayne.3004	63	Internal PJM	Transmission Outage
MTLAURE4115 KV 33C1_Z	L500.Clover-Rawlings.556	530	Internal PJM	Transmission Outage
Nelson 345/138 TR82 l/o Nelson 345/138 TR81		39	M2M Flowgate	Network Load
NOTTINGH230 KV 1-3_I	L500.Conastone-PeachBottom.5012	414	Internal PJM	Transmission Outage
NOTTINGH230 KV 2-3_I	L500.Conastone-PeachBottom.5012	414	Internal PJM	Transmission Outage
NOTTINGH230 KV NOT-PEA_I	L500.Conastone-PeachBottom.5012	403	Internal PJM	Transmission Outage
Nucor-Whitestown 345 kV l/o Rockport-Jefferson 765 kV		97	M2M Flowgate	Network Load
PAMPLIN 115 KV 154D_Z	L500.Clover-Rawlings.556	28	Internal PJM	Transmission Outage
Quad Cities - Cordova 0402 345kV l/o Quad Cities - Cordova 0403 345kV		182	M2M Flowgate	Network Load
RockCreek - Dewitt 161 l/o QuadCities - Sub 91 345 & Sub 91 XF		38	M2M Flowgate	Network Load
ROCKTONM115 KV ROC-SHA_Z	L345.HandsomeLake-Wayne	13	Internal PJM	Transmission Outage
ROCKTONM115 KV ROC-SHA_Z		6	Internal PJM	Transmission Outage
Roxana-Praxair 1 138 kV l/o Wilton Center-Dumont 765 kV		3	M2M Flowgate	Network Load
Roxana-Praxair 138 kV l/o Gary Ave-Sheffield 345 kV		5	M2M Flowgate	Network Load
Roxana-Praxair 138 kV l/o Inland5-Marktown 138 kV		3	M2M Flowgate	Network Load
ROXBURY 138 KV NO2 TX_Z	L500.Conastone-PeachBottom.5012	14	Internal PJM	Transmission Outage
Sandburg xfmr 3 l/o Oak Grove - Sandburg 345 kV		123	M2M Flowgate	Network Load
SEDGEHIL230 KV TX1_I	L500.Clover-Rawlings.556	185	Internal PJM	Transmission Outage
SEDGEHIL230 KV TX2_I	L500.Clover-Rawlings.556	165	Internal PJM	Transmission Outage
Sub85 - Sub18 161 flo OakGrove - Louisa 345		20	M2M Flowgate	Network Load
Sullivan-Petersburg 345 l/o Rockport-Jefferson 765		299	M2M Flowgate	Network Load
TITUSVIL115 KV TIT-UNI_I	L345.ErieWest-Wayne.3004	39	Internal PJM	Transmission Outage
TMI 500 KV 1 BANK_I	L500.Conastone-PeachBottom.5012	56	Internal PJM	Network Load
UTICAJCT115 KV UTI-WAY_I	L345.HandsomeLake-Wayne	61	Internal PJM	Transmission Outage
Wilson XF 2 161/345 l/o Wilson XF 1 345/161		9	M2M Flowgate	Network Load

Listed below are the aggregate MW quantities, by source and sinks, of infeasible ARRs in Stage 1A of the 2021/2022 Annual ARR Allocation.

Source	Sink	Infeasible MW Quantity
100 SHAD34.5 KV GSG6WF	COMED_RESID_AGG	3.7
107 DIXO34.5 KV SUBLETTE	COMED_RESID_AGG	0.8
139 MEND34.5 KV WBROOKWF	COMED_RESID_AGG	0.9
4 QUAD C18 KV QC-1	BATAVIA	2.5
4 QUAD C18 KV QC-1	COMED_RESID_AGG	547.1
4 QUAD C18 KV QC-1	GENEVA	1.3
4 QUAD C18 KV QC-1	N ILLINOIS HUB	106.4
4 QUAD C18 KV QC-1	NAPERVILLE	9
4 QUAD C18 KV QC-1	ROCHELLE	0.8
4 QUAD C18 KV QC-1	ST. CHARLES	3.1
4 QUAD C18 KV QC-2	BATAVIA	2.5
4 QUAD C18 KV QC-2	COMED_RESID_AGG	547.5
4 QUAD C18 KV QC-2	GENEVA	1.3
4 QUAD C18 KV QC-2	N ILLINOIS HUB	248.1
4 QUAD C18 KV QC-2	NAPERVILLE	9
4 QUAD C18 KV QC-2	ROCHELLE	0.8
4 QUAD C18 KV QC-2	ST. CHARLES	3.1
6 BYRON 25 KV BY-1	BATAVIA	1
6 BYRON 25 KV BY-1	COMED_RESID_AGG	414.5
6 BYRON 25 KV BY-1	GENEVA	0.6
6 BYRON 25 KV BY-1	N ILLINOIS HUB	50.9
6 BYRON 25 KV BY-1	NAPERVILLE	6.2
6 BYRON 25 KV BY-1	ST. CHARLES	1.2
6 BYRON 25 KV BY-2	BATAVIA	1
6 BYRON 25 KV BY-2	COMED_RESID_AGG	403.7
6 BYRON 25 KV BY-2	GENEVA	0.6
6 BYRON 25 KV BY-2	N ILLINOIS HUB	118.8
6 BYRON 25 KV BY-2	NAPERVILLE	6
6 BYRON 25 KV BY-2	ST. CHARLES	1.2
937 LEE 13.5 KV LEE31-1	BATAVIA	0.2
937 LEE 13.5 KV LEE31-1	COMED_RESID_AGG	44.8
937 LEE 13.5 KV LEE31-1	GENEVA	0.1
937 LEE 13.5 KV LEE31-1	NAPERVILLE	0.7
937 LEE 13.5 KV LEE31-1	ST. CHARLES	0.2
937 LEE 13.5 KV LEE31-2	BATAVIA	0.2
937 LEE 13.5 KV LEE31-2	COMED_RESID_AGG	44.8
937 LEE 13.5 KV LEE31-2	GENEVA	0.1

Source	Sink	Infeasible MW Quantity
937 LEE 13.5 KV LEE31-2	NAPERVILLE	0.7
937 LEE 13.5 KV LEE31-2	ST. CHARLES	0.2
937 LEE 13.5 KV LEE32-1	BATAVIA	0.1
937 LEE 13.5 KV LEE32-1	COMED_RESID_AGG	23.2
937 LEE 13.5 KV LEE32-1	GENEVA	0.1
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	BATAVIA	0.1
937 LEE 13.5 KV LEE32-2	COMED_RESID_AGG	23.2
937 LEE 13.5 KV LEE32-2	GENEVA	0.1
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	0.2
937 LEE 13.5 KV LEE33-1	COMED_RESID_AGG	44
937 LEE 13.5 KV LEE33-1	GENEVA	0.1
937 LEE 13.5 KV LEE33-1	NAPERVILLE	0.7
937 LEE 13.5 KV LEE33-1	ST. CHARLES	0.2
937 LEE 13.5 KV LEE33-2	BATAVIA	0.2
937 LEE 13.5 KV LEE33-2	COMED_RESID_AGG	43.9
937 LEE 13.5 KV LEE33-2	GENEVA	0.1
937 LEE 13.5 KV LEE33-2	NAPERVILLE	0.7
937 LEE 13.5 KV LEE33-2	ST. CHARLES	0.2
937 LEE 13.5 KV LEE34-1	BATAVIA	0.1
937 LEE 13.5 KV LEE34-1	COMED_RESID_AGG	23
937 LEE 13.5 KV LEE34-1	GENEVA	0.1
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	BATAVIA	0.1
937 LEE 13.5 KV LEE34-2	COMED_RESID_AGG	23
937 LEE 13.5 KV LEE34-2	GENEVA	0.1
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	0.4
940 CORD18 KV CD-1	COMED_RESID_AGG	93
940 CORD18 KV CD-1	GENEVA	0.2
940 CORD18 KV CD-1	NAPERVILLE	1.5
940 CORD18 KV CD-1	ROCHELLE	0.1
940 CORD18 KV CD-1	ST. CHARLES	0.5
940 CORD18 KV CD-2	BATAVIA	0.4
940 CORD18 KV CD-2	COMED_RESID_AGG	92.8

Source	Sink	Infeasible MW Quantity
940 CORD18 KV CD-2	GENEVA	0.2
940 CORD18 KV CD-2	NAPERVILLE	1.5
940 CORD18 KV CD-2	ROCHELLE	0.1
940 CORD18 KV CD-2	ST. CHARLES	0.5
952 ROCK16 KV RO11	COMED_RESID_AGG	36.6
952 ROCK16 KV RO11	NAPERVILLE	0.6
952 ROCK16 KV RO12	COMED_RESID_AGG	36.2
952 ROCK16 KV RO12	NAPERVILLE	0.6
959ERDBS34.5 KV BSWFBRS1	BATAVIA	0.1
959ERDBS34.5 KV BSWFBRS1	COMED_RESID_AGG	18.8
959ERDBS34.5 KV BSWFBRS1	GENEVA	0.1
959ERDBS34.5 KV BSWFBRS1	NAPERVILLE	0.3
959ERDBS34.5 KV BSWFBRS1	ST. CHARLES	0.1
969 ECOG34.5 KV LENAWF	COMED_RESID_AGG	5.7
969 ECOG34.5 KV LENAWF	NAPERVILLE	0.1
982 ROCK16 KV RO21	COMED_RESID_AGG	29.2
982 ROCK16 KV RO21	NAPERVILLE	0.6
ASYLUM 23 KV LIBRTY10	BGE_RESID_AGG	16.4
ASYLUM 23 KV LIBRTY10	PENELEC_RESID_AGG	134.3
ASYLUM 23 KV LIBRTY10	PEPCO DC	4.9
ASYLUM 23 KV LIBRTY10	PEPCO MD	6.9
ASYLUM 23 KV LIBRTY10	SMECO_RESID_AGG	1.2
ASYLUM 23 KV LIBRTY10	WELLSBORO	1.2
BIRDBORO23 KV CT1	PENELEC_RESID_AGG	112.5
BIRDBORO23 KV CT1	WELLSBORO	1
BLAIRSVE22 KV CONMDMUN	PENELEC_RESID_AGG	4.5
BLOSSBUR13 KV UNITCT	PENELEC_RESID_AGG	19.6
BLOSSBUR13 KV UNITCT	WELLSBORO	0.3
BLUECREE34.5 KV BLUEC3WF	AEPAPCO_RESID_AGG	1.5
BLUECREE34.5 KV BLUEC3WF	AEPKY_RESID_AGG	1.7
BLUECREE34.5 KV BLUEC3WF	AEPOHIO W.O. MON POWER	2.7
BLUECREE34.5 KV BLUEC3WF	AMP-ATSI OH	0.8
BLUECREE34.5 KV BLUEC3WF	AMP-OHIO	0.1
BLUECREE34.5 KV BLUEC3WF	BLUE RIDGE	0.6
BLUECREE34.5 KV BLUEC3WF	CPP	0.8
CLIFTYCR15.5 KV CC1	AEPAPCO_RESID_AGG	92.7
CLIFTYCR15.5 KV CC1	APS_RESID_AGG	8.8
CLIFTYCR15.5 KV CC1	DAY_RESID_AGG	32.1
CLOVER 25 KV G1	DOM_RESID_AGG	253.7
CLOVER 25 KV G2	DOM_RESID_AGG	252.4

Source	Sink	Infeasible MW Quantity
CONEMAUG115 KV DIESEL	BGE_RESID_AGG	0.1
CONEMAUG22 KV UNIT 1	AMP-METED	0.4
CONEMAUG22 KV UNIT 1	BGE_RESID_AGG	40.3
CONEMAUG22 KV UNIT 1	METED	9.8
CONEMAUG22 KV UNIT 1	METED_RESID_AGG	87.2
CONEMAUG22 KV UNIT 1	PEPCO DC	8.7
CONEMAUG22 KV UNIT 1	PEPCO MD	11.4
CONEMAUG22 KV UNIT 1	PPL_RESID_AGG	0.4
CONEMAUG22 KV UNIT 1	PSEG_RESID_AGG	0.1
CONEMAUG22 KV UNIT 1	SMECO_RESID_AGG	3.5
CONEMAUG22 KV UNIT02	AMP-METED	0.4
CONEMAUG22 KV UNIT02	BGE_RESID_AGG	40.1
CONEMAUG22 KV UNIT02	METED	9.8
CONEMAUG22 KV UNIT02	METED_RESID_AGG	80
CONEMAUG22 KV UNIT02	PEPCO DC	8.7
CONEMAUG22 KV UNIT02	PEPCO MD	11.4
CONEMAUG22 KV UNIT02	PSEG_RESID_AGG	0.1
CONEMAUG22 KV UNIT02	SMECO_RESID_AGG	3.5
CONOWING13 KV G10	PECO_RESID_AGG	0.1
CONOWING13 KV G11	PECO_RESID_AGG	0.1
CONOWING13 KV GEN8	PECO_RESID_AGG	0.1
CONOWING13 KV GEN9	PECO_RESID_AGG	0.1
COOK 26 KV CK1	AEPAPCO_RESID_AGG	242.9
COOK 26 KV CK1	AEPKY_RESID_AGG	42.4
COOK 26 KV CK1	AEPOHIO W.O. MON POWER	203.5
COOK 26 KV CK1	AMP-OHIO	2
COOK 26 KV CK1	BLUE RIDGE	12.7
COOK 26 KV CK1	BUCK-CIN	0.4
COOK 26 KV CK1	BUCKEYE - AEPOH	4.2
COOK 26 KV CK1	BUCKEYE - DPL	1.5
COOK 26 KV CK1	BUCK-FE	1.1
COOK 26 KV CK2	AEPAPCO_RESID_AGG	251.7
COOK 26 KV CK2	AEPKY_RESID_AGG	43.7
COOK 26 KV CK2	AEPOHIO W.O. MON POWER	183
COOK 26 KV CK2	AMP-OHIO	1.9
COOK 26 KV CK2	BLUE RIDGE	13.2
COOK 26 KV CK2	BUCK-CIN	0.4
COOK 26 KV CK2	BUCKEYE - AEPOH	4.1
COOK 26 KV CK2	BUCKEYE - DPL	1.5
COOK 26 KV CK2	BUCK-FE	1.2

Source	Sink	Infeasible MW Quantity
COOP_EK 13.8 KV COOPER01	EKPC-DEOK LOAD	0.9
COOP_EK 20 KV COOPER02	EKPC-DEOK LOAD	1.7
CORNU 18 KV 1GT1	BUCK-CIN	0.1
COVERT 16 KV 1GTG	AEPAPCO_RESID_AGG	34.3
COVERT 16 KV 1GTG	AEPKY_RESID_AGG	44.7
COVERT 16 KV 1GTG	AEPOHIO W.O. MON POWER	272.3
COVERT 16 KV 1GTG	AK STEEL	0.5
COVERT 16 KV 1GTG	AMP-OHIO	2.9
COVERT 16 KV 1GTG	BLUE RIDGE	13.2
COVERT 16 KV 1GTG	BUCK-CIN	0.5
COVERT 16 KV 1GTG	BUCKEYE - AEPOH	6.6
COVERT 16 KV 1GTG	BUCKEYE - DPL	2.1
COVERT 16 KV 1GTG	BUCK-FE	1.8
DEEPCRK 12 KV NO 1 G	PENELEC_RESID_AGG	0.3
DEEPCRK 12 KV NO 2 G	PENELEC_RESID_AGG	0.2
DELA DPL13 KV G1	DPL_ODEC	3.1
DELA DPL13 KV G10	DPL_ODEC	1
DELA DPL13 KV G2	DPL_ODEC	3.2
DLTAPLNT13.8 KV GEN1	AMP-ATSI OH	0.8
DLTAPLNT13.8 KV GEN1	BGE_RESID_AGG	11.5
DLTAPLNT13.8 KV GEN1	CPP	0.6
DLTAPLNT13.8 KV GEN1	DEOK_RESID_AGG	26.7
DLTAPLNT13.8 KV GEN1	DUQ_RESID_AGG	4.1
DLTAPLNT13.8 KV GEN1	EKPC_RESID_AGG	2.1
DLTAPLNT13.8 KV GEN1	EKPC-DEOK LOAD	0.1
DLTAPLNT13.8 KV GEN1	FEOHIO_RESID_AGG	16.1
DLTAPLNT13.8 KV GEN1	PENNPOWER_RESID_AGG	0.2
DLTAPLNT13.8 KV GEN1	PEPCO DC	5.6
DLTAPLNT13.8 KV GEN1	PEPCO MD	8.1
DLTAPLNT13.8 KV GEN1	SMECO_RESID_AGG	1.4
DLTAPLNT13.8 KV GEN2	AMP-ATSI OH	0.9
DLTAPLNT13.8 KV GEN2	BGE_RESID_AGG	12.1
DLTAPLNT13.8 KV GEN2	CPP	0.6
DLTAPLNT13.8 KV GEN2	DEOK_RESID_AGG	28
DLTAPLNT13.8 KV GEN2	DUQ_RESID_AGG	4.7
DLTAPLNT13.8 KV GEN2	EKPC_RESID_AGG	2.3
DLTAPLNT13.8 KV GEN2	EKPC-DEOK LOAD	0.1
DLTAPLNT13.8 KV GEN2	FEOHIO_RESID_AGG	17.4
DLTAPLNT13.8 KV GEN2	PENNPOWER_RESID_AGG	0.2
DLTAPLNT13.8 KV GEN2	PEPCO DC	5.9

Source	Sink	Infeasible MW Quantity
DLTAPLNT13.8 KV GEN2	PEPCO MD	8
DLTAPLNT13.8 KV GEN2	SMECO_RESID_AGG	1.6
DLTAPLNT13.8 KV GEN3	AMP-ATSI OH	0.9
DLTAPLNT13.8 KV GEN3	BGE_RESID_AGG	12.1
DLTAPLNT13.8 KV GEN3	CPP	0.6
DLTAPLNT13.8 KV GEN3	DEOK_RESID_AGG	27.6
DLTAPLNT13.8 KV GEN3	DUQ_RESID_AGG	4.7
DLTAPLNT13.8 KV GEN3	EKPC_RESID_AGG	2.3
DLTAPLNT13.8 KV GEN3	EKPC-DEOK LOAD	0.1
DLTAPLNT13.8 KV GEN3	FEOHIO_RESID_AGG	17.4
DLTAPLNT13.8 KV GEN3	PENNPOWER_RESID_AGG	0.2
DLTAPLNT13.8 KV GEN3	PEPCO DC	5.6
DLTAPLNT13.8 KV GEN3	PEPCO MD	8
DLTAPLNT13.8 KV GEN3	SMECO_RESID_AGG	1.5
DLTAPLNT18 KV GEN4	AMP-ATSI OH	1.3
DLTAPLNT18 KV GEN4	AMP-ATSI PA	0.1
DLTAPLNT18 KV GEN4	BGE_RESID_AGG	15.1
DLTAPLNT18 KV GEN4	CPP	0.9
DLTAPLNT18 KV GEN4	DEOK_RESID_AGG	38.4
DLTAPLNT18 KV GEN4	DUQ_RESID_AGG	7.4
DLTAPLNT18 KV GEN4	EKPC_RESID_AGG	3.5
DLTAPLNT18 KV GEN4	EKPC-DEOK LOAD	0.1
DLTAPLNT18 KV GEN4	FEOHIO_RESID_AGG	28.6
DLTAPLNT18 KV GEN4	PENNPOWER_RESID_AGG	0.4
DLTAPLNT18 KV GEN4	PEPCO DC	6.5
DLTAPLNT18 KV GEN4	PEPCO MD	9.3
DLTAPLNT18 KV GEN4	SMECO_RESID_AGG	2
DLTAPLNT18 KV ST7	BGE_RESID_AGG	219.2
EBEND 20 KV EB2	DEK	136.1
EBEND 20 KV EB2	EKPC_RESID_AGG	5.3
EBENSBUR13 KV NUG GE	PENELEC_RESID_AGG	39
EDGEMOOR13 KV HAYRD1	DPL_ODEC	0.9
EDGEMOOR13 KV HAYRD2	DPL_ODEC	0.1
EDGEMOOR13 KV HAYRD3	DPL_ODEC	7.2
EDGEMOOR13 KV HAYRD4	DPL_ODEC	10.3
EDGEMOOR13 KV HAYRD5	AMP-ATSI OH	1
EDGEMOOR13 KV HAYRD5	BGE_RESID_AGG	11.9
EDGEMOOR13 KV HAYRD5	CPP	0.8
EDGEMOOR13 KV HAYRD5	DEOK_RESID_AGG	29.8
EDGEMOOR13 KV HAYRD5	EKPC_RESID_AGG	3

Source	Sink	Infeasible MW Quantity
EDGEMOOR13 KV HAYRD5	EKPC-DEOK LOAD	0.1
EDGEMOOR13 KV HAYRD5	FEOHIO_RESID_AGG	39
EDGEMOOR13 KV HAYRD5	PENNPOWER_RESID_AGG	0.3
EDGEMOOR13 KV HAYRD5	PEPCO DC	5.5
EDGEMOOR13 KV HAYRD5	PEPCO MD	7.9
EDGEMOOR13 KV HAYRD5	SMECO_RESID_AGG	1.6
EDGEMOOR13 KV HAYRD6	AMP-ATSI OH	1
EDGEMOOR13 KV HAYRD6	BGE_RESID_AGG	11.8
EDGEMOOR13 KV HAYRD6	CPP	0.8
EDGEMOOR13 KV HAYRD6	DEOK_RESID_AGG	29.7
EDGEMOOR13 KV HAYRD6	EKPC_RESID_AGG	3
EDGEMOOR13 KV HAYRD6	EKPC-DEOK LOAD	0.1
EDGEMOOR13 KV HAYRD6	FEOHIO_RESID_AGG	39
EDGEMOOR13 KV HAYRD6	PENNPOWER_RESID_AGG	0.3
EDGEMOOR13 KV HAYRD6	PEPCO DC	5.5
EDGEMOOR13 KV HAYRD6	PEPCO MD	8
EDGEMOOR13 KV HAYRD6	SMECO_RESID_AGG	1.6
EDGEMOOR13 KV HAYRD7	AMP-ATSI OH	1
EDGEMOOR13 KV HAYRD7	BGE_RESID_AGG	11.9
EDGEMOOR13 KV HAYRD7	CPP	0.8
EDGEMOOR13 KV HAYRD7	DEOK_RESID_AGG	29.8
EDGEMOOR13 KV HAYRD7	EKPC_RESID_AGG	3
EDGEMOOR13 KV HAYRD7	EKPC-DEOK LOAD	0.1
EDGEMOOR13 KV HAYRD7	FEOHIO_RESID_AGG	39
EDGEMOOR13 KV HAYRD7	PENNPOWER_RESID_AGG	0.3
EDGEMOOR13 KV HAYRD7	PEPCO DC	5.2
EDGEMOOR13 KV HAYRD7	PEPCO MD	7.7
EDGEMOOR13 KV HAYRD7	SMECO_RESID_AGG	1.6
EDGEMOOR13 KV UNIT03	DPL_ODEC	0.1
EDGEMOOR18 KV HAYRD8	AMP-ATSI OH	1.5
EDGEMOOR18 KV HAYRD8	AMP-ATSI PA	0.1
EDGEMOOR18 KV HAYRD8	BGE_RESID_AGG	15
EDGEMOOR18 KV HAYRD8	CPP	1.1
EDGEMOOR18 KV HAYRD8	DEOK_RESID_AGG	41.6
EDGEMOOR18 KV HAYRD8	EKPC_RESID_AGG	4.5
EDGEMOOR18 KV HAYRD8	EKPC-DEOK LOAD	0.1
EDGEMOOR18 KV HAYRD8	FEOHIO_RESID_AGG	50.4
EDGEMOOR18 KV HAYRD8	PENNPOWER_RESID_AGG	0.7
EDGEMOOR18 KV HAYRD8	PEPCO DC	6.1
EDGEMOOR18 KV HAYRD8	PEPCO MD	8.9

Source	Sink	Infeasible MW Quantity
EDGEMOOR18 KV HAYRD8	SMECO_RESID_AGG	2.1
EDGEMOOR23 KV UNIT05	DPL_ODEC	25.5
ELKHYDRO4 KV ELK	AEPAPCO_RESID_AGG	0.6
ELKHYDRO4 KV ELK	AEPKY_RESID_AGG	0.1
ELKHYDRO4 KV ELK	AEPOHIO W.O. MON POWER	0.1
ELKHYDRO4 KV ELK	BLUE RIDGE	0.3
EVERTSUB34.5 KV ARMENIA	APS_RESID_AGG	1.2
FAIRVWEC21 KV S1	AMP-METED	0.5
FAIRVWEC21 KV S1	METED	11.5
FAIRVWEC21 KV S1	METED_RESID_AGG	88.1
FAIRVWEC21 KV S1	PENELEC_RESID_AGG	154.8
FAIRVWEC21 KV S1	WELLSBORO	1.4
FOOTHILL18 KV UNIT 4	AECO_RESID_AGG	0.1
FOOTHILL18 KV UNIT 4	AMP-ATSI OH	0.6
FOOTHILL18 KV UNIT 4	BGE_RESID_AGG	3.1
FOOTHILL18 KV UNIT 4	CPP	0.3
FOOTHILL18 KV UNIT 4	DEOK_RESID_AGG	28.9
FOOTHILL18 KV UNIT 4	EKPC-DEOK LOAD	0.1
FOOTHILL18 KV UNIT 4	FEOHIO_RESID_AGG	6.6
FOOTHILL18 KV UNIT 5	AECO_RESID_AGG	0.1
FOOTHILL18 KV UNIT 5	AMP-ATSI OH	0.6
FOOTHILL18 KV UNIT 5	BGE_RESID_AGG	3.1
FOOTHILL18 KV UNIT 5	CPP	0.3
FOOTHILL18 KV UNIT 5	DEOK_RESID_AGG	28.6
FOOTHILL18 KV UNIT 5	EKPC-DEOK LOAD	0.1
FOOTHILL18 KV UNIT 5	FEOHIO_RESID_AGG	6.6
FOWLER 34.5 KV FWL2-1WF	AEPOHIO W.O. MON POWER	1.9
FOWLER 34.5 KV FWL2-2WF	AEPOHIO W.O. MON POWER	1.9
FOWLER 34.5 KV FWL2-3WF	AEPOHIO W.O. MON POWER	1.9
FOWLER 34.5 KV FWL2-4WF	AEPOHIO W.O. MON POWER	1.8
FOWLER 34.5 KV FWLR1AWF	AEPAPCO_RESID_AGG	3.3
FOWLER 34.5 KV FWLR1AWF	AEPKY_RESID_AGG	0.5
FOWLER 34.5 KV FWLR1AWF	AEPOHIO W.O. MON POWER	1.5
FOWLER 34.5 KV FWLR1AWF	BLUE RIDGE	0.5
FOWLER 34.5 KV FWLR1BWF	AEPAPCO_RESID_AGG	3.2
FOWLER 34.5 KV FWLR1BWF	AEPKY_RESID_AGG	0.5
FOWLER 34.5 KV FWLR1BWF	AEPOHIO W.O. MON POWER	1.5
FOWLER 34.5 KV FWLR1BWF	BLUE RIDGE	0.5
FOWLER 34.5 KV FWLR3WF	AEPAPCO_RESID_AGG	11.5
FRONTROY21 KV WARCOST1	DOM_RESID_AGG	100

Source	Sink	Infeasible MW Quantity
FTMARTIN22 KV GEN 1	LIDA - AP	0.4
FTMARTIN22 KV GEN 2	LIDA - AP	0.4
GRAYFR_113 KV 1 GEN	AMP-ATSI OH	1.4
GRAYFR_113 KV 1 GEN	AMP-ATSI PA	0.1
GRAYFR_113 KV 1 GEN	BGE_RESID_AGG	12.3
GRAYFR_113 KV 1 GEN	CPP	1
GRAYFR_113 KV 1 GEN	DEOK_RESID_AGG	36.8
GRAYFR_113 KV 1 GEN	EKPC_RESID_AGG	4
GRAYFR_113 KV 1 GEN	EKPC-DEOK LOAD	0.1
GRAYFR_113 KV 1 GEN	FEOHIO_RESID_AGG	44.6
GRAYFR_113 KV 1 GEN	PENNPOWER_RESID_AGG	0.6
GRAYFR_113 KV 1 GEN	PEPCO DC	5.5
GRAYFR_113 KV 1 GEN	PEPCO MD	7.4
GRAYFR_113 KV 1 GEN	SMECO_RESID_AGG	2
GREENUP	DEOK_RESID_AGG	29.1
HANDSOME13 KV CT1	PENELEC_RESID_AGG	0.1
HANDSOME13 KV CT2	PENELEC_RESID_AGG	0.1
HANDSOME13 KV CT3	PENELEC_RESID_AGG	0.1
HANDSOME13 KV CT4	PENELEC_RESID_AGG	0.1
HANDSOME13 KV CT5	PENELEC_RESID_AGG	0.1
HARR APS20 KV GEN 1	LIDA - AP	0.2
HOMERCIT20 KV UNIT 1	PENELEC_RESID_AGG	288.4
HOMERCIT20 KV UNIT 2	PENELEC_RESID_AGG	43.7
HOMERCIT24 KV UNIT 3	PENELEC_RESID_AGG	17.6
JKSMT_EK13.8 KV JKSMT1	EKPC-DEOK LOAD	0.8
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	0.4
KEYSTNE 13 KV _UN1__15	DAY_RESID_AGG	32.7
KEYSTNE 13 KV _UN2__15	DAY_RESID_AGG	32.3
KEYSTNE 13 KV _UN3__15	DAY_RESID_AGG	32.5
KEYSTNE 13 KV _UN4__15	DAY_RESID_AGG	32.2
KEYSTONE20 KV UNIT 1	BGE_RESID_AGG	78.2
KEYSTONE20 KV UNIT 1	PPL_RESID_AGG	0.1
KEYSTONE20 KV UNIT 2	BGE_RESID_AGG	78
KEYSTONE20 KV UNIT 2	PPL_RESID_AGG	0.1
KEYSTONE20 KV UNIT 3	BGE_RESID_AGG	0.4

Source	Sink	Infeasible MW Quantity
KYGERCRE15.5 KV KY1	DAY_RESID_AGG	16.2
LAURELDM13.8 KV LAUREL	EKPC-DEOK LOAD	0.5
LAWRENC218 KV S1	AEPAPCO_RESID_AGG	61
LAWRENC218 KV S1	AEPKY_RESID_AGG	12
LAWRENC218 KV S1	BLUE RIDGE	2.6
LAWRENC218 KV S1	BUCK-CIN	0.1
LAWRENC218 KV S1	BUCK-FE	0.3
LAWRENC218 KV S1	EKPC_RESID_AGG	18.1
LAWRENC218 KV S1	EKPC-DEOK LOAD	0.1
LAWRENC218 KV S2	AEPAPCO_RESID_AGG	1.7
LAWRENC218 KV S2	AEPKY_RESID_AGG	12
LAWRENC218 KV S2	BLUE RIDGE	2.6
LAWRENC218 KV S2	BUCK-CIN	0.1
LAWRENC218 KV S2	BUCK-FE	0.3
LAWRENC218 KV S2	EKPC_RESID_AGG	18.1
LAWRENC218 KV S2	EKPC-DEOK LOAD	0.1
LINWDPE 18 KV STM	AMP-ATSI OH	5.9
LINWDPE 18 KV STM	AMP-ATSI PA	0.4
LINWDPE 18 KV STM	BGE_RESID_AGG	46.8
LINWDPE 18 KV STM	CPP	4.1
LINWDPE 18 KV STM	DEOK_RESID_AGG	148
LINWDPE 18 KV STM	DUQ_RESID_AGG	53.9
LINWDPE 18 KV STM	EKPC_RESID_AGG	17.6
LINWDPE 18 KV STM	EKPC-DEOK LOAD	0.3
LINWDPE 18 KV STM	FEOHIO_RESID_AGG	160
LINWDPE 18 KV STM	PENNPOWER_RESID_AGG	5.2
LINWDPE 18 KV STM	PEPCO DC	17.8
LINWDPE 18 KV STM	PEPCO MD	23.2
LINWDPE 18 KV STM	SMECO_RESID_AGG	7
LINWDPE 18 KV STM	WILLIAMSTOWN	0.2
MELDDAM 13.8 KV GEN_1	DEOK_RESID_AGG	2.3
MISO	AEC - AP	3.3
MISO	AEPAPCO_RESID_AGG	112.3
MISO	AEPKY_RESID_AGG	11.1
MISO	AEPOHIO W.O. MON POWER	118.3
MISO	AK STEEL	0.2
MISO	AMP-OHIO	11.4
MISO	APS_RESID_AGG	204.3
MISO	BLUE RIDGE	5.8
MISO	BUCK-CIN	0.2

Source	Sink	Infeasible MW Quantity
MISO	BUCKEYE - AEPOH	2.5
MISO	BUCKEYE - DPL	0.7
MISO	BUCK-FE	0.6
MISO	DAY_RESID_AGG	45.3
MISO	HREA - AP	0.5
MISO	LIDA - AP	0.2
MISO	MON POWER	3.5
MISO	NEWMARTINSVILLE-AP	0.2
MISO	PHILIPPI - AP	0.1
MTNTOP 34.5 KV MHOOPWF2	APS_RESID_AGG	2.9
MTNTOP 34.5 KV MHOOPWF2	DPL_ODEC	3
MTSTORM422 KV G1	DOM_RESID_AGG	10
MTSTORM422 KV G2	DOM_RESID_AGG	10.1
MTSTORM422 KV G3	DOM_RESID_AGG	9.6
MTSTORM435 KV GT1	DOM_RESID_AGG	0.2
NLONGVW 26 KV GEN 1	LIDA - AP	0.5
NYIS	AMP-OHIO	2.3
NYIS	BUCKEYE - AEPIM	0.2
NYIS	BUCKEYE - AEPOH	26.5
NYIS	BUCKEYE - DPL	7.1
NYIS	PENELEC_RESID_AGG	24.9
PAULDNG334.5 KV PAUL3WF	AEPAPCO_RESID_AGG	5
PAULDNG334.5 KV PAUL3WF	AEPKY_RESID_AGG	0.8
PAULDNG334.5 KV PAUL3WF	BLUE RIDGE	0.5
PEACHBOT22 KV UNIT02	DPL_ODEC	5.2
PEACHBOT22 KV UNIT03	DPL_ODEC	5.2
PLEA APS26 KV GEN 1	LIDA - AP	0.5
PLYWOOD 13.8 KV PLYWODBI	DOM_RESID_AGG	25.9
PRINTZ 18 KV STG	AMP-ATSI OH	4.8
PRINTZ 18 KV STG	AMP-ATSI PA	0.3
PRINTZ 18 KV STG	BGE_RESID_AGG	37.4
PRINTZ 18 KV STG	CPP	3.3
PRINTZ 18 KV STG	DEOK_RESID_AGG	121
PRINTZ 18 KV STG	EKPC_RESID_AGG	13.9
PRINTZ 18 KV STG	EKPC-DEOK LOAD	0.3
PRINTZ 18 KV STG	FEOHIO_RESID_AGG	129.2
PRINTZ 18 KV STG	PENNPOWER_RESID_AGG	3.7
PRINTZ 18 KV STG	PEPCO DC	14.5
PRINTZ 18 KV STG	PEPCO MD	19.2
PRINTZ 18 KV STG	SMECO_RESID_AGG	5.7

Source	Sink	Infeasible MW Quantity
PRINTZ 18 KV STG	WILLIAMSTOWN	0.1
PSEGGLOB18 KV 6	AECO_RESID_AGG	0.1
PSEGGLOB18 KV 6	AMP-ATSI OH	0.4
PSEGGLOB18 KV 6	BGE_RESID_AGG	3.6
PSEGGLOB18 KV 6	DEOK_RESID_AGG	32.7
PSEGGLOB18 KV 6	EKPC-DEOK LOAD	0.1
PSEGGLOB18 KV 6	FEOHIO_RESID_AGG	3.7
PSEGGLOB18 KV 7	AECO_RESID_AGG	0.1
PSEGGLOB18 KV 7	AMP-ATSI OH	0.4
PSEGGLOB18 KV 7	BGE_RESID_AGG	3.6
PSEGGLOB18 KV 7	DEOK_RESID_AGG	32.3
PSEGGLOB18 KV 7	EKPC-DEOK LOAD	0.1
PSEGGLOB18 KV 7	FEOHIO_RESID_AGG	3.7
PSEGGLOB18 KV 8	AECO_RESID_AGG	0.1
PSEGGLOB18 KV 8	AMP-ATSI OH	0.4
PSEGGLOB18 KV 8	BGE_RESID_AGG	3.6
PSEGGLOB18 KV 8	DEOK_RESID_AGG	31.5
PSEGGLOB18 KV 8	EKPC-DEOK LOAD	0.1
PSEGGLOB18 KV 8	FEOHIO_RESID_AGG	3.7
PSEGGLOB22 KV 5	AECO_RESID_AGG	0.1
PSEGGLOB22 KV 5	AMP-ATSI OH	0.9
PSEGGLOB22 KV 5	BGE_RESID_AGG	8.8
PSEGGLOB22 KV 5	DEOK_RESID_AGG	67.5
PSEGGLOB22 KV 5	EKPC-DEOK LOAD	0.2
PSEGGLOB22 KV 5	FEOHIO_RESID_AGG	9
RAYSTOWN46 KV RAYSUN	PENELEC_RESID_AGG	6
ROCKPOR226 KV RP1	AEPAPCO_RESID_AGG	44.6
ROCKPOR226 KV RP1	AEPIM_RESID_AGG	115.2
ROCKPOR226 KV RP1	AEPKY_RESID_AGG	58.4
ROCKPOR226 KV RP1	AEPOHIO W.O. MON POWER	282.2
ROCKPOR226 KV RP1	AMP-OHIO	3.1
ROCKPOR226 KV RP1	BLUE RIDGE	12.6
ROCKPOR226 KV RP1	BUCK-CIN	0.4
ROCKPOR226 KV RP1	BUCKEYE - AEPOH	6.2
ROCKPOR226 KV RP1	BUCKEYE - DPL	2.1
ROCKPOR226 KV RP1	BUCK-FE	1.9
ROCKPOR226 KV RP2	AEPAPCO_RESID_AGG	39
ROCKPOR226 KV RP2	AEPIM_RESID_AGG	113.9
ROCKPOR226 KV RP2	AEPKY_RESID_AGG	57.8
ROCKPOR226 KV RP2	AEPOHIO W.O. MON POWER	282.4

Source	Sink	Infeasible MW Quantity
ROCKPOR226 KV RP2	AMP-OHIO	3.1
ROCKPOR226 KV RP2	BLUE RIDGE	12.5
ROCKPOR226 KV RP2	BUCK-CIN	0.4
ROCKPOR226 KV RP2	BUCKEYE - AEPOH	6.1
ROCKPOR226 KV RP2	BUCKEYE - DPL	2
ROCKPOR226 KV RP2	BUCK-FE	1.9
ROCKSPRI18 KV CT3	DPL_ODEC	0.9
ROCKSPRI18 KV CT4	DPL_ODEC	0.9
ROCKSPRI24 KV WCATSTG	APS_RESID_AGG	36.8
ROCKSPRI24 KV WCATSTG	DPL_ODEC	33.2
RONCO 18 KV CT1	LIDA - AP	0.1
RONCO 18 KV CT2	LIDA - AP	0.1
RONCO 18 KV STM	LIDA - AP	0.2
RPMONE 18 KV 1	AEPAPCO_RESID_AGG	34.2
RPMONE 18 KV 1	AEPKY_RESID_AGG	5.9
RPMONE 18 KV 1	AEPOHIO W.O. MON POWER	9.9
RPMONE 18 KV 1	BLUE RIDGE	1.8
RPMONE 18 KV 1	BUCK-CIN	0.1
RPMONE 18 KV 1	BUCKEYE - AEPOH	0.3
RPMONE 18 KV 1	BUCK-FE	0.2
RPMONE 18 KV 2	AEPAPCO_RESID_AGG	17.2
RPMONE 18 KV 2	AEPKY_RESID_AGG	5.9
RPMONE 18 KV 2	AEPOHIO W.O. MON POWER	9.9
RPMONE 18 KV 2	BLUE RIDGE	1.8
RPMONE 18 KV 2	BUCK-CIN	0.1
RPMONE 18 KV 2	BUCKEYE - AEPOH	0.3
RPMONE 18 KV 2	BUCK-FE	0.2
RPMONE 18 KV 3	AEPAPCO_RESID_AGG	4.6
RPMONE 18 KV 3	AEPKY_RESID_AGG	5.9
RPMONE 18 KV 3	AEPOHIO W.O. MON POWER	9.9
RPMONE 18 KV 3	BLUE RIDGE	1.8
RPMONE 18 KV 3	BUCK-CIN	0.1
RPMONE 18 KV 3	BUCKEYE - AEPOH	0.3
RPMONE 18 KV 3	BUCK-FE	0.2
SAFEHARB13 KV UNIT1	BGE_RESID_AGG	15.7
SAFEHARB13 KV UNIT10	BGE_RESID_AGG	17.4
SAFEHARB13 KV UNIT11	BGE_RESID_AGG	16.8
SAFEHARB13 KV UNIT12	BGE_RESID_AGG	16.8
SAFEHARB13 KV UNIT2	BGE_RESID_AGG	15.7
SAFEHARB13 KV UNIT3	BGE_RESID_AGG	14.3

Source	Sink	Infeasible MW Quantity
SAFEHARB13 KV UNIT4	BGE_RESID_AGG	14.2
SAFEHARB13 KV UNIT5	BGE_RESID_AGG	15.7
SAFEHARB13 KV UNIT6	BGE_RESID_AGG	15.2
SAFEHARB13 KV UNIT7	BGE_RESID_AGG	15.3
SAFEHARB13 KV UNIT8	BGE_RESID_AGG	16.6
SAFEHARB13 KV UNIT9	BGE_RESID_AGG	16.4
SALEM 25 KV SALEM1	DPL_ODEC	4.8
SALEM 25 KV SALEM2	DPL_ODEC	4.8
SBEND 18 KV CT1	AEC - AP	1.1
SBEND 18 KV CT1	LIDA - AP	0.1
SBEND 18 KV CT2	AEC - AP	1.1
SBEND 18 KV CT2	LIDA - AP	0.1
SBEND 18 KV CT3	AEC - AP	1.1
SBEND 18 KV CT3	LIDA - AP	0.1
SBEND 18 KV CT4	AEC - AP	1.1
SBEND 18 KV CT4	LIDA - AP	0.1
SEWARD 22 KV UNIT1	PENELEC_RESID_AGG	493.3
SEWARD 22 KV UNIT1	WELLSBORO	4.5
SHAWVILL4.1 KV DIESEL	PENELEC_RESID_AGG	2.1
SJEC 18 KV STG	AEPAPCO_RESID_AGG	167.9
SJEC 18 KV STG	AEPKY_RESID_AGG	29.2
SJEC 18 KV STG	AEPOHIO W.O. MON POWER	123.8
SJEC 18 KV STG	AMP-OHIO	1.5
SJEC 18 KV STG	BLUE RIDGE	8.7
SJEC 18 KV STG	BUCK-CIN	0.3
SJEC 18 KV STG	BUCKEYE - AEPOH	3
SJEC 18 KV STG	BUCKEYE - DPL	1.2
SJEC 18 KV STG	BUCK-FE	0.9
SPRINGDA13 KV AES 1	AEC - AP	0.3
SPRINGDA13 KV AES 1	APS_RESID_AGG	43.9
SPRINGDA13 KV AES 1	HREA - AP	0.1
SPRINGDA13 KV AES 1	LIDA - AP	0.1
SPRINGDA13 KV AES 1	MON POWER	1.9
SPRINGDA13 KV AES 1	MONT ALTO - AP	0.1
SPRINGDA13 KV AES 1	PHILIPPI - AP	0.1
SPRINGDA13 KV AES 2	AEC - AP	0.3
SPRINGDA13 KV AES 2	APS_RESID_AGG	43.8
SPRINGDA13 KV AES 2	HREA - AP	0.1
SPRINGDA13 KV AES 2	LIDA - AP	0.1
SPRINGDA13 KV AES 2	MON POWER	1.8

Source	Sink	Infeasible MW Quantity
SPRINGDA13 KV AES 2	MONT ALTO - AP	0.1
SPRINGDA13 KV AES 2	PHILIPPI - AP	0.1
SPRINGDA18 KV ST5	AEC - AP	3.6
SPRINGDA18 KV ST5	APS_RESID_AGG	476.5
SPRINGDA18 KV ST5	HREA - AP	1.2
SPRINGDA18 KV ST5	LIDA - AP	0.4
SPRINGDA18 KV ST5	MON POWER	12.8
SPRINGDA18 KV ST5	MONT ALTO - AP	0.1
SPRINGDA18 KV ST5	NEWMARTINSVILLE-AP	0.4
SPRINGDA18 KV ST5	PHILIPPI - AP	0.3
SUSQUEHA24 KV UNIT01	BGE_RESID_AGG	46.5
SUSQUEHA24 KV UNIT01	PENELEC_RESID_AGG	94
SUSQUEHA24 KV UNIT02	BGE_RESID_AGG	46.3
SUSQUEHA24 KV UNIT02	PENELEC_RESID_AGG	94.4
TANNERSC18 KV TC3	MIAMIFOR18 KV G6	138.1
TIDD_AEP24 KV CD2	BUCK-CIN	6.2
TIDD_AEP24 KV CD2	BUCKEYE - DPL	8.1
TIDD_AEP26 KV CD3	BUCK-CIN	6.2
TIDD_AEP26 KV CD3	BUCKEYE - DPL	8.1
WCATWIND34.5 KV WLDCATWF	AEPAPCO_RESID_AGG	0.1
WCATWIND34.5 KV WLDCATWF	AEPOHIO W.O. MON POWER	0.2
WMORELND20 KV CT1	AEC - AP	0.5
WMORELND20 KV CT1	LIDA - AP	0.1
ZELDA 18 KV UNIT 1	BUCK-CIN	0.1
ZELDA 18 KV UNIT 1	BUCK-FE	0.1
ZELDA 18 KV UNIT 2	BUCK-CIN	0.1
ZELDA 18 KV UNIT 2	BUCK-FE	0.1
ZELDA 18 KV UNIT 3	BUCK-CIN	0.1
ZELDA 18 KV UNIT 3	BUCK-FE	0.1
ZIMMER2 25 KV G1	DEOK_RESID_AGG	288