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January 6, 2017

The Honorable Kimberly D. Bose
Secretary
Federal Energy Regulatory Commission
888 First Street, N.E.
Washington, DC 20426

Re: PJM Interconnection, L.L.C.
Docket No. ER17-214-001
Docket No. ER17-216-001
(Not consolidated)

Response to Deficiency Letter, Request for Shortened Comment Period and Request for Expedited Action

In response to the Commission's December 28, 2016 deficiency letter, Mid-Atlantic Interstate Transmission, LLC ("MAIT") submits this response to the one deficiency associated with Docket Nos. ER17-214-000 and ER17-216-000.[1] As a result of the issuance of the deficiency letter, the MAIT transaction was unable to close on December 31, 2016, as anticipated. For this reason, MAIT is requesting that the Commission act on the proposed modifications within fifteen days, *i.e.*, by no later than January 21, 2017, so that the MAIT transaction can close and MAIT can assume its responsibilities as a PJM Transmission Owner effective February 1, 2017. Such action will provide much needed regulatory certainty and facilitate MAIT's transmission investment, which will improve reliability and thus benefit transmission customers.

As discussed below, Docket Nos. ER17-214-000 and ER17-216-000 concern modifications to the PJM Agreements (defined below). The deficiency letter poses only one question – Question 8 – with respect to these modifications. Accordingly, MAIT hereby submits this response to Question 8 in the dockets that concern the modifications to the PJM Agreements.[2] MAIT respectfully requests that the Commission shorten the

[1] Pursuant to Order No. 714, this filing is submitted by PJM Interconnection, L.L.C. ("PJM"), on behalf of MAIT, as part of an XML filing package that conforms with the Commission's regulations. PJM has agreed to make all filings on behalf of the PJM Transmission Owners in order to retain administrative control over the PJM Tariff. Thus, MAIT has requested PJM submit this filing in the eTariff system.

[2] MAIT expects to submit responses to the remaining questions in the December 28 letter in the MAIT formula rate docket (ER17-211) shortly.

comment period for comments on this filing to five days, act on the modifications to the PJM Agreements within fifteen days and accept the modifications to the PJM Agreements without hearing, modification or condition. Because the modifications are a necessary precondition to MAIT's acquisition of the transmission facilities of Metropolitan Edison Company ("Met-Ed") and Pennsylvania Electric Company ("Penelec"), MAIT requests that the Commission approve those modifications effective as of February 1, 2017, so that MAIT can begin providing transmission service as of that date.[3]

I. Background

PJM is a Commission-approved Independent System Operator and Regional Transmission Organization.[4] PJM also is a transmission provider under, and the administrator of, the PJM OATT, operates energy and capacity markets, plans regional transmission expansion improvements to maintain grid reliability and relieve congestion, and conducts the day-to-day operations of the transmission system in the PJM Region.

MAIT is a newly-formed Delaware limited liability company. MAIT will own and operate the transmission assets previously owned and operated by Met-Ed and Penelec in PJM.[5] As a result, MAIT will provide transmission service in the Met-Ed and Penelec transmission zones ("Zones") in PJM. MAIT will be a stand-alone transmission company and a wholly-owned subsidiary of FirstEnergy Transmission, LLC ("FET").[6] It will not own any generation or provide retail utility service.

On October 28, 2016 in Docket No. ER17-214-000, PJM and MAIT submitted modifications to the PJM Open Access Transmission Tariff ("PJM OATT") and the Amended and Restated Operating Agreement of PJM Interconnection, L.L.C. ("PJM OA"). On that same day in Docket No. ER17-216-000, PJM and MAIT submitted modifications to the Consolidated Transmission Owners Agreement ("PJM CTOA").[7] Together the PJM OATT, PJM OA and PJM CTOA are referred to as the "PJM Agreements."

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[3] In the event that as of February 1, 2017 the Commission has not approved MAIT's application in Docket No. ER17-211, MAIT would file a notice of succession to the existing transmission rates of Met-Ed and Penelec (*see* 18 C.F.R. § 35.16), and provide transmission service at those rates during the period between February 1, 2017 and the date when the Commission allows MAIT's formula rate to go into effect.

[4] *Pennsylvania-New Jersey-Maryland Interconnection*, 81 FERC ¶ 61,252 (1997), *reh'g denied*, 92 FERC ¶ 61,282 (2000); *PJM Interconnection, L.L.C.*, 101 FERC ¶ 61,345 (2002).

[5] The Commission approved this transaction by order dated February 18, 2016. *Pennsylvania Electric Co.*, 154 FERC ¶ 61,109 (2016).

[6] FET, formerly known as Allegheny Energy Transmission, LLC, is a direct, wholly-owned subsidiary of FirstEnergy. FET is the parent company of two stand-alone transmission subsidiaries, American Transmission Systems, Incorporated and Trans-Allegheny Interstate Line Company, and has an ownership interest in Potomac-Appalachian Transmission Highline, LLC.

[7] The PJM CTOA modifications were filed by PJM on behalf of the PJM Transmission Owners Agreement Administrative Committee.

The purpose of these two filings is to revise the PJM Agreements to reflect MAIT's acquisition of the transmission facilities in the Met-Ed and Penelec Zones in PJM. MAIT's revisions are both nominal and ministerial in that, for the most part, they simply remove references to Met-Ed and Penelec and add references to MAIT. MAIT's revisions to the PJM OA were approved by the PJM Members Committee on September 29, 2016, by acclamation vote with no objection.[8] No protests of the modifications were filed in either Docket No. ER17-214-000 or ER17-216-000.

PJM and MAIT requested an effective date of January 1, 2017 for the modifications to the PJM Agreements. This proposed effective date was predicated on a December 31, 2016 closing date for the MAIT transaction, which in turn was predicated on the Commission's acceptance of the modifications to the PJM Agreements prior to December 31, 2016. In lieu of an order accepting the modifications to the PJM Agreements, on December 28, 2016, the Commission's Office of Energy Market Regulation issued the deficiency letter in Docket Nos. ER17-214-000 and ER17-216-000, as well as in Docket No. ER17-211-000. As a result of the deficiency letter, the MAIT transaction did not close on December 31, 2016.

Similar to a trail of dominoes, where the fall of each domino is predicated upon the fall of the previous one and all dominoes must fall in correct order, there are many interdependent steps to establishing MAIT as a PJM Transmission Owner and ensuring that MAIT can assume the responsibilities of Met-Ed and Penelec. In coordination with the amendments to the PJM Agreements, amendments to numerous contracts were necessary to ensure a smooth transition from Met-Ed and Penelec to MAIT as of January 1, 2017. Indeed, the Commission has accepted several of these contracts with an effective date of January 1, 2017,[9] and others remain pending before the Commission. Given that the closing of MAIT did not occur, this means that several of the "dominoes" fell out of sequence, and that still others may yet likewise fall out of sequence. In order to get "back" into sequence as soon as practicable, MAIT is requesting Commission action within fifteen days, *i.e.*, by no later than January 21, 2017, in order to address such issues and provide regulatory certainty with respect to the transaction. Prompt Commission action is necessary in order to ensure that each domino, be it an amendment to a transmission service agreement or the accomplishment of a financial commitment incidental to establishing MAIT, can fall in succession and the MAIT transaction can be completed as contemplated; now on January 31, 2017.

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[8] Also on October 28, 2016, in Docket No. ER17-211-000, PJM filed a transmission formula rate template and formula rate implementation protocols on behalf of MAIT.

[9] *See, e.g., Metropolitan Edison Company*, Docket No. ER17-286, (Letter Order dated December 28, 2016).

II. Response to Deficiency Letter Question 8

The deficiency letter includes fourteen questions. All but one of the questions concern the MAIT formula rate filing in Docket No. ER17-211-000. Question 8 of the deficiency letter concerns the modifications to the PJM Agreements filed in Docket Nos. ER17-214-000 and ER17-216-000. It reads as follows:

> **8) Transmission Service Function Responsibilities Among Affiliates**
>
> a. *In Docket Nos. ER17-214-000 and ER17-216-000, PJM proposes to change several provisions of the PJM OATT, PJM Operating Agreement, and Consolidated Transmission Owners Agreement (CTOA) (together, Agreements) to effectuate the merger transaction approved in Docket No. EC15-157-000, including MAIT becoming a transmission-owning member of PJM and succeeding the transmission rights and obligations of Met-Ed and Penelec under the CTOA, including constructing, owning, operating, and maintaining the transmission assets of Metropolitan Edison Company and Pennsylvania Electric Company. In spite of this succession and the Formula Rate proposal for MAIT as the Transmission Owner of these Transmission Facilities, the changes to the Agreements preserve these former rate zones as the "Metropolitan Edison Company" and "Pennsylvania Electric Company" Zones for transmission services such as System Control and Dispatch.*[10]
>
> *i. Please explain why the Commission should not direct PJM to file revisions to the Agreements changing these zones to the MAIT Zone. Please provide documentation to support the explanation.*

MAIT offers the following response to Question 8.

MAIT's proposal to maintain the existing Met-Ed and Penelec Zones is just and reasonable and should be accepted. The Commission has held on numerous occasions that it is just and reasonable for a transmission owner to employ more than one zone for transmission service in an RTO, including PJM, which applies license plate rates for transmission service. *See ITC Holdings Corp*., 143 FERC ¶ 61,257 at P 124 (2013), *reh'g denied*, 146 FERC ¶ 61,111 (2014) ("the Commission has become more flexible with respect to license plate pricing, and has accepted its continued use for existing and new local facilities on a long-term basis."). *See also Midwest Indep. Transmission Sys. Operator, Inc.*, 122 FERC ¶ 61,081 (2008); *PJM Interconnection, L.L.C.*, 119 FERC ¶ 61,063 (2007), *order on reh'g and compliance filing*, 122 FERC ¶ 61,082, *order denying reh'g*, 124 FERC ¶ 61,033 (2008); *PJM Interconnection, L.L.C.*, 96 FERC ¶ 61,061

[10] *See, e.g.*, PJM Interconnection, L.L.C., Intra-PJM Tariffs, O-P-Q, OATT Definitions – O – P - Q, 12.0.0; SCHEDULE 1A, OATT SCHEDULE 1A, 7.0.0.

(2001), *order on compliance filing*, 101 FERC ¶ 61,345 (2002), *order on reh'g,* 104 FERC ¶ 61,124 (2003); *Ameren Corp.*, 131 FERC ¶ 61,240 at PP 11, 20 (2010).

No party protested the continued use of separate Met-Ed and Penelec Zones in these dockets. Nor did the Commission identify any concerns with maintaining the separate Zones in its Deficiency Letter. At the same time that no concerns have been raised by the Commission or any party, there are a number of factors supporting the continued adherence to the Commission's long-standing policy of permitting separate transmission Zones in an RTO. These are described below.

First, changing the Met-Ed and Penelec Zones to a single MAIT Zone would be inconsistent with the fact that, even after MAIT assumes ownership of their transmission assets, Met-Ed and Penelec will continue to operate in PJM as electric distribution companies and load serving entities with responsibilities to customers in their respective Zones. How the Met-Ed and Penelec Zones were historically planned and operated should not be changed by corporate reorganization. It is reasonable and appropriate to maintain the existing Met-Ed and Penelec Zones in order to recognize and implement those existing operating arrangements. In contrast, and as explained below, combining the Met-Ed Zone and Penelec Zone would result in immediate market impacts, and changes in cost-allocation for certain RTEP projects.

Regarding market impacts, it is important to note that while generation is priced in PJM's markets on a "nodal" basis, load is priced on a zonal basis. That is, wholesale load is priced at the zonal level. It follows that one effect of combining the Met-Ed and Penelec Zones would be immediate changes to the zonal price of electricity within each of the Met-Ed and Penelec footprints. Combining the Met-Ed and Penelec Zones into one MAIT Zone would reduce the granularity of the load settlements that result from LMP markets. While doubtless some customers would see their prices decrease, prices for other customers could increase. These changes would cause immediate impacts to customers, and the suppliers that serve them. For example, "provider of last resort" auctions have been conducted for the Met-Ed and Penelec retail load for as much as three years into the future. Winning suppliers participated in those auctions under the expectation that the Met-Ed and Penelec Zones would continue under their present definitions; and these suppliers doubtless would be impacted, perhaps significantly, by the wholesale price impacts that would result if the Met-Ed and Penelec Zones were combined. Other suppliers, such as suppliers of competitive retail electric service, also doubtless have "locked-in" their obligations to provide retail electric energy for some forward period, usually approximately twelve months, and thus would be impacted significantly by changes in the wholesale price of electricity that would result if the Met-Ed and Penelec Zones were to be combined.

Additional "market" impacts could include unintended consequences in the patterns and trends with regard to allocation of Auction Revenue Rights, which are allocated based on, among other factors, the definition of PJM transmission Zones, including the existing definitions of the Met-Ed and Penelec Zones. This brief overview

of the potential wholesale market impacts is not intended to be exhaustive. But it is provided to demonstrate that any conversation about combining the Met-Ed and Penelec Zones would need to address the significant wholesale market impacts to suppliers and customers within the Met-Ed and Penelec footprints and, therefore, is not an action that should be taken lightly or without full consideration of the consequences.

Regarding transmission facility cost allocation, maintaining the existing Met-Ed and Penelec Zones preserves established charges under the PJM Open Access Transmission Tariff ("OATT") that allocate transmission project costs among customers in the various zones, including the Met-Ed and Penelec Zones. Under Schedule 12 of the PJM OATT, the costs of certain transmission enhancements and additions that are included in PJM's Regional Transmission Plan ("RTEP") are allocated to transmission customers in the various Zones based on the benefits they receive from those projects. For these purposes, PJM uses engineering models that determine load flow within and between PJM's defined transmission Zones and thus is able to calculate the specific benefits to customers in each Zone.

Preserving the existing Met-Ed and Penelec Zones allocates the costs of RTEP projects built and owned by other PJM Transmission Owners to customers in the Met-Ed and Penelec Zones according to the benefits received by the customers in those Zones. For example, in the case of some RTEP projects, PJM's implementation of Schedule 12 has resulted in the allocation of costs for projects built by other PJM Transmission Owners to customers in either the Met-Ed Zone or the Penelec Zone, but not the other.[11] Maintaining separate Zones preserves this allocation. In contrast, merging the two Zones into a single MAIT Zone, as the question appears to contemplate, would require PJM to re-work cost allocations to the detriment of one Zone over the other as it would shift a portion of the costs of such projects to customers in the other Zone. Since the transfer of transmission assets to MAIT does not alter the benefits that customers in the Met-Ed and Penelec Zones receive from these RTEP projects, MAIT believes that maintaining the existing Zones, and therefore the existing allocations to customers in the Met-Ed and Penelec Zones is just and reasonable.

A similar consideration arises under the pending settlement in FERC Docket No. EL05-121-009. Under the pending settlement, customers in the Met-Ed and Penelec Zones are allocated different shares of the costs of the transmission enhancements at issue in that proceeding. Combining the two Zones into one MAIT Zone will eliminate these distinct allocations and shift costs between Met-Ed and Penelec customers. MAIT believes it is just and reasonable to maintain the pending settlement's allocations to the two Zones.

[11] *See* attached excerpts from PJM OATT, Schedule 12 – Appendix.

III. Request for Shortened Comment Period

MAIT respectfully requests that the Commission shorten the period for comments on this response to five days. This request will enable the Commission to act expeditiously on the modifications to the PJM Agreements and will minimize further delay of MAIT's acquisition of the Met-Ed and Penelec transmission facilities, as authorized by the Commission. Moreover, this response addresses a single issue raised in Question 8 concerning the retention of the Met-Ed and Penelec Zones. No interested party submitted any comments on this issue in response to the October 28, 2016 filing. The usual 21-day comment period is not necessary for interested parties to prepare and submit comments on a question that occasioned no comment when it was first presented. Thus, granting the shortened comment period will not prejudice any party. Also, as discussed in section IV below, a shortened comment period is necessary so that the Commission can act on the modifications to the PJM Agreements expeditiously.

IV. Request for Expedited Action

MAIT respectfully requests that the Commission act on the modifications to the PJM Agreements expeditiously. As noted above, the issuance of the deficiency letter has delayed MAIT's acquisition of the transmission facilities of Met-Ed and Penelec, which the Commission has authorized and which is contingent on the Commission's acceptance of the modifications to the PJM Agreements. Also, as noted herein, the Commission has already approved revisions to certain agreements associated with MAIT's acquisition.[12] As the Commission has noted, regulatory and market certainty are vital to ensuring transmission investment.[13] Commission action approving the modifications to the PJM Agreements will provide the regulatory certainty that is necessary for the MAIT to close the transaction on February 1, 2017, as well as the market certainty for transmission customers, and market suppliers and customers within the MAIT footprint.

In short, it is in the public interest and the interest of all parties that the MAIT transaction is consummated as soon as possible. Thus, MAIT respectfully requests that the Commission issue an order accepting the modifications to the PJM Agreements within fifteen days of this filing so that the MAIT transaction can close on January 31, 2017, and MAIT can begin providing transmissions service under the PJM OATT on February 1, 2017.[14] PJM has authorized MAIT to inform the Commission that PJM contributed to portions of this letter and supports MAIT's filing and the requests submitted herein.

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[12] *See* Docket Nos. ER17-286-000; ER17-281-000; ER17-280-000; ER17-278-000 and ER17-276-000. In light of the deficiency letter, the applicants in these dockets will need to seek deferral of the effective dates for those revised agreements until closing of the MAIT transaction.

[13] *See e.g.*, *American Electric Power Service Corp*., 116 FERC ¶ 61,059 at PP 26-27 (2006); *Promoting Transmission Investment Through Pricing Reform*, Notice of Proposed Rulemaking, 113 FERC ¶ 61,182 at P 5 (2005).

[14] To the extent necessary, MAIT requests waiver of the Commission's 60-day notice requirement 18 C.F.R. § 35.3 in order to permit Commission action and to permit the modifications to the PJM Agreements to take effect as proposed in this filing.

V. Revised Effective Date

As noted above, in the October 28, 2016 filing, PJM requested an effective date of January 1, 2017 for the modifications to the PJM Agreements. That proposed effective date was predicated on a December 31, 2016 closing date for the MAIT transaction, which as noted above was predicated on the Commission's acceptance of the modifications to the PJM Agreements prior to December 31, 2016.

Because the Commission has not accepted the modifications to the PJM Agreements and instead has issued the deficiency letter, MAIT now requests that the modifications to the PJM Agreements become effective as of February 1.

VI. Additional Information

a. eTariff Compliance

In order to comply with eTariff requirements, PJM is resubmitting the tariff records originally filed on October 28, 2016 in these dockets. And, due to eTariff restrictions, the proposed revisions to: (i) the PJM OA and OATT; and (ii) the CTOA are being submitted under separate cover using the same transmittal letter with specified attachments corresponding to each filing listed in section VI(b).

b. List of Documents Submitted With Filing

Together with this response, MAIT submits the following:

1. Attachment A - Marked Revised PJM OATT and PJM OA;
2. Attachment B - Clean Revised PJM OATT and PJM OA; and
3. Attachment C - Excerpts from PJM OATT, Schedule 12 – Appendix.

c. Communications

Please place the names of the following persons on the official service list established by the Secretary in this proceeding:

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* Designated to receive service. Pursuant to 18 C.F.R. § 385.2010, PJM respectfully requests waiver to permit more than two individuals to receive service in this proceeding.

d. Service

PJM has served a copy of this filing on all PJM Members and on all state utility regulatory commissions in the PJM Region by posting this filing electronically.

In accordance with the Commission's regulations,[15] PJM will post a copy of this filing to the FERC filings section of its internet site, located at the following link: http://www.pjm.com/documents/ferc-manuals/ferc-filings.aspx with a specific link to the newly-filed document, and will send an e-mail on the same date as this filing to all PJM Members and all state utility regulatory commissions in the PJM Region[16] alerting them that this filing has been made by PJM and is available by following such link. If the document is not immediately available by using the referenced link, the document will be available through the referenced link within 24 hours of the filing. Also, a copy of this filing will be available on the FERC's eLibrary website located at the following link: http://www.ferc.gov/docs-filing/elibrary.asp in accordance with the Commission's regulations and Order No. 714.

e. Waiver

Finally, the information submitted with this filing substantially complies with the requirements of Part 35 of the Commission's rules and regulations applicable to filings of this type. MAIT requests a waiver of any applicable requirement of Part 35 for which a waiver is not specifically requested, if necessary, in order to permit this filing to become effective as proposed. Good cause exists for waiver because this filing will incorporate MAIT into the PJM Agreements with only the necessary changes described above.

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15 *See* 18 C.F.R §§ 35.2(e) and 385.2010(f)(3).

16 PJM already maintains, updates and regularly uses e-mail lists for all PJM Members and affected state commissions.

VII. Conclusion

For the reasons discussed above, MAIT respectfully requests that the Commission shorten the comment period for comments on this filing to five days, act on the modifications to the PJM Agreements within fifteen days and accept the modifications to the PJM Agreements without hearing, modification or condition.

Please contact the undersigned if you have any questions.

Respectfully submitted,

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On Behalf of Mid-Atlantic Interstate Transmission, LLC

Attachment A

Revisions to the PJM OATT and OA
(Marked / Redline Format)

Revisions to the PJM OATT
(Marked / Redline Format)

- Definitions O-P-Q
- Schedule 1A
- Schedule 12 – Appendix Metropolitan Edison Company
- Schedule 12 – Appendix Pennsylvania Electric Company
- Schedule 12 – Appendix A Metropolitan Edison Company
- Schedule 12 – Appendix A Pennsylvania Electric Company
- Attachment K, Section 5.3
- Attachment L

Definitions – O – P - Q

Obligation:

*"*Obligation*" shall mean* all amounts owed to PJMSettlement for purchases from the PJM Markets, Transmission Service, (under both *Tariff*, Part II and Part III), and other services or obligations pursuant to the Agreements. In addition, aggregate amounts that will be owed to PJMSettlement in the future for Capacity purchases within the PJM Capacity markets will be added to this figure. Should other markets be formed such that Participants may incur future Obligations in those markets, then the aggregate amount of those Obligations will also be added to the Net Obligation.

Offer Data:

"Offer Data" shall mean the scheduling, operations planning, dispatch, new resource, and other data and information necessary to schedule and dispatch generation resources and Demand Resource(s) for the provision of energy and other services and the maintenance of the reliability and security of the Transmission System in the PJM Region, and specified for submission to the PJM Interchange Energy Market for such purposes by the Office of the Interconnection.

Office of the Interconnection:

*"*Office of the Interconnection*"* shall mean the employees and agents of PJM Interconnection, L.L.C. subject to the supervision and oversight of the PJM Board, acting pursuant to the Operating Agreement.

Office of the Interconnection Control Center:

"Office of the Interconnection Control Center" shall mean the equipment, facilities and personnel used by the Office of the Interconnection to coordinate and direct the operation of the PJM Region and to administer the PJM Interchange Energy Market, including facilities and equipment used to communicate and coordinate with the Market Participants in connection with transactions in the PJM Interchange Energy Market or the operation of the PJM Region.

On-Site Generators:

"On-Site Generators" shall mean generation facilities (including Behind The Meter Generation) that (i) are not Capacity Resources, (ii) are not injecting into the grid, (iii) are either synchronized or non-synchronized to the Transmission System, and (iv) can be used to reduce demand for the purpose of participating in the PJM Interchange Energy Market.

Open Access Same-Time Information System (OASIS):

*"Open Access Same-Time Information System" or "OASIS" shall mean t*he information system and standards of conduct contained in Part 37 and Part 38 of the Commission's regulations and all additional requirements implemented by subsequent Commission orders dealing with OASIS.

Operating Agreement of the PJM Interconnection, L.L.C. or Operating Agreement:

*"Operating Agreement of the PJM Interconnection, L.L.C." or "Operating Agreement" shall mean t*hat agreement dated as of April 1, 1997 and as amended and restated as of June 2, 1997, including all Schedules, Exhibits, Appendices, addenda or supplements hereto, as amended from time to time thereafter, among the Members of the PJM Interconnection, L.L.C.

Operating Day:

"Operating Day" shall mean the daily 24 hour period beginning at midnight for which transactions on the PJM Interchange Energy Market are scheduled.

Operating Margin:

"Operating Margin" shall mean the incremental adjustments, measured in megawatts, required in PJM Region operations in order to accommodate, on a first contingency basis, an operating contingency in the PJM Region resulting from operations in an interconnected Control Area. Such adjustments may result in constraints causing Transmission Congestion Charges, or may result in Ancillary Services charges pursuant to the PJM Tariff.

Operating Margin Customer:

"Operating Margin Customer" shall mean a Control Area purchasing Operating Margin pursuant to an agreement between such other Control Area and the LLC.

Opportunity Cost:

"Opportunity Cost" shall mean a component of the Market Seller Offer Cap calculated in accordance with *Tariff, Attachment DD,* section 6.

OPSI Advisory Committee:

"OPSI Advisory Committee" *shall* mean the committee established under *Tariff, Attachment M,* section III.G.

Option to Build:

*"Option to Build" shall mean t*he option of the New Service Customer to build certain Customer-Funded Upgrades, as set forth in, and subject to the terms of, the Construction Service Agreement.

Optional Interconnection Study:

"Optional Interconnection Study" shall mean a sensitivity analysis of an Interconnection Request based on assumptions specified by the Interconnection Customer in the Optional Interconnection Study Agreement.

Optional Interconnection Study Agreement:

*"Optional Interconnection Study Agreement" shall mean t*he form of agreement for preparation of an Optional Interconnection Study, as set forth in Attachment N-3 of the Tariff.

Part I:

"Part I" shall mean the Tariff Definitions and Common Service Provisions contained in *s*ections *1* through 12*A*.

Part II:

"Part II" shall mean the Tariff *s*ections 13 through 27*A* pertaining to Point-To-Point Transmission Service in conjunction with the applicable Common Service Provisions *of Tariff,* Part I and appropriate Schedules and Attachments.

Part III:

"Part III" shall mean the Tariff, *s*ections 28 through 35 pertaining to Network Integration Transmission Service in conjunction with the applicable Common Service Provisions of *Tariff,* Part I and appropriate Schedules and Attachments.

Part IV:

"Part IV" shall mean the Tariff, *s*ections 36 through 112*C* pertaining to generation or merchant transmission interconnection to the Transmission System in conjunction with the applicable Common Service Provisions of *Tariff,* Part I and appropriate Schedules and Attachments.

Part V:

"Part V" shall mean the Tariff, *s*ections 113 through 122 pertaining to the deactivation of generating units in conjunction with the applicable Common Service Provisions of *Tariff,* Part I and appropriate Schedules and Attachments.

Part VI:

"Part VI" shall mean the Tariff, *s*ections 200 through 237 pertaining to the queuing, study, and agreements relating to New Service Requests, and the rights associated with Customer-Funded Upgrades in conjunction with the applicable Common Service Provisions of *Tariff,* Part I and appropriate Schedules and Attachments.

Participant:

*"*Participant*" shall mean* a Market Participant and/or Transmission Customer and/or Applicant requesting to be an active Market Participant and/or Transmission Customer**.**

Parties:

*"Parties" shall mean t*he Transmission Provider, as administrator of the Tariff, and the Transmission Customer receiving service under the Tariff. PJMSettlement shall be the Counterparty to Transmission Customers.

Peak-Hour Dispatch:

"Peak-Hour Dispatch" shall mean, for purposes of calculating the Energy and Ancillary Services Revenue Offset under *Tariff, Attachment DD,* section 5, an assumption, as more fully set forth in the PJM Manuals, that the Reference Resource is committed in the Day-Ahead Energy Market in four distinct blocks of four hours of continuous output for each block from the peak-hour period beginning with the hour ending 0800 EPT through to the hour ending 2300 EPT for any day when the average day-ahead LMP for the area for which the Net Cost of New Entry is being determined is greater than, or equal to, the cost to generate (including the cost for a complete start and shutdown cycle) for at least two hours during each four-hour block, where such blocks shall be assumed to be committed independently; provided that, if there are not at least two economic hours in any given four-hour block, then the Reference Resource shall be assumed not to be committed for such block; and to the extent not committed in any such block in the Day-Ahead Energy Market under the above conditions based on Day-Ahead LMPs, is dispatched in the Real-Time Energy Market for such block if the Real-Time LMP is greater than or equal to the cost to generate under the same conditions as described above for the Day-Ahead Energy Market.

Peak Market Activity:
*"*Peak Market Activity*" shall mean* a measure of exposure for which credit is required, involving peak exposures in rolling three-week periods over a year timeframe, with two semi-annual reset points, pursuant to provisions of *Tariff, Attachment Q,* section II.D.

Peak Season:

"Peak Season" shall mean the weeks containing the 24th through 36th Wednesdays of the calendar year. Each such week shall begin on a Monday and end on the following Sunday, except for the week containing the 36th Wednesday, which shall end on the following Friday.

Percentage Internal Resources Required:

"Percentage Internal Resources Required" shall have the meaning specified in the Reliability Assurance Agreement.

Performance Assessment Hour:

"Performance Assessment Hour" shall mean each whole or partial clock-hour for which an Emergency Action has been declared by the Office of the Interconnection, provided, however, that Performance Assessment Hours for a Base Capacity Resource shall not include any hours outside the calendar months of June through September.

PJM:

"PJM" shall mean PJM Interconnection, L.L.C., including the Office of the Interconnection as referenced in the PJM Operating Agreement.

PJM Administrative Service:

*"PJM Administrative Service" shall mean t*he services provided by PJM pursuant to *Tariff*, Schedule 9.

PJM Board:

"PJM Board" shall mean the Board of Managers of the LLC, except when such term is being used in Attachment M of the Tariff, in which case PJM Board shall mean the Board of Managers of PJM or its designated representative, exclusive of any members of PJM Management.

PJM Control Area:

*"PJM Control Area" shall mean t*he Control Area that is recognized by NERC as the PJM Control Area.

PJM Entities:

"PJM Entities" *shall* mean PJM, including the Market Monitoring Unit, the PJM Board, and PJM's officers, employees, representatives, advisors, contractors, and consultants.

PJM Interchange:

"PJM Interchange" shall mean the following, as determined in accordance with the Schedules to *the Tariff*: (a) for a Market Participant that is a Network Service User, the amount by which its hourly Equivalent Load exceeds, or is exceeded by, the sum of the hourly outputs of its operating generating resources; or (b) for a Market Participant that is not a Network Service User, the amount of its Spot Market Backup; or (c) the hourly scheduled deliveries of Spot Market Energy by a Market Seller from an External Resource; or (d) the hourly net metered output of any other Market Seller; or (e) the hourly scheduled deliveries of Spot Market Energy to an External Market Buyer; or (f) the hourly scheduled deliveries to an Internal Market Buyer that is not a Network Service User.

PJM Interchange Energy Market:

*"PJM Interchange Energy Market" shall mean t*he regional competitive market administered by the Transmission Provider for the purchase and sale of spot electric energy at wholesale interstate commerce and related services, as more fully set forth in *Operating Agreement, Schedule 1, and the parallel provisions of Tariff,* Attachment K – Appendix.

PJM Interchange Export:

"PJM Interchange Export" shall mean the following, as determined in accordance with the Schedules to *the Tariff*: (a) for a Market Participant that is a Network Service User, the amount by which its hourly Equivalent Load is exceeded by the sum of the hourly outputs of its operating generating resources; or (b) for a Market Participant that is not a Network Service User, the amount of its Spot Market Backup sales; or (c) the hourly scheduled deliveries of Spot Market Energy by a Market Seller from an External Resource; or (d) the hourly net metered output of any other Market Seller.

PJM Interchange Import:

"PJM Interchange Import" shall mean the following, as determined in accordance with the Schedules to *the Tariff*: (a) for a Market Participant that is a Network Service User, the amount by which its hourly Equivalent Load exceeds the sum of the hourly outputs of its operating generating resources; or (b) for a Market Participant that is not a Network Service User, the amount of its Spot Market Backup purchases; or (c) the hourly scheduled deliveries of Spot Market Energy to an External Market Buyer; or (d) the hourly scheduled deliveries to an Internal Market Buyer that is not a Network Service User.

PJM Liaison:

"PJM Liaison" *shall* mean the liaison established under *Tariff, Attachment M,* section III.I.

PJM Management:

"PJM Management" *shall* mean the officers, executives, supervisors and employee managers of PJM.

PJM Manuals:

*"PJM Manuals" shall mean t*he instructions, rules, procedures and guidelines established by the Office of the Interconnection for the operation, planning, and accounting requirements of the PJM Region and the PJM Interchange Energy Market.

PJM Markets:

"PJM Markets" *shall* mean the PJM Interchange Energy and capacity markets, including the RPM auctions, together with all bilateral or other wholesale electric power and energy transactions, capacity transactions, ancillary services transactions (including black start service), transmission transactions and any other market operated under the PJM Tariff or Operating

Agreement within the PJM Region, wherein Participants may incur Obligations to PJMSettlement.

PJM Market Rules:

"PJM Market Rules" *shall* mean the rules, standards, procedures, and practices of the PJM Markets set forth in the PJM Tariff, the PJM Operating Agreement, the PJM Reliability Assurance Agreement, the PJM Consolidated Transmission Owners Agreement, the PJM Manuals, the PJM Regional Practices Document, the PJM-Midwest Independent Transmission System Operator Joint Operating Agreement or any other document setting forth market rules.

PJM Net Assets:

"PJM Net Assets**"** shall mean the total assets per PJM's consolidated quarterly or year-end financial statements most recently issued as of the date of the receipt of written notice of a claim less amounts for which PJM is acting as a temporary custodian on behalf of its Members, transmission developers/Designated Entities, and generation developers, including, but not limited to, cash deposits related to credit requirement compliance, study and/or interconnection receivables, member prepayments, invoiced amounts collected from Net Buyers but have not yet been paid to Net Sellers, and excess congestion (as described in *Operating Agreement, Schedule 1,* section 5.2.6, *and the parallel provisions of Tariff, Attachment K-Appendix*).

PJM Open Access Transmission Tariff ("O.A.T.T."):

*"PJM Open Access Transmission Tariff" or "O.A.T.T" shall mean t*he Open Access Transmission Tariff of PJM Interconnection, L.L.C., on file with the Federal Energy Regulatory Commission, and as revised from time to time.

PJM Open Access Same-time Information System:

"PJM Open Access Same-time Information System" shall mean the electronic communication system for the collection and dissemination of information about transmission services in the PJM Region, established and operated by the Office of the Interconnection in accordance with FERC standards and requirements.

PJM Operating Agreement:

"PJM Operating Agreement" *shall* mean the Amended and Restated Operating Agreement of PJM on file with the Commission.

PJM Region:

*"PJM Region" s*hall have the meaning specified in the Operating Agreement.

PJM Regional Practices Document:

"PJM Regional Practices Document" *shall* mean the document of that title that compiles and describes the practices in the PJM Markets and that is made available in hard copy and on the Internet.

PJM Region Installed Reserve Margin:

"PJM Region Installed Reserve Margin" shall have the meaning specified in the Operating Agreement.

PJM Region Peak Load Forecast:

"PJM Region Peak Load Forecast" shall mean the peak load forecast used by the Office of the Interconnection in determining the PJM Region Reliability Requirement, and shall be determined on both a preliminary and final basis as set forth in *Tariff, Attachment DD,* section 5.

PJM Region Reliability Requirement:

"PJM Region Reliability Requirement" shall mean, for purposes of the Base Residual Auction, the Forecast Pool Requirement multiplied by the Preliminary PJM Region Peak Load Forecast, less the sum of all Preliminary Unforced Capacity Obligations of FRR Entities in the PJM Region; and, for purposes of the Incremental Auctions, the Forecast Pool Requirement multiplied by the updated PJM Region Peak Load Forecast, less the sum of all updated Unforced Capacity Obligations of FRR Entities in the PJM Region.

PJM Reliability Assurance Agreement:

"PJM Reliability Assurance Agreement" *shall* mean the Reliability Assurance Agreement among Load Serving Entities in the PJM Region on file with the Commission.

PJMSettlement:

"PJM Settlement" or "PJM Settlement, Inc." shall mean PJM Settlement, Inc. (or its successor), established by PJM as set forth in Section 3.3 of the Operating Agreement.

PJM Tariff:

"PJM Tariff" or "Tariff shall mean that certain "PJM Open Access Transmission Tariff", including any schedules, appendices or exhibits attached thereto, on file with FERC and as amended from time to time thereafter.

PJM Transmission Owners Agreement:

"PJM Transmission Owners Agreement" *shall* mean the PJM Consolidated Transmission Owners Agreement on file with the Commission.

Plan:

"Plan" *shall* mean the PJM market monitoring plan set forth in *Tariff,* Attachment M.

Planned Demand Resource:

"Planned Demand Resource" shall have the meaning specified in the Reliability Assurance Agreement.

Planned External Financed Generation Capacity Resource:

*"*Planned External Financed Generation Capacity Resource*"* shall mean a Planned External Generation Capacity Resource that, prior to August 7, 2015, has an effective agreement that is the equivalent of an Interconnection Service Agreement, has submitted to the Office of the Interconnection the appropriate certification attesting achievement of Financial Close, and has secured at least 50 percent of the MWs of firm transmission service required to qualify such resource under the deliverability requirements of the Reliability Assurance Agreement.

Planned External Generation Capacity Resource:

"Planned External Generation Capacity Resource" shall have the meaning specified in the Reliability Assurance Agreement.

Planned Financed Generation Capacity Resource:

*"*Planned Financed Generation Capacity Resource*"* shall mean a Planned Generation Capacity Resource that, prior to August 7, 2015, has an effective Interconnection Service Agreement and has submitted to the Office of the Interconnection the appropriate certification attesting achievement of Financial Close.

Planned Generation Capacity Resource:

"Planned Generation Capacity Resource" shall have the meaning specified in the Reliability Assurance Agreement.

Planning Period:

"Planning Period" shall have the meaning specified in the Reliability Assurance Agreement.

Planning Period Balance:

"Planning Period Balance" shall mean the entire period of time remaining in the Planning Period following the month that a monthly auction is conducted.

Planning Period Quarter:

"Planning Period Quarter" shall mean any of the following three month periods in the Planning Period: June, July and August; September, October and November; December, January and February; or March, April and May.

Point(s) of Delivery:

*"Point(s) of Delivery" shall mean the p*oint(s) on the Transmission Provider's Transmission System where capacity and energy transmitted by the Transmission Provider will be made available to the Receiving Party under *Tariff,* Part II. The Point(s) of Delivery shall be specified in the Service Agreement for Long-Term Firm Point-To-Point Transmission Service.

Point of Interconnection:

*"Point of Interconnection" shall mean t*he point or points, shown in the appropriate appendix to the Interconnection Service Agreement and the Interconnection Construction Service Agreement, where the Customer Interconnection Facilities interconnect with the Transmission Owner Interconnection Facilities or the Transmission System.

Point(s) of Receipt:

*"Point(s) of Receipt" shall mean p*oint(s) of interconnection on the Transmission Provider's Transmission System where capacity and energy will be made available to the Transmission Provider by the Delivering Party under *Tariff,* Part II. The Point(s) of Receipt shall be specified in the Service Agreement for Long-Term Firm Point-To-Point Transmission Service.

Point-To-Point Transmission Service:

*"Point-To-Point Transmission Service shall mean t*he reservation and transmission of capacity and energy on either a firm or non-firm basis from the Point(s) of Receipt to the Point(s) of Delivery under *Tariff,* Part II.

Power Purchaser:

*"Power Purchaser" shall mean t*he entity that is purchasing the capacity and energy to be transmitted under the Tariff.

PRD Curve*:*

*"*PRD Curve*"* shall have the meaning provided in the Reliability Assurance Agreement.

PRD Provider*:*

*"*PRD Provider*"* shall have the meaning provided in the Reliability Assurance Agreement.

PRD Reservation Price*:*

*"*PRD Reservation*"* Price shall have the meaning provided in the Reliability Assurance Agreement.

PRD Substation:

*"*PRD Substation*"* shall have the meaning provided in the Reliability Assurance Agreement.

Pre-Confirmed Application:

*"Pre-Confirmed Application" shall be a*n Application that commits the Eligible Customer to execute a Service Agreement upon receipt of notification that the Transmission Provider can provide the requested Transmission Service.

Pre-Emergency Load Response Program:

*"*Pre-Emergency Load Response Program*" shall be* the program by which Curtailment Service Providers may be compensated by PJM for Demand Resources that will reduce load when dispatched by PJM during pre-emergency conditions, and is described in Section 8 of Schedule 1 of the Operating Agreement and the parallel provisions of Section 8 of Attachment K-Appendix of the Tariff.

Pre-Expansion PJM Zones:

*"Pre-Expansion PJM Zones" shall be z*ones included in th*e* Tariff, along with applicable Schedules and Attachments, for certain Transmission Owners – Atlantic City Electric Company, Baltimore Gas and Electric Company, Delmarva Power and Light Company, Jersey Central Power and Light Company, ~~Metropolitan Edison Company~~Mid-Atlantic Interstate Transmission, LLC ("MAIT") (MAIT owns and operates the transmission facilities in the Metropolitan Edison Company Zone and the Pennsylvania Electric Company Zone), PECO Energy Company~~, Pennsylvania Electric Company~~, Pennsylvania Power & Light Group, Potomac Electric Power Company, Public Service Electric and Gas Company, Allegheny Power, and Rockland Electric Company.

Price Responsive Demand*:*

*"*Price Responsive Demand*"* shall have the meaning provided in the Reliability Assurance Agreement.

Primary Reserve:

"Primary Reserve" shall mean the total reserve capability of generation resources that can be converted fully into energy or Demand Resources whose demand can be reduced within ten

minutes of a request from the Office of the Interconnection dispatcher, and is comprised of both Synchronized Reserve and Non-Synchronized Reserve.

Primary Reserve Requirement:

"Primary Reserve Requirement" shall mean the megawatts required to be maintained in a Reserve Zone or Reserve Sub-zone as Primary Reserve, absent any increase to account for additional reserves scheduled to address operational uncertainty. The Primary Reserve Requirement is calculated in accordance with the PJM Manuals.

Project Financing:

*"Project Financing" s*hall mean: (a) one or more loans, leases, equity and/or debt financings, together with all modifications, renewals, supplements, substitutions and replacements thereof, the proceeds of which are used to finance or refinance the costs of the Customer Facility, any alteration, expansion or improvement to the Customer Facility, the purchase and sale of the Customer Facility or the operation of the Customer Facility; (b) a power purchase agreement pursuant to which Interconnection Customer's obligations are secured by a mortgage or other lien on the Customer Facility; or (c) loans and/or debt issues secured by the Customer Facility.

Project Finance Entity:

*"Project Finance Entity" s*hall mean: (a) a holder, trustee or agent for holders, of any component of Project Financing; or (b) any purchaser of capacity and/or energy produced by the Customer Facility to which Interconnection Customer has granted a mortgage or other lien as security for some or all of Interconnection Customer's obligations under the corresponding power purchase agreement.

Projected PJM Market Revenues:

"Projected PJM Market Revenues" shall mean a component of the Market Seller Offer Cap calculated in accordance with *Tariff, Attachment DD,* section 6.

Proportional Multi-Driver Project:

"Proportional Multi-Driver Project" shall have the same meaning provided in the Operating Agreement.

Pseudo-Tie:

"Pseudo-Tie" shall have the same meaning provided in the Operating Agreement.

Public Policy Objectives:

"Public Policy Objectives" shall have the same meaning provided in the Operating Agreement.

Public Policy Requirements:

"Public Policy Requirements" shall have the same meaning provided in the Operating Agreement.

Qualifying Transmission Upgrade:

"Qualifying Transmission Upgrade" shall mean a proposed enhancement or addition to the Transmission System that: (a) will increase the Capacity Emergency Transfer Limit into an LDA by a megawatt quantity certified by the Office of the Interconnection; (b) the Office of the Interconnection has determined will be in service on or before the commencement of the first Delivery Year for which such upgrade is the subject of a Sell Offer in the Base Residual Auction; (c) is the subject of a Facilities Study Agreement executed before the conduct of the Base Residual Auction for such Delivery Year and (d) a New Service Customer is obligated to fund through a rate or charge specific to such facility or upgrade.

Queue Position:

*"Queue Position" shall mean t*he priority assigned to an Interconnection Request, a Completed Application, or an Upgrade Request pursuant to applicable provisions of *Tariff*, Part VI.

SCHEDULE 1A
Transmission Owner Scheduling, System Control and Dispatch Service

Scheduling, System Control and Dispatch Service is provided directly by the Transmission Provider under Schedule 1. The Transmission Customer must purchase this service from the Transmission Provider. Certain control center facilities of the Transmission Owners also are required to provide this service. This Schedule 1A sets forth the charges for Scheduling, System Control and Dispatch Service based on the cost of operating the control centers of the Transmission Owners. The Transmission Provider shall administer the provision of Transmission Owner Scheduling, System Control and Dispatch Service. PJMSettlement shall be the Counterparty to the purchases of Transmission Owner Scheduling, System Control and Dispatch Service.

The charges for operation of the control centers of the Transmission Owners shall be determined by multiplying the applicable rate as follows times the Transmission Customer's use of the Transmission System (including losses) on a megawatt hour basis:

(A) For a Transmission Customer serving Zone Load in:

Zone	**Rate ($/MWh)**
Atlantic City Electric Company	0.0781
Baltimore Gas and Electric Company	0.0430
Delmarva Power & Light Company	0.0743
PECO Energy Company	0.1189
PP&L, Inc. Group	0.0618
Potomac Electric Power Company	0.0186
Public Service Electric and Gas Company	0.1030
Jersey Central Power & Light Company annually	~~0.0796~~Rate updated Per Attachment H-4
Metropolitan Edison Company annually	~~0.0796~~Rate updated Per Attachment H-28
Pennsylvania Electric Company annually	~~0.0796~~Rate updated Per Attachment H-28
Rockland Electric Company	0.2475
Commonwealth Edison Company	0.2223
AEP East Operating Companies	Rate updated annually Per Attachment H-14
The Dayton Power and Light Company[1]	0.0797
Duquesne Light Company	0.0520
American Transmission Systems, Incorporated ("ATSI")	Rate updated annually Per Attachment H-21

[1] Charges for service under this schedule to customers of The Dayton Power and Light Company that are subject to the provisions of the October 14, 2003 Stipulation and Agreement of Settlement approved in FERC Docket No. EL03-56-000 shall be governed by such settlement.

Duke Energy Ohio, Inc., and	Rate updated annually
Duke Energy Kentucky, Inc. ("DEOK")	Per Attachment H-22
East Kentucky Power Cooperative, Inc. ("EKPC")	Per Attachment H-24

(B) For a Transmission Customer serving Non-Zone Load (a Network Customer serving Non-Zone Network Load or a Transmission Customer taking Point-to-Point service where the Point of Delivery is at the boundary of the PJM Region):

$.0912//MWh

Each month, PJMSettlement shall pay to each Transmission Owner an amount equal to the charges billed for that Transmission Owner's zone pursuant to (A) above, plus that Transmission Owner's share as stated below of the charges billed to Transmission Customers serving Non-Zone Network Load pursuant to (B) above:

Transmission Owner	**Share (%)**
Atlantic City Electric Company	1.41
Baltimore Gas and Electric Company	2.28
Delmarva Power & Light Company	2.17
PECO Energy Company	7.57
PP&L, Inc. Group	3.88
Potomac Electric Power Company	0.92
Public Service Electric and Gas Company	7.55
Jersey Central Power & Light Company	3.71
Mid-Atlantic Interstate Transmission, LLC	3.12
~~Metropolitan Edison Company~~	~~1.22~~
~~Pennsylvania Electric Company~~	~~1.90~~
Rockland Electric Company	0.57
Commonwealth Edison Company	41.42
AEP East Operating Companies	14.56
The Dayton Power and Light Company	2.41
Duquesne Light Company	1.20
American Transmission Systems, Incorporated ("ATSI")	3.05
Duke Energy Ohio, Inc., and Duke Energy Kentucky, Inc. ("DEOK")	4.17[2]
East Kentucky Power Cooperative, Inc. ("EKPC")	0.0

[2] Any change to this share must be made as a tariff filing under Section 205 of the Federal Power Act.

SCHEDULE 12 – APPENDIX

(5) Mid-Atlantic Interstate Transmission, LLC for the Metropolitan Edison Company Zone

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0215	Install 230Kv series reactor and 2- 100MVAR PLC switched capacitors at Hunterstown		AEC (6.68%) / APS (3.95%) / ConEd (0.42%) / DPL (9.06%) / JCPL (16.78%) / ME (10.49%) / Neptune* (1.68%) / PECO (18.92%) / PPL (7.52%) / PSEG (22.57%) / RE (0.34%) / UGI (0.95%) / ECP** (0.64%)
b0404.1	Replace South Reading 230 kV breaker 107252		ME (100%)
b0404.2	Replace South Reading 230 kV breaker 100652		ME (100%)
b0575.1	Rebuild Hunterstown – Texas Eastern Tap 115 kV		ME (100%)
b0575.2	Rebuild Texas Eastern Tap – Gardners 115 kV and associated upgrades at Gardners including disconnect switches		ME (100%)
b0650	Reconductor Jackson – JE Baker – Taxville 115 kV line		ME (100%)
b0652	Install bus tie circuit breaker on Yorkana 115 kV bus and expand the Yorkana 230 kV ring bus by one breaker so that the Yorkana 230/115 kV banks 1, 3, and 4 cannot be lost for either B-14 breaker fault or a 230 kV line or bank fault with a stuck breaker		ME (100%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.

(5) Mid-Atlantic Interstate Transmission, LLC for the Metropolitan Edison Company Zone

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0653	Construct a 230 kV Bernville station by tapping the North Temple – North Lebanon 230 kV line. Install a 230/69 kV transformer at existing Bernville 69 kV station		ME (100%)
b1000	Replace Portland 115kV breaker '95312'		ME (100%)
b1001	Replace Portland 115kV breaker '92712'		ME (100%)
b1002	Replace Hunterstown 115 kV breaker '96392'		ME (100%)
b1003	Replace Hunterstown 115 kV breaker '96292'		ME (100%)
b1004	Replace Hunterstown 115 kV breaker '99192'		ME (100%)
b1061	Replace existing Yorkana 230/115 kV transformer banks 1 and 4 with a single, larger transformer similar to transformer bank #3		ME (100%)
b1061.1	Replace the Yorkana 115 kV breaker '97282'		ME (100%)
b1061.2	Replace the Yorkana 115 kV breaker 'B282'		ME (100%)
b1302	Replace the limiting bus conductor and wave trap at the Jackson 115 kV terminal of the Jackson – JE Baker Tap 115 kV line		ME (100%)
b1365	Reconductor the Middletown – Collins 115 kV (975) line 0.32 miles of 336 ACSR		ME (100%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.

(5) Mid-Atlantic Interstate Transmission, LLC for the Metropolitan Edison Company Zone

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1366	Reconductor the Collins – Cly – Newberry 115 kV (975) line 5 miles with 795 ACSR		ME (100%)
b1727	Reconductor 2.4 miles of existing 556 and 795 ACSR from Harley Davidson to Pleasureville 115 kV with 795 ACSS to raise the ratings		ME (100%)
b1800	Install a 500 MVAR SVC at the existing Hunterstown 500kV substation		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b1801	Build a 250 MVAR SVC at Altoona 230 kV		AEC (6.45%) / AEP (2.57%) / APS (6.86%) / BGE (6.55%) / ConEd (0.29%) / DPL (12.35%) / Dominion (14.85%) / JCPL (8.12%) / ME (6.19%) / Neptune* (0.82%) / PECO (21.50%) / PPL (4.87%) / PSEG (8.16%) / RE (0.33%) / ECP** (0.09%)

(5) Mid-Atlantic Interstate Transmission, LLC for the Metropolitan Edison Company Zone

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1816.5	Replace SCCIR (Sub-conductor) at Hunterstown Substation on the No. 1, 230/115 kV transformer		ME (100%)
b1999	Replace limiting wave trap, circuit breaker, substation conductor, relay and current transformer components at Northwood		ME (100%)
b2000	Replace limiting wave trap on the Glendon - Hosensack line		ME (100%)
b2001	Replace limiting circuit breaker and substation conductor transformer components at Portland 230kV		ME (100%)
b2002	Northwood 230/115 kV Transformer upgrade		ME (100%)
b2023	Construct a new North Temple - Riverview - Cartech 69 kV line (4.7 miles) with 795 ACSR		ME (100%)
b2024	Upgrade 4/0 substation conductors at Middletown 69 kV		ME (100%)
b2025	Upgrade 4/0 and 350 Cu substation conductors at the Middletown Junction terminal of the Middletown Junction - Wood Street Tap 69 kV line		ME (100%)
b2026	Upgrade an OC protection relay at the Baldy 69 kV substation		ME (100%)
b2148	Install a 115 kV 28.8 MVAR capacitor at Pleasureville substation		ME (100%)

(5) Mid-Atlantic Interstate Transmission, LLC for the Metropolitan Edison Company Zone

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b2149	Upgrade substation riser on the Smith St. - York Inc. 115 kV line		ME (100%)
b2150	Upgrade York Haven structure 115 kV bus conductor on Middletown Jct. - Zions View 115 kV		ME (100%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.

SCHEDULE 12 – APPENDIX

(7) Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0284.1	Build 500 kV substation in PENELEC – Tap the Keystone – Juniata and Conemaugh – Juniata 500 kV, connect the circuits with a breaker and half scheme, and install new 400 MVAR capacitor		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b0284.3	Replace wave trap and upgrade a bus section at Keystone 500 kV – on the Keystone – Airydale 500 kV		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.
***Hudson Transmission Partners, LLC

Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0285.1	Replace wave trap at Keystone 500 kV – on the Keystone – Conemaugh 500 kV		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b0285.2	Replace wave trap and relay at Conemaugh 500 kV – on the Conemaugh – Keystone 500 kV		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.
***Hudson Transmission Partners, LLC

Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0349	Upgrade Rolling Meadows-Gore Jct 115 kV		PENELEC (100%)
b0360	Construction of a ring bus on the 345 kV side of Wayne substation		PENELEC (100%)
b0365	Add a 50 MVAR, 230 kV cap bank at Altoona 230 kV		PENELEC (100%)
b0369	Install 100 MVAR Dynamic Reactive Device at Airydale 500 kV substation		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b0370	Install 500 MVAR Dynamic Reactive Device at Airydale 500 kV substation		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.
***Hudson Transmission Partners, LLC

Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0376	Install 300 MVAR capacitor at Conemaugh 500 kV substation		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b0442	Spare Keystone 500/230 kV transformer		PENELEC (100%)
b0515	Replace Lewistown circuit breaker 1LY Yeagertown		PENELEC (100%)
b0516	Replace Lewistown circuit breaker 2LY Yeagertown		PENELEC (100%)
b0517	Replace Shawville bus section circuit breaker		PENELEC (100%)
b0518	Replace Homer City circuit breaker 201 Johnstown		PENELEC (100%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.
***Hudson Transmission Partners, LLC

Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0519	Replace Keystone circuit breaker 4 Transformer - 20		PENELEC (100%)
b0549	Install 250 MVAR capacitor at Keystone 500 kV		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b0550	Install 25 MVAR capacitor at Lewis Run 115 kV substation		AEC (8.58%) / APS (1.69%) / DPL (12.24%) / JCPL (18.16%) / ME (1.55%) / Neptune* (1.77%) / PECO (21.78%) / PPL (6.40%) / ECP** (0.73%) / PSEG (26.13%) / RE (0.97%)
b0551	Install 25 MVAR capacitor at Saxton 115 kV substation		AEC (8.58%) / APS (1.69%) / DPL (12.24%) / JCPL (18.16%) / ME (1.55%) / Neptune* (1.77%) / PECO (21.78%) / PPL (6.40%) / ECP** (0.73%) / PSEG (26.13%) / RE (0.97%)
b0552	Install 50 MVAR capacitor at Altoona 230 kV substation		AEC (8.58%) / APS (1.69%) / DPL (12.24%) / JCPL (18.16%) / ME (1.55%) / Neptune* (1.77%) / PECO (21.78%) / PPL (6.40%) / ECP** (0.73%) / PSEG (26.13%) / RE (0.97%)
b0553	Install 50 MVAR capacitor at Raystown 230 kV substation		AEC (8.58%) / APS (1.69%) / DPL (12.24%) / JCPL (18.16%) / ME (1.55%) / Neptune* (1.77%) / PECO (21.78%) / PPL (6.40%) / ECP** (0.73%) / PSEG (26.13%) / RE (0.97%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.
***Hudson Transmission Partners, LLC

Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0555	Install 100 MVAR capacitor at Johnstown 230 kV substation		AEC (8.58%) / APS (1.69%) / DPL (12.24%) / JCPL (18.16%) / ME (1.55%) / Neptune* (1.77%) / PECO (21.78%) / PPL (6.40%) / ECP** (0.73%) / PSEG (26.13%) / RE (0.97%)
b0556	Install 50 MVAR capacitor at Grover 230 kV substation		AEC (8.58%) / APS (1.69%) / DPL (12.24%) / JCPL (18.16%) / ME (1.55%) / Neptune* (1.77%) / PECO (21.78%) / PPL (6.40%) / ECP** (0.73%) / PSEG (26.13%) / RE (0.97%)
b0557	Install 75 MVAR capacitor at East Towanda 230 kV substation		AEC (8.58%) / APS (1.69%) / DPL (12.24%) / JCPL (18.16%) / ME (1.55%) / Neptune* (1.77%) / PECO (21.78%) / PPL (6.40%) / ECP** (0.73%) / PSEG (26.13%) / RE (0.97%)
b0563	Install 25 MVAR capacitor at Farmers Valley 115 kV substation		PENELEC (100%)
b0564	Install 10 MVAR capacitor at Ridgeway 115 kV substation		PENELEC (100%)
b0654	Reconfigure the Cambria Slope 115 kV and Wilmore Junction 115 kV stations to eliminate Wilmore Junction 115 kV 3-terminal line		PENELEC (100%)
b0655	Reconfigure and expand the Glade 230 kV ring bus to eliminate the Glade Tap 230 kV 3-terminal line		PENELEC (100%)
b0656	Add three breakers to form a ring bus at Altoona 230 kV		PENELEC (100%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.

Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0794	Upgrade the Homer City 230 kV breaker 'Pierce Road'		PENELEC (100%)
b1005	Replace Glory 115 kV breaker '#7 XFMR'		PENELEC (100%)
b1006	Replace Shawville 115 kV breaker 'NO.14 XFMR'		PENELEC (100%)
b1007	Replace Shawville 115 kV breaker 'NO.15 XFMR'		PENELEC (100%)
b1008	Replace Shawville 115 kV breaker '#1B XFMR'		PENELEC (100%)
b1009	Replace Shawville 115 kV breaker '#2B XFMR'		PENELEC (100%)
b1010	Replace Shawville 115 kV breaker 'Dubois'		PENELEC (100%)
b1011	Replace Shawville 115 kV breaker 'Philipsburg'		PENELEC (100%)
b1012	Replace Shawville 115 kV breaker 'Garman'		PENELEC (100%)
b1059	Replace a CRS relay at Hooversville 115 kV station		PENELEC (100%)
b1060	Replace a CRS relay at Rachel Hill 115 kV station		PENELEC (100%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.

Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1153	Upgrade Conemaugh 500/230 kV transformer and add a new line from Conemaugh-Seward 230 kV		AEC (3.72%) / APS (6.23%) / BGE (16.75%) / ConEd (0.39%) / DL (0.32%) / JCPL (12.52%) / ME (6.87%) / PECO (11.49%) / PEPCO (0.55%) / PPL (15.36%) / PSEG (20.44%) / RE (0.71%) / NEPTUNE* (1.70%) / ECP** (2.95%)
b1153.1	Revise the reclosing on the Shelocta 115 kV breaker 'Lucerne'		PENELEC (100%)
b1169	Replace Shawville 115 kV breaker '#1A XFMR'		PENELEC (100%)
b1170	Replace Shawville 115 kV breaker '#2A XFMR'		PENELEC (100%)
b1277	Build a new Osterburg East – Bedford North 115 kV Line, 5.7 miles of 795 ACSR		PENELEC (100%)
b1278	Install 25 MVAR Capacitor Bank at Somerset 115 kV		PENELEC (100%)
b1367	Replace the Cambria Slope 115/46 kV 50 MVA transformer with 75 MVA		PENELEC (100%)
b1368	Replace the Claysburg 115/46 kV 30 MVA transformer with 75 MVA		PENELEC (100%)
b1369	Replace the 4/0 CU substation conductor with 795 ACSR on the Westfall S21 Tap 46 kV line		PENELEC (100%)
b1370	Install a 3rd 115/46 kV transformer at Westfall		PENELEC (100%)
b1371	Reconductor 2.6 miels of the Claysburg – HCR 46 kV line with 636 ACSR		PENELEC (100%)

Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1372	Replace 4/0 CU substation conductor with 795 ACSR on the Hollidaysburg – HCR 46 kV		PENELEC (100%)
b1373	Re-configure the Erie West 345 kV substation, add a new circuit breaker and relocate the Ashtabula line exit		PENELEC (100%)
b1374	Replace wave traps at Raritan River and Deep Run 115 kV substations with higher rated equipment for both B2 and C3 circuits		PENELEC (100%)
b1535	Reconductor 0.8 miles of the Gore Junction – ESG Tap 115 kV line with 795 ACSS		PENELEC (100%)
b1607	Reconductor the New Baltimore - Bedford North 115 kV		PENELEC (100%)
b1608	Construct a new 345/115 kV substation and loop the Mansfield - Everts 115 kV		APS (8.57%) / ConEd (0.47%) / PECO (1.71%) / PENELEC (89.25%)
b1609	Construct Four Mile Junction 230/115 kV substation. Loop the Erie South - Erie East 230 kV line, Buffalo Road - Corry East and Buffalo Road - Erie South 115 kV lines		APS (4.86%) / PENELEC (95.14%)
b1610	Install a new 230 kV breaker at Yeagertown		PENELEC (100%)
b1713	Install a 345 kV breaker at Erie West and relocate Ashtabula 345 kV line		PENELEC (100%)
b1769	Install a 75 MVAR cap bank on the Four Mile 230 kV bus		PENELEC (100%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.

Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1770	Install a 50 MVAR cap bank on the Buffalo Road 115 kV bus		PENELEC (100%)
b1802	Build a 100 MVAR Fast Switched Shunt and 200 MVAR Switched Shunt at Mansfield 345 kV		AEC (6.45%) / AEP (2.57) / APS (6.86%) / BGE (6.55%) / ConEd (0.29%) / DPL (12.35%) / Dominion (14.85%) / JCPL (8.12%) / ME (6.19%) / NEPTUNE* (0.82%) / PECO (21.50%) / PPL (4.87%) / PSEG (8.16%) / RE (0.33%) / ECP** (0.09%)
b1821	Replace the Erie South 115 kV breaker 'Union City'		PENELEC (100%)
b1943	Construct a 115 kV ring bus at Claysburg Substation. Bedford North and Saxton lines will no longer share a common breaker		PENELEC (100%)
b1944	Reconductor Eclipse substation 115 kV bus with 1033 kcmil conductor		PENELEC (100%)
b1945	Install second 230/115 kV autotransformer at Johnstown		PENELEC (100%)
b1966	Replace the 1200 Amp Line trap at Lewistown on the Raystown-Lewistown 230 kV line and replace substation conductor at Lewistown		PENELEC (100%)
b1967	Replace the Blairsville 138/115 kV transformer		PENELEC (100%)
b1990	Install a 25 MVAR 115 kV Capacitor at Grandview		PENELEC (100%)
b1991	Construct Farmers Valley 345/230 kV and 230/115 kV substation. Loop the Homer City-Stolle Road 345 kV line into Farmers Valley		PENELEC (100%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.

Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1992	Reconductor Cambria Slope-Summit 115kV with 795 ACSS Conductor		PENELEC (100%)
b1993	Relocate the Erie South 345 kV line terminal		APS (10.09%) / ECP** (0.45%) / HTP (0.49%) / JCPL (5.14%) / Neptune* (0.54%) / PENELEC (70.71%) / PSEG (12.10%) / RE (0.48%)
b1994	Convert Lewis Run-Farmers Valley to 230 kV using 1033.5 ACSR conductor. Project to be completed in conjunction with new Farmers Valley 345/230 kV transformation		APS (33.20%) / ECP** (0.44%) / HTP (0.44%) / JCPL (8.64%) / ME (5.52%) / Neptune (0.86%) / PENELEC (36.81%) / PSEG (13.55%) / RE (0.54%)
b1995	Change CT Ratio at Claysburg		PENELEC (100%)
b1996.1	Replace 600 Amp Disconnect Switches on Ridgeway-Whetstone 115 kV line with 1200 Amp Disconnects		PENELEC (100%)
b1996.2	Reconductor Ridgway and Whetstone 115 kV Bus		PENELEC (100%)
b1996.3	Replace Wave Trap at Ridgway		PENELEC (100%)
b1996.4	Change CT Ratio at Ridgway		PENELEC (100%)
b1997	Replace 600 Amp Disconnect Switches on Dubois-Harvey Run-Whetstone 115 kV line with 1200 Amp Disconnects		PENELEC (100%)
b1998	Install a 75 MVAR 115 kV Capacitor at Shawville		PENELEC (100%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.

Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b2016	Reconductor bus at Wayne 115 kV station		PENELEC (100%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.

SCHEDULE 12 – APPENDIX A

(5) Mid-Atlantic Interstate Transmission, LLC for the Metropolitan Edison Company Zone

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b2006.1.1	Loop the 2026 (TMI – Hosensack 500 kV) line in to the Lauschtown		**Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / Dominion (13.30%) / DPL (2.53%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) **DFAX Allocation:** BGE (17.43%) / ME (20.22%) / PPL (62.35%)
b2006.2.1	Upgrade relay at South Reading on the 1072 230 V line		ME (100%)
b2006.4	*Replace the South Reading 69 kV '81342' breaker with 40kA breaker*		*ME (100%)*
b2006.5	*Replace the South Reading 69 kV '82842' breaker with 40kA breaker*		*ME (100%)*
b2452	Install 2nd Hunterstown 230/115 kV transformer		APS (8.30%) / BGE (14.70%) / DEOK (0.48%) / Dominion (36.92%) / ME (23.85%) / PEPCO (15.75%)
b2452.1	Reconductor Hunterstown - Oxford 115 kV line		APS (8.30%) / BGE (14.70%) / DEOK (0.48%) / Dominion (36.92%) / ME (23.85%) / PEPCO (15.75%)

Mid-Atlantic Interstate Transmission, LLC for the Metropolitan Edison Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b2452.3	Replace the Hunterstown 115 kV breaker '96192' with 40 kA		ME (100%)
b2588	Install a 36.6 MVAR 115 kV capacitor at North Bangor substation		ME (100%)
b2637	Convert Middletown Junction 230 kV substation to nine bay double breaker configuration.		ME (100%)
b2644	Install a 28.8 MVAR 115 kV capacitor at the Mountain substation		ME (100%)
b2688.1	Lincoln Substation: Upgrade the bus conductor and replace CTs.		AEP (12.87%)/ APS (18.98%)/ ATSI (1.23%)/ ComEd (0.35%)/ ConEd (0.33%)/ Dayton (1.44%)/ DEOK (2.29%)/ DL (1.11%)/ Dominion (44.70%)/ EKPC (0.78%)/ PEPCO (15.80%)/ RECO (0.12%)
b2688.2	Germantown Substation: Replace 138/115 kV transformer with a 135/180/224 MVA bank. Replace Lincoln 115 kV breaker, install new 138 kV breaker, upgrade bus conductor and adjust/replace CTs.		AEP (12.87%)/ APS (18.98%)/ ATSI (1.23%)/ ComEd (0.35%)/ ConEd (0.33%)/ Dayton (1.44%)/ DEOK (2.29%)/ DL (1.11%)/ Dominion (44.70%)/ EKPC (0.78%)/ PEPCO (15.80%)/ RECO (0.12%)
b2743.4	*Upgrade terminal equipment at Hunterstown 500 kV on the Conemaugh – Hunterstown 500 kV circuit*		*AEP (6.46%) / APS (8.73%) / BGE (19.73%) / ComEd (2.16%) / ConEd (0.06%) / Dayton (0.59%) / DEOK (1.02%) / DL (0.01%) / Dominion (39.92%) / EKPC (0.45%) / PEPCO (20.87%)*

Mid-Atlantic Interstate Transmission, LLC for the *Metropolitan Edison Company* Zone *(cont.)*

Required Transmission Enhancements		*Annual Revenue Requirement*	*Responsible Customer(s)*
b2752.4	*Upgrade terminal equipment and required relay communication at TMI 500 kV: on the Beach Bottom – TMI 500 kV circuit*		*AEP (6.46%) / APS (8.73%) / BGE (19.73%) / ComEd (2.16%) / ConEd (0.06%) / Dayton (0.59%) / DEOK (1.02%) / DL (0.01%) / Dominion (39.92%) / EKPC (0.45%) / PEPCO (20.87%)*

SCHEDULE 12 – APPENDIX A

(7) Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b2212	Shawville Substation: Relocate 230 kV and 115 kV controls from the generating station building to new control building		PENELEC (100%)
b2293	Replace the Erie South 115 kV breaker 'Buffalo Rd' with 40kA breaker		PENELEC (100%)
b2294	Replace the Johnstown 115 kV breaker 'Bon Aire' with 40kA breaker		PENELEC (100%)
b2302	Replace the Erie South 115 kV breaker 'French #2' with 40kA breaker		PENELEC (100%)
b2304	Replace the substation conductor and switch at South Troy 115 kV substation		PENELEC (100%)
b2371	Install 75 MVAR capacitor at the Erie East 230 kV substation		PENELEC (100%)
b2441	Install +250/-100 MVAR SVC at the Erie South 230 kV station		PENELEC (100%)
b2442	Install three 230 kV breakers on the 230 kV side of the Lewistown #1, #2 and #3 transformers		PENELEC (100%)
b2450	Construct a new 115 kV line from Central City West to Bedford North		PENELEC (100%)
b2463	Rebuild and reconductor 115 kV line from East Towanda to S. Troy and upgrade terminal equipment at East Towanda, Tennessee Gas and South Troy		PENELEC (100%)

Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b2494	Construct Warren 230 kV ring bus and install a second Warren 230/115 kV transformer		PENELEC (100%)
b2552.1	Reconductor the North Meshoppen – Oxbow-Lackawanna 230 kV circuit and upgrade terminal equipment (~~PENELEC~~ MAIT portion)		PENELEC (100%)
b2573	Replace the Warren 115 kV 'B12' breaker with a 40kA breaker		PENELEC (100%)
b2587	Reconfigure Pierce Brook 345 kV station to a ring bus and install a 125 MVAR shunt reactor at the station		PENELEC (100%)
b2621	Replace relays at East Towanda and East Sayre 115 kV substations (158/191 MVA SN/SE)		PENELEC (100%)
b2677	Replace wave trap, bus conductor and relay at Hilltop 115 kV substation. Replace relays at Prospect and Cooper substations		PENELEC (100%)
b2678	Convert the East Towanda 115 kV substation to breaker and half configuration		PENELEC (100%)
b2679	Install a 115 kV Venango Jct. line breaker at Edinboro South		PENELEC (100%)
b2680	Install a 115 kV breaker on Hooversville #1 115/23 kV transformer		PENELEC (100%)
b2681	Install a 115 kV breaker on the Eclipse #2 115/34.5 kV transformer		PENELEC (100%)

Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b2682	Install two 21.6 MVAR capacitors at the Shade Gap 115 kV substation		PENELEC (100%)
b2683	Install a 36 MVAR 115 kV capacitor and associated equipment at Morgan Street substation		PENELEC (100%)
b2684	Install a 36 MVAR 115 kV capacitor at Central City West substation		PENELEC (100%)
b2685	Install a second 115 kV 3000A bus tie breaker at Hooversville substation		PENELEC (100%)
b2743.2	*Tie in new Rice substation to Conemaugh – Hunterstown 500 kV*		*AEP (6.46%) / APS (8.73%) / BGE (19.73%) / ComEd (2.16%) / ConEd (0.06%) / Dayton (0.59%) / DEOK (1.02%) / DL (0.01%) / Dominion (39.92%) / EKPC (0.45%) / PEPCO (20.87%)*
b2743.3	*Upgrade terminal equipment at Conemaugh 500 kV on the Conemaugh – Hunterstown 500 kV circuit*		*AEP (6.46%) / APS (8.73%) / BGE (19.73%) / ComEd (2.16%) / ConEd (0.06%) / Dayton (0.59%) / DEOK (1.02%) / DL (0.01%) / Dominion (39.92%) / EKPC (0.45%) / PEPCO (20.87%)*

5.3 Unscheduled Transmission Service (Loop Flow).

(a) When there are agreements between the LLC and others for compensation to be paid or received for unscheduled transmission service (loop flow) into or out of the PJM Region, the net compensation received shall be included in the total Transmission Congestion Charges that are distributed in accordance with Section 5.2.

(b) With respect to payments by the Office of the Interconnection to the New York Power Pool for the installation and operation of phase angle regulating facilities at Ramapo to control or limit unscheduled transmission service (loop flow), each of the following Transmission Owner with revenue requirements under the PJM Tariff shall pay a share of the charges on a transmission revenue requirements ratio share basis: Allegheny Electric Cooperative, Inc., Atlantic City Electric Company, Baltimore Gas and Electric Company, Delmarva Power & Light Company, Jersey Central Power & Light Company, ~~Metropolitan Edison Company~~Mid-Atlantic Interstate Transmission, LLC (but only with respect to transmission revenue requirements associated with the Metropolitan Edison Company Zone), PECO Energy Company, Pennsylvania Power & Light Company, Potomac Electric Power Company, Public Service Electric and Gas Company, Rockland Electric Company, and UGI Utilities, Inc.

ATTACHMENT L
List of Transmission Owners

Allegheny Electric Cooperative, Inc.
American Transmission Systems, Incorporated
Atlantic City Electric Company
Baltimore Gas and Electric Company
NAEA Rock Springs, LLC
Delmarva Power & Light Company
Duke Energy Ohio, Inc.
Duke Energy Kentucky, Inc.
East Kentucky Power Cooperative, Inc.
Hudson Transmission Partners, LLC
ITC Interconnection LLC
Jersey Central Power & Light Company
~~Metropolitan Edison Company~~Mid-Atlantic Interstate Transmission, LLC
Neptune Regional Transmission System, LLC
Old Dominion Electric Cooperative
~~Pennsylvania Electric Company~~
PECO Energy Company
Pennsylvania Power & Light Company
Potomac Electric Power Company
Public Service Electric and Gas Company
Rockland Electric Company
Trans-Allegheny Interstate Line Company
UGI Utilities, Inc.
Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power
Commonwealth Edison Company and Commonwealth Edison Company of Indiana, Inc.
The Dayton Power and Light Company
AEP East Operating Companies (Appalachian Power Company, Columbus Southern Power Company, Indiana Michigan Power Company, Kentucky Power Company, Kingsport Power Company, Ohio Power Company and Wheeling Power Company)
Duquesne Light Company
Virginia Electric and Power Company
Linden VFT, LLC
City of Cleveland, Department of Public Utilities, Division of Cleveland Public Power
City of Hamilton, OH
City of Rochelle

Revisions to the PJM OA
(Marked / Redline Format)

- Definitions O-P
- Schedule 1, Section 5.3
- Schedule 12

Definitions O - P

Offer Data:

"Offer Data" shall mean the scheduling, operations planning, dispatch, new resource, and other data and information necessary to schedule and dispatch generation resources and Demand Resource(s) for the provision of energy and other services and the maintenance of the reliability and security of the Transmission System in the PJM Region, and specified for submission to the PJM Interchange Energy Market for such purposes by the Office of the Interconnection.

Office of the Interconnection:

"Office of the Interconnection" shall mean the employees and agents of PJM Interconnection, L.L.C. subject to the supervision and oversight of the PJM Board, acting pursuant to the Operating Agreement.

Office of the Interconnection Control Center:

"Office of the Interconnection Control Center" shall mean the equipment, facilities and personnel used by the Office of the Interconnection to coordinate and direct the operation of the PJM Region and to administer the PJM Interchange Energy Market, including facilities and equipment used to communicate and coordinate with the Market Participants in connection with transactions in the PJM Interchange Energy Market or the operation of the PJM Region.

On-Site Generators:

"On-Site Generators" shall mean generation facilities (including Behind The Meter Generation) that (i) are not Capacity Resources, (ii) are not injecting into the grid, (iii) are either synchronized or non-synchronized to the Transmission System, and (iv) can be used to reduce demand for the purpose of participating in the PJM Interchange Energy Market.

Operating Day:

"Operating Day" shall mean the daily 24 hour period beginning at midnight for which transactions on the PJM Interchange Energy Market are scheduled.

Operating Margin:

"Operating Margin" shall mean the incremental adjustments, measured in megawatts, required in PJM Region operations in order to accommodate, on a first contingency basis, an operating contingency in the PJM Region resulting from operations in an interconnected Control Area. Such adjustments may result in constraints causing Transmission Congestion Charges, or may result in Ancillary Services charges pursuant to the PJM Tariff.

Operating Margin Customer:

"Operating Margin Customer" shall mean a Control Area purchasing Operating Margin pursuant to an agreement between such other Control Area and the LLC.

Operating Reserve:

"Operating Reserve" shall mean the amount of generating capacity scheduled to be available for a specified period of an Operating Day to ensure the reliable operation of the PJM Region, as specified in the PJM Manuals.

Original PJM Agreement:

"Original PJM Agreement" shall mean that certain agreement between certain of the Members, originally dated September 26, 1956, and as amended and supplemented up to and including December 31, 1996, relating to the coordinated operation of their electric supply systems and the interchange of electric capacity and energy among their systems.

Other Supplier:

"Other Supplier" shall mean a Member that: (i) is engaged in buying, selling or transmitting electric energy, capacity, ancillatry services, financial transmission rights or other services available under PJM's governing documents in or through the Interconnection or has a good faith intent to do so, and; (ii) does not qualify for the Generation Owner, Electric Distributor, Transmission Owner or End-Use Customer sectors.

PJM Board:

"PJM Board" shall mean the Board of Managers of the LLC, acting pursuant to *the Operating Agreement*, except when such term is being used in *Tariff*, Attachment M, in which case PJM Board shall mean the Board of Managers of PJM or its designated representative, exclusive of any members of PJM Management.

PJM Control Area:

"PJM Control Area" shall mean the Control Area recognized by NERC as the PJM Control Area.

PJM Dispute Resolution Procedures:

"PJM Dispute Resolution Procedures" shall mean the procedures for the resolution of disputes set forth in *Operating Agreement,* Schedule 5.

PJM Governing Agreements:

*"PJM Governing Agreements" shall mean t*he PJM Open Access Transmission Tariff, the Operating Agreement, the Consolidated Transmission Owners Agreement, the Reliability Assurance Agreement, or any other applicable agreement approved by the FERC and intended to govern the relationship by and among PJM and any of its Members.

PJM Interchange:

"PJM Interchange" shall mean the following, as determined in accordance with the Schedules to *the Operating Agreement*: (a) for a Market Participant that is a Network Service User, the amount by which its hourly Equivalent Load exceeds, or is exceeded by, the sum of the hourly outputs of its operating generating resources; or (b) for a Market Participant that is not a Network Service User, the amount of its Spot Market Backup; or (c) the hourly scheduled deliveries of Spot Market Energy by a Market Seller from an External Resource; or (d) the hourly net metered output of any other Market Seller; or (e) the hourly scheduled deliveries of Spot Market Energy to an External Market Buyer; or (f) the hourly scheduled deliveries to an Internal Market Buyer that is not a Network Service User.

PJM Interchange Energy Market:

"PJM Interchange Energy Market" shall mean the regional competitive market administered by the Office of the Interconnection for the purchase and sale of spot electric energy at wholesale in interstate commerce and related services established pursuant to *Operating Agreement,* Schedule 1*, and the parallel provisions of Tariff, Attachment K-Appendix*.

PJM Interchange Export:

"PJM Interchange Export" shall mean the following, as determined in accordance with the Schedules to *the Operating Agreement*: (a) for a Market Participant that is a Network Service User, the amount by which its hourly Equivalent Load is exceeded by the sum of the hourly outputs of its operating generating resources; or (b) for a Market Participant that is not a Network Service User, the amount of its Spot Market Backup sales; or (c) the hourly scheduled deliveries of Spot Market Energy by a Market Seller from an External Resource; or (d) the hourly net metered output of any other Market Seller.

PJM Interchange Import:

"PJM Interchange Import" shall mean the following, as determined in accordance with the Schedules to *the Operating Agreement*: (a) for a Market Participant that is a Network Service User, the amount by which its hourly Equivalent Load exceeds the sum of the hourly outputs of its operating generating resources; or (b) for a Market Participant that is not a Network Service User, the amount of its Spot Market Backup purchases; or (c) the hourly scheduled deliveries of Spot Market Energy to an External Market Buyer; or (d) the hourly scheduled deliveries to an Internal Market Buyer that is not a Network Service User.

PJM Manuals:

"PJM Manuals" shall mean the instructions, rules, procedures and guidelines established by the Office of the Interconnection for the operation, planning, and accounting requirements of the PJM Region and the PJM Interchange Energy Market.

PJM Market Monitor:

"PJM Market Monitor" shall mean the Market Monitoring Unit established under Attachment M to the PJM Tariff.

PJM Mid-Atlantic Region*:*

"PJM Mid-Atlantic Region" shall mean the aggregate of the Transmission Facilities of Atlantic City Electric Company, Baltimore Gas and Electric Company, Delmarva Power and Light Company, Jersey Central Power and Light Company, ~~Metropolitan Edison Company~~Mid-Atlantic Interstate Transmission, LLC, PECO Energy Company, ~~Pennsylvania Electric Company,~~ PPL Electric Utilities Corporation, Potomac Electric Power Company, Public Service Electric and Gas Company, and Rockland Electric Company.

PJM Open Access Same-time Information System:

"PJM Open Access Same-time Information System" shall mean the electronic communication system for the collection and dissemination of information about transmission services in the PJM Region, established and operated by the Office of the Interconnection in accordance with FERC standards and requirements.

PJM Region:

"PJM Region" shall mean the aggregate of the Zones within PJM as set forth in Attachment J to the PJM Tariff.

PJMSettlement:

"PJMSettlement" or "PJM Settlement, Inc." shall mean PJM Settlement, Inc. (or its successor), established by PJM as set forth in Section 3.3 *of the Operating* Agreement.

PJM South Region:

"PJM South Region" shall mean the Transmission Facilities of Virginia Electric and Power Company.

PJM Tariff:

"PJM Tariff" or "Tariff" shall mean that certain "PJM Open Access Transmission Tariff", including any schedules, appendices, or exhibits attached thereto, on file with FERC and as amended from time to time thereafter.

PJM West Region:

"PJM West Region" shall mean the Zones of Allegheny Power; Commonwealth Edison Company (including Commonwealth Edison Co. of Indiana); AEP East Operating Companies; The Dayton Power and Light Company; the Duquesne Light Company; American Transmission Systems, Incorporated; Duke Energy Ohio, Inc. and Duke Energy Kentucky, Inc.

Planning Period:

"Planning Period" shall initially mean the 12 months beginning June 1 and extending through May 31 of the following year, or such other period established under the procedures of, as applicable, the Reliability Assurance Agreement.

Planning Period Balance:

"Planning Period Balance" shall mean the entire period of time remaining in the Planning Period following the month that a monthly auction is conducted.

Planning Period Quarter:

"Planning Period Quarter" shall mean any of the following three month periods in the Planning Period: June, July and August; September, October and November; December, January and February; or March, April and May.

Point-to-Point Transmission Service:

"Point-to-Point Transmission Service" shall mean transmission service provided pursuant to the rates, terms and conditions set forth in *Tariff*, Part II.

PRD Curve:

*"*PRD Curve*"* shall have the meaning provided in the Reliability Assurance Agreement.

PRD Provider:

*"*PRD Provider*"* shall have the meaning provided in the Reliability Assurance Agreement.

PRD Reservation Price:

*"*PRD Reservation Price*"* shall have the meaning provided in the Reliability Assurance Agreement.

PRD Substation:

*"*PRD Substation*"* shall have the meaning provided in the Reliability Assurance Agreement.

Pre-Emergency Load Response Program:

*"*Pre-Emergency Load Response Program*" shall be* the program by which Curtailment Service Providers may be compensated by PJM for Demand Resources that will reduce load when dispatched by PJM during pre-emergency conditions, and is described in Section 8 of Schedule 1

of the Operating Agreement and the parallel provisions of Section 8 of Attachment K-Appendix of the Tariff.

President:

"President" shall have the meaning specified in *Operating Agreement,* section 9.2.

Price Responsive Demand:

*"*Price Responsive Demand*"* shall have the meaning provided in the Reliability Assurance Agreement.

Primary Reserve:

"Primary Reserve" shall mean the total reserve capability of generation resources that can be converted fully into energy or Demand Resources whose demand can be reduced within ten minutes of a request from the Office of the Interconnection dispatcher, and is comprised of both Synchronized Reserve and Non-Synchronized Reserve.

Primary Reserve Requirement:

"Primary Reserve Requirement" shall mean the megawatts required to be maintained in a Reserve Zone or Reserve Sub-zone as Primary Reserve, absent any increase to account for additional reserves scheduled to address operational uncertainty. The Primary Reserve Requirement is calculated in accordance with the PJM Manuals.

Prohibited Securities:

"Prohibited Securities" shall mean the Securities of a Member, Eligible Customer, or Nonincumbent Developer, or their Affiliates, if:

(1) the primary business purpose of the Member or Eligible Customer, or their Affiliates, is to buy, sell or schedule energy, power, capacity, ancillary services or transmission services as indicated by an industry code within the "Electric Power Generation, Transmission, and Distribution" industry group under the North American Industry Classification System ("NAICS") or otherwise determined by the Office of the Interconnection;

(2) the Nonincumbent Developer has been pre-qualified as eligible to be a Designated Entity pursuant to *Operating Agreement,* Schedule 6;

(3) the total (gross) financial settlements regarding the use of transmission capacity of the Transmission System and/or transactions in the centralized markets that the Office of the Interconnection administers under the Tariff and the Operating Agreement for all Members or Eligible Customers affiliated with the publicly traded company during its most recently completed fiscal year is equal to or greater than 0.5% of its gross revenues for the same time period; or

(4) the total (gross) financial settlements regarding the use of transmission capacity of the Transmission System and/or transactions in the centralized markets that the Office of the Interconnection administers under the Tariff and the Operating Agreement for all Members or Eligible Customers affiliated with the publicly traded company during the prior calendar year is equal to or greater than 3% of the total transactions for which PJMSettlements is a Counterparty pursuant to *Operating Agreement,* section 3.3 for the same time period.

The Office of the Interconnection shall compile and maintain a list of the Prohibited Securities publicly traded and post this list for all employees and distribute the list to the Board Members.

Proportional Multi-Driver Project:

"Proportional Multi-Driver Project" shall mean a Multi-Driver Project that is planned as described in *Operating Agreement,* Schedule 6, section 1.5.10(h).

Pseudo-Tie:

"Pseudo-Tie shall have the same meaning set forth in the NERC Glossary of Terms Used in NERC Reliability Standards.

Public Policy Objectives:

"Public Policy Objectives" shall refer to Public Policy Requirements, as well as public policy initiatives of state or federal entities that have not been codified into law or regulation but which nonetheless may have important impacts on long term planning considerations.

Public Policy Requirements:

"Public Policy Requirements" shall refer to policies pursued by: (a) state or federal entities, where such policies are reflected in duly enacted statutes or regulations, including but not limited to, state renewable portfolio standards and requirements under Environmental Protection Agency regulations; and (b) local governmental entities such as a municipal or county government, where such policies are reflected in duly enacted laws or regulations passed by the local governmental entity.

5.3 Unscheduled Transmission Service (Loop Flow).

(a) When there are agreements between the LLC and others for compensation to be paid or received for unscheduled transmission service (loop flow) into or out of the PJM Region, the net compensation received shall be included in the total Transmission Congestion Charges that are distributed in accordance with Section 5.2.

(b) With respect to payments by the Office of the Interconnection to the New York Power Pool for the installation and operation of phase angle regulating facilities at Ramapo to control or limit unscheduled transmission service (loop flow), each of the following Transmission Owners with revenue requirements under the PJM Tariff shall pay a share of the charges on a transmission revenue requirements ratio share basis: Allegheny Electric Cooperative, Inc., Atlantic City Electric Company, Baltimore Gas and Electric Company, Delmarva Power & Light Company, Jersey Central Power & Light Company, ~~Metropolitan Edison Company~~Mid-Atlantic Interstate Transmission, LLC (but only with respect to transmission revenue requirements associated with the Metropolitan Edison Company Zone), PECO Energy Company, Pennsylvania Power & Light Company, Potomac Electric Power Company, Public Service Electric and Gas Company, Rockland Electric Company, and UGI Utilities, Inc.

SCHEDULE 12 -
PJM MEMBER LIST

A2A Energy International, LLC
Abest Power & Gas, LLC
AC Energy, LLC
Acciona Energy North America Corporation (AENAC)
Achieving Equilibrium LLC
AEP Appalachian Transmission Company, Inc.
AEP Energy Partners, Inc.
AEP Energy, Inc.
AEP Indiana Michigan Transmission Company, Inc.
AEP Kentucky Transmission Company, Inc.
AEP Ohio Transmission Company, Inc.
AEP Retail Energy Partners, LLC
AEP West Virginia Transmission Company, Inc.
AES Beaver Valley LLC
AES Energy Storage, LLC
AES ES Holdings, LLC
Aesir Power, LLC
AES Laurel Mountain, LLC
AES Ohio Generation, LLC
A.F. Mensah Inc.
Agera Energy LLC
Aggressive Energy LLC
Agway Energy Services, LLC
Air Liquide Industrial US, LP
Air Products & Chemicals, Inc.
AK Steel Corporation
Alabama Power Company
Alegria Fund, LP
Algonquin Energy Services, Inc.
Allegheny Electric Cooperative, Inc.
Allegheny Energy Supply Company, LLC
ALLETE, Inc. d/b/a Minnesota Power
Alliant Energy Corporate Services, Inc.
Alliant Energy Resources, LLC
Alpaca Energy LLC
Alpha Gas and Electric, LLC
Altus Power America, Inc.
Amazon Energy LLC
Ambit Northeast, LLC
American Illuminating Company, LLC
American Municipal Power, Inc.
American Power & Gas of IL, LLC
American Power & Gas of Ohio, LLC

American Power & Gas of Pennsylvania, LLC
American Power & Gas of NJ, LLC
American Power Partners, LLC
American PowerNet Management, L.P.
American Transmission Company, LLC
American Transmission Systems Inc.
Amerigreen Energy, Inc.
Ames Energy, LLC
Amity Energy LLC
Anahau Energy, LLC
Anbaric Northeast Transmission Development Company, LLC
AP Gas & Electric (IL), LLC
AP Gas & Electric (MD), LLC
AP Gas & Electric (OH), LLC
AP Gas and Electric (NJ), LLC
AP Gas and Electric (PA), LLC
APN Starfirst, LP
Appalachian Power Company
Appian Way Energy Partners MidAtlantic, LLC
Apple Group LLC
APX, Inc.
Aquenergy Systems Inc.
ArcelorMittal USA, LLC
ArcLight Energy Marketing, L.L.C.
Armada Power, LLC
Armenia Mountain Wind, LLC
Arrow Energy RRH, LLC
Aspirity Energy, LLC
Associated Electric Cooperative, Inc.
Astral Energy LLC
Atlantic City Electric Company
Atlantic Energy MD, LLC
Atlantic Grid Operations A, LLC
ATNV Energy, LP
Automated Algorithms, LLC
Avangrid Renewables, LLC
AXPO U.S. LLC
Baker Boy, LLC
Baltimore Gas and Electric Company
Baltimore Power Company LLC
Barclays Capital Services, Inc
Bargain Energy, LLC
Bartram Lane, LLC
Battery Utility of Ohio, LLC
Bayles Energy LLC
Bayonne Plant Holding, L.L.C.

Bazinga, LLC
BBPC LLC d/b/a/ Great Eastern Energy
Beacon Power, LLC
Bear Island Paper WB LLC
Beaver Dam Energy LLC
Beech Ridge Energy LLC
Beech Ridge Energy Storage LLC
Berks Hollow Energy Associates, LLC
Bernards Solar, LLC
Big Bend Trading, LLC
Big Rivers Electric Corporation
Big Sandy Peaker Plant, LLC
Big Savage, LLC
Big Sky Wind, LLC
Biogas Energy Solutions LLC
BioUrja Power, LLC
Birdsboro Power LLC
Bishop Hill Energy LLC
BIF II Safe Harbor Holding LLC
BIF III Holtwood LLC
BITH Solar I, LLC
BJ Energy, LLC
Black Oak Capital, LLC
Black Oak Energy, LLC
Blackout Power Trading Inc.
Blackstone Wind Farm II, LLC
Blackstone Wind Farm, LLC
Blue Ridge Power Agency, Inc.
Bluegrass Generating Company, LLC
BlueRock Energy, Inc.
BNP Paribas Energy Trading GP
Borough of Butler, Butler Electric Division
Borough of Chambersburg
Borough of Columbia, PA
Borough of Lavallette, New Jersey
Borough of Madison, New Jersey
Borough of Milltown
Borough of Mont Alto
Borough of Park Ridge, New Jersey
Borough of Pemberton
Borough of Pitcairn, Pennsylvania
Borough of Seaside Heights
Borough of South River, New Jersey
Boston Energy Group, Inc.
Boston Energy Trading and Marketing LLC
Bounce Energy PA, LLC

BP Energy Company
Brandon Shores LLC
Brick Standard LLC
Brighten Energy, LLC
Brookfield Energy Marketing, LP
Brookfield Power Piney & Deep Creek LLC
Brookfield Renewable Energy Marketing US LLC
Bruce Power Inc.
Brunner Island, LLC
Buckeye Power, Inc.
C.P. Crane LLC
Cahaya Power Marketing LLC
Calpine Bethlehem, LLC
Calpine Energy Services, L.P.
Calpine Mid Atlantic Marketing, LLC
Calvert Cliffs Nuclear Power Plant, LLC
Cambria Cogen Company
Camden Plant Holding, L.L.C.
Camp Grove Wind Farm, LLC
Canadian Wood Products – Montreal, Inc. dba CWP Energy
Capacity Markets Partners, LLC
Cape May County Municipal Utilities Authority
Capital Energy LLC
Cargill Power Markets, LLC
Carroll County Energy LLC
Casterbridge Advisory, L.L.C.
Castleton Commodities Merchant Trading L.P.
CenStar Energy Corp.
Central Transmission, LLC
Central Virginia Electric Cooperative
Centre Lane Trading Limited
CES Retail Energy Supply, LLC
Champion Energy Marketing LLC
Champion Energy Services, LLC
Champion Energy, LLC
Chesapeake Trading Group, LLC
Chesapeake Transmission LLC
Chief Conemaugh Power, LLC
Chief Keystone Power, LLC
Choice Energy, LLC dba 4 Choice Energy, LLC
Church Hill Solar Farm, LLC
Cincinnati Bell Energy, LLC
Cinnamon Bay, LLC
Citigroup Energy Inc.
Citizens' Electric Company of Lewisburg, PA
City of Batavia, Illinois

City of Cleveland, Department of Public Utilities, Division of Cleveland Public Power
City of Dover, Delaware
City of Geneva (The)
City of Hamilton
City of New Martinsville – WV
City of Philippi – West VA
City of Rochelle
CleanChoice Energy, Inc.
Clean Energy Future – Lordstown, LLC
CleanLight Power + Energy, LLC
Clear Power LLC
Clearview Electric, Inc.
Cleveland Electric Illuminating Company Climaton Research Company
CMS Energy Resource Management Company
Coaltrain Energy LP
Coastal Strategies, LLC
Coastal Wind and Solar Resources, LLC
Cogen Technologies Linden Venture, L.P.
Cogentrix Virginia Financing Holding Company, LLC
Cognovi Analytics, LLC
Collegiate Clean Energy, LLC
Commerce Energy Inc.
Commonwealth Chesapeake Company, LLC
Commonwealth Edison Company
Community Energy, Inc.
Comperio Energy LLC dba ClearChoice Energy
Conch Energy Trading, LLC
ConocoPhillips Company
Consolidated Edison Company of New York, Inc.
Consolidated Edison Energy, Inc.
Consolidated Edison Solutions, Inc.
Constellation Energy Power Choice, LLC
Constellation Energy Services, Inc.
Constellation NewEnergy, Inc.
Constellation Power Source Generation, LLC
Consumers Energy Company
Cordova Energy Company LLC
Corona Power LLC
County of Frederick, VA
Covanta Delaware Valley, L.P.
Covanta Energy Group, LLC
Covanta Essex Company
Covanta Union, LLC
CP Energy Marketing (US) Inc.
CPV MARYLAND, LLC
CPV Shore, LLC

Credit Suisse (USA), Inc.
Crescent Ridge LLC
Crete Energy Venture, LLC
Cube Hydro Partners, LLC
Cumulus Master Fund
Current Power & Gas Inc.
Customized Energy Solutions, Ltd.
Cygnus Energy Futures, LLC
Darby Energy, LLLP
Dart Container Corporation of Pennsylvania
Dayton Power & Light Company (The)
DC Energy LLC
DC Energy Mid-Atlantic, LLC
DCO Energy, LLC
Decatur Energy Center, LLC
DEL LIGHT INC.
Delaware Division of the Public Advocate
Delaware Municipal Electric Corporation
Delmarva Power & Light Company
Demansys Energy, LLC
Denver Energy, LLC
Devonshire Energy, LLC
Diamond State Generation Partners, LLC
Direct Energy Business, LLC
Direct Energy Business Marketing, LLC
Direct Energy Services, LLC
Divine Power, Inc.
Dominion Energy Marketing, Inc.
Domtar Paper Company, LLC
Doswell Limited Partnership
Downes Associates, Inc.
DPL Energy Resources, LLC
DTE Energy Trading, Inc.
Dufossat Capital I, LLC
Duke Energy Business Services, LLC
Duke Energy Carolinas, LLC
Duke Energy Commercial Enterprises, Inc.
Duke Energy Florida, LLC
Duke Energy Kentucky, Inc.
Duke Energy Ohio, Inc.
Duke Energy Progress, LLC
Duke Energy Renewable Services, LLC
Duquesne Conemaugh LLC
Duquesne Keystone LLC
Duquesne Light Company
Duquesne Light Energy, LLC

Duquesne Power LLC
Dynasty Energy Group LLC
Dynasty North America Holdings Inc.
Dynasty Power Inc.
Dynegy Energy Services, LLC
Dynegy Kendall Energy, LLC
Dynegy Marketing and Trade, LLC
Dynegy Power Marketing, LLC
Dyon, LLC
E Minus LLC
E.ON Climate & Renewables North America Inc.
Eagle Point Power Generation LLC
Eagle's View Multi-Strategy, LLC
Earth Networks, Inc.
East Coast Power & Gas of New Jersey, LLC
East Coast Power Linden Holdings, L.L.C.
Eastern Generation, LLC
Eastern Shore Solar LLC
East Kentucky Power Cooperative, Inc.
Easton Utilities Commission
Ebensburg Power Company
Ebrfuel, LLC
eCap Network, LLC
Ecesis LLC
EcoGrove Wind, LLC
EDF Trading North America, LLC
Edison Transmission, LLC
EDP Energy Services, LLC
EDP Renewables North America, LLC
EF Kenilworth LLC
EFS Parlin Holdings, LLC
El Paso Marketing, L.P.
Elgin Energy Center, LLC
Eligo Energy, LLC
Elliot Bay Energy Trading, LLC
Elmagin Power Fund LLC
Elmwood Park Power, LLC
Elwood Energy LLC
EMC Development Company, Inc.
Emera Energy Services, Inc.
Emporia Hydropower Limited Partnership
ENBALA Power Networks, Inc.
Endurance Energy Midwest LLC
Energetix, Inc.
Energy America, LLC
Energy Answers Baltimore, LLC

Energy Authority, Inc. (The)
Energy Consulting Services, LLC
Energy Cooperative Association of Pennsylvania
Energy Cooperative of America, Inc.
Energy Limited Inc.
Energy Plus Holdings LLC
Energy Power Investment Company, LLC
Energy Service Providers, Inc.
Energy Technology Savings, Inc.
Energy Transfer Retail Power, LLC
Energy.me Midwest llc d/b/a energy.me
Energya VM Gestion de Energia S.L.U.
EnergyConnect, Inc.
EnerNOC, Inc.
EnerPenn USA, LLC
Enerwise Global Technologies, Inc.
Engelhart CTP (US) LLC
ENGIE Resources LLC
ENGIE Retails, LLC
Entegra Power Services LLC
Entrust Energy East, Inc.
EPP Renewable Energy, LLC
Essential Power OPP, LLC
Essential Power Rock Springs, LLC
Essential Power, LLC
ETC Endure Energy L.L.C.
Evergreen Community Power
Evergreen Gas & Electric, LLC
EverPower Commercial Services, LLC
Everyday Energy, LLC
Exel Power Sources, LLC
Exelon Business Services Company, LLC
Exelon Generation Company, LLC
Exion Energy Inc.
Falcon Energy, LLC
Fantods LLC
Fermata, LLC
First Point Power, LLC
FirstEnergy Solutions Corp.
Florey Knob Energy LLC
Florida Power & Light Company
Forest Investment Group, LLC
Forked River Power LLC
Fowler Ridge II Wind Farm LLC
Fowler Ridge III Wind Farm LLC
Fowler Ridge IV Wind Farm LLC

Fowler Ridge Wind Farm LLC
FPL Energy Marcus Hook LP
Franklin Power LLC
Freepoint Commodities LLC
Freepoint Energy Solutions LLC
Frontier Utilities Northeast, LLC
Future Power PA LLC
G&G Energy, Inc.
G&S Wantage Solar, LLC
Gallus Capital LLC
Galt Power, Inc.
Gateway Energy Services Corporation
GBE Energy Marketing Inc.
GDF SUEZ Energy Marketing NA, Inc.
GDF SUEZ Energy Resources NA, Inc.
Gen IV Investment Opportunities, LLC
Genbright LLC
GenOn Energy Management, LLC
Gen Ops, LLC
Georgia Power Company
Gerdau Ameristeel Energy, Inc
Geronimo Energy Holdings, LLC
Grain Belt Express Clean Line LLC
Grand Ridge Energy II LLC
Grand Ridge Energy III LLC
Grand Ridge Energy IV LLC
Grand Ridge Energy LLC
Grand Ridge Energy V LLC
Grand Ridge Energy Storage, LLC
Granger Energy of Honey Brook, LLC
Grays Ferry Cogeneration Partnership
Great American Power, LLC
Great Barrington Energy Fund LP
Great Bay Energy I, LLC
Great Bay Energy III, LLC
Great Falls Hydroelectric Company, Limited Partnership
GreenHat Energy, LLC
Greenlight Energy Inc.
Green Mountain Energy Company
Greene Energy, LLC
greeNEWit, LLC
GRG ENERGY LLC
Gridforce Energy Management, LLC
GSG, LLC
GSG 6, LLC
Gulf Power Company

Guttman Energy, Inc.
Guzman Energy LLC
H.A. Wagner LLC
H.Q. Energy Services (U.S.), Inc.
Hagerstown Light Department
Half Moon Ventures, LLC
Handsome Lake Energy, LLC
Harborside Energy, LLC
Harrison REA, Inc. – Clarkesburg, WV
Hartree Partners, LP
Hawks Nest Hydro LLC
Hazle Spindle, LLC
Hazleton Generation LLC
Headwaters Wind Farm LLC
Hemsworth Capital LP
Hemsworth Capital Midwest LP
Hexis Energy Trading, LLC
Hickory Run Energy, LLC
Highland North LLC
High Resolution Energy, LLC
High Resolution Energy VT Fund I, LP
HIKO Energy, LLC
Hill Energy Resource & Services, LLC
Hill Top Energy Center, LLC
Holcim (US), Inc.
Holocene Finance, LLC
Holtwood, LLC
Homer City Generation, LP
Hoosier Energy REC, Inc.
Hop Bottom Energy LLC
Horizon Energy Investments, Inc.
Horizon Power and Light, LLC
H-P Energy Resources, LLC
HSBC Technology & Services (USA), Inc.
Hudson Energy Services, LLC
Hudson Transmission Partners, LLC
Icetec.com, Inc.
Icetec Energy Services, Inc.
IDT Energy, Inc.
Illinois Citizens Utility Board
Illinois Municipal Electric Agency
Illinois Power Marketing Company
IMG Midstream LLC
Indeck Energy Services, Inc.
Indeck Niles, LLC
Independence Energy Group, LLC

Independent Energy Consultants, Inc.
Indiana Michigan Power Company
Indiana Municipal Power Agency
Indiana Office of Utility Consumer Counselor (IN OUCC)
Industrial Energy Users-Ohio
Inertia Power I, LLC
Ingenco Holdings, LLC
Ingenco Wholesale Power, LLC
Innovari Market Solutions LLC
Innovation Tap LLC d/b/a Innotap
Innoventive Power LLC
Inspire Energy Holdings, LLC
Intelligent Generation, LLC
International Paper Company
Interstate Gas Supply, Inc.
Interstate Power and Light Company
Invenergy LLC
Invenergy Nelson LLC
Ioway Energy, LLC
IPKeys Power Partners LLC
Iron Energy LLC
iSigma, Inc.
ITC Interconnection LLC
ITC Mid-Atlantic Development LLC
J. Aron & Company
Jack Rich, Inc. d/b/a Anthracite Power & Light Company
James River Genco, LLC
Jane Street Energy Trading, LLC
Jersey Central Power & Light Company
Jersey Green Energy, LLC
Jersey-Atlantic Wind, LLC
Joliet Battery Storage LLC
Josco Energy USA, LLC
JP Morgan Ventures Energy Corporation
JPTC, LLC
Kansas City Power & Light Company
KASS Commodities, LLC
KDC Solar Green Power LLC
Kentucky Power Company
KeyTex Energy LLC
KeyTex Energy Solutions LLC
KFW Energy, LLC
Kimberly-Clark Corporation
Kincaid Generation, LLC
Kingsport Power Company
Kiyoshi Technologies, LLC

KMC Thermo, LLC
Koch Energy Services, LLC
KOREnergy, Ltd.
Krayn Wind LLC
Kuehne Chemical Company, Inc.
Kupper Engineering, Inc.
L&P Electric Inc., d/b/a Leggett & Platt Electric Inc.
Lackawanna Energy Center LLC
Lancaster County Solid Waste Management Authority
Land O'Lakes, Inc.
Lantar Energy LLC
LCG Consulting
Lee River Proprietary Strategies, Inc.
Leeward Asset Management, LLC
Legacy Energy Group, LLC (The)
Lehigh Portland Cement Company
Lehman Brothers Commodity Services, Inc.
Letterkenny Industrial Development Authority – PA
Levelsail Trading, LLC
Liberty Electric Power, LLC
Liberty Hill Power LLC
Liberty Power Corp., L.L.C.
Liberty Power Delaware, LLC
Liberty Power District of Columbia LLC
Liberty Power Holdings LLC
Liberty Power Maryland, LLC
LifeEnergy, LLC
Lincoln Generating Facility, LLC
Linde Energy Services, Inc.
Linde, LLC
Linden VFT LLC
Links EP LLC
LM Power, LLC
Long Island Lighting Company d/b/a LIPA
Longview Power, LLC
Louisville Gas and Electric Company/Kentucky Utilities Company
Lower Electric, LLC
Lower Mount Bethel Energy, LLC
LQA, LLC
LSP University Park, LLC
LTSTE Investments, LLC
Lykins Oil Company d/b/a Lykins Energy Solutions
Mac Trading, Inc.
Macquarie Energy, LLC
Madison Gas and Electric Co.
MAG Energy Solution, Inc.

Mahoning Creek Hydroelectric Company, LLC
Major Energy Electric Services, LLC
Manatee Transmission LLC
Mansfield Power and Gas, LLC
Maple Analytics, LLC
Marathon Power LLC
Marina Energy, LLC
Martins Creek, LLC
Maryland Office of People's Counsel
Mattawoman Energy, LLC
MC Squared Energy Services, LLC
Meadow Lake Wind Farm II, LLC
Meadow Lake Wind Farm III, LLC
Meadow Lake Wind Farm IV, LLC
Meadow Lake Wind Farm, LLC
MeadWestvaco Corporation
Median Energy Corp.
Mega Energy Holdings, LLC
MEG Generating Company, LLC
Mehoopany Wind Energy LLC
Mendota Hills, LLC
Mercuria Energy America, Inc.
Mercuria SJAK Trading, LLC
Merrill Lynch Commodities, Inc.
MET MA LLC
Metropolitan Edison Company
Miami Valley Lighting, LLC
Michigan Department of Attorney General, Environment, Natural Resources & Agriculture Division
Michigan Public Power Agency
Microsoft Corporation
MidAmerican Energy Company
MidAmerican Energy Services, LLC
MidAtlantic Power Partners, LLC
Mid-Atlantic Interstate Transmission, LLC
Mid-Atlantic Renewable Energy Coalition
Middlesex County Utilities Authorities
Middlesex Energy Center, LLC
Midwest Energy Trading East LLC
Midwest Generation, LLC
Milan Energy LLC
Milford Solar LLC
Mint Energy, LLC
Mississippi Power Company
Monmouth Energy, Inc.
Monongahela Power Company d/b/a Allegheny Power

Monterey MA, LLC
Monterey MAF, LLC
Montour, LLC
Morgan Stanley Capital Group, Inc.
Morgan Stanley Services Group Inc.
Morgans Corner Solar Energy LLC
Morris Cogeneration, L.L.C
Mosaic Power, LLC
Moundsville Power, LLC
Moxie Freedom LLC
MP2 Energy NE, LLC
MP2 Energy, LLC
MPCF I, LLC
MPower Energy NJ LLC
Mt. Carmel Cogeneration Inc.
Nalcor Energy Marketing Corporation
NATGASCO d/b/a/ Supreme Energy, Inc.
National Gas & Electric, LLC
Natural Gas Exchange Inc.
Nautilus Solar Energy, LLC
NedPower Mount Storm, LLC
NEPM II, LLC
Neptune Regional Transmission System, LLC
NERC-Middlesex Solar I, LLC
Newark Energy Center, LLC
New Covert Generating Company, LLC
New Jersey Division of the Ratepayer Advocate
New York Power Authority
New York State Electric & Gas Corporation
Newark Bay Cogeneration Partnership, L.P.
NextEra Energy Power Marketing, LLC
NextEra Energy Services Illinois, LLC
NextEra Energy Services New Jersey, LLC
NextEra Energy Transmission, LLC
Nittany Energy, LLC
NJ Brothers Capital Limited
NJR Clean Energy Ventures Corporation
NJR Clean Energy Ventures II Corporation
Noble Americas Energy Solutions, LLC
Noble Americas Gas & Power Corp.
Nordic Energy Services LLC
North American Natural Resources – SBL, LLC
North American Power and Gas, LLC
North Carolina Electric Membership Corporation
North Carolina Municipal Power Agency Number 1
North Hanover Solar W2-082, LLC

Northampton Generating Company, L.P.
Northeast Maryland Waste Disposal Authority
Northeast Transmission Development, LLC
Northeastern REMC
Northern Illinois Municipal Power Agency
Northern Indiana Public Service Company
Northern States Power Company
Northern Virginia Electric Cooperative - NOVEC
NorthPoint Energy Solutions, Inc.
Northstar Trading Ltd.
NRG Curtailment Solutions, Inc.
NRG Potomac River LLC
NRG Power Marketing, LLC
NRG Power Midwest LP
NRGStream LLC
NTE Carolinas, LLC
NTE Ohio, LLC
NuEnergen, LLC
NYSEG Solutions, Inc.
Oasis Power, LLC dba Oasis Energy
Occidental Power Services, Inc.
Oceanside Power, LLC
Office of the Attorney General, Kentucky
Office of the People's Counsel for the District of Columbia
Ohio Consumer's Counsel
Ohio Edison Company
Ohio Power Company
Ohio Valley Electric Corporation
OhmConnect, Inc.
Old Dominion Electric Cooperative
Olympus Power, LLC
Ontario Power Generation Energy Trading, Inc.
Ontario Power Generation Inc.
Ontelaunee Power Operating Company
Oregon Clean Energy, LLC
Orthogonal Energy, LLC
Osaka Gas USA Corporation
Owensboro Municipal Utilities
Oxbow Creek Energy LLC
Oxford Energy Services, LLC
Ozark International, Inc.
P.H. Glatfelter Company
Pacific Summit Energy LLC
Palmco Power DC, LLC
PALMco Power DE, LLC
Palmco Power IL, LLC

Palmco Power MD, LLC
Palmco Power NJ, LLC
Palmco Power OH, LLC
Palmco Power PA, LLC
PALMco Power VA, LLC
Panda Hummel Station LLC
Panda Liberty LLC
Panda Patriot LLC
Panda Stonewall LLC
Panther Creek Power Operating, LLC
Park Power LLC
Parma Energy LLC
PATH Allegheny Transmission Company, LLC
PATH West Virginia Transmission Company, LLC
Patton Wind Farm, LLC
Paulding Wind Farm II LLC
Paulding Wind Farm III LLC
PBF Power Marketing, LLC
PECO Energy Company
Pedricktown Cogeneration Company LP
PEI Power Corporation
PEI Power II, LLC
Peninsula Power, LLC
Penncat Corporation
Pennsylvania Electric Company
Pennsylvania Office of Consumer Advocate
Pennsylvania Power Company
Pennsylvania Renewable Resources, Associates
Pentacles Electric, LLLP
Pepco Energy Services, Inc.
Perigee Energy, LLC
PG Energy Services Inc. d/b/a/ PG Energy Power Plus
Philadelphia Energy Solutions Refining and Marketing LLC
Piedmont Energy Fund, L.P.
Pine Hill Energy LLC
Pinnacle Power LLC
PJLB LLC
PJS Capital, LLC
Plain Rights, LLC
Planet Energy (Maryland) Corp.
Planet Energy (Pennsylvania) Corp.
Planet Energy (USA) Corp.
Plant-E Corp.
Plutus Trading Company, LP
Portsmouth Genco, LLC
Potomac Edison Company (The) d/b/a Allegheny Power

Potomac Electric Power Company
Power Dave Fund LLC
Power Engineers, Incorporated
Power Generation Services, Inc.
Powerex Corporation
Power Supply Services, LLC
PPGI Fund A/B Development, LLC
PPL Electric Utilities Corporation dba PPL Utilities
Prairieland Energy, Inc.
Praxair, Inc.
Precept Power LLC
Procter & Gamble Paper Products Company (The)
Property Endeavors LLC
Providence Heights Wind, LLC
Provision Power and Gas, LLC
PSEG Energy Resources & Trade LLC
PSEG Energy Solutions LLC
PSEG Fossil LLC
PSEG Nuclear LLC
Public Power, LLC(CT)
Public Service Electric and Gas Company
Public Staff – North Carolina Utilities Commission
Pure Energy, Inc.
Quasar Energy Group, LLC
Raiden Commodities LP
Rainbow Energy Marketing Corporation
Rainbow Energy Ventures LLC
Raven Power Marketing LLC
RBC Energy Services LP
RC Cape May Holdings, LLC
Realgy, LLC
Recurrent Energy, LLC
Red Glen Energy LLC
Red Oak Power, LLC
Red Wolf Energy Trading, LLC
Red Wolf PT, LLC
Reliant Energy Northeast, LLC
Renaissance Power, LLC
Renaissance Power & Gas, Inc.
Renergy Inc.
Repsol Energy North America Corporation
RES America Developments Inc.
ResCom Energy, LLC
Residents Energy, L.L.C.
Respond Power, LLC
Richland-Stryker Generation LLC

RI-Corp. Development, Inc.
Ringer Hill Wind, LLC
Riverside Generating Company, L.L.C.
RJUMR Energy Partners Corp.
Robinson Power Company, LLC
Rochester Gas and Electric Corporation
Rock Island Clean Line LLC
Rockland Electric Company
Rolling Hills Generating, L.L.C.
Roth Rock Wind Farm, LLC
Roundtop Energy LLC
Royal Bank of Canada
RPA Energy, Inc.
R.R. Donnelley & Sons Company
RRI Energy Services, LLC
RRI Energy Solutions East, LLC
RTP Controls, Inc
Rushmore Energy, LLC (new).
S.J. Energy Partners, Inc.
Safe Harbor Water Power Corporation
Safeway Inc.
Santanna Energy Services
Sapphire Power Marketing LLC
Saracen Energy East LP
Saracen Energy Midwest LP
Saracen Energy West LP
Saracen Power LP
Saugatuck River Power Trading LLC
Schuylkill Energy Resources, Inc.
Scrubgrass Generating Company, L.P.
Scylla Energy LLC
SESCO ENTERPRISES LLC
Seven Islands Environmental Solutions, LLC
Severn River Power LLC
Seward Generation, LLC
SFE Energy Pennsylvania, Inc.
SFE Energy, Inc.
SFE Energy NJ, Inc.
Shell Energy North America (U.S.), L.P.
Shipley Choice LLC
Siemens Industry, Inc.
SmartEnergy Holdings, LLC
SNC-Lavalin Constructors, Inc.
Solea Energy, LLC
Solios Power Mid-Atlantic Trading, LLC
Solios Power Mid-Atlantic Virtual LLC

Source Power & Gas LLC
South Carolina Electric & Gas Company
South Field Energy LLC
South Jersey Energy Company
Southard Energy Partners LLC
Southeastern Chester County Refuse Authority
Southeastern Power Administration
Southern Indian Gas and Electric Company d/b/a Vectren Power Supply Inc.
Southern Maryland Electric Cooperative, Inc.
Southern Power Company
Southland Industries
Spark Energy, LLC
Sperian Energy Corp
Spring Energy RRH, LLC dba Spring Power & Gas
Star Energy Partners LLC
Starion Energy PA, Inc.
STATARB INVESTMENTS LLC
St. Joseph Energy Center, LLC
Stoney Creek Wind Farm, LLC
Strategic Transmission LLC
Stream Energy Columbia, LLC
Stream Energy Maryland, LLC
Stream Energy New Jersey, LLC
Stream Energy Pennsylvania, LLC
Strom Power, LLC
Suffolk Fund LLC
Summer Energy of Ohio LLC
SunCoke Energy, Inc
Sunico LLC
Susquehanna Nuclear, LLC
Sustaining Power Solutions LLC
Switch Energy, LLC
Syncarpha Solar, LLC
Talen Energy Marketing, LLC
Tangent Energy Solutions, Inc.
TAQA Gen X LLC
Targray Americas Inc.
Tatanka Wind Power, LLC
TEC Energy Inc.
TEC Trading, Inc.
Tenaska Pennsylvania Partners, LLC
Tenaska Power Management, LLC
Tenaska Power Services Co.
Tenaska Virginia Partners, L.P.
Tennessee Valley Authority (The)
TERM Power & Gas, LLC

Texas Retail Energy, LLC
The Hartz Group
The Highlands Energy Group, LLC
The Mobility House, LLC
THG Energy Solutions, LLC
Thurmont Municipal Light Company
Tilton Energy, LLC
Titan Gas and Power
Toledo Edison Company (The)
Torofino Trading, LLC
Town of Berlin, Maryland
Town of Front Royal, Virginia
Town of Williamsport
Town Square Energy East, LLC
TrailStone Power, LLC
Trans-Allegheny Interstate Line Company
TransAlta Energy Marketing (US) Inc.
TransCanada Power Marketing, Ltd.
TranSource, LLC
Transource Energy, LLC
Transource West Virginia, LLC
Tri-County Rural Electric Cooperative, Inc.
Trident Retail Energy, LLC
TriEagle Energy, LP
Triolith Energy Fund, LP
TrueLight Commodities, LLC
TrueLight Energy Fund, LP
Trumpet Trading Group, LLC
Trustees of the University of Pennsylvania
Twin Eagle Resource Management, LLC
Tyne Hill Investments LP
UGI Development Company
UGI Energy Services, LLC
UGI Utilities, Inc.
Uncia Energy LP – Series B
Union Electric Company d/b/a Ameren Missouri
Union Power Partners, L.P.
Uniper Global Commodities North America, LLC
University Park Energy, LLC
Valent Energy, LLC
VCharge, Inc.
VECO Power Trading, LLC
Vel Energy, LP
Velocity American Energy Master I, LP
Verde Energy USA DC, LLC
Verde Energy USA Illinois, LLC

Verde Energy USA Maryland, LLC
Verde Energy USA Ohio, LLC
Verde Energy USA, Inc.
Vineland Municipal Electric Utility
Virginia Division of Consumer Counsel
Virginia Electric and Power Company
Virginia State Corporation Commission
Viridian Energy PA, LLC
Viridity Energy, Inc.
Virtual Power Hedging, LLC
Vitol, Inc.
Voltus, Inc.
Wabash Valley Power Association, Inc.
Volunteer Energy Services, Inc.
Wellsboro Electric Company
West Chicago Battery Storage LLC
West Deptford Energy II, LLC
West Deptford Energy, LLC
West Oaks Energy, L.P.
West Penn Power Company d/b/a Allegheny Power
West Virginia Consumer Advocate Division
Westar Energy, Inc.
Western Reserve Energy Services, LLC
Westmoreland Partners
Weston Solutions, Inc.
Westwood Generation, LLC
WGL Energy Services, Inc.
Wheelabrator Baltimore, L.P.
Wheelabrator Falls Inc.
Wheelabrator Frackville Energy Co Inc.
Wheelabrator Gloucester Company, L.P.
Wheelabrator Portsmouth, Inc.
Wheeling Power Company
Wildcat Wind Farm I, LLC
Willey Battery Utility, LLC
Wisconsin Electric Power Company
Wisconsin Power and Light Company
WM Renewable Energy, LLC
Wolf Hills Energy, LLC
Wolverine Holdings, L.P.
Wolverine Power Supply Cooperative, Inc.
Wolverine Trading, LLC
WPPI Energy
Wyandot Solar LLC
Wylan Energy, L.L.C.
XO Energy CAL2 LP

XO Energy MA, LP
XO Energy MA2, LP
XO Energy NY2 LP
Xoom Energy Maryland, LLC
Xoom Energy New Jersey, LLC
XOOM Energy Ohio, LLC
XOOM Enegy Washington D.C., LLC
Xoom Energy, LLC
Yasmin Partners LLC
Yes Energy LLC
York County Solid Waste and Refuse Authority
York Generation Company LLC
York Haven Power Company, LLC
ZF Energy Development, LLC
Zongyi Solar America Co. Ltd.

Attachment B

Revisions to the PJM OATT and OA
(Clean Format)

Revisions to the PJM OATT
(Clean Format)

- Definitions O-P-Q
- Schedule 1A
- Schedule 12 – Appendix Metropolitan Edison Company
- Schedule 12 – Appendix Pennsylvania Electric Company
- Schedule 12 – Appendix A Metropolitan Edison Company
- Schedule 12 – Appendix A Pennsylvania Electric Company
- Attachment K, Section 5.3
- Attachment L

Definitions – O – P - Q

Obligation:

*"*Obligation*" shall mean* all amounts owed to PJMSettlement for purchases from the PJM Markets, Transmission Service, (under both *Tariff*, Part II and Part III), and other services or obligations pursuant to the Agreements. In addition, aggregate amounts that will be owed to PJMSettlement in the future for Capacity purchases within the PJM Capacity markets will be added to this figure. Should other markets be formed such that Participants may incur future Obligations in those markets, then the aggregate amount of those Obligations will also be added to the Net Obligation.

Offer Data:

"Offer Data" shall mean the scheduling, operations planning, dispatch, new resource, and other data and information necessary to schedule and dispatch generation resources and Demand Resource(s) for the provision of energy and other services and the maintenance of the reliability and security of the Transmission System in the PJM Region, and specified for submission to the PJM Interchange Energy Market for such purposes by the Office of the Interconnection.

Office of the Interconnection:

*"*Office of the Interconnection*"* shall mean the employees and agents of PJM Interconnection, L.L.C. subject to the supervision and oversight of the PJM Board, acting pursuant to the Operating Agreement.

Office of the Interconnection Control Center:

"Office of the Interconnection Control Center" shall mean the equipment, facilities and personnel used by the Office of the Interconnection to coordinate and direct the operation of the PJM Region and to administer the PJM Interchange Energy Market, including facilities and equipment used to communicate and coordinate with the Market Participants in connection with transactions in the PJM Interchange Energy Market or the operation of the PJM Region.

On-Site Generators:

"On-Site Generators" shall mean generation facilities (including Behind The Meter Generation) that (i) are not Capacity Resources, (ii) are not injecting into the grid, (iii) are either synchronized or non-synchronized to the Transmission System, and (iv) can be used to reduce demand for the purpose of participating in the PJM Interchange Energy Market.

Open Access Same-Time Information System (OASIS):

*"Open Access Same-Time Information System" or "OASIS" shall mean t*he information system and standards of conduct contained in Part 37 and Part 38 of the Commission's regulations and all additional requirements implemented by subsequent Commission orders dealing with OASIS.

Operating Agreement of the PJM Interconnection, L.L.C. or Operating Agreement:

*"Operating Agreement of the PJM Interconnection, L.L.C." or "Operating Agreement" shall mean t*hat agreement dated as of April 1, 1997 and as amended and restated as of June 2, 1997, including all Schedules, Exhibits, Appendices, addenda or supplements hereto, as amended from time to time thereafter, among the Members of the PJM Interconnection, L.L.C.

Operating Day:

"Operating Day" shall mean the daily 24 hour period beginning at midnight for which transactions on the PJM Interchange Energy Market are scheduled.

Operating Margin:

"Operating Margin" shall mean the incremental adjustments, measured in megawatts, required in PJM Region operations in order to accommodate, on a first contingency basis, an operating contingency in the PJM Region resulting from operations in an interconnected Control Area. Such adjustments may result in constraints causing Transmission Congestion Charges, or may result in Ancillary Services charges pursuant to the PJM Tariff.

Operating Margin Customer:

"Operating Margin Customer" shall mean a Control Area purchasing Operating Margin pursuant to an agreement between such other Control Area and the LLC.

Opportunity Cost:

"Opportunity Cost" shall mean a component of the Market Seller Offer Cap calculated in accordance with *Tariff, Attachment DD,* section 6.

OPSI Advisory Committee:

"OPSI Advisory Committee" *shall* mean the committee established under *Tariff, Attachment M,* section III.G.

Option to Build:

*"Option to Build" shall mean t*he option of the New Service Customer to build certain Customer-Funded Upgrades, as set forth in, and subject to the terms of, the Construction Service Agreement.

Optional Interconnection Study:

"Optional Interconnection Study" shall mean a sensitivity analysis of an Interconnection Request based on assumptions specified by the Interconnection Customer in the Optional Interconnection Study Agreement.

Optional Interconnection Study Agreement:

*"Optional Interconnection Study Agreement" shall mean t*he form of agreement for preparation of an Optional Interconnection Study, as set forth in Attachment N-3 of the Tariff.

Part I:

"Part I" shall mean the Tariff Definitions and Common Service Provisions contained in *s*ections *1* through 12*A*.

Part II:

"Part II" shall mean the Tariff *s*ections 13 through 27*A* pertaining to Point-To-Point Transmission Service in conjunction with the applicable Common Service Provisions *of Tariff,* Part I and appropriate Schedules and Attachments.

Part III:

"Part III" shall mean the Tariff, *s*ections 28 through 35 pertaining to Network Integration Transmission Service in conjunction with the applicable Common Service Provisions of *Tariff,* Part I and appropriate Schedules and Attachments.

Part IV:

"Part IV" shall mean the Tariff, *s*ections 36 through 112*C* pertaining to generation or merchant transmission interconnection to the Transmission System in conjunction with the applicable Common Service Provisions of *Tariff,* Part I and appropriate Schedules and Attachments.

Part V:

"Part V" shall mean the Tariff, *s*ections 113 through 122 pertaining to the deactivation of generating units in conjunction with the applicable Common Service Provisions of *Tariff,* Part I and appropriate Schedules and Attachments.

Part VI:

"Part VI" shall mean the Tariff, *s*ections 200 through 237 pertaining to the queuing, study, and agreements relating to New Service Requests, and the rights associated with Customer-Funded Upgrades in conjunction with the applicable Common Service Provisions of *Tariff,* Part I and appropriate Schedules and Attachments.

Participant:

*"*Participant*" shall mean* a Market Participant and/or Transmission Customer and/or Applicant requesting to be an active Market Participant and/or Transmission Customer**.**

Parties:

*"Parties" shall mean t*he Transmission Provider, as administrator of the Tariff, and the Transmission Customer receiving service under the Tariff. PJMSettlement shall be the Counterparty to Transmission Customers.

Peak-Hour Dispatch:

"Peak-Hour Dispatch" shall mean, for purposes of calculating the Energy and Ancillary Services Revenue Offset under *Tariff, Attachment DD,* section 5, an assumption, as more fully set forth in the PJM Manuals, that the Reference Resource is committed in the Day-Ahead Energy Market in four distinct blocks of four hours of continuous output for each block from the peak-hour period beginning with the hour ending 0800 EPT through to the hour ending 2300 EPT for any day when the average day-ahead LMP for the area for which the Net Cost of New Entry is being determined is greater than, or equal to, the cost to generate (including the cost for a complete start and shutdown cycle) for at least two hours during each four-hour block, where such blocks shall be assumed to be committed independently; provided that, if there are not at least two economic hours in any given four-hour block, then the Reference Resource shall be assumed not to be committed for such block; and to the extent not committed in any such block in the Day-Ahead Energy Market under the above conditions based on Day-Ahead LMPs, is dispatched in the Real-Time Energy Market for such block if the Real-Time LMP is greater than or equal to the cost to generate under the same conditions as described above for the Day-Ahead Energy Market.

Peak Market Activity:
*"*Peak Market Activity*" shall mean* a measure of exposure for which credit is required, involving peak exposures in rolling three-week periods over a year timeframe, with two semi-annual reset points, pursuant to provisions of *Tariff, Attachment Q,* section II.D.

Peak Season:

"Peak Season" shall mean the weeks containing the 24th through 36th Wednesdays of the calendar year. Each such week shall begin on a Monday and end on the following Sunday, except for the week containing the 36th Wednesday, which shall end on the following Friday.

Percentage Internal Resources Required:

"Percentage Internal Resources Required" shall have the meaning specified in the Reliability Assurance Agreement.

Performance Assessment Hour:

"Performance Assessment Hour" shall mean each whole or partial clock-hour for which an Emergency Action has been declared by the Office of the Interconnection, provided, however, that Performance Assessment Hours for a Base Capacity Resource shall not include any hours outside the calendar months of June through September.

PJM:

"PJM" shall mean PJM Interconnection, L.L.C., including the Office of the Interconnection as referenced in the PJM Operating Agreement.

PJM Administrative Service:

*"PJM Administrative Service" shall mean t*he services provided by PJM pursuant to *Tariff*, Schedule 9.

PJM Board:

"PJM Board" shall mean the Board of Managers of the LLC, except when such term is being used in Attachment M of the Tariff, in which case PJM Board shall mean the Board of Managers of PJM or its designated representative, exclusive of any members of PJM Management.

PJM Control Area:

*"PJM Control Area" shall mean t*he Control Area that is recognized by NERC as the PJM Control Area.

PJM Entities:

"PJM Entities" *shall* mean PJM, including the Market Monitoring Unit, the PJM Board, and PJM's officers, employees, representatives, advisors, contractors, and consultants.

PJM Interchange:

"PJM Interchange" shall mean the following, as determined in accordance with the Schedules to *the Tariff*: (a) for a Market Participant that is a Network Service User, the amount by which its hourly Equivalent Load exceeds, or is exceeded by, the sum of the hourly outputs of its operating generating resources; or (b) for a Market Participant that is not a Network Service User, the amount of its Spot Market Backup; or (c) the hourly scheduled deliveries of Spot Market Energy by a Market Seller from an External Resource; or (d) the hourly net metered output of any other Market Seller; or (e) the hourly scheduled deliveries of Spot Market Energy to an External Market Buyer; or (f) the hourly scheduled deliveries to an Internal Market Buyer that is not a Network Service User.

PJM Interchange Energy Market:

*"PJM Interchange Energy Market" shall mean t*he regional competitive market administered by the Transmission Provider for the purchase and sale of spot electric energy at wholesale interstate commerce and related services, as more fully set forth in *Operating Agreement, Schedule 1, and the parallel provisions of Tariff,* Attachment K – Appendix.

PJM Interchange Export:

"PJM Interchange Export" shall mean the following, as determined in accordance with the Schedules to *the Tariff*: (a) for a Market Participant that is a Network Service User, the amount by which its hourly Equivalent Load is exceeded by the sum of the hourly outputs of its operating generating resources; or (b) for a Market Participant that is not a Network Service User, the amount of its Spot Market Backup sales; or (c) the hourly scheduled deliveries of Spot Market Energy by a Market Seller from an External Resource; or (d) the hourly net metered output of any other Market Seller.

PJM Interchange Import:

"PJM Interchange Import" shall mean the following, as determined in accordance with the Schedules to *the Tariff*: (a) for a Market Participant that is a Network Service User, the amount by which its hourly Equivalent Load exceeds the sum of the hourly outputs of its operating generating resources; or (b) for a Market Participant that is not a Network Service User, the amount of its Spot Market Backup purchases; or (c) the hourly scheduled deliveries of Spot Market Energy to an External Market Buyer; or (d) the hourly scheduled deliveries to an Internal Market Buyer that is not a Network Service User.

PJM Liaison:

"PJM Liaison" *shall* mean the liaison established under *Tariff, Attachment M,* section III.I.

PJM Management:

"PJM Management" *shall* mean the officers, executives, supervisors and employee managers of PJM.

PJM Manuals:

*"PJM Manuals" shall mean t*he instructions, rules, procedures and guidelines established by the Office of the Interconnection for the operation, planning, and accounting requirements of the PJM Region and the PJM Interchange Energy Market.

PJM Markets:

"PJM Markets" *shall* mean the PJM Interchange Energy and capacity markets, including the RPM auctions, together with all bilateral or other wholesale electric power and energy transactions, capacity transactions, ancillary services transactions (including black start service), transmission transactions and any other market operated under the PJM Tariff or Operating

Agreement within the PJM Region, wherein Participants may incur Obligations to PJMSettlement.

PJM Market Rules:

"PJM Market Rules" *shall* mean the rules, standards, procedures, and practices of the PJM Markets set forth in the PJM Tariff, the PJM Operating Agreement, the PJM Reliability Assurance Agreement, the PJM Consolidated Transmission Owners Agreement, the PJM Manuals, the PJM Regional Practices Document, the PJM-Midwest Independent Transmission System Operator Joint Operating Agreement or any other document setting forth market rules.

PJM Net Assets:

"PJM Net Assets**"** shall mean the total assets per PJM's consolidated quarterly or year-end financial statements most recently issued as of the date of the receipt of written notice of a claim less amounts for which PJM is acting as a temporary custodian on behalf of its Members, transmission developers/Designated Entities, and generation developers, including, but not limited to, cash deposits related to credit requirement compliance, study and/or interconnection receivables, member prepayments, invoiced amounts collected from Net Buyers but have not yet been paid to Net Sellers, and excess congestion (as described in *Operating Agreement, Schedule 1,* section 5.2.6, *and the parallel provisions of Tariff, Attachment K-Appendix*).

PJM Open Access Transmission Tariff ("O.A.T.T."):

*"PJM Open Access Transmission Tariff" or "O.A.T.T" shall mean t*he Open Access Transmission Tariff of PJM Interconnection, L.L.C., on file with the Federal Energy Regulatory Commission, and as revised from time to time.

PJM Open Access Same-time Information System:

"PJM Open Access Same-time Information System" shall mean the electronic communication system for the collection and dissemination of information about transmission services in the PJM Region, established and operated by the Office of the Interconnection in accordance with FERC standards and requirements.

PJM Operating Agreement:

"PJM Operating Agreement" *shall* mean the Amended and Restated Operating Agreement of PJM on file with the Commission.

PJM Region:

*"PJM Region" s*hall have the meaning specified in the Operating Agreement.

PJM Regional Practices Document:

"PJM Regional Practices Document" *shall* mean the document of that title that compiles and describes the practices in the PJM Markets and that is made available in hard copy and on the Internet.

PJM Region Installed Reserve Margin:

"PJM Region Installed Reserve Margin" shall have the meaning specified in the Operating Agreement.

PJM Region Peak Load Forecast:

"PJM Region Peak Load Forecast" shall mean the peak load forecast used by the Office of the Interconnection in determining the PJM Region Reliability Requirement, and shall be determined on both a preliminary and final basis as set forth in *Tariff, Attachment DD,* section 5.

PJM Region Reliability Requirement:

"PJM Region Reliability Requirement" shall mean, for purposes of the Base Residual Auction, the Forecast Pool Requirement multiplied by the Preliminary PJM Region Peak Load Forecast, less the sum of all Preliminary Unforced Capacity Obligations of FRR Entities in the PJM Region; and, for purposes of the Incremental Auctions, the Forecast Pool Requirement multiplied by the updated PJM Region Peak Load Forecast, less the sum of all updated Unforced Capacity Obligations of FRR Entities in the PJM Region.

PJM Reliability Assurance Agreement:

"PJM Reliability Assurance Agreement" *shall* mean the Reliability Assurance Agreement among Load Serving Entities in the PJM Region on file with the Commission.

PJMSettlement:

"PJM Settlement" or "PJM Settlement, Inc." shall mean PJM Settlement, Inc. (or its successor), established by PJM as set forth in Section 3.3 of the Operating Agreement.

PJM Tariff:

"PJM Tariff" or "Tariff shall mean that certain "PJM Open Access Transmission Tariff", including any schedules, appendices or exhibits attached thereto, on file with FERC and as amended from time to time thereafter.

PJM Transmission Owners Agreement:

"PJM Transmission Owners Agreement" *shall* mean the PJM Consolidated Transmission Owners Agreement on file with the Commission.

Plan:

"Plan" *shall* mean the PJM market monitoring plan set forth in *Tariff,* Attachment M.

Planned Demand Resource:

"Planned Demand Resource" shall have the meaning specified in the Reliability Assurance Agreement.

Planned External Financed Generation Capacity Resource:

*"*Planned External Financed Generation Capacity Resource*"* shall mean a Planned External Generation Capacity Resource that, prior to August 7, 2015, has an effective agreement that is the equivalent of an Interconnection Service Agreement, has submitted to the Office of the Interconnection the appropriate certification attesting achievement of Financial Close, and has secured at least 50 percent of the MWs of firm transmission service required to qualify such resource under the deliverability requirements of the Reliability Assurance Agreement.

Planned External Generation Capacity Resource:

"Planned External Generation Capacity Resource" shall have the meaning specified in the Reliability Assurance Agreement.

Planned Financed Generation Capacity Resource:

*"*Planned Financed Generation Capacity Resource*"* shall mean a Planned Generation Capacity Resource that, prior to August 7, 2015, has an effective Interconnection Service Agreement and has submitted to the Office of the Interconnection the appropriate certification attesting achievement of Financial Close.

Planned Generation Capacity Resource:

"Planned Generation Capacity Resource" shall have the meaning specified in the Reliability Assurance Agreement.

Planning Period:

"Planning Period" shall have the meaning specified in the Reliability Assurance Agreement.

Planning Period Balance:

"Planning Period Balance" shall mean the entire period of time remaining in the Planning Period following the month that a monthly auction is conducted.

Planning Period Quarter:

"Planning Period Quarter" shall mean any of the following three month periods in the Planning Period: June, July and August; September, October and November; December, January and February; or March, April and May.

Point(s) of Delivery:

*"Point(s) of Delivery" shall mean the p*oint(s) on the Transmission Provider's Transmission System where capacity and energy transmitted by the Transmission Provider will be made available to the Receiving Party under *Tariff,* Part II. The Point(s) of Delivery shall be specified in the Service Agreement for Long-Term Firm Point-To-Point Transmission Service.

Point of Interconnection:

*"Point of Interconnection" shall mean t*he point or points, shown in the appropriate appendix to the Interconnection Service Agreement and the Interconnection Construction Service Agreement, where the Customer Interconnection Facilities interconnect with the Transmission Owner Interconnection Facilities or the Transmission System.

Point(s) of Receipt:

*"Point(s) of Receipt" shall mean p*oint(s) of interconnection on the Transmission Provider's Transmission System where capacity and energy will be made available to the Transmission Provider by the Delivering Party under *Tariff,* Part II. The Point(s) of Receipt shall be specified in the Service Agreement for Long-Term Firm Point-To-Point Transmission Service.

Point-To-Point Transmission Service:

*"Point-To-Point Transmission Service shall mean t*he reservation and transmission of capacity and energy on either a firm or non-firm basis from the Point(s) of Receipt to the Point(s) of Delivery under *Tariff,* Part II.

Power Purchaser:

*"Power Purchaser" shall mean t*he entity that is purchasing the capacity and energy to be transmitted under the Tariff.

PRD Curve*:*

*"*PRD Curve*"* shall have the meaning provided in the Reliability Assurance Agreement.

PRD Provider*:*

*"*PRD Provider*"* shall have the meaning provided in the Reliability Assurance Agreement.

PRD Reservation Price*:*

*"*PRD Reservation*"* Price shall have the meaning provided in the Reliability Assurance Agreement.

PRD Substation:

*"*PRD Substation*"* shall have the meaning provided in the Reliability Assurance Agreement.

Pre-Confirmed Application:

*"Pre-Confirmed Application" shall be a*n Application that commits the Eligible Customer to execute a Service Agreement upon receipt of notification that the Transmission Provider can provide the requested Transmission Service.

Pre-Emergency Load Response Program:

*"*Pre-Emergency Load Response Program*" shall be* the program by which Curtailment Service Providers may be compensated by PJM for Demand Resources that will reduce load when dispatched by PJM during pre-emergency conditions, and is described in Section 8 of Schedule 1 of the Operating Agreement and the parallel provisions of Section 8 of Attachment K-Appendix of the Tariff.

Pre-Expansion PJM Zones:

*"Pre-Expansion PJM Zones" shall be z*ones included in th*e* Tariff, along with applicable Schedules and Attachments, for certain Transmission Owners – Atlantic City Electric Company, Baltimore Gas and Electric Company, Delmarva Power and Light Company, Jersey Central Power and Light Company, Mid-Atlantic Interstate Transmission, LLC ("MAIT") (MAIT owns and operates the transmission facilities in the Metropolitan Edison Company Zone and the Pennsylvania Electric Company Zone), PECO Energy Company, Pennsylvania Power & Light Group, Potomac Electric Power Company, Public Service Electric and Gas Company, Allegheny Power, and Rockland Electric Company.

Price Responsive Demand*:*

*"*Price Responsive Demand*"* shall have the meaning provided in the Reliability Assurance Agreement.

Primary Reserve:

"Primary Reserve" shall mean the total reserve capability of generation resources that can be converted fully into energy or Demand Resources whose demand can be reduced within ten minutes of a request from the Office of the Interconnection dispatcher, and is comprised of both Synchronized Reserve and Non-Synchronized Reserve.

Primary Reserve Requirement:

"Primary Reserve Requirement" shall mean the megawatts required to be maintained in a Reserve Zone or Reserve Sub-zone as Primary Reserve, absent any increase to account for additional reserves scheduled to address operational uncertainty. The Primary Reserve Requirement is calculated in accordance with the PJM Manuals.

Project Financing:

*"Project Financing" s*hall mean: (a) one or more loans, leases, equity and/or debt financings, together with all modifications, renewals, supplements, substitutions and replacements thereof, the proceeds of which are used to finance or refinance the costs of the Customer Facility, any alteration, expansion or improvement to the Customer Facility, the purchase and sale of the Customer Facility or the operation of the Customer Facility; (b) a power purchase agreement pursuant to which Interconnection Customer's obligations are secured by a mortgage or other lien on the Customer Facility; or (c) loans and/or debt issues secured by the Customer Facility.

Project Finance Entity:

*"Project Finance Entity" s*hall mean: (a) a holder, trustee or agent for holders, of any component of Project Financing; or (b) any purchaser of capacity and/or energy produced by the Customer Facility to which Interconnection Customer has granted a mortgage or other lien as security for some or all of Interconnection Customer's obligations under the corresponding power purchase agreement.

Projected PJM Market Revenues:

"Projected PJM Market Revenues" shall mean a component of the Market Seller Offer Cap calculated in accordance with *Tariff, Attachment DD,* section 6.

Proportional Multi-Driver Project:

"Proportional Multi-Driver Project" shall have the same meaning provided in the Operating Agreement.

Pseudo-Tie:

"Pseudo-Tie" shall have the same meaning provided in the Operating Agreement.

Public Policy Objectives:

"Public Policy Objectives" shall have the same meaning provided in the Operating Agreement.

Public Policy Requirements:

"Public Policy Requirements" shall have the same meaning provided in the Operating Agreement.

Qualifying Transmission Upgrade:

"Qualifying Transmission Upgrade" shall mean a proposed enhancement or addition to the Transmission System that: (a) will increase the Capacity Emergency Transfer Limit into an LDA by a megawatt quantity certified by the Office of the Interconnection; (b) the Office of the Interconnection has determined will be in service on or before the commencement of the first Delivery Year for which such upgrade is the subject of a Sell Offer in the Base Residual Auction; (c) is the subject of a Facilities Study Agreement executed before the conduct of the Base Residual Auction for such Delivery Year and (d) a New Service Customer is obligated to fund through a rate or charge specific to such facility or upgrade.

Queue Position:

*"Queue Position" shall mean t*he priority assigned to an Interconnection Request, a Completed Application, or an Upgrade Request pursuant to applicable provisions of *Tariff*, Part VI.

SCHEDULE 1A
Transmission Owner Scheduling, System Control and Dispatch Service

Scheduling, System Control and Dispatch Service is provided directly by the Transmission Provider under Schedule 1. The Transmission Customer must purchase this service from the Transmission Provider. Certain control center facilities of the Transmission Owners also are required to provide this service. This Schedule 1A sets forth the charges for Scheduling, System Control and Dispatch Service based on the cost of operating the control centers of the Transmission Owners. The Transmission Provider shall administer the provision of Transmission Owner Scheduling, System Control and Dispatch Service. PJMSettlement shall be the Counterparty to the purchases of Transmission Owner Scheduling, System Control and Dispatch Service.

The charges for operation of the control centers of the Transmission Owners shall be determined by multiplying the applicable rate as follows times the Transmission Customer's use of the Transmission System (including losses) on a megawatt hour basis:

(A) For a Transmission Customer serving Zone Load in:

Zone	**Rate ($/MWh)**
Atlantic City Electric Company	0.0781
Baltimore Gas and Electric Company	0.0430
Delmarva Power & Light Company	0.0743
PECO Energy Company	0.1189
PP&L, Inc. Group	0.0618
Potomac Electric Power Company	0.0186
Public Service Electric and Gas Company	0.1030
Jersey Central Power & Light Company	Rate updated annually Per Attachment H-4
Metropolitan Edison Company	Rate updated annually Per Attachment H-28
Pennsylvania Electric Company	Rate updated annually Per Attachment H-28
Rockland Electric Company	0.2475
Commonwealth Edison Company	0.2223
AEP East Operating Companies	Rate updated annually Per Attachment H-14
The Dayton Power and Light Company[1]	0.0797
Duquesne Light Company	0.0520
American Transmission Systems, Incorporated ("ATSI")	Rate updated annually Per Attachment H-21

[1] Charges for service under this schedule to customers of The Dayton Power and Light Company that are subject to the provisions of the October 14, 2003 Stipulation and Agreement of Settlement approved in FERC Docket No. EL03-56-000 shall be governed by such settlement.

Duke Energy Ohio, Inc., and	Rate updated annually
Duke Energy Kentucky, Inc. (“DEOK”)	Per Attachment H-22
East Kentucky Power Cooperative, Inc. (“EKPC”)	Per Attachment H-24

(B) For a Transmission Customer serving Non-Zone Load (a Network Customer serving Non-Zone Network Load or a Transmission Customer taking Point-to-Point service where the Point of Delivery is at the boundary of the PJM Region):

$.0912//MWh

Each month, PJMSettlement shall pay to each Transmission Owner an amount equal to the charges billed for that Transmission Owner’s zone pursuant to (A) above, plus that Transmission Owner’s share as stated below of the charges billed to Transmission Customers serving Non-Zone Network Load pursuant to (B) above:

Transmission Owner	**Share (%)**
Atlantic City Electric Company	1.41
Baltimore Gas and Electric Company	2.28
Delmarva Power & Light Company	2.17
PECO Energy Company	7.57
PP&L, Inc. Group	3.88
Potomac Electric Power Company	0.92
Public Service Electric and Gas Company	7.55
Jersey Central Power & Light Company	3.71
Mid-Atlantic Interstate Transmission, LLC	3.12
Rockland Electric Company	0.57
Commonwealth Edison Company	41.42
AEP East Operating Companies	14.56
The Dayton Power and Light Company	2.41
Duquesne Light Company	1.20
American Transmission Systems, Incorporated (“ATSI”)	3.05
Duke Energy Ohio, Inc., and Duke Energy Kentucky, Inc. (“DEOK”)	4.17[2]
East Kentucky Power Cooperative, Inc. (“EKPC”)	0.0

[2] Any change to this share must be made as a tariff filing under Section 205 of the Federal Power Act.

SCHEDULE 12 – APPENDIX

(5) Mid-Atlantic Interstate Transmission, LLC for the Metropolitan Edison Company Zone

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0215	Install 230Kv series reactor and 2- 100MVAR PLC switched capacitors at Hunterstown		AEC (6.68%) / APS (3.95%) / ConEd (0.42%) / DPL (9.06%) / JCPL (16.78%) / ME (10.49%) / Neptune* (1.68%) / PECO (18.92%) / PPL (7.52%) / PSEG (22.57%) / RE (0.34%) / UGI (0.95%) / ECP** (0.64%)
b0404.1	Replace South Reading 230 kV breaker 107252		ME (100%)
b0404.2	Replace South Reading 230 kV breaker 100652		ME (100%)
b0575.1	Rebuild Hunterstown – Texas Eastern Tap 115 kV		ME (100%)
b0575.2	Rebuild Texas Eastern Tap – Gardners 115 kV and associated upgrades at Gardners including disconnect switches		ME (100%)
b0650	Reconductor Jackson – JE Baker – Taxville 115 kV line		ME (100%)
b0652	Install bus tie circuit breaker on Yorkana 115 kV bus and expand the Yorkana 230 kV ring bus by one breaker so that the Yorkana 230/115 kV banks 1, 3, and 4 cannot be lost for either B-14 breaker fault or a 230 kV line or bank fault with a stuck breaker		ME (100%)

* Neptune Regional Transmission System, LLC

** East Coast Power, L.L.C.

(5) Mid-Atlantic Interstate Transmission, LLC for the Metropolitan Edison Company Zone

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0653	Construct a 230 kV Bernville station by tapping the North Temple – North Lebanon 230 kV line. Install a 230/69 kV transformer at existing Bernville 69 kV station		ME (100%)
b1000	Replace Portland 115kV breaker '95312'		ME (100%)
b1001	Replace Portland 115kV breaker '92712'		ME (100%)
b1002	Replace Hunterstown 115 kV breaker '96392'		ME (100%)
b1003	Replace Hunterstown 115 kV breaker '96292'		ME (100%)
b1004	Replace Hunterstown 115 kV breaker '99192'		ME (100%)
b1061	Replace existing Yorkana 230/115 kV transformer banks 1 and 4 with a single, larger transformer similar to transformer bank #3		ME (100%)
b1061.1	Replace the Yorkana 115 kV breaker '97282'		ME (100%)
b1061.2	Replace the Yorkana 115 kV breaker 'B282'		ME (100%)
b1302	Replace the limiting bus conductor and wave trap at the Jackson 115 kV terminal of the Jackson – JE Baker Tap 115 kV line		ME (100%)
b1365	Reconductor the Middletown – Collins 115 kV (975) line 0.32 miles of 336 ACSR		ME (100%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.

(5) Mid-Atlantic Interstate Transmission, LLC for the Metropolitan Edison Company Zone

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1366	Reconductor the Collins – Cly – Newberry 115 kV (975) line 5 miles with 795 ACSR		ME (100%)
b1727	Reconductor 2.4 miles of existing 556 and 795 ACSR from Harley Davidson to Pleasureville 115 kV with 795 ACSS to raise the ratings		ME (100%)
b1800	Install a 500 MVAR SVC at the existing Hunterstown 500kV substation		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b1801	Build a 250 MVAR SVC at Altoona 230 kV		AEC (6.45%) / AEP (2.57%) / APS (6.86%) / BGE (6.55%) / ConEd (0.29%) / DPL (12.35%) / Dominion (14.85%) / JCPL (8.12%) / ME (6.19%) / Neptune* (0.82%) / PECO (21.50%) / PPL (4.87%) / PSEG (8.16%) / RE (0.33%) / ECP** (0.09%)

(5) Mid-Atlantic Interstate Transmission, LLC for the Metropolitan Edison Company Zone

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1816.5	Replace SCCIR (Sub-conductor) at Hunterstown Substation on the No. 1, 230/115 kV transformer		ME (100%)
b1999	Replace limiting wave trap, circuit breaker, substation conductor, relay and current transformer components at Northwood		ME (100%)
b2000	Replace limiting wave trap on the Glendon - Hosensack line		ME (100%)
b2001	Replace limiting circuit breaker and substation conductor transformer components at Portland 230kV		ME (100%)
b2002	Northwood 230/115 kV Transformer upgrade		ME (100%)
b2023	Construct a new North Temple - Riverview - Cartech 69 kV line (4.7 miles) with 795 ACSR		ME (100%)
b2024	Upgrade 4/0 substation conductors at Middletown 69 kV		ME (100%)
b2025	Upgrade 4/0 and 350 Cu substation conductors at the Middletown Junction terminal of the Middletown Junction - Wood Street Tap 69 kV line		ME (100%)
b2026	Upgrade an OC protection relay at the Baldy 69 kV substation		ME (100%)
b2148	Install a 115 kV 28.8 MVAR capacitor at Pleasureville substation		ME (100%)

(5) Mid-Atlantic Interstate Transmission, LLC for the Metropolitan Edison Company Zone

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b2149	Upgrade substation riser on the Smith St. - York Inc. 115 kV line		ME (100%)
b2150	Upgrade York Haven structure 115 kV bus conductor on Middletown Jct. - Zions View 115 kV		ME (100%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.

SCHEDULE 12 – APPENDIX

(7) Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0284.1	Build 500 kV substation in PENELEC – Tap the Keystone – Juniata and Conemaugh – Juniata 500 kV, connect the circuits with a breaker and half scheme, and install new 400 MVAR capacitor		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b0284.3	Replace wave trap and upgrade a bus section at Keystone 500 kV – on the Keystone – Airydale 500 kV		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)

* Neptune Regional Transmission System, LLC

** East Coast Power, L.L.C.

***Hudson Transmission Partners, LLC

Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0285.1	Replace wave trap at Keystone 500 kV – on the Keystone – Conemaugh 500 kV		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b0285.2	Replace wave trap and relay at Conemaugh 500 kV – on the Conemaugh – Keystone 500 kV		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.
***Hudson Transmission Partners, LLC

Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0349	Upgrade Rolling Meadows-Gore Jct 115 kV		PENELEC (100%)
b0360	Construction of a ring bus on the 345 kV side of Wayne substation		PENELEC (100%)
b0365	Add a 50 MVAR, 230 kV cap bank at Altoona 230 kV		PENELEC (100%)
b0369	Install 100 MVAR Dynamic Reactive Device at Airydale 500 kV substation		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b0370	Install 500 MVAR Dynamic Reactive Device at Airydale 500 kV substation		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.
***Hudson Transmission Partners, LLC

Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0376	Install 300 MVAR capacitor at Conemaugh 500 kV substation		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b0442	Spare Keystone 500/230 kV transformer		PENELEC (100%)
b0515	Replace Lewistown circuit breaker 1LY Yeagertown		PENELEC (100%)
b0516	Replace Lewistown circuit breaker 2LY Yeagertown		PENELEC (100%)
b0517	Replace Shawville bus section circuit breaker		PENELEC (100%)
b0518	Replace Homer City circuit breaker 201 Johnstown		PENELEC (100%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.
***Hudson Transmission Partners, LLC

Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0519	Replace Keystone circuit breaker 4 Transformer - 20		PENELEC (100%)
b0549	Install 250 MVAR capacitor at Keystone 500 kV		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b0550	Install 25 MVAR capacitor at Lewis Run 115 kV substation		AEC (8.58%) / APS (1.69%) / DPL (12.24%) / JCPL (18.16%) / ME (1.55%) / Neptune* (1.77%) / PECO (21.78%) / PPL (6.40%) / ECP** (0.73%) / PSEG (26.13%) / RE (0.97%)
b0551	Install 25 MVAR capacitor at Saxton 115 kV substation		AEC (8.58%) / APS (1.69%) / DPL (12.24%) / JCPL (18.16%) / ME (1.55%) / Neptune* (1.77%) / PECO (21.78%) / PPL (6.40%) / ECP** (0.73%) / PSEG (26.13%) / RE (0.97%)
b0552	Install 50 MVAR capacitor at Altoona 230 kV substation		AEC (8.58%) / APS (1.69%) / DPL (12.24%) / JCPL (18.16%) / ME (1.55%) / Neptune* (1.77%) / PECO (21.78%) / PPL (6.40%) / ECP** (0.73%) / PSEG (26.13%) / RE (0.97%)
b0553	Install 50 MVAR capacitor at Raystown 230 kV substation		AEC (8.58%) / APS (1.69%) / DPL (12.24%) / JCPL (18.16%) / ME (1.55%) / Neptune* (1.77%) / PECO (21.78%) / PPL (6.40%) / ECP** (0.73%) / PSEG (26.13%) / RE (0.97%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.
***Hudson Transmission Partners, LLC

Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0555	Install 100 MVAR capacitor at Johnstown 230 kV substation		AEC (8.58%) / APS (1.69%) / DPL (12.24%) / JCPL (18.16%) / ME (1.55%) / Neptune* (1.77%) / PECO (21.78%) / PPL (6.40%) / ECP** (0.73%) / PSEG (26.13%) / RE (0.97%)
b0556	Install 50 MVAR capacitor at Grover 230 kV substation		AEC (8.58%) / APS (1.69%) / DPL (12.24%) / JCPL (18.16%) / ME (1.55%) / Neptune* (1.77%) / PECO (21.78%) / PPL (6.40%) / ECP** (0.73%) / PSEG (26.13%) / RE (0.97%)
b0557	Install 75 MVAR capacitor at East Towanda 230 kV substation		AEC (8.58%) / APS (1.69%) / DPL (12.24%) / JCPL (18.16%) / ME (1.55%) / Neptune* (1.77%) / PECO (21.78%) / PPL (6.40%) / ECP** (0.73%) / PSEG (26.13%) / RE (0.97%)
b0563	Install 25 MVAR capacitor at Farmers Valley 115 kV substation		PENELEC (100%)
b0564	Install 10 MVAR capacitor at Ridgeway 115 kV substation		PENELEC (100%)
b0654	Reconfigure the Cambria Slope 115 kV and Wilmore Junction 115 kV stations to eliminate Wilmore Junction 115 kV 3-terminal line		PENELEC (100%)
b0655	Reconfigure and expand the Glade 230 kV ring bus to eliminate the Glade Tap 230 kV 3-terminal line		PENELEC (100%)
b0656	Add three breakers to form a ring bus at Altoona 230 kV		PENELEC (100%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.

Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0794	Upgrade the Homer City 230 kV breaker 'Pierce Road'		PENELEC (100%)
b1005	Replace Glory 115 kV breaker '#7 XFMR'		PENELEC (100%)
b1006	Replace Shawville 115 kV breaker 'NO.14 XFMR'		PENELEC (100%)
b1007	Replace Shawville 115 kV breaker 'NO.15 XFMR'		PENELEC (100%)
b1008	Replace Shawville 115 kV breaker '#1B XFMR'		PENELEC (100%)
b1009	Replace Shawville 115 kV breaker '#2B XFMR'		PENELEC (100%)
b1010	Replace Shawville 115 kV breaker 'Dubois'		PENELEC (100%)
b1011	Replace Shawville 115 kV breaker 'Philipsburg'		PENELEC (100%)
b1012	Replace Shawville 115 kV breaker 'Garman'		PENELEC (100%)
b1059	Replace a CRS relay at Hooversville 115 kV station		PENELEC (100%)
b1060	Replace a CRS relay at Rachel Hill 115 kV station		PENELEC (100%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.

Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1153	Upgrade Conemaugh 500/230 kV transformer and add a new line from Conemaugh-Seward 230 kV		AEC (3.72%) / APS (6.23%) / BGE (16.75%) / ConEd (0.39%) / DL (0.32%) / JCPL (12.52%) / ME (6.87%) / PECO (11.49%) / PEPCO (0.55%) / PPL (15.36%) / PSEG (20.44%) / RE (0.71%) / NEPTUNE* (1.70%) / ECP** (2.95%)
b1153.1	Revise the reclosing on the Shelocta 115 kV breaker 'Lucerne'		PENELEC (100%)
b1169	Replace Shawville 115 kV breaker '#1A XFMR'		PENELEC (100%)
b1170	Replace Shawville 115 kV breaker '#2A XFMR'		PENELEC (100%)
b1277	Build a new Osterburg East – Bedford North 115 kV Line, 5.7 miles of 795 ACSR		PENELEC (100%)
b1278	Install 25 MVAR Capacitor Bank at Somerset 115 kV		PENELEC (100%)
b1367	Replace the Cambria Slope 115/46 kV 50 MVA transformer with 75 MVA		PENELEC (100%)
b1368	Replace the Claysburg 115/46 kV 30 MVA transformer with 75 MVA		PENELEC (100%)
b1369	Replace the 4/0 CU substation conductor with 795 ACSR on the Westfall S21 Tap 46 kV line		PENELEC (100%)
b1370	Install a 3rd 115/46 kV transformer at Westfall		PENELEC (100%)
b1371	Reconductor 2.6 miels of the Claysburg – HCR 46 kV line with 636 ACSR		PENELEC (100%)

Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1372	Replace 4/0 CU substation conductor with 795 ACSR on the Hollidaysburg – HCR 46 kV		PENELEC (100%)
b1373	Re-configure the Erie West 345 kV substation, add a new circuit breaker and relocate the Ashtabula line exit		PENELEC (100%)
b1374	Replace wave traps at Raritan River and Deep Run 115 kV substations with higher rated equipment for both B2 and C3 circuits		PENELEC (100%)
b1535	Reconductor 0.8 miles of the Gore Junction – ESG Tap 115 kV line with 795 ACSS		PENELEC (100%)
b1607	Reconductor the New Baltimore - Bedford North 115 kV		PENELEC (100%)
b1608	Construct a new 345/115 kV substation and loop the Mansfield - Everts 115 kV		APS (8.57%) / ConEd (0.47%) / PECO (1.71%) / PENELEC (89.25%)
b1609	Construct Four Mile Junction 230/115 kV substation. Loop the Erie South - Erie East 230 kV line, Buffalo Road - Corry East and Buffalo Road - Erie South 115 kV lines		APS (4.86%) / PENELEC (95.14%)
b1610	Install a new 230 kV breaker at Yeagertown		PENELEC (100%)
b1713	Install a 345 kV breaker at Erie West and relocate Ashtabula 345 kV line		PENELEC (100%)
b1769	Install a 75 MVAR cap bank on the Four Mile 230 kV bus		PENELEC (100%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.

Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1770	Install a 50 MVAR cap bank on the Buffalo Road 115 kV bus		PENELEC (100%)
b1802	Build a 100 MVAR Fast Switched Shunt and 200 MVAR Switched Shunt at Mansfield 345 kV		AEC (6.45%) / AEP (2.57) / APS (6.86%) / BGE (6.55%) / ConEd (0.29%) / DPL (12.35%) / Dominion (14.85%) / JCPL (8.12%) / ME (6.19%) / NEPTUNE* (0.82%) / PECO (21.50%) / PPL (4.87%) / PSEG (8.16%) / RE (0.33%) / ECP** (0.09%)
b1821	Replace the Erie South 115 kV breaker 'Union City'		PENELEC (100%)
b1943	Construct a 115 kV ring bus at Claysburg Substation. Bedford North and Saxton lines will no longer share a common breaker		PENELEC (100%)
b1944	Reconductor Eclipse substation 115 kV bus with 1033 kcmil conductor		PENELEC (100%)
b1945	Install second 230/115 kV autotransformer at Johnstown		PENELEC (100%)
b1966	Replace the 1200 Amp Line trap at Lewistown on the Raystown-Lewistown 230 kV line and replace substation conductor at Lewistown		PENELEC (100%)
b1967	Replace the Blairsville 138/115 kV transformer		PENELEC (100%)
b1990	Install a 25 MVAR 115 kV Capacitor at Grandview		PENELEC (100%)
b1991	Construct Farmers Valley 345/230 kV and 230/115 kV substation. Loop the Homer City-Stolle Road 345 kV line into Farmers Valley		PENELEC (100%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.

Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1992	Reconductor Cambria Slope-Summit 115kV with 795 ACSS Conductor		PENELEC (100%)
b1993	Relocate the Erie South 345 kV line terminal		APS (10.09%) / ECP** (0.45%) / HTP (0.49%) / JCPL (5.14%) / Neptune* (0.54%) / PENELEC (70.71%) / PSEG (12.10%) / RE (0.48%)
b1994	Convert Lewis Run-Farmers Valley to 230 kV using 1033.5 ACSR conductor. Project to be completed in conjunction with new Farmers Valley 345/230 kV transformation		APS (33.20%) / ECP** (0.44%) / HTP (0.44%) / JCPL (8.64%) / ME (5.52%) / Neptune (0.86%) / PENELEC (36.81%) / PSEG (13.55%) / RE (0.54%)
b1995	Change CT Ratio at Claysburg		PENELEC (100%)
b1996.1	Replace 600 Amp Disconnect Switches on Ridgeway-Whetstone 115 kV line with 1200 Amp Disconnects		PENELEC (100%)
b1996.2	Reconductor Ridgway and Whetstone 115 kV Bus		PENELEC (100%)
b1996.3	Replace Wave Trap at Ridgway		PENELEC (100%)
b1996.4	Change CT Ratio at Ridgway		PENELEC (100%)
b1997	Replace 600 Amp Disconnect Switches on Dubois-Harvey Run-Whetstone 115 kV line with 1200 Amp Disconnects		PENELEC (100%)
b1998	Install a 75 MVAR 115 kV Capacitor at Shawville		PENELEC (100%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.

Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b2016	Reconductor bus at Wayne 115 kV station		PENELEC (100%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.

SCHEDULE 12 – APPENDIX A

(5) Mid-Atlantic Interstate Transmission, LLC for the Metropolitan Edison Company Zone

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b2006.1.1	Loop the 2026 (TMI – Hosensack 500 kV) line in to the Lauschtown		**Load-Ratio Share Allocation:** AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / Dominion (13.30%) / DPL (2.53%) / ECP** (0.20%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) **DFAX Allocation:** BGE (17.43%) / ME (20.22%) / PPL (62.35%)
b2006.2.1	Upgrade relay at South Reading on the 1072 230 V line		ME (100%)
b2006.4	*Replace the South Reading 69 kV '81342' breaker with 40kA breaker*		*ME (100%)*
b2006.5	*Replace the South Reading 69 kV '82842' breaker with 40kA breaker*		*ME (100%)*
b2452	Install 2nd Hunterstown 230/115 kV transformer		APS (8.30%) / BGE (14.70%) / DEOK (0.48%) / Dominion (36.92%) / ME (23.85%) / PEPCO (15.75%)
b2452.1	Reconductor Hunterstown - Oxford 115 kV line		APS (8.30%) / BGE (14.70%) / DEOK (0.48%) / Dominion (36.92%) / ME (23.85%) / PEPCO (15.75%)

Mid-Atlantic Interstate Transmission, LLC for the Metropolitan Edison Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b2452.3	Replace the Hunterstown 115 kV breaker '96192' with 40 kA		ME (100%)
b2588	Install a 36.6 MVAR 115 kV capacitor at North Bangor substation		ME (100%)
b2637	Convert Middletown Junction 230 kV substation to nine bay double breaker configuration.		ME (100%)
b2644	Install a 28.8 MVAR 115 kV capacitor at the Mountain substation		ME (100%)
b2688.1	Lincoln Substation: Upgrade the bus conductor and replace CTs.		AEP (12.87%)/ APS (18.98%)/ ATSI (1.23%)/ ComEd (0.35%)/ ConEd (0.33%)/ Dayton (1.44%)/ DEOK (2.29%)/ DL (1.11%)/ Dominion (44.70%)/ EKPC (0.78%)/ PEPCO (15.80%)/ RECO (0.12%)
b2688.2	Germantown Substation: Replace 138/115 kV transformer with a 135/180/224 MVA bank. Replace Lincoln 115 kV breaker, install new 138 kV breaker, upgrade bus conductor and adjust/replace CTs.		AEP (12.87%)/ APS (18.98%)/ ATSI (1.23%)/ ComEd (0.35%)/ ConEd (0.33%)/ Dayton (1.44%)/ DEOK (2.29%)/ DL (1.11%)/ Dominion (44.70%)/ EKPC (0.78%)/ PEPCO (15.80%)/ RECO (0.12%)
b2743.4	*Upgrade terminal equipment at Hunterstown 500 kV on the Conemaugh – Hunterstown 500 kV circuit*		*AEP (6.46%) / APS (8.73%) / BGE (19.73%) / ComEd (2.16%) / ConEd (0.06%) / Dayton (0.59%) / DEOK (1.02%) / DL (0.01%) / Dominion (39.92%) / EKPC (0.45%) / PEPCO (20.87%)*

Mid-Atlantic Interstate Transmission, LLC for the *Metropolitan Edison Company* Zone *(cont.)*

Required Transmission Enhancements		*Annual Revenue Requirement*	*Responsible Customer(s)*
b2752.4	*Upgrade terminal equipment and required relay communication at TMI 500 kV: on the Beach Bottom – TMI 500 kV circuit*		*AEP (6.46%) / APS (8.73%) / BGE (19.73%) / ComEd (2.16%) / ConEd (0.06%) / Dayton (0.59%) / DEOK (1.02%) / DL (0.01%) / Dominion (39.92%) / EKPC (0.45%) / PEPCO (20.87%)*

SCHEDULE 12 – APPENDIX A

(7) Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b2212	Shawville Substation: Relocate 230 kV and 115 kV controls from the generating station building to new control building		PENELEC (100%)
b2293	Replace the Erie South 115 kV breaker 'Buffalo Rd' with 40kA breaker		PENELEC (100%)
b2294	Replace the Johnstown 115 kV breaker 'Bon Aire' with 40kA breaker		PENELEC (100%)
b2302	Replace the Erie South 115 kV breaker 'French #2' with 40kA breaker		PENELEC (100%)
b2304	Replace the substation conductor and switch at South Troy 115 kV substation		PENELEC (100%)
b2371	Install 75 MVAR capacitor at the Erie East 230 kV substation		PENELEC (100%)
b2441	Install +250/-100 MVAR SVC at the Erie South 230 kV station		PENELEC (100%)
b2442	Install three 230 kV breakers on the 230 kV side of the Lewistown #1, #2 and #3 transformers		PENELEC (100%)
b2450	Construct a new 115 kV line from Central City West to Bedford North		PENELEC (100%)
b2463	Rebuild and reconductor 115 kV line from East Towanda to S. Troy and upgrade terminal equipment at East Towanda, Tennessee Gas and South Troy		PENELEC (100%)

Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b2494	Construct Warren 230 kV ring bus and install a second Warren 230/115 kV transformer		PENELEC (100%)
b2552.1	Reconductor the North Meshoppen – Oxbow-Lackawanna 230 kV circuit and upgrade terminal equipment (MAIT portion)		PENELEC (100%)
b2573	Replace the Warren 115 kV 'B12' breaker with a 40kA breaker		PENELEC (100%)
b2587	Reconfigure Pierce Brook 345 kV station to a ring bus and install a 125 MVAR shunt reactor at the station		PENELEC (100%)
b2621	Replace relays at East Towanda and East Sayre 115 kV substations (158/191 MVA SN/SE)		PENELEC (100%)
b2677	Replace wave trap, bus conductor and relay at Hilltop 115 kV substation. Replace relays at Prospect and Cooper substations		PENELEC (100%)
b2678	Convert the East Towanda 115 kV substation to breaker and half configuration		PENELEC (100%)
b2679	Install a 115 kV Venango Jct. line breaker at Edinboro South		PENELEC (100%)
b2680	Install a 115 kV breaker on Hooversville #1 115/23 kV transformer		PENELEC (100%)
b2681	Install a 115 kV breaker on the Eclipse #2 115/34.5 kV transformer		PENELEC (100%)

Mid-Atlantic Interstate Transmission, LLC for the Pennsylvania Electric Company Zone (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b2682	Install two 21.6 MVAR capacitors at the Shade Gap 115 kV substation		PENELEC (100%)
b2683	Install a 36 MVAR 115 kV capacitor and associated equipment at Morgan Street substation		PENELEC (100%)
b2684	Install a 36 MVAR 115 kV capacitor at Central City West substation		PENELEC (100%)
b2685	Install a second 115 kV 3000A bus tie breaker at Hooversville substation		PENELEC (100%)
b2743.2	*Tie in new Rice substation to Conemaugh – Hunterstown 500 kV*		*AEP (6.46%) / APS (8.73%) / BGE (19.73%) / ComEd (2.16%) / ConEd (0.06%) / Dayton (0.59%) / DEOK (1.02%) / DL (0.01%) / Dominion (39.92%) / EKPC (0.45%) / PEPCO (20.87%)*
b2743.3	*Upgrade terminal equipment at Conemaugh 500 kV on the Conemaugh – Hunterstown 500 kV circuit*		*AEP (6.46%) / APS (8.73%) / BGE (19.73%) / ComEd (2.16%) / ConEd (0.06%) / Dayton (0.59%) / DEOK (1.02%) / DL (0.01%) / Dominion (39.92%) / EKPC (0.45%) / PEPCO (20.87%)*

5.3 Unscheduled Transmission Service (Loop Flow).

(a) When there are agreements between the LLC and others for compensation to be paid or received for unscheduled transmission service (loop flow) into or out of the PJM Region, the net compensation received shall be included in the total Transmission Congestion Charges that are distributed in accordance with Section 5.2.

(b) With respect to payments by the Office of the Interconnection to the New York Power Pool for the installation and operation of phase angle regulating facilities at Ramapo to control or limit unscheduled transmission service (loop flow), each of the following Transmission Owner with revenue requirements under the PJM Tariff shall pay a share of the charges on a transmission revenue requirements ratio share basis: Allegheny Electric Cooperative, Inc., Atlantic City Electric Company, Baltimore Gas and Electric Company, Delmarva Power & Light Company, Jersey Central Power & Light Company, Mid-Atlantic Interstate Transmission, LLC (but only with respect to transmission revenue requirements associated with the Metropolitan Edison Company Zone), PECO Energy Company, Pennsylvania Power & Light Company, Potomac Electric Power Company, Public Service Electric and Gas Company, Rockland Electric Company, and UGI Utilities, Inc.

ATTACHMENT L
List of Transmission Owners

Allegheny Electric Cooperative, Inc.
American Transmission Systems, Incorporated
Atlantic City Electric Company
Baltimore Gas and Electric Company
NAEA Rock Springs, LLC
Delmarva Power & Light Company
Duke Energy Ohio, Inc.
Duke Energy Kentucky, Inc.
East Kentucky Power Cooperative, Inc.
Hudson Transmission Partners, LLC
ITC Interconnection LLC
Jersey Central Power & Light Company
Mid-Atlantic Interstate Transmission, LLC
Neptune Regional Transmission System, LLC
Old Dominion Electric Cooperative
PECO Energy Company
Pennsylvania Power & Light Company
Potomac Electric Power Company
Public Service Electric and Gas Company
Rockland Electric Company
Trans-Allegheny Interstate Line Company
UGI Utilities, Inc.
Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power
Commonwealth Edison Company and Commonwealth Edison Company of Indiana, Inc.
The Dayton Power and Light Company
AEP East Operating Companies (Appalachian Power Company, Columbus Southern Power Company, Indiana Michigan Power Company, Kentucky Power Company, Kingsport Power Company, Ohio Power Company and Wheeling Power Company)
Duquesne Light Company
Virginia Electric and Power Company
Linden VFT, LLC
City of Cleveland, Department of Public Utilities, Division of Cleveland Public Power
City of Hamilton, OH
City of Rochelle

Revisions to the PJM OA
(Clean Format)

- Definitions O-P
- Schedule 1, Section 5.3
- Schedule 12

Definitions O - P

Offer Data:

"Offer Data" shall mean the scheduling, operations planning, dispatch, new resource, and other data and information necessary to schedule and dispatch generation resources and Demand Resource(s) for the provision of energy and other services and the maintenance of the reliability and security of the Transmission System in the PJM Region, and specified for submission to the PJM Interchange Energy Market for such purposes by the Office of the Interconnection.

Office of the Interconnection:

"Office of the Interconnection" shall mean the employees and agents of PJM Interconnection, L.L.C. subject to the supervision and oversight of the PJM Board, acting pursuant to the Operating Agreement.

Office of the Interconnection Control Center:

"Office of the Interconnection Control Center" shall mean the equipment, facilities and personnel used by the Office of the Interconnection to coordinate and direct the operation of the PJM Region and to administer the PJM Interchange Energy Market, including facilities and equipment used to communicate and coordinate with the Market Participants in connection with transactions in the PJM Interchange Energy Market or the operation of the PJM Region.

On-Site Generators:

"On-Site Generators" shall mean generation facilities (including Behind The Meter Generation) that (i) are not Capacity Resources, (ii) are not injecting into the grid, (iii) are either synchronized or non-synchronized to the Transmission System, and (iv) can be used to reduce demand for the purpose of participating in the PJM Interchange Energy Market.

Operating Day:

"Operating Day" shall mean the daily 24 hour period beginning at midnight for which transactions on the PJM Interchange Energy Market are scheduled.

Operating Margin:

"Operating Margin" shall mean the incremental adjustments, measured in megawatts, required in PJM Region operations in order to accommodate, on a first contingency basis, an operating contingency in the PJM Region resulting from operations in an interconnected Control Area. Such adjustments may result in constraints causing Transmission Congestion Charges, or may result in Ancillary Services charges pursuant to the PJM Tariff.

Operating Margin Customer:

"Operating Margin Customer" shall mean a Control Area purchasing Operating Margin pursuant to an agreement between such other Control Area and the LLC.

Operating Reserve:

"Operating Reserve" shall mean the amount of generating capacity scheduled to be available for a specified period of an Operating Day to ensure the reliable operation of the PJM Region, as specified in the PJM Manuals.

Original PJM Agreement:

"Original PJM Agreement" shall mean that certain agreement between certain of the Members, originally dated September 26, 1956, and as amended and supplemented up to and including December 31, 1996, relating to the coordinated operation of their electric supply systems and the interchange of electric capacity and energy among their systems.

Other Supplier:

"Other Supplier" shall mean a Member that: (i) is engaged in buying, selling or transmitting electric energy, capacity, ancillatry services, financial transmission rights or other services available under PJM's governing documents in or through the Interconnection or has a good faith intent to do so, and; (ii) does not qualify for the Generation Owner, Electric Distributor, Transmission Owner or End-Use Customer sectors.

PJM Board:

"PJM Board" shall mean the Board of Managers of the LLC, acting pursuant to *the Operating Agreement*, except when such term is being used in *Tariff*, Attachment M, in which case PJM Board shall mean the Board of Managers of PJM or its designated representative, exclusive of any members of PJM Management.

PJM Control Area:

"PJM Control Area" shall mean the Control Area recognized by NERC as the PJM Control Area.

PJM Dispute Resolution Procedures:

"PJM Dispute Resolution Procedures" shall mean the procedures for the resolution of disputes set forth in *Operating Agreement,* Schedule 5.

PJM Governing Agreements:

*"PJM Governing Agreements" shall mean t*he PJM Open Access Transmission Tariff, the Operating Agreement, the Consolidated Transmission Owners Agreement, the Reliability Assurance Agreement, or any other applicable agreement approved by the FERC and intended to govern the relationship by and among PJM and any of its Members.

PJM Interchange:

"PJM Interchange" shall mean the following, as determined in accordance with the Schedules to *the Operating Agreement*: (a) for a Market Participant that is a Network Service User, the amount by which its hourly Equivalent Load exceeds, or is exceeded by, the sum of the hourly outputs of its operating generating resources; or (b) for a Market Participant that is not a Network Service User, the amount of its Spot Market Backup; or (c) the hourly scheduled deliveries of Spot Market Energy by a Market Seller from an External Resource; or (d) the hourly net metered output of any other Market Seller; or (e) the hourly scheduled deliveries of Spot Market Energy to an External Market Buyer; or (f) the hourly scheduled deliveries to an Internal Market Buyer that is not a Network Service User.

PJM Interchange Energy Market:

"PJM Interchange Energy Market" shall mean the regional competitive market administered by the Office of the Interconnection for the purchase and sale of spot electric energy at wholesale in interstate commerce and related services established pursuant to *Operating Agreement,* Schedule 1*, and the parallel provisions of Tariff, Attachment K-Appendix*.

PJM Interchange Export:

"PJM Interchange Export" shall mean the following, as determined in accordance with the Schedules to *the Operating Agreement*: (a) for a Market Participant that is a Network Service User, the amount by which its hourly Equivalent Load is exceeded by the sum of the hourly outputs of its operating generating resources; or (b) for a Market Participant that is not a Network Service User, the amount of its Spot Market Backup sales; or (c) the hourly scheduled deliveries of Spot Market Energy by a Market Seller from an External Resource; or (d) the hourly net metered output of any other Market Seller.

PJM Interchange Import:

"PJM Interchange Import" shall mean the following, as determined in accordance with the Schedules to *the Operating Agreement*: (a) for a Market Participant that is a Network Service User, the amount by which its hourly Equivalent Load exceeds the sum of the hourly outputs of its operating generating resources; or (b) for a Market Participant that is not a Network Service User, the amount of its Spot Market Backup purchases; or (c) the hourly scheduled deliveries of Spot Market Energy to an External Market Buyer; or (d) the hourly scheduled deliveries to an Internal Market Buyer that is not a Network Service User.

PJM Manuals:

"PJM Manuals" shall mean the instructions, rules, procedures and guidelines established by the Office of the Interconnection for the operation, planning, and accounting requirements of the PJM Region and the PJM Interchange Energy Market.

PJM Market Monitor:

"PJM Market Monitor" shall mean the Market Monitoring Unit established under Attachment M to the PJM Tariff.

PJM Mid-Atlantic Region*:*

"PJM Mid-Atlantic Region" shall mean the aggregate of the Transmission Facilities of Atlantic City Electric Company, Baltimore Gas and Electric Company, Delmarva Power and Light Company, Jersey Central Power and Light Company, Mid-Atlantic Interstate Transmission, LLC, PECO Energy Company, PPL Electric Utilities Corporation, Potomac Electric Power Company, Public Service Electric and Gas Company, and Rockland Electric Company.

PJM Open Access Same-time Information System:

"PJM Open Access Same-time Information System" shall mean the electronic communication system for the collection and dissemination of information about transmission services in the PJM Region, established and operated by the Office of the Interconnection in accordance with FERC standards and requirements.

PJM Region:

"PJM Region" shall mean the aggregate of the Zones within PJM as set forth in Attachment J to the PJM Tariff.

PJMSettlement:

"PJMSettlement" or "PJM Settlement, Inc." shall mean PJM Settlement, Inc. (or its successor), established by PJM as set forth in Section 3.3 *of the Operating* Agreement.

PJM South Region:

"PJM South Region" shall mean the Transmission Facilities of Virginia Electric and Power Company.

PJM Tariff:

"PJM Tariff" or "Tariff" shall mean that certain "PJM Open Access Transmission Tariff", including any schedules, appendices, or exhibits attached thereto, on file with FERC and as amended from time to time thereafter.

PJM West Region:

"PJM West Region" shall mean the Zones of Allegheny Power; Commonwealth Edison Company (including Commonwealth Edison Co. of Indiana); AEP East Operating Companies; The Dayton Power and Light Company; the Duquesne Light Company; American Transmission Systems, Incorporated; Duke Energy Ohio, Inc. and Duke Energy Kentucky, Inc.

Planning Period:

"Planning Period" shall initially mean the 12 months beginning June 1 and extending through May 31 of the following year, or such other period established under the procedures of, as applicable, the Reliability Assurance Agreement.

Planning Period Balance:

"Planning Period Balance" shall mean the entire period of time remaining in the Planning Period following the month that a monthly auction is conducted.

Planning Period Quarter:

"Planning Period Quarter" shall mean any of the following three month periods in the Planning Period: June, July and August; September, October and November; December, January and February; or March, April and May.

Point-to-Point Transmission Service:

"Point-to-Point Transmission Service" shall mean transmission service provided pursuant to the rates, terms and conditions set forth in *Tariff,* Part II.

PRD Curve:

*"*PRD Curve*"* shall have the meaning provided in the Reliability Assurance Agreement.

PRD Provider:

*"*PRD Provider*"* shall have the meaning provided in the Reliability Assurance Agreement.

PRD Reservation Price:

*"*PRD Reservation Price*"* shall have the meaning provided in the Reliability Assurance Agreement.

PRD Substation:

*"*PRD Substation*"* shall have the meaning provided in the Reliability Assurance Agreement.

Pre-Emergency Load Response Program:

*"*Pre-Emergency Load Response Program*" shall be* the program by which Curtailment Service Providers may be compensated by PJM for Demand Resources that will reduce load when dispatched by PJM during pre-emergency conditions, and is described in Section 8 of Schedule 1 of the Operating Agreement and the parallel provisions of Section 8 of Attachment K-Appendix of the Tariff.

President:

"President" shall have the meaning specified in *Operating Agreement,* section 9.2.

Price Responsive Demand:

*"*Price Responsive Demand*"* shall have the meaning provided in the Reliability Assurance Agreement.

Primary Reserve:

"Primary Reserve" shall mean the total reserve capability of generation resources that can be converted fully into energy or Demand Resources whose demand can be reduced within ten minutes of a request from the Office of the Interconnection dispatcher, and is comprised of both Synchronized Reserve and Non-Synchronized Reserve.

Primary Reserve Requirement:

"Primary Reserve Requirement" shall mean the megawatts required to be maintained in a Reserve Zone or Reserve Sub-zone as Primary Reserve, absent any increase to account for additional reserves scheduled to address operational uncertainty. The Primary Reserve Requirement is calculated in accordance with the PJM Manuals.

Prohibited Securities:

"Prohibited Securities" shall mean the Securities of a Member, Eligible Customer, or Nonincumbent Developer, or their Affiliates, if:

(1) the primary business purpose of the Member or Eligible Customer, or their Affiliates, is to buy, sell or schedule energy, power, capacity, ancillary services or transmission services as indicated by an industry code within the "Electric Power Generation, Transmission, and Distribution" industry group under the North American Industry Classification System ("NAICS") or otherwise determined by the Office of the Interconnection;

(2) the Nonincumbent Developer has been pre-qualified as eligible to be a Designated Entity pursuant to *Operating Agreement,* Schedule 6;

(3) the total (gross) financial settlements regarding the use of transmission capacity of the Transmission System and/or transactions in the centralized markets that the Office of the Interconnection administers under the Tariff and the Operating Agreement for all Members or Eligible Customers affiliated with the publicly traded company during its most recently completed fiscal year is equal to or greater than 0.5% of its gross revenues for the same time period; or

(4) the total (gross) financial settlements regarding the use of transmission capacity of the Transmission System and/or transactions in the centralized markets that the Office of the Interconnection administers under the Tariff and the Operating Agreement for all Members or Eligible Customers affiliated with the publicly traded company during the prior calendar year is equal to or greater than 3% of the total transactions for which PJMSettlements is a Counterparty pursuant to *Operating Agreement,* section 3.3 for the same time period.

The Office of the Interconnection shall compile and maintain a list of the Prohibited Securities publicly traded and post this list for all employees and distribute the list to the Board Members.

Proportional Multi-Driver Project:

"Proportional Multi-Driver Project" shall mean a Multi-Driver Project that is planned as described in *Operating Agreement,* Schedule 6, section 1.5.10(h).

Pseudo-Tie:

"Pseudo-Tie shall have the same meaning set forth in the NERC Glossary of Terms Used in NERC Reliability Standards.

Public Policy Objectives:

"Public Policy Objectives" shall refer to Public Policy Requirements, as well as public policy initiatives of state or federal entities that have not been codified into law or regulation but which nonetheless may have important impacts on long term planning considerations.

Public Policy Requirements:

"Public Policy Requirements" shall refer to policies pursued by: (a) state or federal entities, where such policies are reflected in duly enacted statutes or regulations, including but not limited to, state renewable portfolio standards and requirements under Environmental Protection Agency regulations; and (b) local governmental entities such as a municipal or county government, where such policies are reflected in duly enacted laws or regulations passed by the local governmental entity.

5.3 Unscheduled Transmission Service (Loop Flow).

(a) When there are agreements between the LLC and others for compensation to be paid or received for unscheduled transmission service (loop flow) into or out of the PJM Region, the net compensation received shall be included in the total Transmission Congestion Charges that are distributed in accordance with Section 5.2.

(b) With respect to payments by the Office of the Interconnection to the New York Power Pool for the installation and operation of phase angle regulating facilities at Ramapo to control or limit unscheduled transmission service (loop flow), each of the following Transmission Owners with revenue requirements under the PJM Tariff shall pay a share of the charges on a transmission revenue requirements ratio share basis: Allegheny Electric Cooperative, Inc., Atlantic City Electric Company, Baltimore Gas and Electric Company, Delmarva Power & Light Company, Jersey Central Power & Light Company, Mid-Atlantic Interstate Transmission, LLC (but only with respect to transmission revenue requirements associated with the Metropolitan Edison Company Zone), PECO Energy Company, Pennsylvania Power & Light Company, Potomac Electric Power Company, Public Service Electric and Gas Company, Rockland Electric Company, and UGI Utilities, Inc.

SCHEDULE 12 -
PJM MEMBER LIST

A2A Energy International, LLC
Abest Power & Gas, LLC
AC Energy, LLC
Acciona Energy North America Corporation (AENAC)
Achieving Equilibrium LLC
AEP Appalachian Transmission Company, Inc.
AEP Energy Partners, Inc.
AEP Energy, Inc.
AEP Indiana Michigan Transmission Company, Inc.
AEP Kentucky Transmission Company, Inc.
AEP Ohio Transmission Company, Inc.
AEP Retail Energy Partners, LLC
AEP West Virginia Transmission Company, Inc.
AES Beaver Valley LLC
AES Energy Storage, LLC
AES ES Holdings, LLC
Aesir Power, LLC
AES Laurel Mountain, LLC
AES Ohio Generation, LLC
A.F. Mensah Inc.
Agera Energy LLC
Aggressive Energy LLC
Agway Energy Services, LLC
Air Liquide Industrial US, LP
Air Products & Chemicals, Inc.
AK Steel Corporation
Alabama Power Company
Alegria Fund, LP
Algonquin Energy Services, Inc.
Allegheny Electric Cooperative, Inc.
Allegheny Energy Supply Company, LLC
ALLETE, Inc. d/b/a Minnesota Power
Alliant Energy Corporate Services, Inc.
Alliant Energy Resources, LLC
Alpaca Energy LLC
Alpha Gas and Electric, LLC
Altus Power America, Inc.
Amazon Energy LLC
Ambit Northeast, LLC
American Illuminating Company, LLC
American Municipal Power, Inc.
American Power & Gas of IL, LLC
American Power & Gas of Ohio, LLC

American Power & Gas of Pennsylvania, LLC
American Power & Gas of NJ, LLC
American Power Partners, LLC
American PowerNet Management, L.P.
American Transmission Company, LLC
American Transmission Systems Inc.
Amerigreen Energy, Inc.
Ames Energy, LLC
Amity Energy LLC
Anahau Energy, LLC
Anbaric Northeast Transmission Development Company, LLC
AP Gas & Electric (IL), LLC
AP Gas & Electric (MD), LLC
AP Gas & Electric (OH), LLC
AP Gas and Electric (NJ), LLC
AP Gas and Electric (PA), LLC
APN Starfirst, LP
Appalachian Power Company
Appian Way Energy Partners MidAtlantic, LLC
Apple Group LLC
APX, Inc.
Aquenergy Systems Inc.
ArcelorMittal USA, LLC
ArcLight Energy Marketing, L.L.C.
Armada Power, LLC
Armenia Mountain Wind, LLC
Arrow Energy RRH, LLC
Aspirity Energy, LLC
Associated Electric Cooperative, Inc.
Astral Energy LLC
Atlantic City Electric Company
Atlantic Energy MD, LLC
Atlantic Grid Operations A, LLC
ATNV Energy, LP
Automated Algorithms, LLC
Avangrid Renewables, LLC
AXPO U.S. LLC
Baker Boy, LLC
Baltimore Gas and Electric Company
Baltimore Power Company LLC
Barclays Capital Services, Inc
Bargain Energy, LLC
Bartram Lane, LLC
Battery Utility of Ohio, LLC
Bayles Energy LLC
Bayonne Plant Holding, L.L.C.

Bazinga, LLC
BBPC LLC d/b/a/ Great Eastern Energy
Beacon Power, LLC
Bear Island Paper WB LLC
Beaver Dam Energy LLC
Beech Ridge Energy LLC
Beech Ridge Energy Storage LLC
Berks Hollow Energy Associates, LLC
Bernards Solar, LLC
Big Bend Trading, LLC
Big Rivers Electric Corporation
Big Sandy Peaker Plant, LLC
Big Savage, LLC
Big Sky Wind, LLC
Biogas Energy Solutions LLC
BioUrja Power, LLC
Birdsboro Power LLC
Bishop Hill Energy LLC
BIF II Safe Harbor Holding LLC
BIF III Holtwood LLC
BITH Solar I, LLC
BJ Energy, LLC
Black Oak Capital, LLC
Black Oak Energy, LLC
Blackout Power Trading Inc.
Blackstone Wind Farm II, LLC
Blackstone Wind Farm, LLC
Blue Ridge Power Agency, Inc.
Bluegrass Generating Company, LLC
BlueRock Energy, Inc.
BNP Paribas Energy Trading GP
Borough of Butler, Butler Electric Division
Borough of Chambersburg
Borough of Columbia, PA
Borough of Lavallette, New Jersey
Borough of Madison, New Jersey
Borough of Milltown
Borough of Mont Alto
Borough of Park Ridge, New Jersey
Borough of Pemberton
Borough of Pitcairn, Pennsylvania
Borough of Seaside Heights
Borough of South River, New Jersey
Boston Energy Group, Inc.
Boston Energy Trading and Marketing LLC
Bounce Energy PA, LLC

BP Energy Company
Brandon Shores LLC
Brick Standard LLC
Brighten Energy, LLC
Brookfield Energy Marketing, LP
Brookfield Power Piney & Deep Creek LLC
Brookfield Renewable Energy Marketing US LLC
Bruce Power Inc.
Brunner Island, LLC
Buckeye Power, Inc.
C.P. Crane LLC
Cahaya Power Marketing LLC
Calpine Bethlehem, LLC
Calpine Energy Services, L.P.
Calpine Mid Atlantic Marketing, LLC
Calvert Cliffs Nuclear Power Plant, LLC
Cambria Cogen Company
Camden Plant Holding, L.L.C.
Camp Grove Wind Farm, LLC
Canadian Wood Products – Montreal, Inc. dba CWP Energy
Capacity Markets Partners, LLC
Cape May County Municipal Utilities Authority
Capital Energy LLC
Cargill Power Markets, LLC
Carroll County Energy LLC
Casterbridge Advisory, L.L.C.
Castleton Commodities Merchant Trading L.P.
CenStar Energy Corp.
Central Transmission, LLC
Central Virginia Electric Cooperative
Centre Lane Trading Limited
CES Retail Energy Supply, LLC
Champion Energy Marketing LLC
Champion Energy Services, LLC
Champion Energy, LLC
Chesapeake Trading Group, LLC
Chesapeake Transmission LLC
Chief Conemaugh Power, LLC
Chief Keystone Power, LLC
Choice Energy, LLC dba 4 Choice Energy, LLC
Church Hill Solar Farm, LLC
Cincinnati Bell Energy, LLC
Cinnamon Bay, LLC
Citigroup Energy Inc.
Citizens' Electric Company of Lewisburg, PA
City of Batavia, Illinois

City of Cleveland, Department of Public Utilities, Division of Cleveland Public Power
City of Dover, Delaware
City of Geneva (The)
City of Hamilton
City of New Martinsville – WV
City of Philippi – West VA
City of Rochelle
CleanChoice Energy, Inc.
Clean Energy Future – Lordstown, LLC
CleanLight Power + Energy, LLC
Clear Power LLC
Clearview Electric, Inc.
Cleveland Electric Illuminating Company Climaton Research Company
CMS Energy Resource Management Company
Coaltrain Energy LP
Coastal Strategies, LLC
Coastal Wind and Solar Resources, LLC
Cogen Technologies Linden Venture, L.P.
Cogentrix Virginia Financing Holding Company, LLC
Cognovi Analytics, LLC
Collegiate Clean Energy, LLC
Commerce Energy Inc.
Commonwealth Chesapeake Company, LLC
Commonwealth Edison Company
Community Energy, Inc.
Comperio Energy LLC dba ClearChoice Energy
Conch Energy Trading, LLC
ConocoPhillips Company
Consolidated Edison Company of New York, Inc.
Consolidated Edison Energy, Inc.
Consolidated Edison Solutions, Inc.
Constellation Energy Power Choice, LLC
Constellation Energy Services, Inc.
Constellation NewEnergy, Inc.
Constellation Power Source Generation, LLC
Consumers Energy Company
Cordova Energy Company LLC
Corona Power LLC
County of Frederick, VA
Covanta Delaware Valley, L.P.
Covanta Energy Group, LLC
Covanta Essex Company
Covanta Union, LLC
CP Energy Marketing (US) Inc.
CPV MARYLAND, LLC
CPV Shore, LLC

Credit Suisse (USA), Inc.
Crescent Ridge LLC
Crete Energy Venture, LLC
Cube Hydro Partners, LLC
Cumulus Master Fund
Current Power & Gas Inc.
Customized Energy Solutions, Ltd.
Cygnus Energy Futures, LLC
Darby Energy, LLLP
Dart Container Corporation of Pennsylvania
Dayton Power & Light Company (The)
DC Energy LLC
DC Energy Mid-Atlantic, LLC
DCO Energy, LLC
Decatur Energy Center, LLC
DEL LIGHT INC.
Delaware Division of the Public Advocate
Delaware Municipal Electric Corporation
Delmarva Power & Light Company
Demansys Energy, LLC
Denver Energy, LLC
Devonshire Energy, LLC
Diamond State Generation Partners, LLC
Direct Energy Business, LLC
Direct Energy Business Marketing, LLC
Direct Energy Services, LLC
Divine Power, Inc.
Dominion Energy Marketing, Inc.
Domtar Paper Company, LLC
Doswell Limited Partnership
Downes Associates, Inc.
DPL Energy Resources, LLC
DTE Energy Trading, Inc.
Dufossat Capital I, LLC
Duke Energy Business Services, LLC
Duke Energy Carolinas, LLC
Duke Energy Commercial Enterprises, Inc.
Duke Energy Florida, LLC
Duke Energy Kentucky, Inc.
Duke Energy Ohio, Inc.
Duke Energy Progress, LLC
Duke Energy Renewable Services, LLC
Duquesne Conemaugh LLC
Duquesne Keystone LLC
Duquesne Light Company
Duquesne Light Energy, LLC

Duquesne Power LLC
Dynasty Energy Group LLC
Dynasty North America Holdings Inc.
Dynasty Power Inc.
Dynegy Energy Services, LLC
Dynegy Kendall Energy, LLC
Dynegy Marketing and Trade, LLC
Dynegy Power Marketing, LLC
Dyon, LLC
E Minus LLC
E.ON Climate & Renewables North America Inc.
Eagle Point Power Generation LLC
Eagle's View Multi-Strategy, LLC
Earth Networks, Inc.
East Coast Power & Gas of New Jersey, LLC
East Coast Power Linden Holdings, L.L.C.
Eastern Generation, LLC
Eastern Shore Solar LLC
East Kentucky Power Cooperative, Inc.
Easton Utilities Commission
Ebensburg Power Company
Ebrfuel, LLC
eCap Network, LLC
Ecesis LLC
EcoGrove Wind, LLC
EDF Trading North America, LLC
Edison Transmission, LLC
EDP Energy Services, LLC
EDP Renewables North America, LLC
EF Kenilworth LLC
EFS Parlin Holdings, LLC
El Paso Marketing, L.P.
Elgin Energy Center, LLC
Eligo Energy, LLC
Elliot Bay Energy Trading, LLC
Elmagin Power Fund LLC
Elmwood Park Power, LLC
Elwood Energy LLC
EMC Development Company, Inc.
Emera Energy Services, Inc.
Emporia Hydropower Limited Partnership
ENBALA Power Networks, Inc.
Endurance Energy Midwest LLC
Energetix, Inc.
Energy America, LLC
Energy Answers Baltimore, LLC

Energy Authority, Inc. (The)
Energy Consulting Services, LLC
Energy Cooperative Association of Pennsylvania
Energy Cooperative of America, Inc.
Energy Limited Inc.
Energy Plus Holdings LLC
Energy Power Investment Company, LLC
Energy Service Providers, Inc.
Energy Technology Savings, Inc.
Energy Transfer Retail Power, LLC
Energy.me Midwest llc d/b/a energy.me
Energya VM Gestion de Energia S.L.U.
EnergyConnect, Inc.
EnerNOC, Inc.
EnerPenn USA, LLC
Enerwise Global Technologies, Inc.
Engelhart CTP (US) LLC
ENGIE Resources LLC
ENGIE Retails, LLC
Entegra Power Services LLC
Entrust Energy East, Inc.
EPP Renewable Energy, LLC
Essential Power OPP, LLC
Essential Power Rock Springs, LLC
Essential Power, LLC
ETC Endure Energy L.L.C.
Evergreen Community Power
Evergreen Gas & Electric, LLC
EverPower Commercial Services, LLC
Everyday Energy, LLC
Exel Power Sources, LLC
Exelon Business Services Company, LLC
Exelon Generation Company, LLC
Exion Energy Inc.
Falcon Energy, LLC
Fantods LLC
Fermata, LLC
First Point Power, LLC
FirstEnergy Solutions Corp.
Florey Knob Energy LLC
Florida Power & Light Company
Forest Investment Group, LLC
Forked River Power LLC
Fowler Ridge II Wind Farm LLC
Fowler Ridge III Wind Farm LLC
Fowler Ridge IV Wind Farm LLC

Fowler Ridge Wind Farm LLC
FPL Energy Marcus Hook LP
Franklin Power LLC
Freepoint Commodities LLC
Freepoint Energy Solutions LLC
Frontier Utilities Northeast, LLC
Future Power PA LLC
G&G Energy, Inc.
G&S Wantage Solar, LLC
Gallus Capital LLC
Galt Power, Inc.
Gateway Energy Services Corporation
GBE Energy Marketing Inc.
GDF SUEZ Energy Marketing NA, Inc.
GDF SUEZ Energy Resources NA, Inc.
Gen IV Investment Opportunities, LLC
Genbright LLC
GenOn Energy Management, LLC
Gen Ops, LLC
Georgia Power Company
Gerdau Ameristeel Energy, Inc
Geronimo Energy Holdings, LLC
Grain Belt Express Clean Line LLC
Grand Ridge Energy II LLC
Grand Ridge Energy III LLC
Grand Ridge Energy IV LLC
Grand Ridge Energy LLC
Grand Ridge Energy V LLC
Grand Ridge Energy Storage, LLC
Granger Energy of Honey Brook, LLC
Grays Ferry Cogeneration Partnership
Great American Power, LLC
Great Barrington Energy Fund LP
Great Bay Energy I, LLC
Great Bay Energy III, LLC
Great Falls Hydroelectric Company, Limited Partnership
GreenHat Energy, LLC
Greenlight Energy Inc.
Green Mountain Energy Company
Greene Energy, LLC
greeNEWit, LLC
GRG ENERGY LLC
Gridforce Energy Management, LLC
GSG, LLC
GSG 6, LLC
Gulf Power Company

Guttman Energy, Inc.
Guzman Energy LLC
H.A. Wagner LLC
H.Q. Energy Services (U.S.), Inc.
Hagerstown Light Department
Half Moon Ventures, LLC
Handsome Lake Energy, LLC
Harborside Energy, LLC
Harrison REA, Inc. – Clarkesburg, WV
Hartree Partners, LP
Hawks Nest Hydro LLC
Hazle Spindle, LLC
Hazleton Generation LLC
Headwaters Wind Farm LLC
Hemsworth Capital LP
Hemsworth Capital Midwest LP
Hexis Energy Trading, LLC
Hickory Run Energy, LLC
Highland North LLC
High Resolution Energy, LLC
High Resolution Energy VT Fund I, LP
HIKO Energy, LLC
Hill Energy Resource & Services, LLC
Hill Top Energy Center, LLC
Holcim (US), Inc.
Holocene Finance, LLC
Holtwood, LLC
Homer City Generation, LP
Hoosier Energy REC, Inc.
Hop Bottom Energy LLC
Horizon Energy Investments, Inc.
Horizon Power and Light, LLC
H-P Energy Resources, LLC
HSBC Technology & Services (USA), Inc.
Hudson Energy Services, LLC
Hudson Transmission Partners, LLC
Icetec.com, Inc.
Icetec Energy Services, Inc.
IDT Energy, Inc.
Illinois Citizens Utility Board
Illinois Municipal Electric Agency
Illinois Power Marketing Company
IMG Midstream LLC
Indeck Energy Services, Inc.
Indeck Niles, LLC
Independence Energy Group, LLC

Independent Energy Consultants, Inc.
Indiana Michigan Power Company
Indiana Municipal Power Agency
Indiana Office of Utility Consumer Counselor (IN OUCC)
Industrial Energy Users-Ohio
Inertia Power I, LLC
Ingenco Holdings, LLC
Ingenco Wholesale Power, LLC
Innovari Market Solutions LLC
Innovation Tap LLC d/b/a Innotap
Innoventive Power LLC
Inspire Energy Holdings, LLC
Intelligent Generation, LLC
International Paper Company
Interstate Gas Supply, Inc.
Interstate Power and Light Company
Invenergy LLC
Invenergy Nelson LLC
Ioway Energy, LLC
IPKeys Power Partners LLC
Iron Energy LLC
iSigma, Inc.
ITC Interconnection LLC
ITC Mid-Atlantic Development LLC
J. Aron & Company
Jack Rich, Inc. d/b/a Anthracite Power & Light Company
James River Genco, LLC
Jane Street Energy Trading, LLC
Jersey Central Power & Light Company
Jersey Green Energy, LLC
Jersey-Atlantic Wind, LLC
Joliet Battery Storage LLC
Josco Energy USA, LLC
JP Morgan Ventures Energy Corporation
JPTC, LLC
Kansas City Power & Light Company
KASS Commodities, LLC
KDC Solar Green Power LLC
Kentucky Power Company
KeyTex Energy LLC
KeyTex Energy Solutions LLC
KFW Energy, LLC
Kimberly-Clark Corporation
Kincaid Generation, LLC
Kingsport Power Company
Kiyoshi Technologies, LLC

KMC Thermo, LLC
Koch Energy Services, LLC
KOREnergy, Ltd.
Krayn Wind LLC
Kuehne Chemical Company, Inc.
Kupper Engineering, Inc.
L&P Electric Inc., d/b/a Leggett & Platt Electric Inc.
Lackawanna Energy Center LLC
Lancaster County Solid Waste Management Authority
Land O'Lakes, Inc.
Lantar Energy LLC
LCG Consulting
Lee River Proprietary Strategies, Inc.
Leeward Asset Management, LLC
Legacy Energy Group, LLC (The)
Lehigh Portland Cement Company
Lehman Brothers Commodity Services, Inc.
Letterkenny Industrial Development Authority – PA
Levelsail Trading, LLC
Liberty Electric Power, LLC
Liberty Hill Power LLC
Liberty Power Corp., L.L.C.
Liberty Power Delaware, LLC
Liberty Power District of Columbia LLC
Liberty Power Holdings LLC
Liberty Power Maryland, LLC
LifeEnergy, LLC
Lincoln Generating Facility, LLC
Linde Energy Services, Inc.
Linde, LLC
Linden VFT LLC
Links EP LLC
LM Power, LLC
Long Island Lighting Company d/b/a LIPA
Longview Power, LLC
Louisville Gas and Electric Company/Kentucky Utilities Company
Lower Electric, LLC
Lower Mount Bethel Energy, LLC
LQA, LLC
LSP University Park, LLC
LTSTE Investments, LLC
Lykins Oil Company d/b/a Lykins Energy Solutions
Mac Trading, Inc.
Macquarie Energy, LLC
Madison Gas and Electric Co.
MAG Energy Solution, Inc.

Mahoning Creek Hydroelectric Company, LLC
Major Energy Electric Services, LLC
Manatee Transmission LLC
Mansfield Power and Gas, LLC
Maple Analytics, LLC
Marathon Power LLC
Marina Energy, LLC
Martins Creek, LLC
Maryland Office of People's Counsel
Mattawoman Energy, LLC
MC Squared Energy Services, LLC
Meadow Lake Wind Farm II, LLC
Meadow Lake Wind Farm III, LLC
Meadow Lake Wind Farm IV, LLC
Meadow Lake Wind Farm, LLC
MeadWestvaco Corporation
Median Energy Corp.
Mega Energy Holdings, LLC
MEG Generating Company, LLC
Mehoopany Wind Energy LLC
Mendota Hills, LLC
Mercuria Energy America, Inc.
Mercuria SJAK Trading, LLC
Merrill Lynch Commodities, Inc.
MET MA LLC
Metropolitan Edison Company
Miami Valley Lighting, LLC
Michigan Department of Attorney General, Environment, Natural Resources & Agriculture Division
Michigan Public Power Agency
Microsoft Corporation
MidAmerican Energy Company
MidAmerican Energy Services, LLC
MidAtlantic Power Partners, LLC
Mid-Atlantic Interstate Transmission, LLC
Mid-Atlantic Renewable Energy Coalition
Middlesex County Utilities Authorities
Middlesex Energy Center, LLC
Midwest Energy Trading East LLC
Midwest Generation, LLC
Milan Energy LLC
Milford Solar LLC
Mint Energy, LLC
Mississippi Power Company
Monmouth Energy, Inc.
Monongahela Power Company d/b/a Allegheny Power

Monterey MA, LLC
Monterey MAF, LLC
Montour, LLC
Morgan Stanley Capital Group, Inc.
Morgan Stanley Services Group Inc.
Morgans Corner Solar Energy LLC
Morris Cogeneration, L.L.C
Mosaic Power, LLC
Moundsville Power, LLC
Moxie Freedom LLC
MP2 Energy NE, LLC
MP2 Energy, LLC
MPCF I, LLC
MPower Energy NJ LLC
Mt. Carmel Cogeneration Inc.
Nalcor Energy Marketing Corporation
NATGASCO d/b/a/ Supreme Energy, Inc.
National Gas & Electric, LLC
Natural Gas Exchange Inc.
Nautilus Solar Energy, LLC
NedPower Mount Storm, LLC
NEPM II, LLC
Neptune Regional Transmission System, LLC
NERC-Middlesex Solar I, LLC
Newark Energy Center, LLC
New Covert Generating Company, LLC
New Jersey Division of the Ratepayer Advocate
New York Power Authority
New York State Electric & Gas Corporation
Newark Bay Cogeneration Partnership, L.P.
NextEra Energy Power Marketing, LLC
NextEra Energy Services Illinois, LLC
NextEra Energy Services New Jersey, LLC
NextEra Energy Transmission, LLC
Nittany Energy, LLC
NJ Brothers Capital Limited
NJR Clean Energy Ventures Corporation
NJR Clean Energy Ventures II Corporation
Noble Americas Energy Solutions, LLC
Noble Americas Gas & Power Corp.
Nordic Energy Services LLC
North American Natural Resources – SBL, LLC
North American Power and Gas, LLC
North Carolina Electric Membership Corporation
North Carolina Municipal Power Agency Number 1
North Hanover Solar W2-082, LLC

Northampton Generating Company, L.P.
Northeast Maryland Waste Disposal Authority
Northeast Transmission Development, LLC
Northeastern REMC
Northern Illinois Municipal Power Agency
Northern Indiana Public Service Company
Northern States Power Company
Northern Virginia Electric Cooperative - NOVEC
NorthPoint Energy Solutions, Inc.
Northstar Trading Ltd.
NRG Curtailment Solutions, Inc.
NRG Potomac River LLC
NRG Power Marketing, LLC
NRG Power Midwest LP
NRGStream LLC
NTE Carolinas, LLC
NTE Ohio, LLC
NuEnergen, LLC
NYSEG Solutions, Inc.
Oasis Power, LLC dba Oasis Energy
Occidental Power Services, Inc.
Oceanside Power, LLC
Office of the Attorney General, Kentucky
Office of the People's Counsel for the District of Columbia
Ohio Consumer's Counsel
Ohio Edison Company
Ohio Power Company
Ohio Valley Electric Corporation
OhmConnect, Inc.
Old Dominion Electric Cooperative
Olympus Power, LLC
Ontario Power Generation Energy Trading, Inc.
Ontario Power Generation Inc.
Ontelaunee Power Operating Company
Oregon Clean Energy, LLC
Orthogonal Energy, LLC
Osaka Gas USA Corporation
Owensboro Municipal Utilities
Oxbow Creek Energy LLC
Oxford Energy Services, LLC
Ozark International, Inc.
P.H. Glatfelter Company
Pacific Summit Energy LLC
Palmco Power DC, LLC
PALMco Power DE, LLC
Palmco Power IL, LLC

Palmco Power MD, LLC
Palmco Power NJ, LLC
Palmco Power OH, LLC
Palmco Power PA, LLC
PALMco Power VA, LLC
Panda Hummel Station LLC
Panda Liberty LLC
Panda Patriot LLC
Panda Stonewall LLC
Panther Creek Power Operating, LLC
Park Power LLC
Parma Energy LLC
PATH Allegheny Transmission Company, LLC
PATH West Virginia Transmission Company, LLC
Patton Wind Farm, LLC
Paulding Wind Farm II LLC
Paulding Wind Farm III LLC
PBF Power Marketing, LLC
PECO Energy Company
Pedricktown Cogeneration Company LP
PEI Power Corporation
PEI Power II, LLC
Peninsula Power, LLC
Penncat Corporation
Pennsylvania Electric Company
Pennsylvania Office of Consumer Advocate
Pennsylvania Power Company
Pennsylvania Renewable Resources, Associates
Pentacles Electric, LLLP
Pepco Energy Services, Inc.
Perigee Energy, LLC
PG Energy Services Inc. d/b/a/ PG Energy Power Plus
Philadelphia Energy Solutions Refining and Marketing LLC
Piedmont Energy Fund, L.P.
Pine Hill Energy LLC
Pinnacle Power LLC
PJLB LLC
PJS Capital, LLC
Plain Rights, LLC
Planet Energy (Maryland) Corp.
Planet Energy (Pennsylvania) Corp.
Planet Energy (USA) Corp.
Plant-E Corp.
Plutus Trading Company, LP
Portsmouth Genco, LLC
Potomac Edison Company (The) d/b/a Allegheny Power

Potomac Electric Power Company
Power Dave Fund LLC
Power Engineers, Incorporated
Power Generation Services, Inc.
Powerex Corporation
Power Supply Services, LLC
PPGI Fund A/B Development, LLC
PPL Electric Utilities Corporation dba PPL Utilities
Prairieland Energy, Inc.
Praxair, Inc.
Precept Power LLC
Procter & Gamble Paper Products Company (The)
Property Endeavors LLC
Providence Heights Wind, LLC
Provision Power and Gas, LLC
PSEG Energy Resources & Trade LLC
PSEG Energy Solutions LLC
PSEG Fossil LLC
PSEG Nuclear LLC
Public Power, LLC(CT)
Public Service Electric and Gas Company
Public Staff – North Carolina Utilities Commission
Pure Energy, Inc.
Quasar Energy Group, LLC
Raiden Commodities LP
Rainbow Energy Marketing Corporation
Rainbow Energy Ventures LLC
Raven Power Marketing LLC
RBC Energy Services LP
RC Cape May Holdings, LLC
Realgy, LLC
Recurrent Energy, LLC
Red Glen Energy LLC
Red Oak Power, LLC
Red Wolf Energy Trading, LLC
Red Wolf PT, LLC
Reliant Energy Northeast, LLC
Renaissance Power, LLC
Renaissance Power & Gas, Inc.
Renergy Inc.
Repsol Energy North America Corporation
RES America Developments Inc.
ResCom Energy, LLC
Residents Energy, L.L.C.
Respond Power, LLC
Richland-Stryker Generation LLC

RI-Corp. Development, Inc.
Ringer Hill Wind, LLC
Riverside Generating Company, L.L.C.
RJUMR Energy Partners Corp.
Robinson Power Company, LLC
Rochester Gas and Electric Corporation
Rock Island Clean Line LLC
Rockland Electric Company
Rolling Hills Generating, L.L.C.
Roth Rock Wind Farm, LLC
Roundtop Energy LLC
Royal Bank of Canada
RPA Energy, Inc.
R.R. Donnelley & Sons Company
RRI Energy Services, LLC
RRI Energy Solutions East, LLC
RTP Controls, Inc
Rushmore Energy, LLC (new).
S.J. Energy Partners, Inc.
Safe Harbor Water Power Corporation
Safeway Inc.
Santanna Energy Services
Sapphire Power Marketing LLC
Saracen Energy East LP
Saracen Energy Midwest LP
Saracen Energy West LP
Saracen Power LP
Saugatuck River Power Trading LLC
Schuylkill Energy Resources, Inc.
Scrubgrass Generating Company, L.P.
Scylla Energy LLC
SESCO ENTERPRISES LLC
Seven Islands Environmental Solutions, LLC
Severn River Power LLC
Seward Generation, LLC
SFE Energy Pennsylvania, Inc.
SFE Energy, Inc.
SFE Energy NJ, Inc.
Shell Energy North America (U.S.), L.P.
Shipley Choice LLC
Siemens Industry, Inc.
SmartEnergy Holdings, LLC
SNC-Lavalin Constructors, Inc.
Solea Energy, LLC
Solios Power Mid-Atlantic Trading, LLC
Solios Power Mid-Atlantic Virtual LLC

Source Power & Gas LLC
South Carolina Electric & Gas Company
South Field Energy LLC
South Jersey Energy Company
Southard Energy Partners LLC
Southeastern Chester County Refuse Authority
Southeastern Power Administration
Southern Indian Gas and Electric Company d/b/a Vectren Power Supply Inc.
Southern Maryland Electric Cooperative, Inc.
Southern Power Company
Southland Industries
Spark Energy, LLC
Sperian Energy Corp
Spring Energy RRH, LLC dba Spring Power & Gas
Star Energy Partners LLC
Starion Energy PA, Inc.
STATARB INVESTMENTS LLC
St. Joseph Energy Center, LLC
Stoney Creek Wind Farm, LLC
Strategic Transmission LLC
Stream Energy Columbia, LLC
Stream Energy Maryland, LLC
Stream Energy New Jersey, LLC
Stream Energy Pennsylvania, LLC
Strom Power, LLC
Suffolk Fund LLC
Summer Energy of Ohio LLC
SunCoke Energy, Inc
Sunico LLC
Susquehanna Nuclear, LLC
Sustaining Power Solutions LLC
Switch Energy, LLC
Syncarpha Solar, LLC
Talen Energy Marketing, LLC
Tangent Energy Solutions, Inc.
TAQA Gen X LLC
Targray Americas Inc.
Tatanka Wind Power, LLC
TEC Energy Inc.
TEC Trading, Inc.
Tenaska Pennsylvania Partners, LLC
Tenaska Power Management, LLC
Tenaska Power Services Co.
Tenaska Virginia Partners, L.P.
Tennessee Valley Authority (The)
TERM Power & Gas, LLC

Texas Retail Energy, LLC
The Hartz Group
The Highlands Energy Group, LLC
The Mobility House, LLC
THG Energy Solutions, LLC
Thurmont Municipal Light Company
Tilton Energy, LLC
Titan Gas and Power
Toledo Edison Company (The)
Torofino Trading, LLC
Town of Berlin, Maryland
Town of Front Royal, Virginia
Town of Williamsport
Town Square Energy East, LLC
TrailStone Power, LLC
Trans-Allegheny Interstate Line Company
TransAlta Energy Marketing (US) Inc.
TransCanada Power Marketing, Ltd.
TranSource, LLC
Transource Energy, LLC
Transource West Virginia, LLC
Tri-County Rural Electric Cooperative, Inc.
Trident Retail Energy, LLC
TriEagle Energy, LP
Triolith Energy Fund, LP
TrueLight Commodities, LLC
TrueLight Energy Fund, LP
Trumpet Trading Group, LLC
Trustees of the University of Pennsylvania
Twin Eagle Resource Management, LLC
Tyne Hill Investments LP
UGI Development Company
UGI Energy Services, LLC
UGI Utilities, Inc.
Uncia Energy LP – Series B
Union Electric Company d/b/a Ameren Missouri
Union Power Partners, L.P.
Uniper Global Commodities North America, LLC
University Park Energy, LLC
Valent Energy, LLC
VCharge, Inc.
VECO Power Trading, LLC
Vel Energy, LP
Velocity American Energy Master I, LP
Verde Energy USA DC, LLC
Verde Energy USA Illinois, LLC

Verde Energy USA Maryland, LLC
Verde Energy USA Ohio, LLC
Verde Energy USA, Inc.
Vineland Municipal Electric Utility
Virginia Division of Consumer Counsel
Virginia Electric and Power Company
Virginia State Corporation Commission
Viridian Energy PA, LLC
Viridity Energy, Inc.
Virtual Power Hedging, LLC
Vitol, Inc.
Voltus, Inc.
Wabash Valley Power Association, Inc.
Volunteer Energy Services, Inc.
Wellsboro Electric Company
West Chicago Battery Storage LLC
West Deptford Energy II, LLC
West Deptford Energy, LLC
West Oaks Energy, L.P.
West Penn Power Company d/b/a Allegheny Power
West Virginia Consumer Advocate Division
Westar Energy, Inc.
Western Reserve Energy Services, LLC
Westmoreland Partners
Weston Solutions, Inc.
Westwood Generation, LLC
WGL Energy Services, Inc.
Wheelabrator Baltimore, L.P.
Wheelabrator Falls Inc.
Wheelabrator Frackville Energy Co Inc.
Wheelabrator Gloucester Company, L.P.
Wheelabrator Portsmouth, Inc.
Wheeling Power Company
Wildcat Wind Farm I, LLC
Willey Battery Utility, LLC
Wisconsin Electric Power Company
Wisconsin Power and Light Company
WM Renewable Energy, LLC
Wolf Hills Energy, LLC
Wolverine Holdings, L.P.
Wolverine Power Supply Cooperative, Inc.
Wolverine Trading, LLC
WPPI Energy
Wyandot Solar LLC
Wylan Energy, L.L.C.
XO Energy CAL2 LP

XO Energy MA, LP
XO Energy MA2, LP
XO Energy NY2 LP
Xoom Energy Maryland, LLC
Xoom Energy New Jersey, LLC
XOOM Energy Ohio, LLC
XOOM Enegy Washington D.C., LLC
Xoom Energy, LLC
Yasmin Partners LLC
Yes Energy LLC
York County Solid Waste and Refuse Authority
York Generation Company LLC
York Haven Power Company, LLC
ZF Energy Development, LLC
Zongyi Solar America Co. Ltd.

Attachment C

Excerpts from
PJM OATT, Schedule 12 – Appendix

SCHEDULE 12 – APPENDIX

Required Transmission Enhancements, Responsible Customers And Associated Transmission Owner Revenue Requirements.

Required Transmission Enhancements that have been placed in service in PJM, the Transmission Owner(s) responsible for constructing and owning and/or financing such Required Transmission Enhancements, the Responsible Customers and the annual revenue requirement upon which Transmission Enhancement Charges determined in accordance with section (c) of Schedule 12 are based, are set forth below. Unless otherwise stated, all designations of Responsible Customers refer collectively to all Firm Point-to-Point Transmission Service and Network Integration Transmission Service customers in each indicated Zone and state the proportional (percentage) cost responsibility allocated to the indicated customers in each Zone. Zones are identified using the short names stated in Attachment J to the Tariff.

SCHEDULE 12 – APPENDIX

(2) Baltimore Gas and Electric Company

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0152	Add (2) 230 kV Breakers at High Ridge and install two Northwest 230 kV 120 MVAR capacitors		BGE (100%)
b0244	Install a 4th Waugh Chapel 500/230kV transformer, terminate the transformer in a new 500 kV bay and operate the existing in-service spare transformer on standby		BGE (85.56%) / ME (0.83%) / PEPCO (13.61%)
b0298	Replace both Conastone 500/230 kV transformers with larger transformers	As specified in Attachment H-2A, Attachment 7, the Transmission Enhancement Charge Worksheet	BGE (75.85%) / Dominion (11.54%) / ME (4.73%) / PEPCO (7.88%)
b0298.1	Replace Conastone 230 kV breaker 500-3/2323		BGE (100%)
b0474	Add a fourth 230/115 kV transformer, two 230 kV circuit breakers and a 115 kV breaker at Waugh Chapel		BGE (100%)
b0475	Create two 230 kV ring buses at North West, add two 230/ 115 kV transformers at North West and create a new 115 kV station at North West		BGE (100%)
b0476	Rebuild High Ridge 230 kV substation to Breaker and Half configuration		BGE (100%)
b0477	Replace the Waugh Chapel 500/230 kV transformer #1 with three single phase transformers		BGE (90.56%) / ME (1.51%) / PECO (.92%) / PEPCO (4.01%) / PPL (3.00%)
b0497	Install a second Conastone – Graceton 230 kV circuit		AEC (8.96%) / ConEd (0.49%) / DPL (16.77%) / JCPL (9.59%) / ME (1.47%) / Neptune* (0.94%) / PECO (30.64%) / PPL (16.33%) / ECP** (0.29%) / PSEG (14.00%) / RE (0.52%)

* Neptune Regional Transmission System, LLC

** East Coast Power, L.L.C.

Baltimore Gas and Electric Company (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0500.2	Replace wavetrap and raise operating temperature on Conastone – Otter Creek 230 kV line to 165 deg		AEC (6.27%) / DPL (8.65 %) / JCPL (14.54%) / ME (10.59%) / Neptune* (1.37%) / PECO (15.66%) / PPL (21.02%) / ECP** (0.57%) / PSEG (20.56%) / RE (0.77%)
b0729	Rebuild both Harford – Perryman 110615-A and 110616-A 115 kV circuits		BGE (100%)
b0749	Replace 230 kV breaker and associated CT's at Riverside 230 kV on 2345 line; replace all dead-end structures at Brandon Shores, Hawkins Point, Sollers Point and Riverside; Install a second conductor per phase on the spans entering each station		BGE (100%)
b0795	Install a 115 kV breaker at Chesaco Park		BGE (100%)
b0796	Install 2, 115 kV breakers at Gwynnbrook		BGE (100%)
b0819	Remove line drop limitations at the substation terminations for Gwynnbrook – Mays Chapel 115 kV		BGE (100%)
b0820	Remove line drop limitations at the substation terminations and replace switch for Delight – Gwynnbrook 115 kV		BGE (100%)
b0821	Remove line drop limitations at the substation terminations for Northwest – Delight 115 kV		BGE (100%)
b0822	Remove line drop limitations at the substation terminations for Gwynnbrook – Sudbrook 115 kV		BGE (100%)
b0823	Remove line drop limitations at the substation terminations for Windy Edge – Texas 115 kV		BGE (100%)

* Neptune Regional Transmission System, LLC

** East Coast Power, L.L.C.

Baltimore Gas and Electric Company (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b1251.1	Re-build the existing Raphael – Bagley 230 kV	APS (4.42%) / BGE (66.95%) / ComEd (4.12%) / Dayton (0.49%) / Dominion (18.76%) / PENELEC (0.05%) / PEPCO (5.21%)
b1252	Upgrade terminal equipment (remove terminal limitation at Pumphrey Tap to bring the circuit to 790N/941E	BGE (100%)
b1253	Replace the existing Northeast 230/115 kV transformer #3 with 500 MVA	BGE (100%)
b1253.1	Replace the Northeast 230 kV breaker '2317/315'	BGE (100%)
b1253.2	Revise reclosing on Windy Edge 115 kV breaker '110515'	BGE (100%)
b1253.3	Revise reclosing on Windy Edge 115 kV breaker '110516'	BGE (100%)
b1253.4	Revise reclosing on Windy Edge 115 kV breaker '110517'	BGE (100%)
b1254	Build a new 500/230 kV substation (Emory Grove)	APS (4.07%) / BGE (53.19%) / ComEd (3.71%) / Dayton (0.50%) / Dominion (16.44%) / PENELEC (0.59%) / PEPCO (21.50%)
b1254.1	Bundle the Emory – North West 230 kV circuits	BGE (100%)
b1267	Rebuild existing Erdman 115 kV substation to a dual ring-bus configuration to enable termination of new circuits	BGE (100%)
b1267.1	Construct 115 kV double circuit underground line from existing Coldspring to Erdman substation	BGE (100%)
b1267.2	Replace Mays Chapel 115 kV breaker '110515A'	BGE (100%)
b1267.3	Replace Mays Chapel 115 kV breaker '110579C'	BGE (100%)

PECO Energy Company (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1339	Replace Printz 230 kV breaker '315'		PECO (100%)
b1340	Replace Printz 230 kV breaker '215'		PECO (100%)
b1398.6	Reconductor the Camden – Richmond 230 kV circuit (PECO portion) and upgrade terminal equipments at Camden substations		JCPL (12.82%) / NEPTUNE (1.18%) / HTP (0.79%) / PECO (51.08%) / PEPCO (0.57%) / ECP** (0.85%) / PSEG (31.46%) / RE (1.25%)
b1398.8	Reconductor Richmond – Waneeta 230 kV and replace terminal equipments at Richmond and Waneeta substations		JCPL (12.82%) / NEPTUNE (1.18%) / HTP (0.79%) / PECO (51.08%) / PEPCO (0.57%) / ECP** (0.85%) / PSEG (31.46%) / RE (1.25%)
b1398.12	Replace Graysferry 230 kV breaker '115'		PECO (100%)
b1398.13	Upgrade Peach Bottom 500 kV breaker '225'		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)†
b1398.14	Replace Whitpain 230 kV breaker '105'		PECO (100%)
b1590.1	Upgrade the PECO portion of the Camden – Richmond 230 kV to a six wire conductor and replace terminal equipment at Richmond.		BGE (3.05%) / ME (0.83%) / HTP (0.21%) / PECO (91.36%) / PEPCO (1.93%) / PPL (2.46%) / ECP** (0.16%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.
*** Hudson Transmission Partners, LLC

PECO Energy Company (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1591	Reconductor the underground portion of the Richmond – Waneeta 230 kV and replace terminal equipment		BGE (4.54%) / DL (0.27%) / ME (1.04%) / HTP (0.03%) / PECO (88.08%) / PEPCO (2.79%) / PPL (3.25%)
b1717	Install a second Waneeta 230/138 kV transformer on a separate bus section		HTP (0.04%) / PECO (99.96%)
b1718	Reconductor the Crescentville - Foxchase 138 kV circuit		PECO (100%)
b1719	Reconductor the Foxchase - Bluegrass 138 kV circuit		PECO (100%)
b1720	Increase the effective rating of the Eddystone 230/138 kV transformer by replacing a circuit breaker at Eddystone		PECO (100%)
b1721	Increase the rating of the Waneeta - Tuna 138 kV circuit by replacing two 138 kV CTs at Waneeta		PECO (100%)
b1722	Increase the normal rating of the Cedarbrook - Whitemarsh 69 kV circuit by changing the CT ratio and replacing station cable at Whitemarsh 69 kV		PECO (100%)
b1768	Install 39 MVAR capacitor at Cromby 138 kV bus		PECO (100%)
b1900	Add a 3rd 230 kV transmission line between Chichester and Linwood substations and remove the Linwood SPS		PECO (69.62%) / JCPL (6.02%) / ATSI (1.23%) / PSEG (20.83%) / RE (0.83%) / NEPTUNE* (0.59%) / ECP** (0.45%) / HTP (0.43%)
b2140	Install a 3rd Emilie 230/138 kV transformer		PECO (97.04%) / ECP** (1.62%) / HTP (1.34%)
b2145	Replace two sections of conductor inside Richmond substation		PECO (100%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.

PPL Electric Utilities Corporation (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0284.2	Replace two wave traps at Juniata 500 kV – on the two Juniata – Airydale 500 kV		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b0284.4	Changes at Juniata 500 kV substation		PPL (100%)
b0293.1	Replace wavetrap at the Martins Creek 230 kV bus		PPL (100%)
b0293.2	Raise the operating temperature of the 2-1590 ACSR to 140C for the Martins Creek – Portland 230 kV circuit		PPL (100%)
b0440	Spare Juniata 500/230 kV transformer		PPL (100%)
b0468	Build a new substation with two 150 MVA transformers between Dauphin and Hummelstown 230/69 kV substations by sectionalizing the Middletown Junction – New Lebanon 230 kV line		JCPL (4.55%) / Neptune* (0.37%) / PECO (1.79%) / PENELEC (0.33%) / PPL (86.63%) / ECP** (0.18%) / PSEG (5.93%) / RE (0.22%)
b0469	Install 130 MVAR capacitor at West Shore 230 kV line		PPL (100%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.
*** Hudson Transmission Partners, LLC

PPL Electric Utilities Corporation (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0487	Build new 500 kV transmission facilities from Susquehanna to Pennsylvania – New Jersey border at Bushkill		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b0487.1	Install Lackawanna 500/230 kV transformer and upgrade 230 kV substation and switchyard		PENELEC (16.90%) / PPL (77.59%) / ECP** (0.19%) / PSEG (5.13%) / RE (0.19%)
b0500.1	Conastone – Otter Creek 230 kV – Reconductor approximately 17.2 miles of 795 kcmil ACSR with new 795 kcmil ACSS operated at 160 deg C		AEC (6.27%) / DPL (8.65%) / JCPL (14.54%) / ME (10.59%) / Neptune* (1.37%) / PECO (15.66%) / PPL (21.02%) / ECP** (0.57%) / PSEG (20.56%) / RE (0.77%)

*Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.
*** Hudson Transmission Partners, LLC

The Annual Revenue Requirements associated with the Transmission Enhancement Charges are set forth and determined in Appendix A to Attachment H-8G.

PPL Electric Utilities Corporation (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0712	Construct a new 69 kV line between Strassburg Tap and the Millwood – Engleside 69 kV #1 line		PPL (100%)
b0713	Construct a new 138 kV double circuit line between Dillersville Tap and the West Hempfield – Prince 138 kV line		PPL (100%)
b0714	Prepare Roseville Tap for 138 kV conversion		PPL (100%)
b0715	Transfer S. Akron – S. Manheim #1 and #2 lines from the S. Akron 69 kV Yard to the S. Akron 138 kV Yard; Install switches on S. Akron – S. Manheim 138 kV #1 and #2 lines		PPL (100%)
b0716	Add a second 69 kV line from Morgantown – Twin Valley		PPL (100%)
b0717	Rebuild existing Brunner Island – West Shore 230 kV line and add a second Brunner Island – West Shore 230 kV line		PPL (100%)
b0718	SPS scheme to drop 190 MVA of 69 kV radial load at West Shore and 56 MVA of 69 kV radial load at Cumberland		PPL (100%)
b0719	SPS scheme at Jenkins substation to open the Stanton #1 and Stanton #2 230 kV circuit breakers after the second contingency		PPL (100%)
b0791	Add a fourth 230/69 kV transformer at Stanton		PENELEC (9.55%) / PPL (90.45%)

PPL Electric Utilities Corporation (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b2004	Replace the CTs and switch in South Akron Bay 4 to increase the rating		PPL (100%)
b2005	Replace the CTs and switch in SAKR Bay 3 to increase the rating of the Millwood-South Akron 230 kV Line and of the rating in Bay 3		PPL (100%)
b2006	Install North Lancaster 500/230 kV substation (below 500 kV portion)		AEC (1.10%) / ECP** (0.37%) / HTP (0.37%) / JCPL (9.61%) / ME (19.42%) / Neptune* (0.75%) / PECO (6.01%) / PPL (50.57%) / PSEG (11.35%) / RE (0.45%)
b2006.1	Install North Lancaster 500/230 kV substation (500 kV portion)		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b2007	Install a 90 MVAR capacitor bank at the Frackville 230 kV Substation		PPL (100%)
b2158	Install 10.8 MVAR capacitor at West Carlisle 69/12 kV substation		PPL (100%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.
*** Hudson Transmission Partners, LLC

SCHEDULE 12 – APPENDIX

(10) Potomac Electric Power Company

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0146	Installation of (2) new 230 kV circuit breakers at Quince Orchard substation on circuits 23028 and 23029		PEPCO (100%)
b0219	Install two new 230 kV circuits between Palmers Corner and Blue Plains		PEPCO (100%)
b0228	Upgrade Burtonsville – Sandy Springs 230 kV circuit		PEPCO (100%)
b0238.1	Modify Dickerson Station H 230 kV		PEPCO (100%)
b0251	Install 100 MVAR of 230 kV capacitors at Bells Mill		PEPCO (100%)
b0252	Install 100 MVAR of 230 kV capacitors at Bells Mill		PEPCO (100%)
b0288	Brighton Substation – add 2nd 1000 MVA 500/230 kV transformer, 2 500 kV circuit breakers and miscellaneous bus work		BGE (19.33%) / Dominion (17%) / PEPCO (63.67%)
b0319	Add a second 1000 MVA Bruches Hill 500/230 kV transformer		PEPCO (100%)
b0366	Install a 4th Ritchie 230/69 kV transformer		PEPCO (100%)
b0367.1	Reconductor circuit "23035" for Dickerson – Quince Orchard 230 kV		AEC (1.78%) / BGE (26.52%) / DPL (3.25%) / JCPL (2.67%) / ME (1.16%) / Neptune* (0.25%) / PECO (4.79%) / PEPCO (52.46%) / PPL (3.23%) / PSEG (3.81%) / ECP** (0.08%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.

The Annual Revenue Requirement associated with the Transmission Enhancement Charges are set forth and determined in Appendix A to Attachment H-9.

Potomac Electric Power Company (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0367.2	Reconductor circuit "23033" for Dickerson – Quince Orchard 230 kV		AEC (1.78%) / BGE (26.52%) / DPL (3.25%) / JCPL (2.67%) / ME (1.16%) / Neptune* (0.25%) / PECO (4.79%) / PEPCO (52.46%) / PPL (3.23%) / PSEG (3.81%) / ECP** (0.08%)
b0375	Install 0.5% reactor at Dickerson on the Pleasant View – Dickerson 230 kV circuit		AEC (1.02%) / BGE (25.42%) / DPL (2.97%) / ME (1.72%) / PECO (3.47%) / PEPCO (65.40%)
b0467.1	Reconductor the Dickerson – Pleasant View 230 kV circuit		AEC (1.75%) / APS (19.66%) / BGE (22.09%) / ConEd (0.18%) / DPL (3.69%) / JCPL (0.71%) / ME (2.48%) / Neptune* (0.06%) / PECO (5.53%) / PEPCO (41.78%) / PPL (2.07%)
b0478	Reconductor the four circuits from Burches Hill to Palmers Corner		APS (1.68%) / BGE (1.83%) / PEPCO (96.49%)
b0496	Replace existing 500/230 kV transformer at Brighton		APS (5.67%) / BGE (29.68%) / Dominion (10.91%) / PEPCO (53.74%)
b0499	Install third Burches Hill 500/230 kV transformer		APS (3.54%) / BGE (7.31%) / PEPCO (89.15%)
b0512	MAPP Project – install new 500 kV transmission from Possum Point to Calvert Cliffs and install a DC line from Calvert Cliffs to Vienna and a DC line from Calvert Cliffs to Indian River		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)

*Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.
*** Hudson Transmission Partners, LLC

The Annual Revenue Requirement associated with the Transmission Enhancement Charges are set forth and determined in Appendix A to Attachment H-9.

Potomac Electric Power Company (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0512.28	Advance n0793 (Replace Chalk Point 230 Kv breaker (6C) with 80 kA breaker)		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b0512.29	Advance n0794 (Replace Chalk Point 230 Kv breaker (7C) with 80 kA breaker)		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b0526	Build two Ritchie – Benning Station A 230 kV lines		AEC (0.77%) / BGE (16.76%) / DPL (1.22%) / JCPL (1.39%) / ME (0.59%) / Neptune* (0.13%) / PECO (2.10%) / PEPCO (74.86%) / PSEG (2.10%) / RE (0.08%)
b0561	Install 300 MVAR capacitor at Dickerson Station "D" 230 kV substation		AEC (8.58%) / APS (1.69%) / DPL (12.24%) / JCPL (18.16%) / ME (1.55%) / Neptune* (1.77%) / PECO (21.78%) / PPL (6.40%) / ECP** (0.73%) / PSEG (26.13%) / RE (0.97%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C
*** Hudson Transmission Partners, LLC

Potomac Electric Power Company (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0562	Install 500 MVAR capacitor at Brighton 230 kV substation		AEC (8.58%) / APS (1.69%) / DPL (12.24%) / JCPL (18.16%) / ME (1.55%) / Neptune* (1.77%) / PECO (21.78%) / PPL (6.40%) / ECP** (0.73%) / PSEG (26.13%) / RE (0.97%)
b0637	Replace 13 Oak Grove 230 kV breakers		PEPCO (100%)
b0638	Replace 13 Oak Grove 230 kV breakers		PEPCO (100%)
b0639	Replace 13 Oak Grove 230 kV breakers		PEPCO (100%)
b0640	Replace 13 Oak Grove 230 kV breakers		PEPCO (100%)
b0641	Replace 13 Oak Grove 230 kV breakers		PEPCO (100%)
b0642	Replace 13 Oak Grove 230 kV breakers		PEPCO (100%)
b0643	Replace 13 Oak Grove 230 kV breakers		PEPCO (100%)
b0644	Replace 13 Oak Grove 230 kV breakers		PEPCO (100%)
b0645	Replace 13 Oak Grove 230 kV breakers		PEPCO (100%)
b0646	Replace 13 Oak Grove 230 kV breakers		PEPCO (100%)
b0647	Replace 13 Oak Grove 230 kV breakers		PEPCO (100%)
b0648	Replace 13 Oak Grove 230 kV breakers		PEPCO (100%)
b0649	Replace 13 Oak Grove 230 kV breakers		PEPCO (100%)
b0701	Expand Benning 230 kV station, add a new 250 MVA 230/69 kV transformer at Benning Station ‘A’, new 115 kV Benning switching station		BGE (30.57%) / PEPCO (69.43%)
b0702	Add a second 50 MVAR 230 kV shunt reactor at the Benning 230 kV substation		PEPCO (100%)
b0720	Upgrade terminal equipment on both lines		PEPCO (100%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.

Potomac Electric Power Company (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1592	Reconductor the Oak Grove – Bowie 230 kV circuit and upgrade terminal equipments at Oak Grove and Bowie 230 kV substations		AEC (2.39%) / APS (3.82%) / BGE (65.72%) / DPL (4.43%) / JCPL (3.93%) / ME (2.16%) / Neptune* (0.39%) / HTP (0.10%) / PECO (8.35%) / PPL (2.83%) / ECP** (0.13%) / PSEG (5.53%) / RE (0.22%)
b1593	Reconductor the Bowie - Burtonsville 230 kV circuit and upgrade terminal equipments at Bowie and Burtonsville 230 kV substations		AEC (2.39%) / APS (3.82%) / BGE (65.72%) / DPL (4.43%) / JCPL (3.93%) / ME (2.16%) / Neptune* (0.39%) / HTP (0.10%) / PECO (8.35%) / PPL (2.83%) / ECP** (0.13%) / PSEG (5.53%) / RE (0.22%)
b1594	Reconductor the Oak Grove – Bowie 230 kV '23042' circuit and upgrade terminal equipments at Oak Grove and Bowie 230 kV substations		AEC (2.38%) / APS (3.84%) / BGE (65.72%) / DPL (4.44%) / JCPL (3.93%) / ME (2.16%) / Neptune* (0.39%) / HTP (0.10%) / PECO (8.33%) / PPL (2.83%) / ECP** (0.13%) / PSEG (5.53%) / RE (0.22%)
b1595	Reconductor the Bowie – Burtonsville 230 kV '23042' circuit and upgrade terminal equipments at Oak Grove and Burtonsville 230 kV substations		AEC (2.38%) / APS (3.84%) / BGE (65.72%) / DPL (4.44%) / JCPL (3.93%) / ME (2.16%) / Neptune* (0.39%) / HTP (0.10%) / PECO (8.33%) / PPL (2.83%) / ECP** (0.13%) / PSEG (5.53%) / RE (0.22%)
b1596	Reconductor the Dickerson station "H" – Quince Orchard 230 kV '23032' circuit and upgrade terminal equipments at Dickerson station "H" and Quince Orchard 230 kV substations		AEC (0.80%) / BGE (33.68%) / DPL (2.09%) / PECO (3.07%) / PEPCO (60.36%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0172.2	Replace wave trap at Branchburg 500kV substation		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b0184	Replace Hudson 230kV circuit breakers #1-2		PSEG (100%)
b0185	Replace Deans 230kV circuit breakers #9-10		PSEG (100%)
b0186	Replace Essex 230kV circuit breaker #5-6		PSEG (100%)
b1082	Install 230/138 kV transformer at Bergen substation		PENELEC (16.52%) / PSEG (80.29%) / RE (3.19%)

* Neptune Regional Transmission System, LLC
** East Coast Power, L.L.C.
*** Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b489.2	Replace Bergen 230 kV breaker 10H		PSEG (100%)
b489.3	Replace Saddlebrook 230 kV breaker 21P		PSEG (100%)
b0489.4	Install two Roseland 500/230 kV transformers as part of the Susquehanna – Roseland 500 kV project		AEC (5.07%) / ComEd (0.29%) / ConEd (0.48%) / Dayton (0.03%) / DPL (1.75%) / JCPL (32.57%) / Neptune* (6.29%) / PECO (9.99%) / PENELEC (0.56%) / ECP** (0.95%) / PSEG (40.51%) / RE (1.51%) ††
b0489.5	Replace Roseland 230 kV breaker '42H' with 80 kA		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b0489.6	Replace Roseland 230 kV breaker '51H' with 80 kA		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)

* Neptune Regional Transmission System, LLC

** East Coast Power, L.L.C.

*** Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0814	New Essex – Kearney 138 kV circuit and Kearney 138 kV bus tie		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.1	Replace Kearny 138 kV breaker '1-SHT' with 80 kA breaker		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.2	Replace Kearny 138 kV breaker '15HF' with 80 kA breaker		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.3	Replace Kearny 138 kV breaker '14HF' with 80 kA breaker		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.4	Replace Kearny 138 kV breaker '10HF' with 80 kA breaker		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.5	Replace Kearny 138 kV breaker '2HT' with 80 kA breaker		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.6	Replace Kearny 138 kV breaker '22HF' with 80 kA breaker		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.7	Replace Kearny 138 kV breaker '4HT' with 80 kA breaker		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.8	Replace Kearny 138 kV breaker '25HF' with 80 kA breaker		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)

*Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0814.9	Replace Essex 138 kV breaker '2LM' with 63 kA breaker and 2.5 cycle contact parting time		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.10	Replace Essex 138 kV breaker '1BT' with 63 kA breaker and 2.5 cycle contact parting time		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.11	Replace Essex 138 kV breaker '2PM' with 63 kA breaker and 2.5 cycle contact parting time		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.12	Replace Marion 138 kV breaker '2HM' with 63 kA breaker		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.13	Replace Marion 138 kV breaker '2LM' with 63 kA breaker		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.14	Replace Marion 138 kV breaker '1LM' with 63 kA breaker		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.15	Replace Marion 138 kV breaker '6PM' with 63 kA breaker		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.16	Replace Marion 138 kV breaker '3PM' with 63 kA breaker		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.17	Replace Marion 138 kV breaker '4LM' with 63 kA breaker		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)

*Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0814.18	Replace Marion 138 kV breaker '3LM' with 63 kA breaker		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.19	Replace Marion 138 kV breaker '1HM' with 63 kA breaker		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.20	Replace Marion 138 kV breaker '2PM3' with 63 kA breaker		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.21	Replace Marion 138 kV breaker '2PM1' with 63 kA breaker		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.22	Replace ECRR 138 kV breaker '903'		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.23	Replace Foundry 138 kV breaker '21P'		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.24	Change the contact parting time on Essex 138 kV breaker '3LM' to 2.5 cycles		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.25	Change the contact parting time on Essex 138 kV breaker '2BM' to 2.5 cycles		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)

*Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0814.26	Change the contact parting time on Essex 138 kV breaker '1BM' to 2.5 cycles		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.27	Change the contact parting time on Essex 138 kV breaker '3PM' to 2.5 cycles		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.28	Change the contact parting time on Essex 138 kV breaker '4LM' to 2.5 cycles		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.29	Change the contact parting time on Essex 138 kV breaker '1PM' to 2.5 cycles		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)
b0814.30	Change the contact parting time on Essex 138 kV breaker '1LM' to 2.5 cycles		JCPL (23.49%) / NEPTUNE* (1.61%) / PENELEC (5.37%) / PSEG (67.03%) / RE (2.50%)

*Neptune Regional Transmission System, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0830.3	Replace Roseland 230 kV breaker '22H' with 80 kA		PSEG (100%)
b0831	Replace 138/13 kV transformers with 230/13 kV units as part of Branchburg – Hudson 500 kV project		ComEd (2.51%) / Dayton (0.09%) / PENELEC (2.75%) / ECP** (2.45%) / PSEG (88.74%) / RE (3.46%)
b0832	Build Hudson 500 kV switching station as part of Branchburg – Hudson 500 kV project		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b0833	Build Roseland 500 kV switching station as part of Branchburg – Hudson 500 kV project		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)

*Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C..
*** Hudson Transmission Partners, LLC

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0834	Convert the E-1305/F-1306 to one 230 kV circuit as part of Branchburg – Hudson 500 kV project		ComEd (2.51%) / Dayton (0.09%) / PENELEC (2.75%) / ECP** (2.45%) / PSEG (88.74%) / RE (3.46%)
b0835	Build Hudson 230 kV transmission lines as part of Roseland – Hudson 500 kV project as part of Branchburg – Hudson 500 kV project		ComEd (2.51%) / Dayton (0.09%) / PENELEC (2.75%) / ECP** (2.45%) / PSEG (88.74%) / RE (3.46%)
b0836	Install transformation at new Hudson 500 kV switching station and perform Hudson 230 kV and 345 kV station work as part of Branchburg – Hudson 500 kV project		ComEd (2.51%) / Dayton (0.09%) / PENELEC (2.75%) / ECP** (2.45%) / PSEG (88.74%) / RE (3.46%)
b0882	Replace Hudson 230 kV breaker 1HA with 80 kA		PSEG (100%)
b0883	Replace Hudson 230 kV breaker 2HA with 80 kA		PSEG (100%)
b0884	Replace Hudson 230 kV breaker 3HB with 80 kA		PSEG (100%)
b0885	Replace Hudson 230 kV breaker 4HA with 80 kA		PSEG (100%)
b0886	Replace Hudson 230 kV breaker 4HB with 80 kA		PSEG (100%)
b0889	Replace Bergen 230 kV breaker '21H'		PSEG (100%)
b0890	Upgrade New Freedom 230 kV breaker '21H'		PSEG (100%)
b0891	Upgrade New Freedom 230 kV breaker '31H'		PSEG (100%)
b0899	Replace ECRR 138 kV breaker 901		PSEG (100%)
b0900	Replace ECRR 138 kV breaker 902		PSEG (100%)

**East Coast Power, L.L.C.

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1156.14	Replace Camden 230 kV breaker '32H' with 80 kA		PSEG (100%)
b1156.15	Replace Camden 230 kV breaker '21H' with 80 kA		PSEG (100%)
b1156.16	Replace New Freedom 230 kV breaker '50H' with 63 kA		PSEG (100%)
b1156.17	Replace New Freedom 230 kV breaker '41H' with 63 kA		PSEG (100%)
b1156.18	Replace New Freedom 230 kV breaker '51H' with 63 kA		PSEG (100%)
b1156.19	Rebuild Camden 230 kV to 80 kA		PSEG (100%)
b1156.20	Rebuild Burlington 230 kV to 80 kA		PSEG (100%)
b1197.1	Reconductor the PSEG portion of the Burlington – Croydon circuit with 1590 ACSS		PSEG (100%)
b1228	Re-configure the Lawrence 230 kV substation to breaker and half		HTP (0.14%) / ECP (0.22%) / PSEG (95.83%) / RE (3.81%)
b1255	Build a new 69 kV substation (Ridge Road) and build new 69 kV circuits from Montgomery – Ridge Road – Penns Neck/Dow Jones		PSEG (96.18%) / RE (3.82%)
b1304.1	Convert the existing ‘D1304’ and ‘G1307’ 138 kV circuits between Roseland – Kearny – Hudson to 230 kV operation		AEC (0.21%) / BGE (0.88%) / ComEd (2.11%) / ConEd (9.05%) / Dayton (0.12%) / JCPL (1.06%) / Neptune (0.06%) / HTP (14.60%) / PENELEC (2.70%) / PEPCO (0.95%) / ECP (1.92%) / PSEG (63.81%) / RE (2.53%)

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1304.2	Expand existing Bergen 230 kV substation and reconfigure the Athenia 230 kV substation to breaker and a half scheme		AEC (0.21%) / BGE (0.88%) / ComEd (2.11%) / ConEd (9.05%) / Dayton (0.12%) / JCPL (1.06%) / Neptune (0.06%) / HTP (14.60%) / PENELEC (2.70%) / PEPCO (0.95%) / ECP (1.92%) / PSEG (63.81%) / RE (2.53%)
b1304.3	Build second 230 kV underground cable from Bergen to Athenia		AEC (0.21%) / BGE (0.88%) / ComEd (2.11%) / ConEd (9.05%) / Dayton (0.12%) / JCPL (1.06%) / Neptune (0.06%) / HTP (14.60%) / PENELEC (2.70%) / PEPCO (0.95%) / ECP (1.92%) / PSEG (63.81%) / RE (2.53%)
b1304.4	Build second 230 kV underground cable from Hudson to South Waterfront		AEC (0.21%) / BGE (0.88%) / ComEd (2.11%) / ConEd (9.05%) / Dayton (0.12%) / JCPL (1.06%) / Neptune (0.06%) / HTP (14.60%) / PENELEC (2.70%) / PEPCO (0.95%) / ECP (1.92%) / PSEG (63.81%) / RE (2.53%)
b1304.5	Replace Athenia 230 kV breaker '21H' with 80 kA		PSEG (100%)
b1304.6	Replace Athenia 230 kV breaker '41H' with 80 kA		PSEG (100%)
b1304.7	Replace South Waterfront 230 kV breaker '12H' with 80 kA		PSEG (100%)
b1304.8	Replace South Waterfront 230 kV breaker '22H' with 80 kA		PSEG (100%)
b1304.9	Replace South Waterfront 230 kV breaker '32H' with 80 kA		PSEG (100%)
b1304.10	Replace South Waterfront 230 kV breaker '52H' with 80 kA		PSEG (100%)

Public Service Electric and Gas Company (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1539	Replace Tosco 230 kV breaker 'CB1' with 63 kA		PSEG (100%)
b1540	Replace Tosco 230 kV breaker 'CB2' with 63 kA		PSEG (100%)
b1541	Open the Hudson 230 kV bus tie		PSEG (100%)
b1588	Reconductor the Eagle Point - Gloucester 230 kV circuit #1 and #2 with higher conductor rating		JCPL (10.31%) / Neptune* (0.98%) / HTP (0.75%) / PECO (30.81%) / ECP** (0.82%) / PSEG (54.17%) / RE (2.16%)
b1589	Re-configure the Kearny 230 kV substation and loop the P-2216-1 (Essex - NJT Meadows) 230 kV circuit		ATSI (8.00%) / HTP (20.18%) / PENELEC (7.77%) / PSEG (61.59%) / RE (2.46%)
b1590	Upgrade the PSEG portion of the Camden Richmond 230 kV circuit to six wire conductor and replace terminal equipment at Camden		BGE (3.05%) / ME (0.83%) / HTP (0.21%) / PECO (91.36%) / PEPCO (1.93%) / PPL (2.46%) / ECP** (0.16%)
b1749	Advance n1237 (Replace Essex 230 kV breaker '22H' with 80kA)		PSEG (100%)
b1750	Advance n0666.5 (Replace Hudson 230 kV breaker '1HB' with 80 kA (without TRV cap, so actually 63 kA))		PSEG (100%)
b1751	Advance n0666.3 (Replace Hudson 230 kV breaker '2HA' with 80 kA (without TRV cap, so actually 63 kA))		PSEG (100%)
b1752	Advance n0666.10 (Replace Hudson 230 kV breaker '2HB' with 80 kA (without TRV cap, so actually 63 kA))		PSEG (100%)

*Neptune Regional Transmission System, LLC
**East Coast Power, L.L.C.

SCHEDULE 12 – APPENDIX

(14) Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0216	Install -100/+525 MVAR dynamic reactive device at Black Oak	As specified under the procedures detailed in Attachment H-18B, Section 1.b	AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b0218	Install third Wylie Ridge 500/345kV transformer	As specified under the procedures detailed in Attachment H-18B, Section 1.b	AEC (11.62%) / ConEd (1.79%) / DPL (19.05%) / Dominion (13.56%) / JCPL (15.28%) / PECO (38.70%)
b0220	Upgrade coolers on Wylie Ridge 500/345 kV #7		AEC (11.62%) / ConEd (1.79%) / DPL (19.05%) / Dominion (13.56%) / JCPL (15.28%) / PECO (38.70%)
b0229	Install fourth Bedington 500/138 kV		APS (50.98%) / BGE (13.42%) / DPL (2.03%) / Dominion (14.50%) / ME (1.43%) / PEPCO (17.64%)
b0230	Install fourth Meadowbrook 500/138 kV	As specified under the procedures detailed in Attachment H-18B, Section 1.b	APS (79.16%) / BGE (3.61%) / DPL (0.86%) / Dominion (11.75%) / ME (0.67%) / PEPCO (3.95%)

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Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0328.2	Build new Meadow Brook – Loudoun 500 kV circuit (20 of 50 miles)	As specified under the procedures detailed in Attachment H-18B, Section 1.b	AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b0343	Replace Doubs 500/230 kV transformer #2	As specified under the procedures detailed in Attachment H-18B, Section 1.b	AEC (1.85%) / BGE (21.49%) / DPL (3.91%) / Dominion (28.86%) / ME (2.97%) / PECO (5.73%) / PEPCO (35.19%)
b0344	Replace Doubs 500/230 kV transformer #3	As specified under the procedures detailed in Attachment H-18B, Section 1.b	AEC (1.86%) / BGE (21.50%) / DPL (3.91%) / Dominion (28.82%) / ME (2.97%) / PECO (5.74%) / PEPCO (35.20%)
b0345	Replace Doubs 500/230 kV transformer #4	As specified under the procedures detailed in Attachment H-18B, Section 1.b	AEC (1.85%) / BGE (21.49%) / DPL (3.90%) / Dominion (28.83%) / ME (2.98%) / PECO (5.75%) / PEPCO (35.20%)
b0347.1	Build new Mt. Storm – 502 Junction 500 kV circuit	As specified under the procedures detailed in Attachment H-18B, Section 1.b	AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)

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Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0347.32	Replace Meadowbrook 138 kV breaker 'MD-9'		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b0347.33	Replace Meadow Brook 138kV breaker 'MD-1'		APS (100%)
b0347.34	Replace Meadow Brook 138kV breaker 'MD-2'		APS (100%)
b0348	Upgrade Stonewall – Inwood 138 kV with 954 ACSR conductor		APS (100%)
b0373	Convert Doubs – Monocacy 138 kV facilities to 230 kV operation		AEC (1.82%) / APS (76.84%) / DPL (2.64%) / JCPL (4.53%) / ME (9.15%) / Neptune* (0.42%) / PPL (4.60%)
b0393	Replace terminal equipment at Harrison 500 kV and Belmont 500 kV		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b0406.1	Replace Mitchell 138 kV breaker "#4 bank"		APS (100%)

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Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0590	Replace #1 and #2 breakers at Charleroi 138 kV		APS (100%)
b0591	Install a 25.2 MVAR capacitor at Seneca Caverns 138 kV		APS (100%)
b0673	Rebuild Elko – Carbon Center Junction using 230 kV construction		APS (100%)
b0674	Construct new Osage – Whiteley 138 kV circuit		APS (97.68%) / DL (0.96%) / PENELEC (1.09%) / ECP** (0.01%) / PSEG (0.25%) / RE (0.01%)
b0674.1	Replace the Osage 138 kV breaker 'CollinsF126'		APS (100%)
b0675.1	Convert Monocacy - Walkersville 138 kV to 230 kV		AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%)
b0675.2	Convert Walkersville - Catoctin 138 kV to 230 kV		AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%)
b0675.3	Convert Ringgold - Catoctin 138 kV to 230 kV		AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%)

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Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0675.4	Convert Catoctin - Carroll 138 kV to 230 kV		AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%)
b0675.5	Convert portion of Ringgold Substation from 138 kV to 230 kV		AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%)
b0675.6	Convert Catoctin Substation from 138 kV to 230 kV		AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%)
b0675.7	Convert portion of Carroll Substation from 138 kV to 230 kV		AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%)
b0675.8	Convert Monocacy Substation from 138 kV to 230 kV		AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%)
b0675.9	Convert Walkersville Substation from 138 kV to 230 kV		AEC (1.02%) / APS (81.96%) / DPL (0.85%) / JCPL (1.75%) / ME (6.37%) / NEPTUNE* (0.15%) / PECO (3.09%) / PPL (2.24%) / PSEG (2.42%) / RE (0.09%) / ECP** (0.06%)

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Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)

Required Transmission Enhancements	Annual Revenue Requirement	Responsible Customer(s)
b0704	Install a third Cabot 500/138 kV transformer		APS (74.36%) / DL (2.73%) PENELEC (22.91%)
b0797	Advance n0321 (Replace Doubs Circuit Breaker DJ2)		APS(100%)
b0798	Advance n0322 (Replace Doubs Circuit Breaker DJ3)		APS(100%)
b0799	Advance n0323 (Replace Doubs Circuit Breaker DJ6)		APS(100%)
b0800	Advance n0327 (Replace Doubs Circuit Breaker DJ16)		APS(100%)
b0941	Replace Opequon 138 kV breaker 'BUSTIE'		APS(100%)
b0942	Replace Butler 138 kV breaker '#1 BANK'		APS(100%)
b0943	Replace Butler 138 kV breaker '#2 BANK'		APS(100%)
b0944	Replace Yukon 138 kV breaker 'Y-8'		APS(100%)
b0945	Replace Yukon 138 kV breaker 'Y-3'		APS(100%)
b0946	Replace Yukon 138 kV breaker 'Y-1'		APS(100%)
b0947	Replace Yukon 138 kV breaker 'Y-5'		APS(100%)
b0948	Replace Yukon 138 kV breaker 'Y-2'		APS(100%)

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Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1131	Upgrade Double Tollgate – Meadowbrook MDT Terminal Equipment		APS (100%)
b1132	Upgrade Double Tollgate-Meadowbrook MBG terminal equipment		APS (100%)
b1133	Upgrade terminal equipment at Springdale		APS (100%)
b1135	Reconductor the Bartonville – Meadowbrook 138 kV line with high temperature conductor		APS (100%)
b1137	Reconductor the Eastgate – Luxor 138 kV; Eastgate – Sony 138 kV line with 954 ACSR		APS (78.59%) / PENELEC (14.08%) / ECP ** (0.23%) / PSEG (6.83%) / RE (0.27%)
b1138	Reconductor the King Farm – Sony 138 kV line with 954 ACSR		APS (100%)
b1139	Reconductor the Yukon – Waltz Mills 138 kV line with high temperature conductor		APS (100%)
b1140	Reconductor the Bracken Junction – Luxor 138 kV line with 954 ACSR		APS (100%)
b1141	Reconductor the Sewickley – Waltz Mills Tap 138 kV line with high temperature conductor		APS (100%)
b1142	Reconductor the Bartonsville – Stephenson 138 kV; Stonewall – Stephenson 138 kV line with 954 ACSR		APS (100%)
b1143	Reconductor the Youngwood – Yukon 138 kV line with high temperature conductor		APS (89.92%) / PENELEC (10.08%)
b1144	Reconductor the Bull Creek Junction – Cabot 138 kV line with high temperature conductor		APS (100%)

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Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1171.1	Install the second Black Oak 500/138 kV transformer, two 138 kV breaker, and related substation work		BGE (20.76%) / DPL (3.14%) / Dominion (39.55%) / ME (2.71%) / PECO (3.36%) / PEPCO (30.48%)
b1171.3	Install six 500 kV breakers and remove BOL1 500 kV breaker at Black Oak		AEC (1.57%) / AEP (15.18%) / APS (5.89%) / ATSI (7.59%) / BGE (4.12%) / ComEd (12.38%) / ConEd (0.55%) / Dayton (2.02%) / DEOK (3.15%) / DL (1.72%) / DPL (2.53%) / Dominion (13.30%) / EKPC (2.14%) / HTP*** (0.20%) / JCPL (3.57%) / ME (1.72%) / NEPTUNE* (0.41%) / PECO (4.97%) / PENELEC (1.86%) / PEPCO (3.85%) / PPL (4.95%) / PSEG (5.89%) / RE (0.24%) / ECP** (0.20%)
b1200	Reconductor Double Toll Gate – Greenwood 138 kV with 954 ACSR conductor		APS (100%)
b1221.1	Convert Carbon Center from 138 kV to a 230 kV ring bus		APS (100%)
b1221.2	Construct Bear Run 230 kV substation with 230/138 kV transformer		APS (100%)
b1221.3	Loop Carbon Center Junction – Williamette line into Bear Run		APS (100%)
b1221.4	Carbon Center – Carbon Center Junction & Carbon Center Junction – Bear Run conversion from 138 kV to 230 kV		APS (100%)
b1230	Reconductor Willow-Eureka & Eurkea-St Mary 138 kV lines		APS (100%)
b1232	Reconductor Nipetown – Reid 138 kV with 1033 ACCR		AEC (1.40%) / APS (75.74%) / DPL (1.92%) / JCPL (2.92%) / ME (6.10%) / Neptune (0.27%) / PECO (4.40%) / PENELEC (3.26%) / PPL (3.99%)

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Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1235	Reconductor the Albright – Black Oak AFA 138 kV line with 795 ACSS/TW		APS (30.25%) / BGE (16.10%) / Dominion (30.51%) / PEPCO (23.14%)
b1237	Upgrade terminal equipment at Albright, replace bus and line side breaker disconnects and leads, replace breaker risers, upgrade RTU and line		APS (100%)
b1238	Install a 138 kV 44 MVAR capacitor at Edgelawn substation		APS (100%)
b1239	Install a 138 kV 44 MVAR capacitor at Ridgeway substation		APS (100%)
b1240	Install a 138 kV 44 MVAR capacitor at Elko Substation		APS (100%)
b1241	Upgrade terminal equipment at Washington substation on the GE Plastics/DuPont terminal		APS (100%)
b1242	Replace structures between Collins Ferry and West Run		APS (100%)
b1243	Install a 138 kV capacitor at Potter Substation		APS (100%)
b1261	Replace Butler 138 kV breaker '1-2 BUS 138'		APS (100%)
b1383	Install 2nd 500/138 kV transformer at 502 Junction		APS (93.27%) / DL (5.39%) / PENELEC (1.34%)
b1384	Reconductor approximately 2.17 miles of Bedington – Shepherdstown 138 kV with 954 ACSR		APS (100%)
b1385	Reconductor Halfway – Paramount 138 kV with 1033 ACCR		APS (100%)
b1386	Reconductor Double Tollgate – Meadow Brook 138 kV ckt 2 with 1033 ACCR		APS (93.33%) / BGE (3.39%) / PEPCO (3.28%)
b1387	Reconductor Double Tollgate – Meadow Brook 138 kV		APS (93.33%) / BGE (3.39%) / PEPCO (3.28%)

Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company, all doing business as Allegheny Power (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1840	Construct a 138 kV line between Buckhannon and Weston 138 kV substations		APS (100%)
b1902	Replace line trap at Stonewall on the Stephenson 138 kV line terminal		APS (100%)
b1941	Loop the Homer City-Handsome Lake 345 kV line into the Armstrong substation and install a 345/138 kV transformer at Armstrong		APS (67.86%) / PENELEC (32.14%)
b1942	Change the CT ratio at Millville to improve the Millville – Old Chapel 138 kV line ratings		APS (100%)
b1964	Convert Moshannon substation to a 4 breaker 230 kV ring bus		APS (41.06%) / DPL (6.68%) / JCPL (5.48%) / ME (10.70%) / Neptune* (0.53%) / PECO (15.53%) / PPL (20.02%)
b1965	Install a 44 MVAR 138 kV capacitor at Luxor substation		APS (100%)
b1986	Upgrade the AP portion of the Elrama – Mitchell 138 kV line by replace breaker risers on the Mitchell 138 kV bus on the Elrama terminal		APS (100%)
b1987	Reconductor the Osage-Collins Ferry 138 kV line with 795 ACSS. Upgrade terminal equipment at Osage and Collins Ferry		APS (100%)
b1988	Raise structures between Lake Lynn and West Run to eliminate the clearance de-rates on the West Run – Lake Lynn 138 kV line		APS (100%)
b1989	Raise structures between Collins Ferry and West Run to eliminate the clearance de-rates on the Collins Ferry - West Run 138 kV line		APS (100%)

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AEP Service Corporation on behalf of its Affiliate Companies (AEP Indiana Michigan Transmission Company, AEP Kentucky Transmission Company, AEP Ohio Transmission Company, AEP West Virginia Transmission Company, Appalachian Power Company, Indiana Michigan Power Company, Kentucky Power Company, Kingsport Power Company, Ohio Power Company and Wheeling Power Company) (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b0840.1	Establish a new 138/69-34.5kV Station to interconnect the existing 34.5kV network		AEP (100%)
b0917	Replace Baileysville 138 kV breaker 'P'		AEP (100%)
b0918	Replace Riverview 138 kV breaker '634'		AEP (100%)
b0919	Replace Torrey 138 kV breaker 'W'		AEP (100%)
b1032.1	Construct a new 345/138kV station on the Marquis-Bixby 345kV line near the intersection with Ross - Highland 69kV		AEP (89.97%) / Dayton (10.03%)
b1032.2	Construct two 138kV outlets to Delano 138kV station and to Camp Sherman station		AEP (89.97%) / Dayton (10.03%)
b1032.3	Convert Ross - Circleville 69kV to 138kV		AEP (89.97%) / Dayton (10.03%)
b1032.4	Install 138/69kV transformer at new station and connect in the Ross - Highland 69kV line		AEP (89.97%) / Dayton (10.03%)
b1033	Add a third delivery point from AEP's East Danville Station to the City of Danville.		AEP (100%)
b1034.1	Establish new South Canton - West Canton 138kV line (replacing Torrey - West Canton) and Wagenhals – Wayview 138kV		AEP (96.01%) / APS (0.62%) / ComEd (0.19%) / Dayton (0.44%) / DL (0.13%) / PENELEC (2.61%)

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Required Transmission Enhancements	Annual Revenue Requirement		Responsible Customer(s)
b1034.2	Loop the existing South Canton - Wayview 138kV circuit in-and-out of West Canton		AEP (96.01%) / APS (0.62%) / ComEd (0.19%) / Dayton (0.44%) / DL (0.13%) / PENELEC (2.61%)
b1034.3	Install a 345/138kV 450 MVA transformer at Canton Central		AEP (96.01%) / APS (0.62%) / ComEd (0.19%) / Dayton (0.44%) / DL (0.13%) / PENELEC (2.61%)
b1034.4	Rebuild/reconductor the Sunnyside - Torrey 138kV line		AEP (96.01%) / APS (0.62%) / ComEd (0.19%) / Dayton (0.44%) / DL (0.13%) / PENELEC (2.61%)
b1034.5	Disconnect/eliminate the West Canton 138kV terminal at Torrey Station		AEP (96.01%) / APS (0.62%) / ComEd (0.19%) / Dayton (0.44%) / DL (0.13%) / PENELEC (2.61%)
b1034.6	Replace all 138kV circuit breakers at South Canton Station and operate the station in a breaker and a half configuration		AEP (96.01%) / APS (0.62%) / ComEd (0.19%) / Dayton (0.44%) / DL (0.13%) / PENELEC (2.61%)
b1034.7	Replace all obsolete 138kV circuit breakers at the Torrey and Wagenhals stations		AEP (96.01%) / APS (0.62%) / ComEd (0.19%) / Dayton (0.44%) / DL (0.13%) / PENELEC (2.61%)
b1034.8	Install additional 138kV circuit breakers at the West Canton, South Canton, Canton Central, and Wagenhals stations to accommodate the new circuits		AEP (96.01%) / APS (0.62%) / ComEd (0.19%) / Dayton (0.44%) / DL (0.13%) / PENELEC (2.61%)
b1035	Establish a third 345kV breaker string in the West Millersport Station. Construct a new West Millersport – Gahanna 138kV circuit. Miscellaneous improvements to 138kV transmission system.		AEP (100%)

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Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1501	The Moseley – Reusens 138 kV circuit requires a sag study to determine if the emergency rating can be utilized to address a thermal loading issue for a category C3		AEP (100%)
b1502	Reconductor the Conesville East – Conesville Prep Plant Tap 138 kV section of the Conesville – Ohio Central to fix Reliability N-1-1 thermal overloads		AEP (100%)
b1659	Establish Sorenson 345/138 kV station as a 765/345 kV station		AEP (93.61%) / ATSI (2.99%) / ComEd (2.07%) / HTP (0.03%) / PENELEC (0.31%) / ECP** (0.03%) / PSEG (0.92%) / RE (0.04%)
b1659.1	Replace Sorenson 138 kV breaker 'L1'		AEP (100%)
b1659.2	Replace Sorenson 138 kV breaker 'L2' breaker		AEP (100%)
b1659.3	Replace Sorenson 138 kV breaker 'M1'		AEP (100%)
b1659.4	Replace Sorenson 138 kV breaker 'M2'		AEP (100%)
b1659.5	Replace Sorenson 138 kV breaker 'N1'		AEP (100%)
b1659.6	Replace Sorenson 138 kV breaker 'N2'		AEP (100%)
b1659.7	Replace Sorenson 138 kV breaker 'O1'		AEP (100%)
b1659.8	Replace Sorenson 138 kV breaker 'O2'		AEP (100%)
b1659.9	Replace Sorenson 138 kV breaker 'M'		AEP (100%)
b1659.10	Replace Sorenson 138 kV breaker 'N'		AEP (100%)

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Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1865	Perform a sag study on the Kanawha - Carbondale 138 kV line to see if any remedial action needed to reach the new ratings of 251/335MVA		AEP (100%)
b1866	Perform a sag study on the Clinch River-Lock Hart-Dorton 138kV line,increase the Relay Compliance Trip Limit at Clinch River on the C.R.-Dorton 138kV line to 310 and upgrade the risers with 1590ACSR		AEP (100%)
b1867	Perform a sag study on the Newcomerstown - South Coshocton 138 kV line to see if any remedial action is needed to reach the new SE rating of 179MVA		AEP (100%)
b1868	Perform sag study on the East Lima - new Liberty 138 kV line to see if any remedial action is needed to reach the new SE rating of 219MVA		AEP (100%)
b1869	Perform a sag study of the Ohio Central - South Coshocton 138 kV circuit to see if any remedial action needed to reach the new SE ratings of 250MVA		AEP (100%)
b1870	Replace the Ohio Central transformer #1 345/138/12 kV 450 MVA for a 345/138/34.5 kV 675 MVA transformer		AEP (68.16%) / ATSI (25.27%) / Dayton (3.88%) / PENELEC (1.59%) / DEOK (1.10%)
b1871	Perform a sag study on the Central - West Coshocton 138 kV line (improving the emergency rating of this line to 254 MVA)		AEP (100%)

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**East Coast Power, L.L.C.

AEP Service Corporation on behalf of its Affiliate Companies (AEP Indiana Michigan Transmission Company, AEP Kentucky Transmission Company, AEP Ohio Transmission Company, AEP West Virginia Transmission Company, Appalachian Power Company, Indiana Michigan Power Company, Kentucky Power Company, Kingsport Power Company, Ohio Power Company and Wheeling Power Company) (cont.)

Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1904.1	Construct new 138/69 Michiana Station near Bridgman by tapping the new Carlisle - Main Street 138 kV and the Bridgman - Buchanan Hydro 69 kV line		AEP (100%)
b1904.2	Establish a new 138/12 kV New Galien station by tapping the Olive - Hickory Creek 138 kV line		AEP (100%)
b1904.3	Retire the existing Galien station and move its distribution load to New Galien station. Retire the Buchanan Hydro - New Carlisile 34.5 kV line		AEP (100%)
b1904.4	Implement an in and out scheme at Cook 69 kV by eliminating the Cook 69 kV tap point and by installing two new 69 kV circuit breakers		AEP (100%)
b1904.5	Rebuild the Bridgman - Cook 69 kV and the Derby - Cook 69 kV lines		AEP (100%)
b1946	Perform a sag study on the Brues – West Bellaire 138 kV line		AEP (100%)
b1947	A sag study of the Dequine - Meadowlake 345 kV line #1 line may improve the emergency rating to 1400 MVA		AEP (100%)
b1948	Establish a new 765/345 interconnection at Sporn. Install a 765/345 kV transformer at Mountaineer and build ¾ mile of 345 kV to Sporn		ATSI (61.08%) / DL (21.87%) / Dominion (13.97%) / PENELEC (3.08%)
b1949	Perform a sag study on the Grant Tap – Deer Creek 138 kV line and replace bus and risers at Deer Creek station		AEP (100%)
b1950	Perform a sag study on the Kammer – Ormet 138 kV line of the conductor section		AEP (100%)

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Required Transmission Enhancements		Annual Revenue Requirement	Responsible Customer(s)
b1951	Perform a sag study of the Maddox- Convoy 345 kV line to improve the emergency rating to 1400 MVA		AEP (100%)
b1952	Perform a sag study of the Maddox – T130 345 kV line to improve the emergency rating to 1400 MVA		AEP (100%)
b1953	Perform a sag study of the Meadowlake - Olive 345 kV line to improve the emergency rating to 1400 MVA		AEP (100%)
b1954	Perform a sag study on the Milan - Harper 138 kV line and replace bus and switches at Milan Switch station		AEP (100%)
b1955	Perform a sag study of the R-049 - Tillman 138 kV line may improve the emergency rating to 245 MVA		AEP (100%)
b1956	Perform a sag study of the Tillman - Dawkins 138 kV line may improve the emergency rating to 245 MVA		AEP (100%)
b1957	Terminate Transformer #2 at SW Lima in a new bay position		AEP (69.41%) / ATSI (23.11%) / ECP** (0.17%) / HTP (0.19%) / PENELEC (2.42%) / PSEG (4.52%) / RE (0.18%)
b1958	Perform a sag study on the Brookside - Howard 138 kV line and replace bus and risers at AEP Howard station		AEP (100%)
b1960	Sag Study on 7.2 miles SE Canton-Canton Central 138kV ckt		AEP (100%)
b1961	Sag study on the Southeast Canton – Sunnyside 138kV line		AEP (100%)

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