

PJM 2015/2016 Stage 1A Over allocation notice

This document is to inform PJM members that Stage 1A of the 2015/2016 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 2015/2016 ARR Allocation and all FTR Auctions effective for the 2015/2016 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
02BRIM 138 KV 02B-BTAP	138/69.Maclean.TR1	9	Internal PJM	Transmission Outage
0621 Byron-Cherry Valley 345 kV I/o 0622 Byron-Cherry Valley 345 kV		142	M2M Flowgate	Network Load
0622 Byron-Cherry Valley 345 kV I/o 0621 Byron-Cherry Valley 345 kV		161	M2M Flowgate	Network Load
119 LANC138 KV 11901 1	Cherry Valley TR83 345/138+Byrn-Chry Vly 0621 345	6	Internal PJM	Transmission Outage
121 FREE138 KV 11901 Z1	Cherry Valley TR83 345/138+Byrn-Chry Vly 0621 345	6	Internal PJM	Transmission Outage
12205-151 Woodstock 138 kV I/o Cherry Valley-Silver Lake 345 kV		15	M2M Flowgate	Network Load
155 NELS345 KV TR84CT-P	Nelson-Electric Jct 345+Cordova-Nelson 345	79	Internal PJM	Network Load
156 CHER345 KV TR82CT-P	Chry Vly-Sivr Lk 345+Zion-Lakeview 138 (SPS)	29	Internal PJM	Transmission Outage
156 CHER345 KV TR83CT-P	L345.CherryValley-SilverLake+CherryValley.TR81	181	Internal PJM	Network Load
15616 Cherry Valley-Silver Lake I/o 15502 Nelson-Electric Jct.		260	M2M Flowgate	Network Load
15623-Belvidere 138 I/o Cherry Valley-Silver Lake 345		41	M2M Flowgate	Network Load

Equipment Name	Contingency Description	Required MW Increase in Capability Limits	Type	Reason for Infeasibility
171 WEMP138 KV TR84CT-S	Cherry Valley TR83 345/138+Byrn-Chry Vly 0621 345	334	Internal PJM	Transmission Outage
171 WEMP345 KV TR84CT-P	Cherry Valley TR83 345/138+Byrn-Chry Vly 0621 345	334	Internal PJM	Transmission Outage
6101-Hennepin 138 I/o Oglesby Tap 138 sub		26	M2M Flowgate	Network Load
6101-Hennepin 138 I/o Princetp 138 Sub		31	M2M Flowgate	Network Load
6101tap_Hennepin138_FLO_Kewanee_CrescentRidgeWF138		21	M2M Flowgate	Network Load
Babcock-Stillwell 345 KV I/o WiltonCenter-Dumont 765 KV		96	M2M Flowgate	Network Load
Beaver Channel - Sub_49 FLO Cordova-Sub 39 345kV & Sub 39 TR1 345/161 kv		13	M2M Flowgate	Network Load
Beaver Channel-Albany 161 I/o Quad Cities-H471 ESS 345		16	M2M Flowgate	Network Load
BEAVER CHANNEL-ALBANY 161KV flo NELSON-STERLING STEEL 345KV		16	M2M Flowgate	Network Load
Beaver_Channel_Albany_161_flo_Cordova_Nelson_345		16	M2M Flowgate	Network Load
Belvidere-12205 138 I/o Cherry Valley-Silver Lake 345		61	M2M Flowgate	Network Load
BERGENFI230 KV BER-LEOO	L230.Athenia-Belleville.Z-2226	65	Internal PJM	Network Load
BERGENFI230 KV BER-LEOO		83	Internal PJM	Network Load
BERGENFI230 KV BER-NEWO	L230.Athenia-Belleville.Z-2226	118	Internal PJM	Network Load
BERGENFI230 KV BER-NEWO		134	Internal PJM	Network Load
Breed-Wheatland 345 kv line I/o Rockport-Jefferson 765 kv line		347	M2M Flowgate	Network Load
Brokaw_Cornbelt138_FLO_Pontiac_Blue mound345		11	M2M Flowgate	Network Load
BUTL APS138 KV BUT-KAR	L345.Armstrong-HomerCity	17	Internal PJM	Network Load
Byron-Cherry Valley 0621 345 kv I/o Byron-Wempletown 345 kv		32	M2M Flowgate	Network Load
CENTREVL69 KV CNT-PRI	L230 Keeney-Steele 23001/23009 lines Double	7	Internal PJM	Transmission Outage
Cherry Valley-Silver Lake (15616) 345 kv line		167	M2M Flowgate	Network Load
CHURCH 69 KV CHU-IBC	L230 Keeney-Steele 23001/23009 lines Double	16	Internal PJM	Transmission Outage
CHURCH 69 KV CHU-NME	L230 Keeney-Steele 23001/23009 lines Double	36	Internal PJM	Transmission Outage
Coffeen-Roxford 345 (flo) Newton-Xenia 345		13	M2M Flowgate	Network Load
Dixon-McGirr Rd 138 kv I/o Nelson-Electric Jct 345 kv		2	M2M Flowgate	Network Load
E Frankfort-Goodings Grove 345-kV (11601 line)		61	M2M Flowgate	Network Load
Galesburg 161/138 Xfm #2 flo Electric Jct.-Nelson B 345		72	M2M Flowgate	Network Load
Galesburg 161/138 Xfmr 4 flo Nelson - Sterling (H471ESS) 345KV		45	M2M Flowgate	Network Load
Gillespie Tap-Laclede Tap 138 (flo) Coffeen-Roxford 345		35	M2M Flowgate	Network Load
IBCORN 69 KV IBC-PRI	L230 Keeney-Steele 23001/23009 lines Double	11	Internal PJM	Transmission Outage
IP_1352_Pwr_Jct_flo_Nelson_Electric_Jct		95	M2M Flowgate	Network Load
KENNEY 69 KV KEN-MTO	L138.NewChurch-PineyGrove.13764	66	Internal PJM	Transmission Outage
KENNEY 69 KV KEN-STO	L138.NewChurch-PineyGrove.13764	75	Internal PJM	Transmission Outage
KENT 69 KV KEN-NME	L230 Keeney-Steele 23001/23009 lines Double	25	Internal PJM	Transmission Outage
Kewanee-6101 138 I/o Oglesby Tap 138 sub		20	M2M Flowgate	Network Load
Kewanee-Edwards 138 kv I/o Edwards unit 3		5	M2M Flowgate	Network Load
Kewanee-Edwards 138 kv I/o Nelson-Electric Jct 345 kv		25	M2M Flowgate	Network Load
Kewanee-Edwards 138kv (flo) Duck Crk-Tazewell 345kv		24	M2M Flowgate	Network Load
Kyger Creek-Sporn 345 kv		72	M2M Flowgate	Network Load
LAURELDP69 KV LAU-SHA	L69.Harbeson-Sussex.6742	5	Internal PJM	Transmission Outage
Loretto-Wilton Center 345 kv I/o Pontiac-Dresden 345 kv + TR82		155	M2M Flowgate	Network Load
MarengoTap-PlsntValley12204-2)138kv I/o ChryVly-SilverLake(15616)345KV		81	M2M Flowgate	Network Load
MONR AE 69 KV MON-VINE	L230.Churchtown-Orchard-Cumberland	28	Internal PJM	Transmission Outage
MTOLIVE 69 KV MTO-PIN	L138.NewChurch-PineyGrove.13764	54	Internal PJM	Transmission Outage
Nelson 345/138 TR82 I/o Nelson-Electric Jct 345		45	M2M Flowgate	Network Load
Nelson-Electric Jct (15502) I/o Cherry Val-Silver Lake (15616)		264	M2M Flowgate	Network Load
Nelson-Electric Junction (15502) I/o Byron-Cherry Valley (0621)		183	M2M Flowgate	Network Load
Oak Grove-Galesburg 161kv (flo) Byron-LeeCo 345kv		47	M2M Flowgate	Network Load
Oak Grove_Galesburg_flo_Nelson_ElectricJct		87	M2M Flowgate	Network Load
Oakgrove_Galesburg_161_FLO_Cordova_Nelson_345		59	M2M Flowgate	Network Load
OAKGROVE_GALESBURG161_flo_STERLING_STL_NELSON345		59	M2M Flowgate	Network Load
Ottawa-Oglesby 138 (flo) Hennepin-Oglesby 138		6	M2M Flowgate	Network Load
Paddock-Townline 138 (flo) Paddock-Blackhawk 138		10	M2M Flowgate	Network Load
Pana - Moweaq Tap 138 (flo) Kincaid - Latham - Blue Mound 345		62	M2M Flowgate	Network Load
Pana345_138kvXFMR_flo_Kincaid_Lanesvil_Kincaid_Pawnee345		197	M2M Flowgate	Network Load
Pana345_138kvXFMR_flo_Kincaid_Latham_BlueMound345kv		36	M2M Flowgate	Network Load
Pana345by138_flo_KncaidUnit2_Kncaid_Lnesvle345		256	M2M Flowgate	Network Load
Pawnee - Auburn 138 (flo) Kincaid - Latham - Blue Mound 345		118	M2M Flowgate	Network Load
Pawnee 345/138 xfmr (flo) Coffeen - Pana - Kincaid 345		29	M2M Flowgate	Network Load
Pierce-Foster 345 kv I/o East Bend-Terminal 345 kv		19	M2M Flowgate	Network Load
Pleasant Prairie-Zion 345 kv		29	M2M Flowgate	Network Load
Pleasant Prairie-ZionEc 345 I/o Pleasant Prairie-Zion + Arcadian-Zion		70	M2M Flowgate	Network Load
Pontiac-Wilton Ctr 345 (flo) Pontiac-Dresden 345 + Pontiac 345/138 xfmr		171	M2M Flowgate	Network Load
Princetp-LTVSteel 138 I/o Oglesby Tap Sub		7	M2M Flowgate	Network Load
Quad Cities-Cordova 0402 345 I/o Quad Cities-Cordova 0403 345		13	M2M Flowgate	Network Load
Rantoul_RantJct_138_flo_NChmpgn_Mahmet_Rsng_138		25	M2M Flowgate	Network Load
Rantoul-Rantoul Jct 138kv (flo) Clinton-Brokaw 345kv		11	M2M Flowgate	Network Load
Rising 345/138 TR1 (flo) Dresden - Pontiac 345kv		8	M2M Flowgate	Network Load
Rising 345/138 XFMR 1 (flo) Clinton - Brokaw 345kv		36	M2M Flowgate	Network Load
Rising_345_138_TR1_FLO_Pontiac_BlueMound345		36	M2M Flowgate	Network Load
SHARP 69 KV SHA-VIE	L69.Harbeson-Sussex.6742	6	Internal PJM	Transmission Outage
Stillwell_Dumont345_flo_WiltonCenter_Dumont765		142	M2M Flowgate	Network Load
Wheatland-Petersburg 345 I/o Rockport-Jefferson 765		345	M2M Flowgate	Network Load

Listed below are the aggregate MW quantities, by source and sinks, of infeasible ARR in Stage 1A of the 2015/2016 Annual ARR Allocation.

Source	Sink	Infeasible MW Quantity
1 LASALL24 KV LA-1	BATAVIA	3
1 LASALL24 KV LA-1	COMED	45.9
1 LASALL24 KV LA-1	COMED_RESID_AGG	821.8
1 LASALL24 KV LA-1	GENEVA	1.5
1 LASALL24 KV LA-1	NAPERVILLE	15
1 LASALL24 KV LA-1	ST. CHARLES	5.6
1 LASALL24 KV LA-2	BATAVIA	3
1 LASALL24 KV LA-2	COMED	43.2
1 LASALL24 KV LA-2	COMED_RESID_AGG	752.6
1 LASALL24 KV LA-2	GENEVA	1.5
1 LASALL24 KV LA-2	NAPERVILLE	13.1
1 LASALL24 KV LA-2	ST. CHARLES	5.7
21 KINCA20 KV KN-1	BATAVIA	2.6
21 KINCA20 KV KN-1	COMED	29.5
21 KINCA20 KV KN-1	COMED_RESID_AGG	522.6
21 KINCA20 KV KN-1	GENEVA	1.5
21 KINCA20 KV KN-1	NAPERVILLE	8.9
21 KINCA20 KV KN-1	ROCHELLE	1.2
21 KINCA20 KV KN-1	ST. CHARLES	3.3
21 KINCA20 KV KN-2	BATAVIA	2.6
21 KINCA20 KV KN-2	COMED	29.5
21 KINCA20 KV KN-2	COMED_RESID_AGG	521.3
21 KINCA20 KV KN-2	GENEVA	1.5
21 KINCA20 KV KN-2	NAPERVILLE	8.9
21 KINCA20 KV KN-2	ROCHELLE	1.2
21 KINCA20 KV KN-2	ST. CHARLES	3.3
4 QUAD C18 KV QC-1	BATAVIA	2.8
4 QUAD C18 KV QC-1	COMED	30.9
4 QUAD C18 KV QC-1	COMED_RESID_AGG	548.8
4 QUAD C18 KV QC-1	GENEVA	1.6
4 QUAD C18 KV QC-1	NAPERVILLE	9.2
4 QUAD C18 KV QC-1	ROCHELLE	1.1
4 QUAD C18 KV QC-1	ST. CHARLES	3.4
4 QUAD C18 KV QC-2	BATAVIA	2.8
4 QUAD C18 KV QC-2	COMED	30.9
4 QUAD C18 KV QC-2	COMED_RESID_AGG	548.8
4 QUAD C18 KV QC-2	GENEVA	1.6

Source	Sink	Infeasible MW Quantity
4 QUAD C18 KV QC-2	NAPERVILLE	9.2
4 QUAD C18 KV QC-2	ROCHELLE	1.1
4 QUAD C18 KV QC-2	ST. CHARLES	3.4
6 BYRON 25 KV BY-1	BATAVIA	4.5
6 BYRON 25 KV BY-1	COMED	47.6
6 BYRON 25 KV BY-1	COMED_RESID_AGG	906.1
6 BYRON 25 KV BY-1	GENEVA	2.7
6 BYRON 25 KV BY-1	NAPERVILLE	15.3
6 BYRON 25 KV BY-1	ROCHELLE	1.8
6 BYRON 25 KV BY-1	ST. CHARLES	5.8
6 BYRON 25 KV BY-2	BATAVIA	4.4
6 BYRON 25 KV BY-2	COMED	46.4
6 BYRON 25 KV BY-2	COMED_RESID_AGG	882.7
6 BYRON 25 KV BY-2	GENEVA	2.6
6 BYRON 25 KV BY-2	NAPERVILLE	14.9
6 BYRON 25 KV BY-2	ROCHELLE	1.7
6 BYRON 25 KV BY-2	ST. CHARLES	5.6
937 LEE 13.5 KV LEE31-1	BATAVIA	0.2
937 LEE 13.5 KV LEE31-1	COMED	3.2
937 LEE 13.5 KV LEE31-1	COMED_RESID_AGG	59.7
937 LEE 13.5 KV LEE31-1	GENEVA	0.2
937 LEE 13.5 KV LEE31-1	NAPERVILLE	1.1
937 LEE 13.5 KV LEE31-1	ROCHELLE	0.1
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	3.2
937 LEE 13.5 KV LEE31-2	COMED_RESID_AGG	59.6
937 LEE 13.5 KV LEE31-2	GENEVA	0.2
937 LEE 13.5 KV LEE31-2	NAPERVILLE	1.1
937 LEE 13.5 KV LEE31-2	ROCHELLE	0.1
937 LEE 13.5 KV LEE31-2	ST. CHARLES	0.3
937 LEE 13.5 KV LEE33-1	BATAVIA	0.2
937 LEE 13.5 KV LEE33-1	COMED	3.2
937 LEE 13.5 KV LEE33-1	COMED_RESID_AGG	59.6
937 LEE 13.5 KV LEE33-1	GENEVA	0.2
937 LEE 13.5 KV LEE33-1	NAPERVILLE	1.1
937 LEE 13.5 KV LEE33-1	ROCHELLE	0.1
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	3.2

Source	Sink	Infeasible MW Quantity
937 LEE 13.5 KV LEE33-2	COMED_RESID_AGG	59.6
937 LEE 13.5 KV LEE33-2	GENEVA	0.2
937 LEE 13.5 KV LEE33-2	NAPERVILLE	1.1
937 LEE 13.5 KV LEE33-2	ROCHELLE	0.1
937 LEE 13.5 KV LEE33-2	ST. CHARLES	0.3
AMOS 26 KV AM1	BUCK-CIN	0.2
AMOS 26 KV AM3	BUCK-CIN	0.3
BAKER 26 KV BS2	BUCK-CIN	0.2
BECKJORD13.8 KV UN2	DEOK_RESID_AGG	0.2
BECKJORD22 KV UN5	DEOK_RESID_AGG	0.2
BECKJORD24 KV BK6_A	AEPOHIO W.O. MON POWER	0.1
BECKJORD24 KV BK6_A	AMP-OHIO	0.2
BECKJORD24 KV BK6_C	DEOK	0.1
BECKJORD24 KV BK6_C	DEOK_RESID_AGG	101.7
BECKJORD24 KV BK6_C	WILLIAMSTOWN	0.2
BECKJORD24 KV BK6_D	DAY_RESID_AGG	39.1
BLAIRSVE22 KV CONMDM	PENELEC_RESID_AGG	0.3
BRIDGEPO22 KV LOGAN	AECO	3.7
BRIDGEPO22 KV LOGAN	VINELAND	8.9
BRUNSWIC13 KV EDGEBORO	PSEG	0.3
BRUNSWIC13 KV EDGEBORO	PSEG_RESID_AGG	1.2
BURGER 138 KV EMDS	FEOHIO_RESID_AGG	3.8
BURLINGT13 KV UN111	PSEG_RESID_AGG	1.5
BURLINGT13 KV UN112	PSEG_RESID_AGG	0.2
BURLINGT13 KV UN113	PSEG_RESID_AGG	0.1
BURLINGT13 KV UN114	PSEG_RESID_AGG	1.5
BURLINGT13 KV UNIT08	PSEG_RESID_AGG	16.6
CAMBRIA 13 KV NUG GE	PENELEC	0.9
CAMBRIA 13 KV NUG GE	PENELEC_RESID_AGG	10.5
CAMDENGN13 KV CMDN#2	PSEG	6.1
CAMDENGN13 KV CMDN#2	PSEG_RESID_AGG	44.4
CHAMBERS23 KV CCLPGEN	AECO	0.9
CHAMBERS23 KV CCLPGEN	VINELAND	10
CHR138 12 KV G11	DPL	0.9
CHR138 12 KV G11	DPL_ODEC	1.2
CHR138 12 KV G14	DPL	0.2
CLARKOE 14 KV MR81	FEOHIO_RESID_AGG	0.8
CLARKOE 14 KV MR82	FEOHIO_RESID_AGG	0.8
CONEMAUG115 KV DIESEL	DPL_ODEC	0.1
CONEMAUG115 KV DIESEL	PSEG_RESID_AGG	0.3

Source	Sink	Infeasible MW Quantity
CONEMAUG115 KV DIESEL	VINELAND	0.1
CONEMAUG22 KV UNIT 1	AECO	1
CONEMAUG22 KV UNIT 1	AECO_RESID_AGG	0.6
CONEMAUG22 KV UNIT 1	DPL	1.3
CONEMAUG22 KV UNIT 1	DPL_ODEC	5.1
CONEMAUG22 KV UNIT 1	PSEG	7.7
CONEMAUG22 KV UNIT 1	PSEG_RESID_AGG	88.5
CONEMAUG22 KV UNIT 1	VINELAND	1.3
CONEMAUG22 KV UNIT02	AECO	1
CONEMAUG22 KV UNIT02	AECO_RESID_AGG	0.6
CONEMAUG22 KV UNIT02	DPL	1.3
CONEMAUG22 KV UNIT02	DPL_ODEC	5.1
CONEMAUG22 KV UNIT02	PSEG	7.7
CONEMAUG22 KV UNIT02	PSEG_RESID_AGG	88.6
CONEMAUG22 KV UNIT02	VINELAND	1.3
CONESVIL26 KV CV4	DEOK	0.1
CONESVIL26 KV CV4	DEOK_RESID_AGG	217.6
COOK 26 KV CK1	BUCK-CIN	0.3
COOK 26 KV CK2	BUCK-CIN	0.3
DAVISBES25 KV DB10	FEOHIO_RESID_AGG	12.5
DEEPCRK 12 KV NO 1 G	PENELEC	0.1
DEEPCRK 12 KV NO 1 G	PENELEC_RESID_AGG	2.6
DEEPCRK 12 KV NO 2 G	PENELEC	0.1
DEEPCRK 12 KV NO 2 G	PENELEC_RESID_AGG	2.6
DELA DPL13 KV G1	DPL	1.2
DELA DPL13 KV G1	DPL_ODEC	4.6
DELA DPL13 KV G10	DPL	0.5
DELA DPL13 KV G10	DPL_ODEC	2.6
DELA DPL13 KV G2	DPL	1.2
DELA DPL13 KV G2	DPL_ODEC	4.6
DELCOTAP13 KV DELCO	AECO	2.1
DELCOTAP13 KV DELCO	AECO_RESID_AGG	0.4
DELCOTAP13 KV DELCO	VINELAND	3.1
EAGLEGEN13 KV EGLE#1	PSEG	2.6
EAGLEGEN13 KV EGLE#1	PSEG_RESID_AGG	20.8
EAGLEGEN13 KV EGLE#2	PSEG	2.6
EAGLEGEN13 KV EGLE#2	PSEG_RESID_AGG	20.7
EAGLEGEN13 KV EGLE#3	PSEG	2.6
EAGLEGEN13 KV EGLE#3	PSEG_RESID_AGG	20.6
EASTLAKE24 KV SC5	FEOHIO_RESID_AGG	0.4

Source	Sink	Infeasible MW Quantity
EBEND 20 KV EB2	DEK	288.4
EBENSBUR13 KV NUG GE	PENELEC	0.5
EBENSBUR13 KV NUG GE	PENELEC_RESID_AGG	5.8
EDGEMOOR12 KV G10	DPL	0.4
EDGEMOOR12 KV G10	DPL_ODEC	2.1
EDGEMOOR13 KV HAYRD1	DPL	4.8
EDGEMOOR13 KV HAYRD1	DPL_ODEC	18.3
EDGEMOOR13 KV HAYRD2	DPL	4.7
EDGEMOOR13 KV HAYRD2	DPL_ODEC	18.3
EDGEMOOR13 KV HAYRD3	DPL	4.8
EDGEMOOR13 KV HAYRD3	DPL_ODEC	18.3
EDGEMOOR13 KV HAYRD4	DPL	7.8
EDGEMOOR13 KV HAYRD4	DPL_ODEC	28.6
EDGEMOOR13 KV UNIT03	DPL	3.7
EDGEMOOR13 KV UNIT03	DPL_ODEC	14
EDGEMOOR19 KV UNIT04	DPL	7.6
EDGEMOOR19 KV UNIT04	DPL_ODEC	28.4
EDGEMOOR23 KV UNIT05	DPL	20.4
EDGEMOOR23 KV UNIT05	DPL_ODEC	72.6
EDISON 13 KV UNIT11	PSEG_RESID_AGG	1.7
EDISON 13 KV UNIT12	PSEG_RESID_AGG	1.7
EDISON 13 KV UNIT13	PSEG_RESID_AGG	1.7
EDISON 13 KV UNIT14	PSEG_RESID_AGG	1.7
EDISON 13 KV UNIT21	PSEG_RESID_AGG	1.9
EDISON 13 KV UNIT22	PSEG_RESID_AGG	1.9
EDISON 13 KV UNIT23	PSEG_RESID_AGG	1.9
EDISON 13 KV UNIT24	PSEG_RESID_AGG	1.9
EDISON 13 KV UNIT31	PSEG_RESID_AGG	1.7
EDISON 13 KV UNIT32	PSEG_RESID_AGG	1.7
EDISON 13 KV UNIT33	PSEG_RESID_AGG	1.7
EDISON 13 KV UNIT34	PSEG_RESID_AGG	1.7
FORDMILL18 KV FE 1ACT	AECO	0.1
FORDMILL18 KV FE 1BCT	AECO	0.1
FORDMILL18 KV FE 1STM	AECO	0.1
FORDMILL18 KV FE 2ACT	AECO	0.1
FORDMILL18 KV FE 2BCT	AECO	0.1
FREMONTE18 KV FT1	FEOHIO_RESID_AGG	5.6
FREMONTE18 KV FT2	FEOHIO_RESID_AGG	5.6
FREMONTE23 KV FT3	FEOHIO_RESID_AGG	10.2
FTMARTIN22 KV GEN 1	AEC - AP	2.8

Source	Sink	Infeasible MW Quantity
FTMARTIN22 KV GEN 2	AEC - AP	2.8
GAVINAEP26 KV GV1	BUCK-CIN	0.3
GAVINAEP26 KV GV2	BUCK-CIN	0.3
GLOUCEST230 KV NATPRK	PSEG	1
GLOUCEST230 KV NATPRK	PSEG_RESID_AGG	9.7
GRANTTOW18 KV ABPP NUG	AEC - AP	0.4
HARR APS20 KV GEN 1	AEC - AP	3.3
HARR APS20 KV GEN 2	AEC - AP	3.3
HARR APS20 KV GEN 3	AEC - AP	3.3
HOMERCIT20 KV UNIT 1	PENELEC	8.7
HOMERCIT20 KV UNIT 1	PENELEC_RESID_AGG	103.6
HOMERCIT20 KV UNIT 1	WELLSBORO	0.5
HOMERCIT20 KV UNIT 2	PENELEC	8.3
HOMERCIT20 KV UNIT 2	PENELEC_RESID_AGG	98.2
HOMERCIT20 KV UNIT 2	WELLSBORO	0.4
HOMERCIT24 KV UNIT 3	PENELEC	8.9
HOMERCIT24 KV UNIT 3	PENELEC_RESID_AGG	102.7
HOMERCIT24 KV UNIT 3	WELLSBORO	0.4
HOPECREE25 KV UNIT 1	AECO	0.1
HOPECREE25 KV UNIT 1	AECO_RESID_AGG	0.7
HOPECREE25 KV UNIT 1	PSEG	19.5
HOPECREE25 KV UNIT 1	PSEG_RESID_AGG	414.5
JKSMT_EK13.8 KV JKSMT10	EKPC-DEOK LOAD	0.2
KEYSTONE20 KV UNIT 1	AECO	0.6
KEYSTONE20 KV UNIT 1	AECO_RESID_AGG	0.2
KEYSTONE20 KV UNIT 1	DPL	1.3
KEYSTONE20 KV UNIT 1	DPL_ODEC	5.1
KEYSTONE20 KV UNIT 1	PSEG	7.8
KEYSTONE20 KV UNIT 1	PSEG_RESID_AGG	88.9
KEYSTONE20 KV UNIT 1	VINELAND	0.8
KEYSTONE20 KV UNIT 2	AECO	0.6
KEYSTONE20 KV UNIT 2	AECO_RESID_AGG	0.2
KEYSTONE20 KV UNIT 2	DPL	1.3
KEYSTONE20 KV UNIT 2	DPL_ODEC	5.1
KEYSTONE20 KV UNIT 2	PSEG	7.8
KEYSTONE20 KV UNIT 2	PSEG_RESID_AGG	88.9
KEYSTONE20 KV UNIT 2	VINELAND	0.8
KEYSTONE20 KV UNIT 3	DPL_ODEC	0.1
KEYSTONE20 KV UNIT 3	PSEG_RESID_AGG	0.3
KEYSTONE20 KV UNIT 3	VINELAND	0.1

Source	Sink	Infeasible MW Quantity
KILLEN 23.4 KV KI2	DEOK_RESID_AGG	127.4
LAKESHOR18 KV LS18	FEOHIO_RESID_AGG	0.2
LEMOYNE218 KV UN1	FEOHIO_RESID_AGG	0.1
LEMOYNE218 KV UN2	FEOHIO_RESID_AGG	0.1
LEMOYNE218 KV UN3	FEOHIO_RESID_AGG	0.1
LEMOYNE218 KV UN4	FEOHIO_RESID_AGG	0.1
MANSFIEL17 KV UN1	FEOHIO_RESID_AGG	38.1
MANSFIEL17 KV UN2	FEOHIO_RESID_AGG	38.1
MANSFIEL17 KV UN3	FEOHIO_RESID_AGG	38.1
MERCER 13 KV UNIT03	PSEG	5
MERCER 13 KV UNIT03	PSEG_RESID_AGG	12.2
MERCER 13 KV WHNUG	PSEG	1.6
MERCER 13 KV WHNUG	PSEG_RESID_AGG	7.7
MERCER 18 KV UNIT01	PSEG	12.8
MERCER 18 KV UNIT01	PSEG_RESID_AGG	99.9
MERCER 18 KV UNIT02	PSEG	12.8
MERCER 18 KV UNIT02	PSEG_RESID_AGG	62.5
MIAMIFOR13.2 KV CT3	DEOK_RESID_AGG	0.2
MIAMIFOR13.2 KV CT4	DEOK_RESID_AGG	0.2
MIAMIFOR13.2 KV CT5	DEOK_RESID_AGG	0.2
MIAMIFOR13.2 KV CT6	DEOK_RESID_AGG	0.2
MIAMIFOR22 KV MI7	DEOK_RESID_AGG	118.5
MIAMIFOR22 KV MI8	DEOK_RESID_AGG	114.6
MICKLETO69 KV CT_1	AECO	0.9
MICKLETO69 KV CT_1	VINELAND	2.4
MISO	AEC - AP	2.9
MISO	AEPAPCO_RESID_AGG	50.5
MISO	AEPIM_RESID_AGG	48.4
MISO	AEPKY_RESID_AGG	8.6
MISO	AEPOHIO W.O. MON POWER	55.5
MISO	AK STEEL	0.2
MISO	AMP-OHIO	6.5
MISO	APS	0.8
MISO	APS_RESID_AGG	148.9
MISO	BLUE RIDGE	2.2
MISO	BUCK-CIN	0.1
MISO	BUCK-FE	0.2
MISO	DAY_RESID_AGG	23
MISO	DUKEXP	14.5
MISO	HREA - AP	0.3

Source	Sink	Infeasible MW Quantity
MISO	LIDA - AP	0.1
MISO	MERIDIAN EWHITLEY	1.3
MISO	MON POWER	4.3
MISO	NEWMARTINSVILLE-AP	0.1
MISO	PHILIPPI - AP	0.1
MOUNTAIN26 KV MT1	BUCK-CIN	0.3
N ILLINOIS HUB	COOK	301
NORTHST 12 KV G11	DPL	0.1
OVEC	AEC - AP	1.7
OVEC	AEPOHIO W.O. MON POWER	0.1
OVEC	AMP-OHIO	1.5
OVEC	APS	0.6
OVEC	APS_RESID_AGG	85.4
OVEC	DAY_RESID_AGG	42.4
OVEC	HREA - AP	0.2
OVEC	LIDA - AP	0.1
OVEC	MON POWER	2.5
OVEC	PHILIPPI - AP	0.1
PEACHBOT22 KV UNIT02	AECO	2.7
PEACHBOT22 KV UNIT02	AECO_RESID_AGG	2.3
PEACHBOT22 KV UNIT02	DPL	3.6
PEACHBOT22 KV UNIT02	DPL_ODEC	13.4
PEACHBOT22 KV UNIT02	PSEG	19.3
PEACHBOT22 KV UNIT02	PSEG_RESID_AGG	217.5
PEACHBOT22 KV UNIT02	VINELAND	3.4
PEACHBOT22 KV UNIT03	AECO	2.7
PEACHBOT22 KV UNIT03	AECO_RESID_AGG	2.3
PEACHBOT22 KV UNIT03	DPL	3.6
PEACHBOT22 KV UNIT03	DPL_ODEC	13.4
PEACHBOT22 KV UNIT03	PSEG	19.3
PEACHBOT22 KV UNIT03	PSEG_RESID_AGG	217.5
PEACHBOT22 KV UNIT03	VINELAND	3.4
PEDRICKT13.8 KV PCLP	AECO	1.6
PEDRICKT13.8 KV PCLP	VINELAND	4.7
PENNMAR 22 KV YOUGH	PENELEC_RESID_AGG	1.2
PLEA APS26 KV GEN 1	AEC - AP	3.2
PLEA APS26 KV GEN 2	AEC - AP	0.5
RIVESVIL138 KV SS LOAD	AEC - AP	0.7
ROCKPOR226 KV RP1	AEPAPCO_RESID_AGG	228.8
ROCKPOR226 KV RP1	AEPIM_RESID_AGG	85.9

Source	Sink	Infeasible MW Quantity
ROCKPOR226 KV RP1	AEPKY_RESID_AGG	42.4
ROCKPOR226 KV RP1	AEPOHIO W.O. MON POWER	202.5
ROCKPOR226 KV RP1	AMP-OHIO	2.2
ROCKPOR226 KV RP1	BLUE RIDGE	10.9
ROCKPOR226 KV RP1	BUCK-CIN	0.5
ROCKPOR226 KV RP1	BUCK-FE	0.9
ROCKPOR226 KV RP1	DAY_RESID_AGG	1.4
ROCKPOR226 KV RP1	MERIDIAN EWHITLEY	4.3
ROCKPOR226 KV RP1	MON POWER	0.1
ROCKPOR226 KV RP2	AEPAPCO_RESID_AGG	228.8
ROCKPOR226 KV RP2	AEPIM_RESID_AGG	85.9
ROCKPOR226 KV RP2	AEPKY_RESID_AGG	42.4
ROCKPOR226 KV RP2	AEPOHIO W.O. MON POWER	202.5
ROCKPOR226 KV RP2	AMP-OHIO	2.2
ROCKPOR226 KV RP2	BLUE RIDGE	10.9
ROCKPOR226 KV RP2	BUCK-CIN	0.5
ROCKPOR226 KV RP2	BUCK-FE	0.9
ROCKPOR226 KV RP2	DAY_RESID_AGG	1.4
ROCKPOR226 KV RP2	MERIDIAN EWHITLEY	4.3
ROCKPOR226 KV RP2	MON POWER	0.1
SALEM 13 KV SALEM3	DPL_ODEC	0.4
SALEM 13 KV SALEM3	PSEG	0.7
SALEM 13 KV SALEM3	PSEG_RESID_AGG	10.7
SALEM 13 KV SALEM3	VINELAND	0.1
SALEM 25 KV SALEM1	AECO	0.2
SALEM 25 KV SALEM1	AECO_RESID_AGG	1.8
SALEM 25 KV SALEM1	DPL	3.6
SALEM 25 KV SALEM1	DPL_ODEC	13.4
SALEM 25 KV SALEM1	PSEG	19.4
SALEM 25 KV SALEM1	PSEG_RESID_AGG	202.9
SALEM 25 KV SALEM1	VINELAND	2.2
SALEM 25 KV SALEM2	AECO	1.6
SALEM 25 KV SALEM2	AECO_RESID_AGG	1.6
SALEM 25 KV SALEM2	DPL	3.6
SALEM 25 KV SALEM2	DPL_ODEC	13.4
SALEM 25 KV SALEM2	PSEG	19.4
SALEM 25 KV SALEM2	PSEG_RESID_AGG	209.2
SAMMISFE138 KV SL91	FEOHIO_RESID_AGG	0.4
SAMMISFE19 KV SH30	FEOHIO_RESID_AGG	7.8
SAMMISFE19 KV SH40	FEOHIO_RESID_AGG	7.8

Source	Sink	Infeasible MW Quantity
SAMMISFE19 KV SH60	FEOHIO_RESID_AGG	28
SAMMISFE19 KV SH70	FEOHIO_RESID_AGG	28
SAMMISFE19 KV SL10	FEOHIO_RESID_AGG	7.8
SAMMISFE19 KV SL20	FEOHIO_RESID_AGG	7.8
SAMMISFE23.4 KV SH50	FEOHIO_RESID_AGG	13.2
SEWARD 22 KV UNIT1	PENELEC	4.6
SEWARD 22 KV UNIT1	PENELEC_RESID_AGG	57.3
SEWARD 22 KV UNIT1	WELLSBORO	0.2
SPURLOCK18 KV SPURLK3	EKPC-DEOK LOAD	1.3
SPURLOCK18 KV SPURLK4	EKPC-DEOK LOAD	2.2
SPURLOCK22 KV SPURLK1	EKPC-DEOK LOAD	1.2
SPURLOCK22 KV SPURLK2	EKPC-DEOK LOAD	1.2
STUART2 22.8 KV ST1	DEOK_RESID_AGG	132.6
STUART2 22.8 KV ST2	DEOK_RESID_AGG	132.5
STUART2 22.8 KV ST3	DEOK_RESID_AGG	132
STUART2 22.8 KV ST4	DEOK_RESID_AGG	127.6
SUSQUEHA24 KV UNIT01	PENELEC_RESID_AGG	15.2
SUSQUEHA24 KV UNIT02	PENELEC_RESID_AGG	15.4
TANNERSC20 KV TC4	BUCK-CIN	0.1
TIDD_AEP24 KV CD1	BUCK-CIN	0.2
TIDD_AEP24 KV CD2	BUCK-CIN	4.2
TIDD_AEP26 KV CD3	BUCK-CIN	4.2
TMI 20 KV UNIT01	PENELEC_RESID_AGG	0.5
TRENTON 138 KV TDEC	PSEG	0.4
TRENTON 138 KV TDEC	PSEG_RESID_AGG	0.4
VALERO 69 KV MOBIL	AECO	0.5
VALERO 69 KV MOBIL	VINELAND	1.7
WALDWICK JK	HUDSON-LINDEN ABC	257.8
WARRIORN13 KV GEN1	AEC - AP	0.9
WESTDPL 12 KV G1	DPL	0.4
WESTDPL 12 KV G1	DPL_ODEC	2.4
WOODSDAL13.5 KV CT1	DEK	5.2
YARDSCRE14 KV UNIT01	PSEG_RESID_AGG	13.1
YARDSCRE14 KV UNIT02	PSEG_RESID_AGG	13
YARDSCRE14 KV UNIT03	PSEG_RESID_AGG	10.9