

PJM 2019/2020 Stage 1A Over Allocation Notice

This document is to inform PJM members that Stage 1A of the 2019/2020 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 2019/2020 Annual ARR Allocation and all FTR Auctions effective for the 2019/2020 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
16FiveT - Five Point 138 kV I/o Bedford2 - Columbus 345 kV		8	M2M Flowgate	Transmission Outage
6101-Hennepin 138 I/o Princetp 138 Sub		43	M2M Flowgate	Network Load
Batesville-Hubble 138 I/o Tanners Crk-Miami Fort 345		125	M2M Flowgate	Network Load
BR Tap-Paradise 161kV I/o Marshall-Cumberland 500kV		22	M2M Flowgate	Network Load
BRIDGEVI69 KV BRD-TAT_I	L230.IndianRiver-Milford.23034	52	Internal PJM	Transmission Outage
BRUNNERI230 KV BRU-YOR_I		18	Internal PJM	Transmission Outage
CARL PN 115 KV CAR-GAR_Z	GRANDPT-GUILFORD (APS)	21	Internal PJM	Transmission Outage
Cayuga 345/230 XFMR 9 (fio) Cayuga 345/230 XFMR 10		115	M2M Flowgate	Network Load
Cayuga Starbus TR 9-P I/o Cayuga-Nucor 345		40	Pseudo Tie Flowgate	Transmission Outage
CHURCH 69 KV CHU-NME_I	230/138.CedarCreek.AT20	44	Internal PJM	Transmission Outage
CLIFFORD138 KV CLI-COL1_Z	L230.Bremo-Cartersville-Powhatan-Midlothian.2027	4	Internal PJM	Transmission Outage
CLOVER 230 KV 2068A1_I	L230.Bremo-Cartersville-Powhatan-Midlothian.2027	76	Internal PJM	Transmission Outage
COLLEEN 138 KV COL-SCO1_Z	L230.Bremo-Cartersville-Powhatan-Midlothian.2027	7	Internal PJM	Transmission Outage
COLLEGEC138 KV COL-COL6_I	L345.Tanners Creek-Dearbon1	47	Internal PJM	Transmission Outage
COLLINSV138 KV HUS-COL_I	L345.Tanners Creek-Dearbon1	16	Internal PJM	Transmission Outage

Equipment Name	Contingency Description	Required MW Increase in Capability Limits	Type	Reason for Infeasibility
COOPERPE230 KV COO-GRA_I	L500.PeachBottom-TMI.5007	217	Internal PJM	Transmission Outage
COOPERPE230 KV COO-GRA_I		100	Internal PJM	Transmission Outage
COOPERPE230 KV COO-PEA_Z	L500.PeachBottom-TMI.5007	229	Internal PJM	Transmission Outage
COOPERPE230 KV COO-PEA_Z		113	Internal PJM	Transmission Outage
Eugene-Cayuga 345 kv I/o Jefferson-Greentown 765 kv		128	M2M Flowgate	Transmission Outage
Fargo 345/138 kv Xfmr I/o Duck Creek-Ipava 345 kv		3	M2M Flowgate	Network Load
Fargo XF 3 I/o Maple Rid-Tazewell 345kv		169	M2M Flowgate	Network Load
GRACETON230 KV GRA-SAF_Z	L230.OtterCreek-Conastone.2302	282	Internal PJM	Transmission Outage
GRACETON230 KV GRA-SAF_Z		86	Internal PJM	Transmission Outage
Havana - Elkhart Jct 138 kv I/o Havana S - Havana E 138 kv		10	M2M Flowgate	Network Load
Havana E-Havana S 138 kv I/o Duck Creek-Maple Ridge 345 kv		19	Pseudo Tie Flowgate	Network Load
Havana-Elkhart Jct 138 kv I/o DuckCreek-Tazewell 345 kv		27	Pseudo Tie Flowgate	Network Load
HavanaS-Mason City West 138 I/o Duck Creek-Maple Rid 345		17	M2M Flowgate	Network Load
Hennepin-LTVSteel 138 kv I/o Kendall-Tazewell 345 kv		2	M2M Flowgate	Network Load
Kansas-Sidney 345 kv		11	M2M Flowgate	Transmission Outage
KENT 69 KV KEN-NME_Z	230/138.CedarCreek.AT20	32	Internal PJM	Transmission Outage
KENT 69 KV KEN-VAU_I	L138.Cheswold-Felton.13704	5	Internal PJM	Transmission Outage
Kewanee Princetp 138kv I/o Sandburg Fargo 345kv		29	M2M Flowgate	Network Load
KIDDSTDP115 KV 91B1_I	L230.Bremo-Cartersville-Powhatan-Midlothian.2027	4	Internal PJM	Transmission Outage
KILMER 230 KV KIL-LAKI_I		17	Internal PJM	Transmission Outage
Labadie-GraySummit 2 345 kv I/o Labadie-GraySummit 1 345 kv		52	Pseudo Tie Flowgate	Network Load
Lakeview-Zion 138 I/o Pleasant Prairie-Zion 345+Pleasant Prairie-Zion EC 345		19	M2M Flowgate	Network Load
LAURELDP69 KV LAU-SHA_Z	L230.IndianRiver-Milford.23034	15	Internal PJM	Transmission Outage
LOGTOWN 138 KV LOG-NDEL_I	L765.Marysville-Sorenson	22	Internal PJM	Transmission Outage
LORETTO 138 KV LOR-VIE_Z	L230.IndianRiver-Milford.23034	13	Internal PJM	Transmission Outage
Marblehead 161/138kv XFMR I/o Maywood-Herleman 345kv		66	M2M Flowgate	Network Load
Mercer IP-Sandburg 161kv I/o Nelson-Electric Junction 345kv		13	M2M Flowgate	Network Load
MIDDLEJCT230 KV MID-TMI1_Z	TMI.LD1.StationService	256	Internal PJM	Transmission Outage
MIDDLEJCT230 KV MID-TMI1_Z	L230.TMI-MiddletownJunction.1092	256	Internal PJM	Transmission Outage
MIDDLEJCT230 KV MID-TMI2_Z	L230.TMI-MiddletownJunction.1091	236	Internal PJM	Transmission Outage
Newton - Louisville 138 kv I/o Mount - Vernon - Xenia 345 kv		3	M2M Flowgate	Transmission Outage
NorthLakeGeneva Burlington 138 I/o Byron Wayne 345		2	M2M Flowgate	Network Load
NOTTINGH230 KV 1-3_I	L500.PeachBottom-TMI.5007	241	Internal PJM	Transmission Outage
NOTTINGH230 KV 1-3_I		114	Internal PJM	Transmission Outage
NOTTINGH230 KV 2-3_I	L500.PeachBottom-TMI.5007	241	Internal PJM	Transmission Outage
NOTTINGH230 KV 2-3_I		114	Internal PJM	Transmission Outage
NOTTINGH230 KV NOT-PEA_I	L500.PeachBottom-TMI.5007	230	Internal PJM	Transmission Outage
NOTTINGH230 KV NOT-PEA_I		114	Internal PJM	Transmission Outage
NSEAFORD69 KV NSE-TAT_Z	L230.IndianRiver-Milford.23034	11	Internal PJM	Transmission Outage
Nucor-Whitestown 345 kv I/o Rockport-Jefferson 765 kv		50	M2M Flowgate	Network Load
Nucor-Whitestown 345kv I/o Edwardsport-AMO 345kv		30	M2M Flowgate	Transmission Outage
Oak Grove-Mercer 161 kv I/o Nelson-Electric Junction 345 kv		38	M2M Flowgate	Network Load
PIERCE 345 KV PIE-DEA1_Z	L345.EastBend-Terminal	111	Internal PJM	Transmission Outage
Pioneer - Hines 138 kv I/o MapRid - Tazewell 345 kv		46	M2M Flowgate	Network Load
Powerton Jct-Lilly 138 I/o Havana-Ipava 138		6	M2M Flowgate	Network Load
Powerton Jct-Lilly 138 I/o Lanesville-Brokaw 345		11	M2M Flowgate	Network Load
RICH PE 230 KV RIC-WAN_I		39	Internal PJM	Transmission Outage
Sandburg xfmr 3 I/o Oak Grove - Sandburg 345 kv		125	M2M Flowgate	Network Load
SCOTTSV1138 KV SCO-BRE1_Z	L230.Bremo-Cartersville-Powhatan-Midlothian.2027	19	Internal PJM	Transmission Outage
SHERWOOD115 KV 91C_Z	L230.Bremo-Cartersville-Powhatan-Midlothian.2027	4	Internal PJM	Transmission Outage
Sullivan-Casey 345 kv I/o Dumont-Greentown 765 kv		412	M2M Flowgate	Transmission Outage
Sullivan-Casey 345 kv I/o Wilton Center-Dumont 765 kv		371	M2M Flowgate	Transmission Outage
Sullivan-Petersburg 345 I/o Rockport-Jefferson 765		263	M2M Flowgate	Network Load
TANNERSC345 KV TAN-DEA1_I	L345.EastBend-Terminal	179	Internal PJM	Transmission Outage
Tompkins-Majestic 345 kv I/o Oneida-Majestic 345 kv		9	M2M Flowgate	Transmission Outage
TRENTON2138 KV HUS-TRE_Z	L345.Tanners Creek-Dearborn1	15	Internal PJM	Transmission Outage
Whitestown-Hortonville 345 kv I/o Whitestown-Guion 345 kv+Guion N 345/138 kv		11	M2M Flowgate	Transmission Outage

Listed below are the aggregate MW quantities, by source and sinks, of infeasible ARR in Stage 1A of the 2019/2020 Annual ARR Allocation.

Source	Sink	Infeasible MW Quantity
1 LASALL24 KV LA-1	BATAVIA	4.4
1 LASALL24 KV LA-1	GENEVA	2.7
1 LASALL24 KV LA-1	NAPERVILLE	18.3
1 LASALL24 KV LA-1	ST. CHARLES	6.3
1 LASALL24 KV LA-2	BATAVIA	4.4
1 LASALL24 KV LA-2	GENEVA	2.7
1 LASALL24 KV LA-2	NAPERVILLE	18.3
1 LASALL24 KV LA-2	ST. CHARLES	6.3
100 SHAD34.5 KV GSG6WF	ST. CHARLES	0.1
107 DIXO34.5 KV SUBLETTE	COMED_RESID_AGG	0.9
139 MEND34.5 KV WBROOKWF	ST. CHARLES	0.1
21 KINCA20 KV KN-1	BATAVIA	0.9
21 KINCA20 KV KN-1	COMED_RESID_AGG	3.4
21 KINCA20 KV KN-2	COMED_RESID_AGG	6.6
4 QUAD C18 KV QC-1	BATAVIA	2.5
4 QUAD C18 KV QC-1	COMED_RESID_AGG	615.3
4 QUAD C18 KV QC-1	GENEVA	1.5
4 QUAD C18 KV QC-1	N ILLINOIS HUB	120
4 QUAD C18 KV QC-1	NAPERVILLE	10.5
4 QUAD C18 KV QC-1	ROCHELLE	0.9
4 QUAD C18 KV QC-1	ST. CHARLES	3.6
4 QUAD C18 KV QC-2	BATAVIA	2.5
4 QUAD C18 KV QC-2	COMED_RESID_AGG	615.3
4 QUAD C18 KV QC-2	GENEVA	1.5
4 QUAD C18 KV QC-2	N ILLINOIS HUB	280
4 QUAD C18 KV QC-2	NAPERVILLE	10.5
4 QUAD C18 KV QC-2	ROCHELLE	0.9
4 QUAD C18 KV QC-2	ST. CHARLES	3.6
6 BYRON 25 KV BY-1	BATAVIA	0.9
6 BYRON 25 KV BY-1	COMED_RESID_AGG	326.3
6 BYRON 25 KV BY-1	GENEVA	0.5
6 BYRON 25 KV BY-1	N ILLINOIS HUB	40.2
6 BYRON 25 KV BY-1	NAPERVILLE	5.6
6 BYRON 25 KV BY-1	ST. CHARLES	1.1
6 BYRON 25 KV BY-2	BATAVIA	0.9
6 BYRON 25 KV BY-2	COMED_RESID_AGG	318.3
6 BYRON 25 KV BY-2	GENEVA	0.5

Source	Sink	Infeasible MW Quantity
6 BYRON 25 KV BY-2	N ILLINOIS HUB	93.8
6 BYRON 25 KV BY-2	NAPERVILLE	5.5
6 BYRON 25 KV BY-2	ST. CHARLES	1.1
937 LEE 13.5 KV LEE31-1	BATAVIA	0.3
937 LEE 13.5 KV LEE31-1	COMED_RESID_AGG	74
937 LEE 13.5 KV LEE31-1	GENEVA	0.1
937 LEE 13.5 KV LEE31-1	NAPERVILLE	1.3
937 LEE 13.5 KV LEE31-1	ROCHELLE	0.1
937 LEE 13.5 KV LEE31-1	ST. CHARLES	0.4
937 LEE 13.5 KV LEE31-2	BATAVIA	0.3
937 LEE 13.5 KV LEE31-2	COMED_RESID_AGG	73.9
937 LEE 13.5 KV LEE31-2	GENEVA	0.1
937 LEE 13.5 KV LEE31-2	NAPERVILLE	1.3
937 LEE 13.5 KV LEE31-2	ROCHELLE	0.1
937 LEE 13.5 KV LEE31-2	ST. CHARLES	0.4
937 LEE 13.5 KV LEE32-1	BATAVIA	0.1
937 LEE 13.5 KV LEE32-1	COMED_RESID_AGG	36.8
937 LEE 13.5 KV LEE32-1	GENEVA	0.1
937 LEE 13.5 KV LEE32-1	NAPERVILLE	0.6
937 LEE 13.5 KV LEE32-1	ROCHELLE	0.1
937 LEE 13.5 KV LEE32-1	ST. CHARLES	0.2
937 LEE 13.5 KV LEE32-2	BATAVIA	0.1
937 LEE 13.5 KV LEE32-2	COMED_RESID_AGG	36.8
937 LEE 13.5 KV LEE32-2	GENEVA	0.1
937 LEE 13.5 KV LEE32-2	NAPERVILLE	0.6
937 LEE 13.5 KV LEE32-2	ROCHELLE	0.1
937 LEE 13.5 KV LEE32-2	ST. CHARLES	0.2
937 LEE 13.5 KV LEE33-1	BATAVIA	0.3
937 LEE 13.5 KV LEE33-1	COMED_RESID_AGG	72.2
937 LEE 13.5 KV LEE33-1	GENEVA	0.1
937 LEE 13.5 KV LEE33-1	NAPERVILLE	1.2
937 LEE 13.5 KV LEE33-1	ROCHELLE	0.1
937 LEE 13.5 KV LEE33-1	ST. CHARLES	0.4
937 LEE 13.5 KV LEE33-2	BATAVIA	0.3
937 LEE 13.5 KV LEE33-2	COMED_RESID_AGG	72.1
937 LEE 13.5 KV LEE33-2	GENEVA	0.1
937 LEE 13.5 KV LEE33-2	NAPERVILLE	1.2
937 LEE 13.5 KV LEE33-2	ROCHELLE	0.1
937 LEE 13.5 KV LEE33-2	ST. CHARLES	0.4
937 LEE 13.5 KV LEE34-1	BATAVIA	0.1

Source	Sink	Infeasible MW Quantity
937 LEE 13.5 KV LEE34-1	COMED_RESID_AGG	36.7
937 LEE 13.5 KV LEE34-1	GENEVA	0.1
937 LEE 13.5 KV LEE34-1	NAPERVILLE	0.6
937 LEE 13.5 KV LEE34-1	ROCHELLE	0.1
937 LEE 13.5 KV LEE34-1	ST. CHARLES	0.2
937 LEE 13.5 KV LEE34-2	BATAVIA	0.1
937 LEE 13.5 KV LEE34-2	COMED_RESID_AGG	36.7
937 LEE 13.5 KV LEE34-2	GENEVA	0.1
937 LEE 13.5 KV LEE34-2	NAPERVILLE	0.6
937 LEE 13.5 KV LEE34-2	ROCHELLE	0.1
937 LEE 13.5 KV LEE34-2	ST. CHARLES	0.2
940 CORD18 KV CD-1	BATAVIA	0.4
940 CORD18 KV CD-1	COMED_RESID_AGG	63.2
940 CORD18 KV CD-1	GENEVA	0.2
940 CORD18 KV CD-1	NAPERVILLE	1.9
940 CORD18 KV CD-1	ROCHELLE	0.1
940 CORD18 KV CD-1	ST. CHARLES	0.6
940 CORD18 KV CD-2	BATAVIA	0.4
940 CORD18 KV CD-2	COMED_RESID_AGG	63.2
940 CORD18 KV CD-2	GENEVA	0.2
940 CORD18 KV CD-2	NAPERVILLE	1.9
940 CORD18 KV CD-2	ROCHELLE	0.1
940 CORD18 KV CD-2	ST. CHARLES	0.6
941 GRND34.5 KV GRIDG4WF	BATAVIA	0.1
941 GRND34.5 KV GRIDG4WF	COMED_RESID_AGG	5.5
941 GRND34.5 KV GRIDG4WF	GENEVA	0.1
941 GRND34.5 KV GRIDG4WF	ST. CHARLES	0.1
941 GRND34.5 KV GRIDGEWF	BATAVIA	0.1
941 GRND34.5 KV GRIDGEWF	COMED_RESID_AGG	16.7
941 GRND34.5 KV GRIDGEWF	GENEVA	0.1
941 GRND34.5 KV GRIDGEWF	NAPERVILLE	0.3
941 GRND34.5 KV GRIDGEWF	ST. CHARLES	0.1
959ERDBS34.5 KV BSWFBRS1	BATAVIA	0.1
959ERDBS34.5 KV BSWFBRS1	COMED_RESID_AGG	29.3
959ERDBS34.5 KV BSWFBRS1	GENEVA	0.1
959ERDBS34.5 KV BSWFBRS1	NAPERVILLE	0.5
959ERDBS34.5 KV BSWFBRS1	ROCHELLE	0.1
959ERDBS34.5 KV BSWFBRS1	ST. CHARLES	0.1
981 CRES34.5 KV CRIDGEWF	COMED_RESID_AGG	1
981 CRES34.5 KV PROVIDWF	COMED_RESID_AGG	0.9

Source	Sink	Infeasible MW Quantity
AEP-DAYTON HUB	CPLEEXP	26.3
AMOS 26 KV AM1	BUCK-CIN	0.3
AMOS 26 KV AM1	BUCKEYE - DPL	0.1
AMOS 26 KV AM3	BUCK-CIN	0.5
ASYLUM 23 KV LIBRTY10	BGE_RESID_AGG	6.9
ASYLUM 23 KV LIBRTY10	PEPCO DC	0.5
ASYLUM 23 KV LIBRTY10	PEPCO MD	0.8
ASYLUM 23 KV LIBRTY10	SMECO_RESID_AGG	0.2
BEARGRDN18 KV ST1C	DOM_RESID_AGG	14.7
CHR138 12 KV G11	DPL	3.3
CHR138 12 KV G11	DPL_RESID_AGG	1.5
CHR138 12 KV G11	EASTON	0.1
CHR138 12 KV G11	LEWES DPL	0.1
CHR138 12 KV G14	DPL	3.2
CHR138 12 KV G14	DPL_RESID_AGG	1.4
CHR138 12 KV G14	EASTON	0.1
CHR138 12 KV G14	LEWES DPL	0.1
CLIFTYCR15.5 KV CC1	APS_RESID_AGG	37.1
CLIFTYCR15.5 KV CC1	BUCKEYE - DPL	0.6
CLIFTYCR15.5 KV CC1	DAY_RESID_AGG	34.3
CLIFTYCR15.5 KV CC1	HREA - AP	0.1
CLIFTYCR15.5 KV CC1	MON POWER	0.3
CLOVER 25 KV G1	DOM_RESID_AGG	50.4
CLOVER 25 KV G2	DOM_RESID_AGG	50.1
CONEMAUG115 KV DIESEL	BGE_RESID_AGG	0.2
CONEMAUG22 KV UNIT 1	BGE_RESID_AGG	32
CONEMAUG22 KV UNIT 1	DPL_RESID_AGG	0.1
CONEMAUG22 KV UNIT 1	PEPCO DC	3.7
CONEMAUG22 KV UNIT 1	PEPCO MD	5.5
CONEMAUG22 KV UNIT 1	SMECO_RESID_AGG	1.3
CONEMAUG22 KV UNIT02	BGE_RESID_AGG	31.9
CONEMAUG22 KV UNIT02	DPL_RESID_AGG	0.1
CONEMAUG22 KV UNIT02	PEPCO DC	3.7
CONEMAUG22 KV UNIT02	PEPCO MD	5.5
CONEMAUG22 KV UNIT02	SMECO_RESID_AGG	1.3
CONESVIL26 KV CV4	DAY_RESID_AGG	48.9
CONESVIL26 KV CV4	DEOK_RESID_AGG	233.3
CONOWING13 KV GEN1	PECO_RESID_AGG	0.4
CONOWING13 KV GEN2	PECO_RESID_AGG	0.4
COOK 26 KV CK1	AEPAPCO_RESID_AGG	21.8

Source	Sink	Infeasible MW Quantity
COOK 26 KV CK1	BLUE RIDGE	6.6
COOK 26 KV CK1	BUCK-CIN	0.4
COOK 26 KV CK1	BUCKEYE - DPL	1.1
COOK 26 KV CK2	AEPAPCO_RESID_AGG	25.1
COOK 26 KV CK2	BLUE RIDGE	7
COOK 26 KV CK2	BUCK-CIN	0.5
COOK 26 KV CK2	BUCKEYE - DPL	1.3
COOP_EK 13.8 KV COOPER01	EKPC-DEOK LOAD	1.1
COOP_EK 20 KV COOPER02	EKPC-DEOK LOAD	2.2
CORNU 18 KV 1GT1	BUCK-CIN	0.1
CORNU 18 KV 1GT1	BUCKEYE - DPL	0.1
CORNU 18 KV 1GT2	BUCK-CIN	0.1
CORNU 18 KV 1GT2	BUCKEYE - DPL	0.1
CORNU 18 KV 2GT1	BUCK-CIN	0.1
CORNU 18 KV 2GT1	BUCKEYE - DPL	0.1
CORNU 18 KV 2GT2	BUCK-CIN	0.1
CORNU 18 KV 2GT2	BUCKEYE - DPL	0.1
CORNU 18 KV ST1	BUCK-CIN	0.1
CORNU 18 KV ST1	BUCKEYE - DPL	0.1
CORNU 18 KV ST2	BUCK-CIN	0.1
CORNU 18 KV ST2	BUCKEYE - DPL	0.1
COVERT 16 KV 1GTG	AEPAPCO_RESID_AGG	9.1
COVERT 16 KV 1GTG	BLUE RIDGE	6.5
COVERT 16 KV 1GTG	BUCK-CIN	0.5
COVERT 16 KV 1GTG	BUCKEYE - DPL	1.4
CROYDON 13 KV UNIT11	PECO_RESID_AGG	6
CROYDON 13 KV UNIT12	PECO_RESID_AGG	6
CROYDON 13 KV UNIT21	PECO_RESID_AGG	6
CROYDON 13 KV UNIT22	PECO_RESID_AGG	6
CROYDON 13 KV UNIT31	PECO_RESID_AGG	6
CROYDON 13 KV UNIT32	PECO_RESID_AGG	5.9
CROYDON 13 KV UNIT41	PECO_RESID_AGG	6
CROYDON 13 KV UNIT42	PECO_RESID_AGG	6
DELA DPL13 KV G1	BERLIN DPL	0.1
DELA DPL13 KV G1	DOVER	0.1
DELA DPL13 KV G1	DPL	8
DELA DPL13 KV G1	DPL_RESID_AGG	4.3
DELA DPL13 KV G1	EASTON	0.2
DELA DPL13 KV G1	LEWES DPL	0.2
DELA DPL13 KV G10	BERLIN DPL	0.1

Source	Sink	Infeasible MW Quantity
DELA DPL13 KV G10	DPL	2.3
DELA DPL13 KV G10	DPL_RESID_AGG	1.2
DELA DPL13 KV G10	EASTON	0.1
DELA DPL13 KV G10	LEWES DPL	0.1
DELA DPL13 KV G2	BERLIN DPL	0.1
DELA DPL13 KV G2	DOVER	0.2
DELA DPL13 KV G2	DPL	8.4
DELA DPL13 KV G2	DPL_RESID_AGG	4.5
DELA DPL13 KV G2	EASTON	0.2
DELA DPL13 KV G2	LEWES DPL	0.2
DLTAPLNT13.8 KV GEN1	AMP-ATSI OH	0.4
DLTAPLNT13.8 KV GEN1	BGE_RESID_AGG	11.8
DLTAPLNT13.8 KV GEN1	CPP	0.3
DLTAPLNT13.8 KV GEN1	DEK	2.1
DLTAPLNT13.8 KV GEN1	DEOK_RESID_AGG	27.3
DLTAPLNT13.8 KV GEN1	DUQ_RESID_AGG	3.7
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	9.1
DLTAPLNT13.8 KV GEN1	PENNPOWER_RESID_AGG	0.6
DLTAPLNT13.8 KV GEN1	PEPCO DC	2
DLTAPLNT13.8 KV GEN1	PEPCO MD	2.9
DLTAPLNT13.8 KV GEN1	SMECO_RESID_AGG	0.9
DLTAPLNT13.8 KV GEN2	AMP-ATSI OH	0.5
DLTAPLNT13.8 KV GEN2	BGE_RESID_AGG	12.2
DLTAPLNT13.8 KV GEN2	CPP	0.3
DLTAPLNT13.8 KV GEN2	DEK	2.1
DLTAPLNT13.8 KV GEN2	DEOK_RESID_AGG	28.6
DLTAPLNT13.8 KV GEN2	DUQ_RESID_AGG	4.1
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	9.9
DLTAPLNT13.8 KV GEN2	PENNPOWER_RESID_AGG	0.6
DLTAPLNT13.8 KV GEN2	PEPCO DC	2.2
DLTAPLNT13.8 KV GEN2	PEPCO MD	3.2
DLTAPLNT13.8 KV GEN2	SMECO_RESID_AGG	1
DLTAPLNT13.8 KV GEN3	AMP-ATSI OH	0.5
DLTAPLNT13.8 KV GEN3	BGE_RESID_AGG	12.2
DLTAPLNT13.8 KV GEN3	CPP	0.3
DLTAPLNT13.8 KV GEN3	DEK	2.1

Source	Sink	Infeasible MW Quantity
DLTAPLNT13.8 KV GEN3	DEOK_RESID_AGG	28.4
DLTAPLNT13.8 KV GEN3	DUQ_RESID_AGG	4.1
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	10
DLTAPLNT13.8 KV GEN3	PENNPOWER_RESID_AGG	0.6
DLTAPLNT13.8 KV GEN3	PEPCO DC	2.2
DLTAPLNT13.8 KV GEN3	PEPCO MD	3.2
DLTAPLNT13.8 KV GEN3	SMECO_RESID_AGG	1
DLTAPLNT18 KV GEN4	AMP-ATSI OH	0.7
DLTAPLNT18 KV GEN4	AMP-ATSI PA	0.1
DLTAPLNT18 KV GEN4	BGE_RESID_AGG	15.7
DLTAPLNT18 KV GEN4	CPP	0.4
DLTAPLNT18 KV GEN4	DEK	2.1
DLTAPLNT18 KV GEN4	DEOK_RESID_AGG	40.1
DLTAPLNT18 KV GEN4	DUQ_RESID_AGG	6.9
DLTAPLNT18 KV GEN4	EKPC_RESID_AGG	3.4
DLTAPLNT18 KV GEN4	EKPC-DEOK LOAD	0.1
DLTAPLNT18 KV GEN4	FEOHIO_RESID_AGG	14.4
DLTAPLNT18 KV GEN4	PENNPOWER_RESID_AGG	1.1
DLTAPLNT18 KV GEN4	PEPCO DC	3.9
DLTAPLNT18 KV GEN4	PEPCO MD	5.1
DLTAPLNT18 KV GEN4	SMECO_RESID_AGG	1.5
EBEND 20 KV EB2	DAY_RESID_AGG	10.3
EBEND 20 KV EB2	DEK	239.2
EBEND 20 KV EB2	EKPC_RESID_AGG	0.4
EDGEMOOR12 KV G10	DPL	1.1
EDGEMOOR12 KV G10	DPL_RESID_AGG	0.6
EDGEMOOR12 KV G10	LEWES DPL	0.1
EDGEMOOR13 KV HAYRD1	DOVER	0.2
EDGEMOOR13 KV HAYRD1	DPL	18.1
EDGEMOOR13 KV HAYRD1	DPL_ODEC	15.4
EDGEMOOR13 KV HAYRD1	DPL_RESID_AGG	10.1
EDGEMOOR13 KV HAYRD1	EASTON	0.5
EDGEMOOR13 KV HAYRD1	LEWES DPL	0.5
EDGEMOOR13 KV HAYRD2	DOVER	0.1
EDGEMOOR13 KV HAYRD2	DPL	1.5
EDGEMOOR13 KV HAYRD2	DPL_RESID_AGG	6.4
EDGEMOOR13 KV HAYRD2	EASTON	0.2
EDGEMOOR13 KV HAYRD2	LEWES DPL	0.2

Source	Sink	Infeasible MW Quantity
EDGEMOOR13 KV HAYRD3	DOVER	0.2
EDGEMOOR13 KV HAYRD3	DPL	18.1
EDGEMOOR13 KV HAYRD3	DPL_ODEC	15.4
EDGEMOOR13 KV HAYRD3	DPL_RESID_AGG	10.1
EDGEMOOR13 KV HAYRD3	EASTON	0.5
EDGEMOOR13 KV HAYRD3	LEWES DPL	0.5
EDGEMOOR13 KV HAYRD4	BERLIN DPL	0.1
EDGEMOOR13 KV HAYRD4	DOVER	0.3
EDGEMOOR13 KV HAYRD4	DPL	25.8
EDGEMOOR13 KV HAYRD4	DPL_ODEC	22.2
EDGEMOOR13 KV HAYRD4	DPL_RESID_AGG	14.8
EDGEMOOR13 KV HAYRD4	EASTON	0.7
EDGEMOOR13 KV HAYRD4	LEWES DPL	0.9
EDGEMOOR13 KV HAYRD5	AMP-ATSI OH	0.6
EDGEMOOR13 KV HAYRD5	BGE_RESID_AGG	11.4
EDGEMOOR13 KV HAYRD5	CPP	0.4
EDGEMOOR13 KV HAYRD5	DEOK_RESID_AGG	31.6
EDGEMOOR13 KV HAYRD5	EKPC_RESID_AGG	2.5
EDGEMOOR13 KV HAYRD5	EKPC-DEOK LOAD	0.1
EDGEMOOR13 KV HAYRD5	FEOHIO_RESID_AGG	12.3
EDGEMOOR13 KV HAYRD5	PENNPOWER_RESID_AGG	0.7
EDGEMOOR13 KV HAYRD5	PEPCO DC	6
EDGEMOOR13 KV HAYRD5	PEPCO MD	8.3
EDGEMOOR13 KV HAYRD5	SMECO_RESID_AGG	1.5
EDGEMOOR13 KV HAYRD6	AMP-ATSI OH	0.6
EDGEMOOR13 KV HAYRD6	BGE_RESID_AGG	11.4
EDGEMOOR13 KV HAYRD6	CPP	0.4
EDGEMOOR13 KV HAYRD6	DEOK_RESID_AGG	31.5
EDGEMOOR13 KV HAYRD6	EKPC_RESID_AGG	2.5
EDGEMOOR13 KV HAYRD6	EKPC-DEOK LOAD	0.1
EDGEMOOR13 KV HAYRD6	FEOHIO_RESID_AGG	12.3
EDGEMOOR13 KV HAYRD6	PENNPOWER_RESID_AGG	0.7
EDGEMOOR13 KV HAYRD6	PEPCO DC	5.6
EDGEMOOR13 KV HAYRD6	PEPCO MD	8.4
EDGEMOOR13 KV HAYRD6	SMECO_RESID_AGG	1.5
EDGEMOOR13 KV HAYRD7	AMP-ATSI OH	0.6
EDGEMOOR13 KV HAYRD7	BGE_RESID_AGG	11.3
EDGEMOOR13 KV HAYRD7	CPP	0.4
EDGEMOOR13 KV HAYRD7	DEOK_RESID_AGG	31.3
EDGEMOOR13 KV HAYRD7	EKPC_RESID_AGG	2.5

Source	Sink	Infeasible MW Quantity
EDGEMOOR13 KV HAYRD7	EKPC-DEOK LOAD	0.1
EDGEMOOR13 KV HAYRD7	FEOHIO_RESID_AGG	12.3
EDGEMOOR13 KV HAYRD7	PENNPOWER_RESID_AGG	0.7
EDGEMOOR13 KV HAYRD7	PEPCO DC	5.8
EDGEMOOR13 KV HAYRD7	PEPCO MD	8.4
EDGEMOOR13 KV HAYRD7	SMECO_RESID_AGG	1.5
EDGEMOOR13 KV UNIT03	DOVER	0.1
EDGEMOOR13 KV UNIT03	DPL	2.1
EDGEMOOR13 KV UNIT03	DPL_RESID_AGG	3.1
EDGEMOOR13 KV UNIT03	LEWES DPL	0.3
EDGEMOOR18 KV HAYRD8	AMP-ATSI OH	0.8
EDGEMOOR18 KV HAYRD8	AMP-ATSI PA	0.1
EDGEMOOR18 KV HAYRD8	BGE_RESID_AGG	14.8
EDGEMOOR18 KV HAYRD8	CPP	0.6
EDGEMOOR18 KV HAYRD8	DEOK_RESID_AGG	43.3
EDGEMOOR18 KV HAYRD8	EKPC_RESID_AGG	3.8
EDGEMOOR18 KV HAYRD8	EKPC-DEOK LOAD	0.1
EDGEMOOR18 KV HAYRD8	FEOHIO_RESID_AGG	18.2
EDGEMOOR18 KV HAYRD8	PENNPOWER_RESID_AGG	1.1
EDGEMOOR18 KV HAYRD8	PEPCO DC	7
EDGEMOOR18 KV HAYRD8	PEPCO MD	10.2
EDGEMOOR18 KV HAYRD8	SMECO_RESID_AGG	2
EDGEMOOR19 KV UNIT04	DOVER	0.3
EDGEMOOR19 KV UNIT04	DPL	24.4
EDGEMOOR19 KV UNIT04	DPL_ODEC	21.2
EDGEMOOR19 KV UNIT04	DPL_RESID_AGG	13.8
EDGEMOOR19 KV UNIT04	EASTON	0.6
EDGEMOOR19 KV UNIT04	LEWES DPL	0.8
EDGEMOOR23 KV UNIT05	BERLIN DPL	0.2
EDGEMOOR23 KV UNIT05	DOVER	0.7
EDGEMOOR23 KV UNIT05	DPL	64.5
EDGEMOOR23 KV UNIT05	DPL_ODEC	54.7
EDGEMOOR23 KV UNIT05	DPL_RESID_AGG	36.2
EDGEMOOR23 KV UNIT05	EASTON	1.7
EDGEMOOR23 KV UNIT05	LEWES DPL	2.3
ELKHYDRO4 KV ELK	AEPAPCO_RESID_AGG	0.1
EVERTSUB34.5 KV ARMENIA	DPL_ODEC	1.7
FACEROCK13 KV HOLT1	PPL	0.1
FACEROCK13 KV HOLT1	PPL_RESID_AGG	0.1
FACEROCK13 KV HOLT10	PPL	0.1

Source	Sink	Infeasible MW Quantity
FACEROCK13 KV HOLT10	PPL_RESID_AGG	0.2
FACEROCK13 KV HOLT18	PPL	1
FACEROCK13 KV HOLT18	PPL_RESID_AGG	2.3
FACEROCK13 KV HOLT19	PPL	0.9
FACEROCK13 KV HOLT19	PPL_RESID_AGG	2.4
FACEROCK13 KV HOLT2	PPL_RESID_AGG	0.1
FACEROCK13 KV HOLT3	PPL_RESID_AGG	0.1
FACEROCK13 KV HOLT4	PPL_RESID_AGG	0.1
FACEROCK13 KV HOLT5	PPL_RESID_AGG	0.1
FACEROCK13 KV HOLT6	PPL_RESID_AGG	0.1
FACEROCK13 KV HOLT7	PPL_RESID_AGG	0.1
FACEROCK13 KV HOLT8	PPL_RESID_AGG	0.1
FACEROCK13 KV HOLT9	PPL_RESID_AGG	0.2
FLATLICK18 KV 1	BUCK-CIN	0.1
FOOTHILL18 KV UNIT 4	BGE_RESID_AGG	0.7
FOOTHILL18 KV UNIT 4	DEOK_RESID_AGG	29.6
FOOTHILL18 KV UNIT 4	EKPC-DEOK LOAD	0.1
FOOTHILL18 KV UNIT 5	BGE_RESID_AGG	0.7
FOOTHILL18 KV UNIT 5	DEOK_RESID_AGG	29.4
FOOTHILL18 KV UNIT 5	EKPC-DEOK LOAD	0.1
FORDMILL18 KV FE 1STM	PECO_RESID_AGG	37.1
FORDMILL18 KV FE 2STM	PECO_RESID_AGG	22.8
FOWLER 34.5 KV FWL2-1WF	AEPOHIO W.O. MON POWER	1.5
FOWLER 34.5 KV FWL2-2WF	AEPOHIO W.O. MON POWER	1.5
FOWLER 34.5 KV FWL2-3WF	AEPOHIO W.O. MON POWER	1.5
FOWLER 34.5 KV FWL2-4WF	AEPOHIO W.O. MON POWER	1.4
FOWLER 34.5 KV FWLR1AWF	AEPAPCO_RESID_AGG	1
FOWLER 34.5 KV FWLR1AWF	AEPOHIO W.O. MON POWER	1.1
FOWLER 34.5 KV FWLR1BWF	AEPAPCO_RESID_AGG	1
FOWLER 34.5 KV FWLR1BWF	AEPOHIO W.O. MON POWER	1.1
FOWLER 34.5 KV FWLR3WF	AEPAPCO_RESID_AGG	3
GAVINAEP26 KV GV2	BUCK-CIN	0.4
GRAYFR_113 KV 1 GEN	AMP-ATSI OH	0.7
GRAYFR_113 KV 1 GEN	AMP-ATSI PA	0.1
GRAYFR_113 KV 1 GEN	BGE_RESID_AGG	13.3
GRAYFR_113 KV 1 GEN	CPP	0.5
GRAYFR_113 KV 1 GEN	DEOK_RESID_AGG	37.5
GRAYFR_113 KV 1 GEN	EKPC_RESID_AGG	3.2
GRAYFR_113 KV 1 GEN	EKPC-DEOK LOAD	0.1
GRAYFR_113 KV 1 GEN	FEOHIO_RESID_AGG	15.7

Source	Sink	Infeasible MW Quantity
GRAYFR_113 KV 1 GEN	PENNPOWER_RESID_AGG	1
GRAYFR_113 KV 1 GEN	PEPCO DC	6.1
GRAYFR_113 KV 1 GEN	PEPCO MD	8.9
GRAYFR_113 KV 1 GEN	SMECO_RESID_AGG	1.6
GREENUP	DEOK_RESID_AGG	42.6
JKSMT_EK13.8 KV JKSMT1	EKPC-DEOK LOAD	1
JKSMT_EK13.8 KV JKSMT10	EKPC-DEOK LOAD	0.7
JKSMT_EK13.8 KV JKSMT2	EKPC-DEOK LOAD	1
JKSMT_EK13.8 KV JKSMT3	EKPC-DEOK LOAD	1
JKSMT_EK13.8 KV JKSMT4	EKPC-DEOK LOAD	0.7
JKSMT_EK13.8 KV JKSMT5	EKPC-DEOK LOAD	0.7
JKSMT_EK13.8 KV JKSMT6	EKPC-DEOK LOAD	0.7
JKSMT_EK13.8 KV JKSMT7	EKPC-DEOK LOAD	0.7
JKSMT_EK13.8 KV JKSMT9	EKPC-DEOK LOAD	0.7
KEYSTNE 13 KV _UN1_15	DAY_RESID_AGG	35.8
KEYSTNE 13 KV _UN2_15	DAY_RESID_AGG	35.7
KEYSTNE 13 KV _UN3_15	DAY_RESID_AGG	35.5
KEYSTNE 13 KV _UN4_15	DAY_RESID_AGG	35.3
KEYSTONE20 KV UNIT 1	BGE_RESID_AGG	57.1
KEYSTONE20 KV UNIT 2	BGE_RESID_AGG	57.2
KEYSTONE20 KV UNIT 3	BGE_RESID_AGG	0.3
KYGERCRE15.5 KV KY1	BUCKEYE - DPL	0.2
KYGERCRE15.5 KV KY1	DAY_RESID_AGG	18.3
LAURELDM13.8 KV LAUREL	EKPC-DEOK LOAD	0.7
LAWRENC218 KV S1	AEPAPCO_RESID_AGG	34.3
LAWRENC218 KV S1	AEPKY_RESID_AGG	3.9
LAWRENC218 KV S1	AEPOHIO W.O. MON POWER	3.2
LAWRENC218 KV S1	BLUE RIDGE	2.8
LAWRENC218 KV S1	BUCK-CIN	0.1
LAWRENC218 KV S1	BUCKEYE - AEPOH	0.1
LAWRENC218 KV S1	BUCKEYE - DPL	0.2
LAWRENC218 KV S1	EKPC_RESID_AGG	1.3
LAWRENC218 KV S1	EKPC-DEOK LOAD	0.2
LAWRENC218 KV S2	AEPAPCO_RESID_AGG	34.3
LAWRENC218 KV S2	AEPKY_RESID_AGG	3.9
LAWRENC218 KV S2	AEPOHIO W.O. MON POWER	3.2
LAWRENC218 KV S2	BLUE RIDGE	2.8
LAWRENC218 KV S2	BUCK-CIN	0.1
LAWRENC218 KV S2	BUCKEYE - AEPOH	0.1
LAWRENC218 KV S2	BUCKEYE - DPL	0.2

Source	Sink	Infeasible MW Quantity
LAWRENC218 KV S2	EKPC_RESID_AGG	1.3
LAWRENC218 KV S2	EKPC-DEOK LOAD	0.2
LINWDPE 18 KV STM	AMP-ATSI OH	3.3
LINWDPE 18 KV STM	AMP-ATSI PA	0.3
LINWDPE 18 KV STM	BGE_RESID_AGG	49.3
LINWDPE 18 KV STM	CPP	2.2
LINWDPE 18 KV STM	DEOK_RESID_AGG	151.9
LINWDPE 18 KV STM	DUQ_RESID_AGG	36.6
LINWDPE 18 KV STM	EKPC_RESID_AGG	14.4
LINWDPE 18 KV STM	EKPC-DEOK LOAD	0.4
LINWDPE 18 KV STM	FEOHIO_RESID_AGG	77.6
LINWDPE 18 KV STM	PENPOWER_RESID_AGG	5.9
LINWDPE 18 KV STM	PEPCO DC	19.9
LINWDPE 18 KV STM	PEPCO MD	28.4
LINWDPE 18 KV STM	SMECO_RESID_AGG	6.3
LINWDPE 18 KV STM	WILLIAMSTOWN	0.1
LOGTOWN 34.5 KV PAULDWF	AEPAPCO_RESID_AGG	0.4
LOGTOWN 34.5 KV PAULDWF	BLUE RIDGE	0.1
MIDLTWN221 KV MIDDLETCT	DEOK_RESID_AGG	50.3
MISO	AEPAPCO_RESID_AGG	14.5
MISO	BLUE RIDGE	3
MISO	BUCK-CIN	0.2
MISO	BUCKEYE - DPL	0.5
MISO	DAY_RESID_AGG	46.7
MISO	DUKEXP	38.5
MITCHELL 1	DUKEXP	41.8
MTNTOP 34.5 KV MHOOPWF2	DPL_ODEC	3.7
PARLIN 230 KV DPONTNUG	JCPL_RESID_AGG	22.6
PEACHBOT22 KV UNIT02	BERLIN DPL	0.1
PEACHBOT22 KV UNIT02	DOVER	0.2
PEACHBOT22 KV UNIT02	DPL	13.7
PEACHBOT22 KV UNIT02	DPL_ODEC	11.3
PEACHBOT22 KV UNIT02	DPL_RESID_AGG	7.8
PEACHBOT22 KV UNIT02	EASTON	0.4
PEACHBOT22 KV UNIT02	LEWES DPL	0.4
PEACHBOT22 KV UNIT03	BERLIN DPL	0.1
PEACHBOT22 KV UNIT03	DOVER	0.2
PEACHBOT22 KV UNIT03	DPL	13.7
PEACHBOT22 KV UNIT03	DPL_ODEC	11.3
PEACHBOT22 KV UNIT03	DPL_RESID_AGG	7.8

Source	Sink	Infeasible MW Quantity
PEACHBOT22 KV UNIT03	EASTON	0.4
PEACHBOT22 KV UNIT03	LEWES DPL	0.4
PRINTZ 18 KV STG	AMP-ATSI OH	2.5
PRINTZ 18 KV STG	AMP-ATSI PA	0.2
PRINTZ 18 KV STG	BGE_RESID_AGG	40.1
PRINTZ 18 KV STG	CPP	1.7
PRINTZ 18 KV STG	DEOK_RESID_AGG	122.1
PRINTZ 18 KV STG	EKPC_RESID_AGG	11.4
PRINTZ 18 KV STG	EKPC-DEOK LOAD	0.3
PRINTZ 18 KV STG	FEOHIO_RESID_AGG	61.2
PRINTZ 18 KV STG	PENNPOWER_RESID_AGG	4.5
PRINTZ 18 KV STG	PEPCO DC	16.3
PRINTZ 18 KV STG	PEPCO MD	23.2
PRINTZ 18 KV STG	SMECO_RESID_AGG	5.2
PRINTZ 18 KV STG	WILLIAMSTOWN	0.1
PSEGGLOB18 KV 6	BGE_RESID_AGG	1.3
PSEGGLOB18 KV 6	DEOK_RESID_AGG	33.7
PSEGGLOB18 KV 7	BGE_RESID_AGG	1.3
PSEGGLOB18 KV 7	DEOK_RESID_AGG	33.5
PSEGGLOB18 KV 8	BGE_RESID_AGG	1.3
PSEGGLOB18 KV 8	DEOK_RESID_AGG	33.5
PSEGGLOB22 KV 5	BGE_RESID_AGG	3
PSEGGLOB22 KV 5	DEOK_RESID_AGG	71.6
PSEGGLOB22 KV 5	EKPC-DEOK LOAD	0.1
REDOAKB 18 KV ST	JCPL_RESID_AGG	180.8
RICH PE 13 KV UNIT91	PECO_RESID_AGG	26.5
RICH PE 13 KV UNIT92	PECO_RESID_AGG	26.5
ROCKPOR226 KV RP1	AEPAPCO_RESID_AGG	379.5
ROCKPOR226 KV RP1	AEPIM_RESID_AGG	124
ROCKPOR226 KV RP1	AEPKY_RESID_AGG	76.5
ROCKPOR226 KV RP1	AEPOHIO W.O. MON POWER	392.8
ROCKPOR226 KV RP1	AMP-OHIO	4.6
ROCKPOR226 KV RP1	BLUE RIDGE	20.9
ROCKPOR226 KV RP1	BUCK-CIN	0.4
ROCKPOR226 KV RP1	BUCKEYE - AEPOH	9.2
ROCKPOR226 KV RP1	BUCKEYE - DPL	2.4
ROCKPOR226 KV RP1	BUCK-FE	1.6
ROCKPOR226 KV RP1	MERIDIAN EWHITLEY	1.4
ROCKPOR226 KV RP2	AEPAPCO_RESID_AGG	375.1
ROCKPOR226 KV RP2	AEPIM_RESID_AGG	122.5

Source	Sink	Infeasible MW Quantity
ROCKPOR226 KV RP2	AEPKY_RESID_AGG	75.6
ROCKPOR226 KV RP2	AEPOHIO W.O. MON POWER	388.2
ROCKPOR226 KV RP2	AMP-OHIO	4.6
ROCKPOR226 KV RP2	BLUE RIDGE	20.6
ROCKPOR226 KV RP2	BUCK-CIN	0.4
ROCKPOR226 KV RP2	BUCKEYE - AEPOH	9.1
ROCKPOR226 KV RP2	BUCKEYE - DPL	2.3
ROCKPOR226 KV RP2	BUCK-FE	1.6
ROCKPOR226 KV RP2	MERIDIAN EWHITLEY	1.3
ROCKSPRI18 KV CT3	BERLIN DPL	0.1
ROCKSPRI18 KV CT3	DPL	2
ROCKSPRI18 KV CT3	DPL_ODEC	1.9
ROCKSPRI18 KV CT3	DPL_RESID_AGG	1
ROCKSPRI18 KV CT3	EASTON	0.1
ROCKSPRI18 KV CT3	LEWES DPL	0.1
ROCKSPRI18 KV CT4	BERLIN DPL	0.1
ROCKSPRI18 KV CT4	DPL	2
ROCKSPRI18 KV CT4	DPL_ODEC	1.9
ROCKSPRI18 KV CT4	DPL_RESID_AGG	1
ROCKSPRI18 KV CT4	EASTON	0.1
ROCKSPRI18 KV CT4	LEWES DPL	0.1
ROCKSPRI24 KV WCATSTG	APS_RESID_AGG	33.7
ROCKSPRI24 KV WCATSTG	DPL_ODEC	75.2
SAFEHARB13 KV UNIT1	BGE_RESID_AGG	18
SAFEHARB13 KV UNIT1	PPL_RESID_AGG	4.1
SAFEHARB13 KV UNIT10	BGE_RESID_AGG	21.3
SAFEHARB13 KV UNIT10	PPL	0.5
SAFEHARB13 KV UNIT10	PPL_RESID_AGG	5.2
SAFEHARB13 KV UNIT11	BGE_RESID_AGG	20.8
SAFEHARB13 KV UNIT11	PPL	0.5
SAFEHARB13 KV UNIT11	PPL_RESID_AGG	4.6
SAFEHARB13 KV UNIT12	BGE_RESID_AGG	20.9
SAFEHARB13 KV UNIT12	PPL	0.5
SAFEHARB13 KV UNIT12	PPL_RESID_AGG	4.3
SAFEHARB13 KV UNIT2	BGE_RESID_AGG	17.7
SAFEHARB13 KV UNIT2	PPL_RESID_AGG	3.9
SAFEHARB13 KV UNIT3	BGE_RESID_AGG	17.9
SAFEHARB13 KV UNIT3	PPL_RESID_AGG	3.8
SAFEHARB13 KV UNIT4	BGE_RESID_AGG	17.7
SAFEHARB13 KV UNIT4	PPL_RESID_AGG	3.7

Source	Sink	Infeasible MW Quantity
SAFEHARB13 KV UNIT5	BGE_RESID_AGG	18.2
SAFEHARB13 KV UNIT5	PPL_RESID_AGG	3.8
SAFEHARB13 KV UNIT6	BGE_RESID_AGG	17.7
SAFEHARB13 KV UNIT6	PPL_RESID_AGG	3.8
SAFEHARB13 KV UNIT7	BGE_RESID_AGG	18.2
SAFEHARB13 KV UNIT7	PPL_RESID_AGG	3.6
SAFEHARB13 KV UNIT8	BGE_RESID_AGG	21
SAFEHARB13 KV UNIT8	PPL	0.5
SAFEHARB13 KV UNIT8	PPL_RESID_AGG	5
SAFEHARB13 KV UNIT9	BGE_RESID_AGG	21.2
SAFEHARB13 KV UNIT9	PPL	0.5
SAFEHARB13 KV UNIT9	PPL_RESID_AGG	4.6
SALEM 25 KV SALEM1	BERLIN DPL	0.1
SALEM 25 KV SALEM1	DOVER	0.2
SALEM 25 KV SALEM1	DPL	12.6
SALEM 25 KV SALEM1	DPL_ODEC	3.4
SALEM 25 KV SALEM1	DPL_RESID_AGG	7
SALEM 25 KV SALEM1	EASTON	0.3
SALEM 25 KV SALEM1	LEWES DPL	0.3
SALEM 25 KV SALEM2	BERLIN DPL	0.1
SALEM 25 KV SALEM2	DOVER	0.2
SALEM 25 KV SALEM2	DPL	12.5
SALEM 25 KV SALEM2	DPL_ODEC	10.5
SALEM 25 KV SALEM2	DPL_RESID_AGG	7
SALEM 25 KV SALEM2	EASTON	0.3
SALEM 25 KV SALEM2	LEWES DPL	0.3
SANDERSO138 KV SAN3	AEPIM_RESID_AGG	28.6
SAYREVIL13 KV CT 1	JCPL_RESID_AGG	14.8
SAYREVIL13 KV CT 2	JCPL_RESID_AGG	14.1
SAYREVIL13 KV CT 3	JCPL_RESID_AGG	13.8
SAYREVIL13 KV CT 4	JCPL_RESID_AGG	8.2
SOUTHIMP	DOM_RESID_AGG	9.8
SRIVER 230 KV NUG GE	JCPL_RESID_AGG	60.4
SUSQUEHA24 KV UNIT01	BGE_RESID_AGG	48
SUSQUEHA24 KV UNIT02	BGE_RESID_AGG	47.7
TANNERSC18 KV TC3	MIAMIFOR18 KV G6	144.8
TIDD_AEP24 KV CD2	BUCK-CIN	6.6
TIDD_AEP24 KV CD2	BUCKEYE - DPL	13.1
TIDD_AEP26 KV CD3	BUCK-CIN	6.6
TIDD_AEP26 KV CD3	BUCKEYE - DPL	13.1

Source	Sink	Infeasible MW Quantity
TMI 20 KV UNIT01	AMP-METED	0.8
TMI 20 KV UNIT01	JCPL_RESID_AGG	77.2
TMI 20 KV UNIT01	METED	8.6
TMI 20 KV UNIT01	METED_RESID_AGG	196.9
TMI 20 KV UNIT01	PENELEC_RESID_AGG	103.2
TMI 20 KV UNIT01	WELLSBORO	0.8
WCATWIND34.5 KV WLDCATWF	AEPAPCO_RESID_AGG	2.6
WCATWIND34.5 KV WLDCATWF	AEPKY_RESID_AGG	0.4
WCATWIND34.5 KV WLDCATWF	AEPOHIO W.O. MON POWER	1.5
WCATWIND34.5 KV WLDCATWF	BLUE RIDGE	0.5
WESTDPL 12 KV G1	DPL	2.1
WESTDPL 12 KV G1	DPL_RESID_AGG	0.1
WOODBDRG18 KV CT-1A	BRUNSWICK	0.6
WOODBDRG18 KV CT-1A	HILLSDALE_PARKRIDGE	0.4
WOODBDRG18 KV CT-1A	PSEG_RESID_AGG	241.4
ZELDA 18 KV UNIT 1	BUCK-CIN	0.1
ZELDA 18 KV UNIT 1	BUCKEYE - DPL	0.1
ZELDA 18 KV UNIT 2	BUCK-CIN	0.1
ZELDA 18 KV UNIT 2	BUCKEYE - DPL	0.1
ZELDA 18 KV UNIT 3	BUCK-CIN	0.1
ZELDA 18 KV UNIT 3	BUCKEYE - DPL	0.1
ZIMMER2 25 KV G1	DEOK_RESID_AGG	314.7