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A-2017-2640195

February 28, 2014

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

Re:

PJM Interconnection, L.L.C., Docket No. ER14- -000

Dear Secretary Bose:

Pursuant to section 205 of the Federal Power Act, and Part 35 of the regulations of the Federal Energy Regulatory Commission ("Commission"), PJM Interconnection, L.L.C. submits revisions to its economic planning process as set forth in section 1.5.7 of Schedule 6 of the Amended and Restated Operating Agreement of PJM Interconnection, L.L.C. ("Schedule 6"). PJM proposes to: (i) revise how the market efficiency benefits are calculated for Regional Facilities, Necessary Lower Voltage and Lower Voltage Facilities; (ii) include generation with an executed Facility Study Agreement ("FSA") in its assumptions; (iii) modify the definition of Production Cost to appropriately account for resources from neighboring RTOs which can be dispatched and are active in PJM's market efficiency models ("dispatchable resources"). These changes appropriately recognize both the present use and broader regional benefits across the PJM region, as well as identifying market efficiency needs due to local congestion. In addition, these changes will ensure that PJM's market efficiency planning standards are better aligned

¹ 16 U.S.C. § 824d.

² 18 C.F.R. Part 35 (2013).

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with the Commission-accepted cost allocation for PJM market efficiency projects.³

The

remaining changes are enhancements to PJM's analysis to ensure consideration of certain key

data inputs relevant to analyzing market efficiency needs in a more robust scenario-based market

efficiency planning process. PJM requests an effective date of April 30, 2014 for these revisions,

which is 61 days after the date of this filing. This proposal received overwhelming endorsement

in PJM's stakeholder process.

I. Background

On September 8, 2006, PJM filed a proposed modification to its Regional Transmission

Expansion Planning Protocol to replace its existing economic planning protocol with a market

efficiency process based upon evaluating the economic benefits of accelerating or modifying

planned reliability-based transmission upgrades or of constructing new economic-based

transmission enhancements or expansions focused on relieving congestion.⁴ The Commission

modified PJM's initial proposal to base the evaluation on several metrics and directed PJM to

file a formulaic approach for selection of economic projects.⁵

On October 9, 2007, to comply with the Commission's directives, PJM submitted a

formulaic approach similar to the model adopted by the Midwest Independent Transmission

System Operator, Inc. ("MISO") that proposed to use a Benefit/Cost Ratio. The benefit

component consists of the sum of two metrics: (i) the Energy Market Benefit and (ii) the

³ PJM Interconnection, L.L.C., et al., 142 FERC ¶ 61,214 at 1 (March 22, 2013) (conditionally accepting PJM Transmission Owner's Compliance Filing effective February 1, 2013, subject to further compliance, which was filed by the PJM Transmission Owners on July 22, 2013.) ("March 22 Order"). See, PJM Transmission Owners Filing,

Duquesne Light Co., et al., Docket No. ER13-90-000 (July 22, 2013).

⁴ PJM Initial Filing, PJM Interconnection, L.L.C., Docket No. ER06-1474-000 (Sept. 8, 2006).

⁵ PJM Interconnection, L.L.C., 119 FERC ¶ 61,265 at P 31 (2007).

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Reliability Pricing Model Benefit.⁶ The Energy Market Benefit includes: (i) the change in

production cost, weighted at 70 percent, and (ii) the change in net load payments, weighted at 30

percent.⁷ The Reliability Pricing Model Benefit includes: (i) the change in capacity costs,

weighted at 70 percent, and (ii) the change in net capacity payments, weighted at 30 percent.⁸ To

be included, a project's benefit/cost ratio had to meet a threshold of at least 1.25 to one.

Following a third compliance filing, the Commission accepted PJM's economic transmission

planning process. ⁹ To date, the PJM Board has approved two Lower Voltage Facility market

efficiency projects. 10

On October 11, 2012, the PJM Transmission Owners, acting through the PJM Consolidated Transmission Owners Agreement ("CTOA"), ¹¹ proposed revisions to Schedule 12 of the PJM Open Access Transmission Tariff ("PJM Tariff"), relating to the allocation of costs of transmission system expansions and enhancements approved by PJM in its development of its regional transmission expansion plan ("RTEP"). ¹² The cost allocation proposed in the

⁶ PJM Compliance Filing, *PJM Interconnection, L.L.C.*, Docket No. ER06-1474-000 (Oct. 9, 2007) ("October 9 Compliance Filing").

⁷ See PJM's Second Compliance Filing, *PJM Interconnection, L.L.C.*, Docket No. ER06-1474-004 at 4, 7 and 8 (Oct. 9, 2007). The formulaic approach was further amended by way of compliance. See PJM's Third Compliance Filing, *PJM Interconnection, L.L.C.*, Docket No. ER06-1474-006 (Jun. 16, 2008).

⁸ The reduction in production costs is a standard measure of the economic benefits of an expansion or enhancement. The change in production costs measures the economic benefit of the project to the PJM market, while the load payments measure the extent to which the project will reduce prices to load. Together the evaluation of production cost benefits and direct benefits to load customers were intended as a reasonable formulaic approach to the analysis of the overall benefits of an economic-based enhancement or expansion. See October 9 Compliance Filing at 7 and 8.

⁹ PJM Interconnection, L.L.C., 126 FERC ¶ 61,152 (Feb. 20, 2009).

¹⁰ Baseline Upgrades: (i) b1153 approved in February 2010; and (ii) b2452, 2452.1 and 2452.3 approved in February 2014.

¹¹ PJM Interconnection, L.L.C., Consolidated Transmission Owners Agreement, Rate Schedule F.E.R.C. No. 42 (Jun. 19, 2008).

¹² PJM Transmission Owners Filing, *Public Service Electric and Gas Company, et al.*, Docket No. ER13-90-000 (Oct. 11, 2012) ("Transmission Owners' October 11 Filing").

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Transmission Owners' October 11 Filing, and accepted by the Commission subject to compliance, ¹³ was filed as a compromise among the PJM Transmission Owners, as just and reasonable, and not unduly discriminatory or preferential and was intended to satisfy the regional

cost allocation principles in Order No. 1000.14

beneficiaries of reliability projects and economic projects.

The proposed cost allocation distinguished between Regional Facilities, Necessary Lower Voltage Facilities and Lower Voltage Facilities. In the Transmission Owners' October 11 Filing, however, the PJM Transmission Owners proposed to replace the existing postage-stamp rate¹⁵ with use a "hybrid approach" to allocate the cost of Regional Facilities¹⁶ and Necessary Lower Voltage Facilities.¹⁷ Under the hybrid approach, one-half of each project's cost is allocated on a postage-stamp basis. The other half of the cost of Regional Facilities and Necessary Lower Voltage Facilities are allocated to specifically identified beneficiaries of each project. The Transmission Owners' October 11 Filing proposed different methodologies to identify specific

¹³ PJM Interconnection, L.L.C., et al., 142 FERC ¶ 61,214 (Mar. 22, 2013) ("Order on Compliance Filings"); PJM Interconnection, L.L.C., et al., 142 FERC ¶ 61,074 (Jan. 31, 2013) ("Order Conditionally Accepting and Suspending Cost Allocation Filing").

¹⁴ Transmission Planning and Cost Allocation by Transmission Owners and Operating Public Utilities, Order No. 1000, III FERC Stats. & Regs., Regs. Preambles ¶ 31,323 (2011), order on reh'g and clarification, Order No. 1000-A, 139 FERC ¶ 61,132, order on reh'g and clarification, Order No. 1000-B, 141 FERC ¶ 61,044 (2012) (collectively referred to as "Order No. 1000").

Allocation on a postage-stamp basis means each project is allocated to zones on a load ratio share basis and to merchant transmission facilities in proportion to awarded Firm Transmission Withdrawal Rights. See Proposed Schedule 12 § (b)(i)(A)(1).

¹⁶ In the October 11 Filing, the PJM Transmission Owners proposed to revise the definition of Regional Facilities to add double-circuit facilities planned to operate voltages of at least 345 kV but less than 500 kV to the current Commission-approved definition that included all facilities planned to operate at or above 500 kV. See October 11Filing at 8.

¹⁷ Necessary Lower Voltage Facilities were defined in the same manner as the current Tariff, i.e., "new facilities or expansions or enhancements to existing Transmission Facilities that are below the applicable voltage limit for a Regional Facility, but that must be constructed or strengthened to support new Regional Facilities. See *Proposed* Schedule 12, § (b)(i)(C).

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For new Regional and Necessary Lower Voltage Facilities included in the RTEP as an

economic project, the Transmission Owners' October 11 Filing proposed to allocate one-half of

each project's costs based on each Zone's load ratio share and one-half of each project's costs to

zones with decreases in net load energy payments that result from the new facility. For new

Lower Voltage Facilities, the October 11 Filing proposed to allocate the full project costs to

zones with decreases in net load energy payments recognizing the more localized benefits such

projects provide. 18 Relevant to this filing, the proposed changes to section 1.5.7 of Schedule 6

will more closely align the market efficiency benefit determination with the cost allocation as

proposed in the Transmission Owners' October 11 Filing and conditionally accepted by the

Commission. 19

To develop the proposed amendments to section 1.5.7 of Schedule 6, PJM and its

stakeholders engaged in an extensive stakeholder process through the Regional Planning Process

Task Force ("RPPTF"). PJM and the stakeholders considered various options at four RPPTF

meetings and developed a proposal that the majority of the stakeholders could support. The

proposed revisions were presented to and endorsed by acclamation by the Markets and

Reliability Committee²⁰ and the Members Committee²¹.

II. Descriptions of Proposed Revisions to Schedule 6

As discussed above, PJM proposes to: (i) revise the proportional measurement used to

determine the market efficiency benefits for Regional Facilities and Necessary Lower Voltage

¹⁸ See October 11 Filing at 11.

19 See supra at n. 3.

The proposed changes were endorsed by acclamation: (i) market efficiency - benefit determination with one objection and one abstention; (ii) market efficiency - generation expansion with no objections and two abstentions;

and (iii) market efficiency - Cost Production definition with no objections and two abstentions.

²¹ The proposed changes were endorsed by acclamation with no objections and no abstention.

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Facilities; (ii) revise the benefit metric used for Lower Voltage Facilities; (iii) apply a change in

net load payments for Regional Facilities from all zones to zones that benefit, i.e., zones with a

decrease in net load payments only; (iv) include generation with an executed Facility Study

Agreement, in addition to existing generation and generator units with an interconnection service

agreement, to assumptions included in the model to meet future reserve requirements; and (v)

modify the definition of Production Cost to better account for dispatchable resources from

neighboring RTOs active in our market efficiency models.

A. Market Efficiency Benefit Determination

(1) Change in Benefit Metric Formula for Regional and Necessary Lower

Voltage Facilities

PJM proposes to modify the current weighting for Regional Facilities and Necessary

Lower Voltage Facilities between (i) the change in production cost and change in net load

payment (for Energy Benefit) and (ii) change in capacity costs and change in net capacity

payments (for Capacity Benefit) from the current 70/30 percent split to a 50/50 percent split.²²

The 70/30 percent weighting was proposed originally by PJM as consistent with the

MISO approach approved by the Commission as reasonable.²³ It also seemed to align better with

the existing allocation methodology used for Regional and Necessary Lower Voltage Facilities

which allocated 100 percent of the costs to zones on a load ratio share. Following the

Transmission Owners' October 11 Filing, which proposed to use a hybrid approach to allocate

one-half of each project's cost on a postage-stamp basis and the other half to specifically

identified beneficiaries for both reliability and economic projects, PJM and its stakeholders re-

evaluated the proportional measurement used to determine the market efficiency benefits for

See Schedule 6, section 1.5.7(d) proposed.

²³ See Midwest Independent System Operator, Inc., 118 FERC ¶ 61,209 at P 131 (2007) ("MISO Order").

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Regional Facilities and Necessary Lower Voltage Facilities. After considering numerous proportional variations, the stakeholders agreed the change in the benefit determination for market efficiency projects to a 50/50 split between production cost benefits and direct benefits to load customers better equalizes consideration of market efficiency needs due to overall system conditions and direct impact on load customers.²⁴ Additionally, such changes should more closely align identification of economic projects with the newly proposed "hybrid approach" cost allocation methodology for Regional and Necessary Lower Voltage Projects.²⁵

The table below used in the stakeholder process illustrates the alignment between the existing cost allocation and proposed Market Efficiency formula.

	Existing Cost Allocation: Market Efficiency Projects.	Proposed Benefit Determination
-		Total Benefit= Energy + Capacity Benefit
Regional Projects	50% Load Ratio Share and 50% to zones with decreased net load payments	Energy Benefit: 50% change in production costs + 50% change in net load payments (only zones with decrease in net load payments)
		Capacity Benefit: 50% change in capacity costs + 50% change in net capacity payments (only zones with decrease in net capacity payments)
	100% to zones with decreased net load payments	Total Benefit= Energy + Capacity Benefit
Lower Voltage Projects		Energy Benefit: 100% change in net load payments (only zones with decrease in net load payments)
		Capacity Benefit: 100% change in net capacity payments (only zones with decrease in net capacity payments)

²⁴ As acknowledged by the PJM Transmission Owners in their October 11 Filing, in western PJM relatively low-voltage transmission facilities serve as the backbone of the transmission network, e.g., mainly 345 kV transmission facilities are preferred. Whereas, in eastern PJM 500 kV and even higher-voltage transmission facilities are preferred.

The "hybrid approach" for Regional and Necessary Lower Voltage Facilities allocates 50 percent of the costs on a postage stamp basis and the other 50 percent using a DFAX methodology. See March 22 Order at PP 412 - 426.

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(2) Change in the Market Efficiency Benefit Calculation for Regional and Necessary Lower Voltage Facilities

Under the existing market efficiency benefit calculation for Regional and Necessary Lower Voltage Facilities, PJM factored in customers from all zones (i.e., customers with projected increases in net load payments and customers with decreases in net load payment). Net load payments are calculated by measuring the gross load payments reduced by the financial transmission credits for each zone. Net capacity payments are calculated by measuring the gross capacity payments reduced by the capacity credits for each zone. Only the customers with projected reductions in payments are deemed to benefit from the new transmission facility. Under the current market efficiency benefit calculation, PJM has not identified one market efficiency project for Regional Facilities.

In this filing, PJM proposes to modify application of the market efficiency benefit calculation from all zones to: (i) only zones with a decrease in net load payments (for Energy Benefit) and (ii) only zones with a decrease in net capacity payments (for Capacity Benefit). It will not apply the market efficiency benefit calculation to zones that would receive an increase in net load payment or net capacity payment. This revision to Regional and Necessary Lower Voltage Facilities conforms to how Lower Voltage Facilities are currently selected, *i.e.*, the cost/benefit analysis applies only to zones with a decrease in net load or net capacity payments. PJM believes this modification to the market efficiency benefit calculation will more appropriately align the benefits with the costs of the facilities by placing the cost of such upgrades on the zones where costs are being reduced. Eliminating from the calculation consideration of zones with an increase in net load or capacity payments should increases the number of projects that could qualify as a market efficiency project.

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(3) Change in Formula for Lower Voltage Facilities

PJM proposes to modify the current benefit metric calculation for Lower Voltage

Facilities between the change in production cost and change in net load payment (for Energy

Benefit) and change in capacity costs and change in net capacity payments (for Capacity Benefit)

from the current 70/30 percent split to 100 percent change in net load payments (for Energy

Benefit) and 100 percent change in net capacity payments (for Capacity Benefit). PJM and its

stakeholders agreed this modification was appropriate as it better addresses the local benefits

attributable to Lower Voltage Facilities. PJM proposes these changes are just and reasonable

and satisfy the Commission's Order No. 1000 cost allocation principles because they better align

the who benefits from the local nature of Lower Voltage Facilities with the cost allocations in a

manner that is at least roughly commensurate with the estimated benefits and does not allocate

costs to entities with little or no benefit.²⁶

B. Expansion of Generation Added to the Models to Meet Reserve Requirement

Section 1.5.7(i)(iv) of Schedule 6 currently identifies the assumptions used in the market

efficiency analysis, which includes, among other things, all existing in-service generation and

generation with an executed Interconnection Service Agreement ("ISA"), or Interim

Interconnection Service Agreement expected to an execute an ISA, less planned generator

deactivations.²⁷ PJM proposes to add generation facilities with a Facility Study Agreement

("FSA").28

Order No. 1000 at PP 559 and 622.

²⁷ Schedule 6 at section 1.5.7(k)(viii).

²⁸ Schedule 6 at section 1.5.7(i)(iv) and (vii) proposed.

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Generally, generation is added to models when existing in-service generation and

generation with an ISA does not provide enough generation to meet reserve requirements

throughout the 15-year planning horizon. Under the current method this additional generation is

added by scaling existing generation units, consistent with the makeup of the resources in the

interconnection queue, until the reserve requirement is met.²⁹ In this filing, PJM proposes to

include generation with an executed FSA (along with any identified network upgrades that were

identified to reliably interconnection the unit with the system) in its assumptions.³⁰ Including

generation with an FSA, as well as any identified network upgrade, will reduce the likelihood of

creating congestion due to generation scaling. In addition, this method will allow PJM to

consider significantly more generation active in the PJM interconnection queue and should result

in minimal or no additional scaling to meet the reserve requirement. However, before including

or exempting generation with an executed FSA in its assumptions, PJM will review the list of

FSA units with its stakeholders in the Transmission Expansion Advisory Committee when

developing assumptions to be included in the analysis. For generation that may significantly

impact the results, PJM will determine which FSA units to exclude after reviewing the following

factors with its stakeholders: (i) the likelihood of the generation unit coming into service; (ii) the

projected in-service date - generation units, such as a large nuclear plant, with an in service date

farther out in the planning horizon, the more uncertainty associated with the results; and (ii) the

generation unit's potential to influence the results depending on the size of the generation unit

²⁹ Generation scaling generally means adding additional megawatts to existing generation in the model.

During final stakeholder review of the redline changes to section 1.5.7(i)(iv), PJM inadvertently deleted reference to "executed Interconnection Service Agreement ("ISA")" and "Interim Interconnection Service Agreement ("Interim ISA") for which an ISA is expected to be executed." Those terms are not deleted in these proposed changes as the stakeholders intended to add an executed FSA to the assumptions already permitted under this subsection.

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and its location.³¹ Depending on whether PJM with its stakeholders determine that a generation

unit with an FSA may skew the results, PJM may exclude such generation unit from its

assumptions.

C. Modification of the Definition of Production Costs

As part of a cleanup initiative, PJM also proposes to revise the definition of Production

Costs to allow PJM to account for transactions between neighboring RTOs. Currently, the

section 1.5.7 of Schedule 6 limits consideration of the components that make up production costs

to consideration of resources within the PJM region and, therefore, does not account for

transactions between neighboring RTOs. PJM proposes to amend section 1.5.7(d) to explicitly

provide for consideration of dispatchable resources from neighboring RTOs active in our market

efficiency models. For example, as part of PJM's existing process, PJM models flow from

external regions. This revision will allow PJM to optimize those models by accounting for

dispatchable resources from neighboring regions where a neighboring region's dispatchable

resources show up in PJM's market efficiency models

III. Effective Date

PJM requests an effective date of April 30, 2014, which is 61 days after the date of this

filing for the proposed modifications to section 1.5.7 to enable PJM to commence its 2-year

economic planning cycle under these revised provisions.

IV. Documents Enclosed

This filing consists of the following documents:

For example, there are instances where a generation owner may have submitted multiple interconnection requests for the same project and have more than one FSA. PJM would factor in only one of the FSAs for that project. Another example could be that a project is delayed but the date in the FSA was not changed. Also, PJM may have information that a project is not going to move forward but the generation owner has not removed it from the queue

hoping that circumstances will change to improve the project's economics.

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This Transmittal Letter; a.

Attachment A: Proposed revisions to Section 1.5.7 of Schedule 6 of the Amended b.

and Restated Operating Agreement (in redlined format); and

Attachment B: Proposed revisions to Section 1.5.7 of Schedule 6 of the Amended ¢.

and Restated Operating Agreement (in clean format).

V. Correspondence

Correspondence and communications regarding this filing should be sent to the following

persons:

Craig Glazer

Vice President-Federal Government Policy

PJM Interconnection, L.L.C.

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VI. Service

PJM has served a copy of this filing on all PJM Members and on the affected state utility

regulatory commissions in the PJM Region by posting this filing electronically. In accordance

with the Commission's regulations, 32 PJM will post a copy of this filing to the FERC filings

section of its internet site, 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 stat utility regulatory commission

in the PJM Region³³ alerting them 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 twenty-four hours of the filing.

32 See 18 C.F.R. §§ 35.2(e) and 385.201(f)(3).

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

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Also, a copy of this filing will be available on the Commission's eLibrary website at the following link: http://www.ferc.gov/docs-filing/elibrary.asp in accordance with the Commission's regulations and Order No. 714.

Respectfully submitted,

By:

Craig Glazer
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Counsel for PJM Interconnection, L.L.C.

Date: February 28, 2014

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Application of Transource Pennsylvania LLC Independence Energy Connection-East Project and West Project Docket Nos. A-2017-2640195 and A-2017-2640200

Interrogatories of the Office of Consumer Advocate Set IV (Responses dated 3/23/2018)

et al.
2/22/19
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Data Request OCA-IV-14:

Please provide a detailed derivation of the benefit cost ratio as described in Figure 1:

- Benefits broken out by the Energy Market Benefit (separately reporting the a. change in total energy production cost and change in load energy payment), the Reliability Pricing Benefit (separately reporting the change in total system capacity cost and change in load capacity payment) and any other benefits PJM included (identify and quantify)
- b. Costs broken out by component (e.g., new substation, new transmission, substation upgrades, transmission upgrades, other, etc.)
- Benefits and costs broken out by utility c.
- Benefits and costs broken out by transmission zone d.

Response:

- a. All benefits from Project 9A are in the form of load energy payment.
- b.

UPGR	ADE	COST ESTIMATE
RICE	STATION	\$44.5
RINGGOLD	STATION	\$2.7
RICE-RINGGOLD	LINE	\$81.5
R-R STATIONS	LINE WORK	\$4.4
CONASTONE	STATION	\$4.6
FURNACE RUN	STATION	\$49.9
C-FR	LINE	\$44.4
C-FR STATIONS	LINE WORK	\$4.9
C_NW	RECONDUTOR	\$44.7
RINGGOLD	STATION	\$14.1
RINGGOLD- CATOCTIN	RECONDUCTOR	\$44.9

Application of Transource Pennsylvania LLC Independence Energy Connection-East Project and West Project Docket Nos. A-2017-2640195 and A-2017-2640200

Interrogatories of the Office of Consumer Advocate Set IV (Responses dated 3/23/2018)

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TOTAL		\$340.6

- c. Benefits and costs for the project are not calculated by utility. Please see response to OCA-IV-14(d) below. Regarding costs, the allocation by transmission zone is described in Appendix B of the August 2, 2016 "Transmission Expansion Advisory Committee (TEAC) Recommendations to the PJM Board (Baseline Upgrade IDs: b2743 and b2752), available at: http://www.pjm.com/-/media/committees-groups/committees/teac/20160811/20160811-board-whitepaper-august-2016.ashx. The Company further states that the costs allocated to each transmission zone are for the entire project, regardless of which transmission owners are designated to construct individual specific project components.
- d. The following table gives the benefits transmission zones will receive from Project 9A. Project costs are not calculated by transmission zone.

_	sent Value of Net Load Payment oject 9A
PJM ZONE	(\$Millions)
AEP	71.38
APS	96.53
BGE	218,19
COMED	23.86
CONABCJK	4.12
DAY	6.54
DEOK	11.25
DOM	441.33
DUQ	0.11
EKPC	5.01
LINDVFT	63.83
O66HVDC	15.16
PEPCO	230.76
Total Be	enefits 1188.07

Note: This benefit calculation corresponds to the B/C Ratio of 2.48

Presented at the May 12th, 2016 TEAC

Witness: Paul F. McGlynn

Application of Transource Pennsylvania LLC Independence Energy Connection-East Project and West Project Docket Nos. A-2017-2640195 and A-2017-2640200

Interrogatories of the Office of Consumer Advocate Set IV (Responses dated 3/23/2018)

Data Request OCA-IV-16:

Please provide a detailed derivation of each benefit cost ratio, if any, calculated in addition to those Mr. McGlynn referenced on pages 29 and 33 of his testimony:

- a. Benefits broken out by the Energy Market Benefit (separately reporting the change in total energy production cost and change in load energy payment), the Reliability Pricing Benefit (separately reporting the change in total system capacity cost and change in load capacity payment) and any other benefits PJM included (identify and quantify)
- b. Costs broken out by component (e.g., new substation, new transmission, substation upgrades, transmission upgrades, other, etc.)
- c. Benefits and costs broken out by utility
- d. Benefits and costs broken out by transmission zone

Response:

- a. All benefits from Project 9A are in the form of load energy payment.
- b. Please see response to OCA-IV-14b. The cost estimates have not changed.
- c. Please see response to OCA-IV-14c.
- d. The following table gives the benefits transmission zones will receive from Project 9A. Project costs are not calculated by transmission zone.

Change in 15-Year Net Present Value of Net Load Payment Project 9A		
PJM ZONE	(\$)	
AEP	52,089,668	
APS	85,590,533	
BGE	44,930,925	
COMED	11,700,983	
DAY	5,378,001	

Application of Transource Pennsylvania LLC Independence Energy Connection-East Project and West Project Docket Nos. A-2017-2640195 and A-2017-2640200

Interrogatories of the Office of Consumer Advocate Set IV (Responses dated 3/23/2018)

DEOK	6,824,715
DOM	274,155,876
DUQ	2,844,756
EKPC	4,184,839
PEPCO	123,784,114
Tota	al Benefits 611,484,411

Note: This benefits calculation is from the workbook used to calculate the BC ratio of 1.32 presented at Feb 9th 2018 TEAC

Witness: Paul F. McGlynn

Change in 15-Year Net Present Value of Net Load Payment Project 9A

PJM ZONE	(\$million)
AECO	17.90
AEP	5.32
APS	-4.74
BGE	-158.44
COMED	67.47
DAY	1.67
DEOK	17.19
DOM	-382.05
DPL	30.42
DUQ	4.23
ЕКРС	-0.36
FE-ATSI	55.32
JCPL	52.66
LINDVFT	5.32
METED	62.15
NEPTHVDC	9.97
O66HVDC	5.11
PECO	83.00
PENELEC	31.63
PEPCO	-161.71
PLGRP	164.91
PSEG	72.97
RECO	2.99
Total PJM Change	-17.05
Zones that decrease	-707.29
Zones that increase	690.24

Change in 15-Year Net Present Value of Net Load Payment Project 9A

PJM ZONE		NLP NPV (\$)
AECO	\$	17,903,639
AEP	\$	5,318,294
APS	\$	(4,738,473)
BGE	\$	(158,435,444)
COMED	\$ \$	67,467,567
DAY		1,670,667
DEOK	\$	17,188,314
DOM	\$	(382,049,485)
DPL	\$	30,415,129
DUQ	\$	4,232,346
EKPC	\$	(357,204)
FE-ATSI	\$	55,324,876
JCPL	\$	52,659,51 5
LINDVFT	\$	5,322,364
METED	\$	62,147,589
NEPTHVDC	\$	9,969,764
O66HVDC	\$	5,107,620
PECO	\$	83,000,950
PENELEC	\$	31,631,372
PEPCO	\$ \$ \$	(161,710,391)
PLGRP	\$	164,913,851
PSEG	\$	72,968,290
RECO	\$	2,994,278
Total PJM Change	\$ \$	(17,054,570)
Zones that decrease		(707,290,998)
Zones that increase	\$	690,236,427