

PJM Interconnection, L.L.C. 2750 Monroe Boulevard Audubon, PA 19403

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April 20, 2017

The Honorable Kimberly D. Bose, Secretary Federal Energy Regulatory Commission 888 First Street, N.E. Room 1A Washington, D.C. 20426

*Re: PJM Interconnection, L.L.C., Docket No. ER17-335-001 Errata to Compliance Filing to Correct PJM Tariff, Definitions T-U-V* 

Dear Secretary Bose:

On February 6, 2017, PJM Interconnection, L.L.C. ("PJM") submitted for filing revisions to the PJM Open Access Transmission Tariff ("Tariff") in compliance with the January 6, 2017 Order<sup>1</sup> of the Federal Energy Regulatory Commission ("Commission") concerning PJM's proposal for the release of excess committed capacity in PJM's Third Incremental Auction<sup>2</sup> for the 2017/2018 Delivery Year.<sup>3</sup> Recently, it has come to PJM's attention that the revisions to Tariff, Definitions, section T-U-V submitted as part of PJM's February 6 Compliance Filing contain specific language errors that require correction. This errata filing serves to correct the language errors, specifically contained in the following definitions in Tariff, Definitions, section T-U-V: "Updated VRR Curve Decrement" and "Updated VRR Curve Increment."

<sup>&</sup>lt;sup>1</sup> PJM Interconnection, L.L.C., 158 FERC ¶ 61,010 (2017) ("January 6 Order").

<sup>&</sup>lt;sup>2</sup> Capitalized terms not otherwise defined herein have the meaning specified in the Tariff, the Amended and Restated Operating Agreement of PJM Interconnection, L.L.C. ("Operating Agreement"), or the Reliability Assurance Agreement Among Load Serving Entities in the PJM Region ("RAA").

<sup>&</sup>lt;sup>3</sup> *PJM Interconnection, L.L.C.*, Compliance Filing Pursuant to January 6 Order Regarding Release of Capacity, Docket No. ER17-335-001 (Feb. 6, 2017) ("February 6 Compliance Filing").

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### I. DESCRIPTION OF ERRATA FILING AND REVISIONS

On November 9, 2016, PJM filed revisions to Tariff, Attachment DD, pursuant to section 205 of the Federal Power Act ("FPA"), 16 U.S.C. § 824d, to allow for the release, in the Third Incremental Auction for the 2017/2018 Delivery Year, of excess committed capacity resulting from the clearing of new, previously uncommitted capacity in the Capacity Performance Transition Incremental Auction ("Transition Auction") for the 2017/2018 Delivery Year.<sup>4</sup> The Commission accepted PJM's filing in the January 6 Order, conditioned on PJM submitting a compliance filing within 30 days addressing (1) end point parameters on the Sell-Offer curve; (2) combining the proposed two auctions into one auction; specifically PJM would calculate its revised load forecast, adding the MW difference (if the load forecast goes down) or subtracting the MW difference (if the load forecast goes capacity acquired through the Transition Auction for the 2017/2018 Delivery Year and (3) the allocation of the uncleared excess capacity, to load-serving entities as excess commitment credits.<sup>5</sup>

Due to an administrative oversight, PJM's February 6 Compliance Filing did not include the correct required changes to Tariff, Definitions, section T-U-V for the definitions of Updated VRR Curve Decrement and Updated VRR Curve Increment. In accordance with the directive of the Commission's Order in Docket No, ER17-355-001, PJM is submitting the following revisions to Tariff, Definitions, section T-U-V

### **Updated VRR Curve Decrement:**

"Updated VRR Curve Decrement" shall mean the portion of the Updated VRR Curve to the left of a vertical line at the level of Unforced Capacity on the x-axis of such curve equal to the net Unforced Capacity committed to the PJM Region as

<sup>&</sup>lt;sup>4</sup> *PJM Interconnection, L.L.C.,* Proposed Tariff Revisions to Allow Release of Capacity for 2017/2018 Delivery Year, Docket No. ER17-335-000 (Nov. 9, 2016) ("Transmittal Letter").

<sup>&</sup>lt;sup>5</sup> January 6 Order at PP 21-24.

a result of all prior auctions conducted for such Delivery Year (excluding net Unforced Capacity committed to the PJM Region associated with the transition provisions of Tariff Attachment DD, section 5.14D as related to the 2017/2018 Delivery Year) and adjusted, if applicable, by a change in Unforced Capacity commitments associated with the transition provision of Tariff, Attachment DD, sections 5.14C, 5.14D (as related to the 2016/2017 and 2017/2018 Delivery Years), and 5.14E.

### **Updated VRR Curve Increment:**

"Updated VRR Curve Increment" shall mean the portion of the Updated VRR Curve to the right of a vertical line at the level of Unforced Capacity on the x-axis of such curve equal to the net Unforced Capacity committed to the PJM Region as a result of all prior auctions conducted for such Delivery Year (excluding net Unforced Capacity committed to the PJM Region associated with the transition provision of Tariff, Attachment DD, section 5.14D as related to the 2016/2017 Delivery Year) and adjusted, if applicable, by a change in Unforced Capacity commitments associated with the transition provision of Tariff, Attachment DD, sections 5.14C, 5.14D (as related to the 2016/2017 and <u>2017/2018</u> Delivery Year<u>s</u>), and 5.14E.

# II. EFFECTIVE DATE AND WAIVER REQUEST

PJM respectfully requests a retroactive effective date of January 9, 2016 for the enclosed revisions consistent with the effective date requested in the February 6 Compliance Filing, for the intermediate revisions to Tariff, Definitions, section T-U-V. To the extent necessary, PJM respectfully requests waiver of the Commission's notice requirement<sup>6</sup> for this purpose. The language only pertains to the Third Incremental Auction for the 2017/2018 Delivery Year, which was held from February 27, 2017-March 3, 2017. The fact the language was not correctly recorded in the February 6 Compliance Filing did not bear on PJM's implementation of that Incremental Auction, which was conducted under the rules accepted by the Commission in its January 6 Order, including the Commission's compliance directives noted above.

<sup>&</sup>lt;sup>6</sup> 18 C.F.R. § 35.3(a)(1).

### III. DOCUMENTS ENCLOSED

With this transmittal letter, PJM submits the following attachments:

- 1) Attachment A redlined version of the proposed revised section T-U-V of the PJM electronic tariff; and
- 2) Attachment B clean version of the proposed revised section T-U-V of the PJM electronic tariff.

### IV. CORRESPONDENCE AND COMMUNICATIONS

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

individuals:

Craig Glazer Vice President–Federal Gov't Policy PJM Interconnection, L.L.C. 1200 G Street, N.W. Suite 600 Washington, D.C. 20005 (202) 423-4743 <u>craig.glazer@pjm.com</u> Jennifer Tribulski Assistant General Counsel PJM Interconnection, L.L.C. 2750 Monroe Boulevard Audubon, PA 19403 (610) 666-4363 jennifer.tribulski@pjm.com

# V. 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,<sup>7</sup> PJM will post a copy of this filing to the FERC filings section of its internet site, at the following link: <u>http://www.pjm.com/documents/ferc-manuals/ferc-filings.aspx</u> 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

<sup>&</sup>lt;sup>7</sup> See 18C.F.R §§ 35.2(e) and 385.2010(f)(3).

commissions in the PJM region<sup>8</sup> 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. A copy of this filing will be available on the Commission's eLibrary website at the following link: <u>http://www.ferc.gov/docs-filing/elibrary.asp</u> in accordance with the Commission's regulations and Order No. 714.

### VI. CONCLUSION

PJM respectfully requests that the Commission accept this correction to its February 6 Compliance Filing and grant effective date of January 9, 2017 as discussed herein.

Respectfully submitted,

Craig Glazer Vice President–Federal Gov't Policy PJM Interconnection, L.L.C. 1200 G Street, N.W. Suite 600 Washington, D.C. 20005 (202) 423-4743 <u>craig.glazer@pjm.com</u> Jennifer Tribulski Assistant General Counsel PJM Interconnection, L.L.C. 2750 Monroe Boulevard Audubon, PA 19403 (610) 666-4363 jennifer.tribulski@pjm.com

<sup>&</sup>lt;sup>8</sup> PJM already maintains, updates, and regularly uses e-mail lists for all PJM Members and affected state commissions.

# **CERTIFICATE OF SERVICE**

I hereby certify that I have this day served the foregoing document upon each person designated on the official service list compiled by the Secretary in this proceeding.

Dated at Audubon, PA, this 20<sup>th</sup> day of April, 2017.

AN2.

Jennifer Tribulski Attorney for PJM Interconnection, L.L.C.

# Attachment A

# Revisions to the PJM Open Access Transmission Tariff

(Marked / Redline Format)

# **Definitions – T – U - V**

### **Tangible Net Worth:**

"Tangible Net Worth" shall mean all assets (not including any intangible assets such as goodwill) less all liabilities. Any such calculation may be reduced by PJMSettlement upon review of the available financial information.

### **Target Allocation:**

"Target Allocation" shall mean the allocation of Transmission Congestion Credits as set forth in Operating Agreement, Schedule 1, section 5.2.3, and the parallel provisions of Tariff, Attachment K-Appendix, or the allocation of Auction Revenue Rights Credits as set forth in Operating Agreement, Schedule 1, section 7.4.3, and the parallel provisions of Tariff, Attachment K-Appendix.

### **Third Incremental Auction:**

"Third Incremental Auction" shall mean an Incremental Auction conducted three months before the Delivery Year to which it relates.

### **Third-Party Sale:**

"Third-Party Sale" shall mean any sale for resale in interstate commerce to a Power Purchaser that is not designated as part of Network Load under the Network Integration Transmission Service but not including a sale of energy through the PJM Interchange Energy Market established under the PJM Operating Agreement.

### **Total Net Obligation:**

"Total Net Obligation" shall mean all unpaid billed Net Obligations plus any unbilled Net Obligation incurred to date, as determined by PJMSettlement on a daily basis, plus any other Obligations owed to PJMSettlement at the time.

### **Total Net Sell Position:**

"Total Net Sell Position" shall mean all unpaid billed Net Sell Positions plus any unbilled Net Sell Positions accrued to date, as determined by PJMSettlement on a daily basis.

### **Transmission Congestion Charge:**

"Transmission Congestion Charge" shall mean a charge attributable to the increased cost of energy delivered at a given load bus when the transmission system serving that load bus is operating under constrained conditions, or as necessary to provide energy for third-party transmission losses which shall be calculated and allocated as specified in Operating Agreement, Schedule 1, section 5.1 and the parallel provisions of Tariff, Attachment K-Appendix.

# **Transmission Congestion Credit:**

"Transmission Congestion Credit" shall mean the allocated share of total Transmission Congestion Charges credited to each FTR Holder, calculated and allocated as specified in Operating Agreement, Schedule 1, section 5.2, and the parallel provisions of Tariff, Attachment K-Appendix.

### **Transmission Customer:**

"Transmission Customer" shall mean any Eligible Customer (or its Designated Agent) that (i) executes a Service Agreement, or (ii) requests in writing that the Transmission Provider file with the Commission, a proposed unexecuted Service Agreement to receive transmission service under Tariff, Part II. This term is used in the Tariff, Part I Common Service Provisions and in Tariff, Part VI to include customers receiving transmission service under Tariff, Part II and Part III.

Where used in Attachment K-Appendix of the Tariff or Schedule 1 of the Operating Agreement, Transmission Customer shall mean an entity using Point-to-Point Transmission Service.

### **Transmission Facilities:**

"Transmission Facilities" shall have the meaning set forth in the Operating Agreement.

### **Transmission Forced Outage:**

"Transmission Forced Outage" shall mean an immediate removal from service of a transmission facility by reason of an Emergency or threatened Emergency, unanticipated failure, or other cause beyond the control of the owner or operator of the transmission facility, as specified in the relevant portions of the PJM Manuals. A removal from service of a transmission facility at the request of the Office of the Interconnection to improve transmission capability shall not constitute a Forced Transmission Outage.

### **Transmission Injection Rights:**

"Transmission Injection Rights" shall mean Capacity Transmission Injection Rights and Energy Transmission Injection Rights.

### **Transmission Interconnection Customer:**

"Transmission Interconnection Customer" shall mean an entity that submits an Interconnection Request to interconnect or add Merchant Transmission Facilities to the Transmission System or to increase the capacity of Merchant Transmission Facilities interconnected with the Transmission System in the PJM Region or an entity that submits an Upgrade Request for Merchant Network Upgrades (including accelerating the construction of any transmission enhancement or expansion, other than Merchant Transmission Facilities, that is included in the Regional Transmission Expansion Plan prepared pursuant to Schedule 6 of the Operating Agreement).

# **Transmission Interconnection Facilities Study:**

"Transmission Interconnection Facilities Study" shall mean a Facilities Study related to a Transmission Interconnection Request.

### **Transmission Interconnection Feasibility Study:**

"Transmission Interconnection Feasibility Study" shall mean a study conducted by the Transmission Provider in accordance with Section 36.2 of the Tariff.

### **Transmission Interconnection Request:**

"Transmission Interconnection Request" shall mean a request by a Transmission Interconnection Customer pursuant to Tariff, Part IV to interconnect or add Merchant Transmission Facilities to the Transmission System or to increase the capacity of existing Merchant Transmission Facilities interconnected with the Transmission System in the PJM Region.

### **Transmission Loading Relief:**

"Transmission Loading Relief" shall mean NERC's procedures for preventing operating security limit violations, as implemented by PJM as the security coordinator responsible for maintaining transmission security for the PJM Region.

### **Transmission Loading Relief Customer:**

"Transmission Loading Relief Customer" shall mean an entity that, in accordance with Operating Agreement, Schedule 1, section 1.10.6A and the parallel provisions of Tariff, Attachment K-Appendix, has elected to pay Transmission Congestion Charges during Transmission Loading Relief in order to continue energy schedules over contract paths outside the PJM Region that are increasing the cost of energy in the PJM Region.

### **Transmission Loss Charge:**

"Transmission Loss Charge" shall mean the charges to each Market Participant, Network Customer, or Transmission Customer for the cost of energy lost in the transmission of electricity from a generation resource to load as specified in Operating Agreement, Schedule 1, section 5, and the parallel provisions of Tariff, Attachment K-Appendix.

#### **Transmission Owner:**

"Transmission Owner" shall mean each entity that owns, leases or otherwise has a possessory interest in facilities used for the transmission of electric energy in interstate commerce under the Tariff. The Transmission Owners are listed in Tariff, Attachment L.

### **Transmission Owner Attachment Facilities:**

"Transmission Owner Attachment Facilities" shall mean that portion of the Transmission Owner Interconnection Facilities comprised of all Attachment Facilities on the Interconnected Transmission Owner's side of the Point of Interconnection.

### **Transmission Owner Interconnection Facilities:**

"Transmission Owner Interconnection Facilities" shall mean all Interconnection Facilities that are not Customer Interconnection Facilities and that, after the transfer under Section 5.5 of Appendix 2 to Attachment P of the PJM Tariff to the Interconnected Transmission Owner of title to any Transmission Owner Interconnection Facilities that the Interconnection Customer constructed, are owned, controlled, operated and maintained by the Interconnected Transmission Owner on the Interconnected Transmission Owner's side of the Point of Interconnection identified in appendices to the Interconnection Service Agreement and to the Interconnection Construction Service Agreement, including any modifications, additions or upgrades made to such facilities and equipment, that are necessary to physically and electrically interconnect the Customer Facility with the Transmission System or interconnected distribution facilities.

### **Transmission Owner Upgrade:**

"Transmission Owner Upgrade" shall have the same meaning provided in the Operating Agreement.

# **Transmission Planned Outage:**

"Transmission Planned Outage" shall mean any transmission outage scheduled in advance for a pre-determined duration and which meets the notification requirements for such outages specified in Operating Agreement, Schedule 1, and the parallel provisions of Tariff, Attachment K-Appendix or the PJM Manuals.

### **Transmission Provider:**

The "Transmission Provider" shall be the Office of the Interconnection for all purposes, provided that the Transmission Owners will have the responsibility for the following specified activities:

(a) The Office of the Interconnection shall direct the operation and coordinate the maintenance of the Transmission System, except that the Transmission Owners will continue to direct the operation and maintenance of those transmission facilities that are not listed in the PJM Designated Facilities List contained in the PJM Manual on Transmission Operations;

(b) Each Transmission Owner shall physically operate and maintain all of the facilities that it owns; and

(c) When studies conducted by the Office of the Interconnection indicate that enhancements or modifications to the Transmission System are necessary, the Transmission Owners shall have the responsibility, in accordance with the applicable terms of the Tariff, Operating Agreement and/or the Consolidated Transmission Owners Agreement to construct, own, and finance the needed facilities or enhancements or modifications to facilities.

# Transmission Provider's Monthly Transmission System Peak:

"Transmission Provider's Monthly Transmission System Peak" shall mean the maximum firm usage of the Transmission Provider's Transmission System in a calendar month.

### **Transmission Service:**

"Transmission Service" shall mean Point-To-Point Transmission Service provided under Tariff, Part II on a firm and non-firm basis.

### **Transmission Service Request:**

"Transmission Service Request" shall mean a request for Firm Point-To-Point Transmission Service or a request for Network Integration Transmission Service.

### **Transmission System:**

"Transmission System" shall mean the facilities controlled or operated by the Transmission Provider within the PJM Region that are used to provide transmission service under Tariff, Part II and Part III.

### **Transmission Withdrawal Rights:**

"Transmission Withdrawal Rights" shall mean Firm Transmission Withdrawal Rights and Non-Firm Transmission Withdrawal Rights.

### **Uncleared Bid Exposure:**

"Uncleared Bid Exposure" shall be a measure of exposure from Increment Offers and Decrement Bids activity relative to a Participant's established credit as defined in Tariff, Attachment Q. It is used only as a pre-screen to determine whether a Participant's Increment Offers and Decrement Bids should be subject to Increment Offer and Decrement Bid Screening.

### **Unconstrained LDA Group:**

"Unconstrained LDA Group" shall mean a combined group of LDAs that form an electrically contiguous area and for which a separate Variable Resource Requirement Curve has not been established under Tariff, Attachment DD, section 5.10. Any LDA for which a separate Variable Resource Requirement Curve has not been established under Tariff, Attachment DD, section 5.10 shall be combined with all other such LDAs that form an electrically contiguous area.

# **Unforced Capacity:**

"Unforced Capacity" shall have the meaning specified in the Reliability Assurance Agreement.

### **Unsecured Credit:**

"Unsecured Credit" shall mean any credit granted by PJMSettlement to a Participant that is not secured by a form of Financial Security.

### **Unsecured Credit Allowance:**

"Unsecured Credit Allowance" shall mean Unsecured Credit extended by PJMSettlement in an amount determined by PJMSettlement's evaluation of the creditworthiness of a Participant. This is also defined as the amount of credit that a Participant qualifies for based on the strength of its own financial condition without having to provide Financial Security. See also: "Working Credit Limit."

### **Updated VRR Curve:**

"Updated VRR Curve" shall mean the Variable Resource Requirement Curve for use in the Base Residual Auction of the relevant Delivery Year, updated to reflect any change in the Reliability Requirement from the Base Residual Auction to such Incremental Auction, and for Delivery Years through May 31, 2018, the Short-term Resource Procurement Target applicable to the relevant Incremental Auction.

### **Updated VRR Curve Decrement:**

"Updated VRR Curve Decrement" shall mean the portion of the Updated VRR Curve to the left of a vertical line at the level of Unforced Capacity on the x-axis of such curve equal to the net Unforced Capacity committed to the PJM Region as a result of all prior auctions conducted for such Delivery Year (excluding net Unforced Capacity committed to the PJM Region associated with the transition provisions of Tariff Attachment DD, section 5.14D as related to the 2017/2018 Delivery Year) and adjusted, if applicable, by a change in Unforced Capacity commitments associated with the transition provision of Tariff, Attachment DD, sections 5.14C, 5.14D (as related to the 2016/2017 and 2017/2018 Delivery Years), and 5.14E.

# **Updated VRR Curve Increment:**

"Updated VRR Curve Increment" shall mean the portion of the Updated VRR Curve to the right of a vertical line at the level of Unforced Capacity on the x-axis of such curve equal to the net Unforced Capacity committed to the PJM Region as a result of all prior auctions conducted for such Delivery Year (excluding net Unforced Capacity committed to the PJM Region associated with the transition provision of Tariff, Attachment DD, section 5.14D as related to the 2016/2017 Delivery Year) and adjusted, if applicable, by a change in Unforced Capacity commitments associated with the transition provision of Tariff, Attachment DD, sections 5.14C, 5.14D (as related to the 2016/2017 and 2017/2018 Delivery Years), and 5.14E.

### **Upgrade Construction Service Agreement:**

"Upgrade Construction Service Agreement" shall mean that agreement entered into by an Eligible Customer, Upgrade Customer or Interconnection Customer proposing Merchant Network Upgrades, a Transmission Owner, and the Transmission Provider, pursuant to Tariff, Part VI, Subpart B, and in the form set forth in Attachment GG of the Tariff.

### **Upgrade Customer:**

"Upgrade Customer" shall mean a customer that submits an Upgrade Request pursuant to Section 7.8 of Schedule 1 of the Operating Agreement.

### **Upgrade-Related Rights:**

"Upgrade-Related Rights" shall mean Incremental Auction Revenue Rights, Incremental Available Transfer Capability Revenue Rights, Incremental Deliverability Rights, and Incremental Capacity Transfer Rights.

### **Upgrade Request:**

"Upgrade Request" shall mean a request submitted in the form prescribed in Attachment EE of the Tariff, for evaluation by the Transmission Provider of the feasibility and estimated costs of (a) a Merchant Network Upgrade or (b) the Customer-Funded Upgrades that would be needed to provide Incremental Auction Revenue Rights specified in a request pursuant to Section 7.8 of Schedule 1 of the Operating Agreement.

### **Up-to Congestion Counterflow Transaction:**

"Up-to Congestion Counterflow Transaction" shall mean an Up-to Congestion Transaction will be deemed an Up-to Congestion Counterflow Transaction if the following value is negative: (a) when bidding, the lower of the bid price and the prior Up-to Congestion Historical Month's average real-time value for the transaction; or (b) for cleared Virtual Transactions, the cleared day-ahead price of the Virtual Transactions.

# **Up-to Congestion Historical Month:**

"Up-to Congestion Historical Month" shall mean a consistently-defined historical period nominally one month long that is as close to a calendar month as PJM determines is practical.

### **Up-to Congestion Prevailing Flow Transaction:**

An Up-to Congestion Transaction will be deemed an "Up-to Congestion Prevailing Flow Transaction" if it is not an Up-to Congestion Counterflow Transaction.

# **Up-to Congestion Reference Price:**

"Up-to Congestion Reference Price" for an Up-to Congestion Transaction, shall be the specified percentile price differential between source and sink (defined as sink price minus source price) for hourly real-time prices experienced over the prior Up-to Congestion Historical Month, averaged with the same percentile value calculated for the second prior Up-to Congestion Historical Month. Up-to Congestion Reference Prices shall be calculated using the following historical percentiles:

For Up-to Congestion Prevailing Flow Transactions: 30<sup>th</sup> percentile For Up-to Congestion Counterflow Transactions when bid: 20<sup>th</sup> percentile For Up-to Congestion Counterflow Transactions when cleared: 5<sup>th</sup> percentile

### **Up-to Congestion Transaction:**

"Up-to Congestion Transaction" shall have the meaning specified in Operating Agreement, Schedule 1, section 1.10.1A, and the parallel provisions of Tariff, Attachment K-Appendix.

### Variable Loads:

"Variable Loads" shall have the meaning specified in Operating Agreement, Schedule 1, section 1.5A.6, and the parallel provisions of Tariff, Attachment K-Appendix.

### Variable Resource Requirement Curve:

"Variable Resource Requirement Curve" shall mean a series of maximum prices that can be cleared in a Base Residual Auction for Unforced Capacity, corresponding to a series of varying resource requirements based on varying installed reserve margins, as determined by the Office of the Interconnection for the PJM Region and for certain Locational Deliverability Areas in accordance with the methodology provided in Tariff, Attachment DD, section 5.

### Virtual Credit Exposure:

"Virtual Credit Exposure" shall be the amount of potential credit exposure created by a market participant's bid submitted into the Day-ahead market, as defined in Tariff, Attachment Q.

### **Virtual Transaction:**

"Virtual Transaction" shall mean a Decrement Bid, Increment Offer and/or Up-to Congestion Transaction.

### **Virtual Transaction Screening:**

"Virtual Transaction Screening" shall be the process of reviewing the Virtual Credit Exposure of submitted Virtual Transactions against the Credit Available for Virtual Transactions. If the credit required is greater than credit available, then the Virtual Transactions will not be accepted.

# Virtual Transactions Net Activity:

"Virtual Transactions Net Activity" shall mean the aggregate net total, resulting from Virtual Transactions, of (i) Spot Market Energy charges, (ii) Transmission Congestion Charges, and (iii) Transmission Loss Charges, calculated as set forth in Attachment K-Appendix. Virtual Transactions Net Activity may be positive or negative.

# Attachment B

# Revisions to the PJM Open Access Transmission Tariff

(Clean Format)

# **Definitions – T – U - V**

### **Tangible Net Worth:**

"Tangible Net Worth" shall mean all assets (not including any intangible assets such as goodwill) less all liabilities. Any such calculation may be reduced by PJMSettlement upon review of the available financial information.

### **Target Allocation:**

"Target Allocation" shall mean the allocation of Transmission Congestion Credits as set forth in Operating Agreement, Schedule 1, section 5.2.3, and the parallel provisions of Tariff, Attachment K-Appendix, or the allocation of Auction Revenue Rights Credits as set forth in Operating Agreement, Schedule 1, section 7.4.3, and the parallel provisions of Tariff, Attachment K-Appendix.

### **Third Incremental Auction:**

"Third Incremental Auction" shall mean an Incremental Auction conducted three months before the Delivery Year to which it relates.

### **Third-Party Sale:**

"Third-Party Sale" shall mean any sale for resale in interstate commerce to a Power Purchaser that is not designated as part of Network Load under the Network Integration Transmission Service but not including a sale of energy through the PJM Interchange Energy Market established under the PJM Operating Agreement.

### **Total Net Obligation:**

"Total Net Obligation" shall mean all unpaid billed Net Obligations plus any unbilled Net Obligation incurred to date, as determined by PJMSettlement on a daily basis, plus any other Obligations owed to PJMSettlement at the time.

### **Total Net Sell Position:**

"Total Net Sell Position" shall mean all unpaid billed Net Sell Positions plus any unbilled Net Sell Positions accrued to date, as determined by PJMSettlement on a daily basis.

### **Transmission Congestion Charge:**

"Transmission Congestion Charge" shall mean a charge attributable to the increased cost of energy delivered at a given load bus when the transmission system serving that load bus is operating under constrained conditions, or as necessary to provide energy for third-party transmission losses which shall be calculated and allocated as specified in Operating Agreement, Schedule 1, section 5.1 and the parallel provisions of Tariff, Attachment K-Appendix.

# **Transmission Congestion Credit:**

"Transmission Congestion Credit" shall mean the allocated share of total Transmission Congestion Charges credited to each FTR Holder, calculated and allocated as specified in Operating Agreement, Schedule 1, section 5.2, and the parallel provisions of Tariff, Attachment K-Appendix.

### **Transmission Customer:**

"Transmission Customer" shall mean any Eligible Customer (or its Designated Agent) that (i) executes a Service Agreement, or (ii) requests in writing that the Transmission Provider file with the Commission, a proposed unexecuted Service Agreement to receive transmission service under Tariff, Part II. This term is used in the Tariff, Part I Common Service Provisions and in Tariff, Part VI to include customers receiving transmission service under Tariff, Part II and Part III.

Where used in Attachment K-Appendix of the Tariff or Schedule 1 of the Operating Agreement, Transmission Customer shall mean an entity using Point-to-Point Transmission Service.

### **Transmission Facilities:**

"Transmission Facilities" shall have the meaning set forth in the Operating Agreement.

### **Transmission Forced Outage:**

"Transmission Forced Outage" shall mean an immediate removal from service of a transmission facility by reason of an Emergency or threatened Emergency, unanticipated failure, or other cause beyond the control of the owner or operator of the transmission facility, as specified in the relevant portions of the PJM Manuals. A removal from service of a transmission facility at the request of the Office of the Interconnection to improve transmission capability shall not constitute a Forced Transmission Outage.

### **Transmission Injection Rights:**

"Transmission Injection Rights" shall mean Capacity Transmission Injection Rights and Energy Transmission Injection Rights.

### **Transmission Interconnection Customer:**

"Transmission Interconnection Customer" shall mean an entity that submits an Interconnection Request to interconnect or add Merchant Transmission Facilities to the Transmission System or to increase the capacity of Merchant Transmission Facilities interconnected with the Transmission System in the PJM Region or an entity that submits an Upgrade Request for Merchant Network Upgrades (including accelerating the construction of any transmission enhancement or expansion, other than Merchant Transmission Facilities, that is included in the Regional Transmission Expansion Plan prepared pursuant to Schedule 6 of the Operating Agreement).

# **Transmission Interconnection Facilities Study:**

"Transmission Interconnection Facilities Study" shall mean a Facilities Study related to a Transmission Interconnection Request.

### **Transmission Interconnection Feasibility Study:**

"Transmission Interconnection Feasibility Study" shall mean a study conducted by the Transmission Provider in accordance with Section 36.2 of the Tariff.

### **Transmission Interconnection Request:**

"Transmission Interconnection Request" shall mean a request by a Transmission Interconnection Customer pursuant to Tariff, Part IV to interconnect or add Merchant Transmission Facilities to the Transmission System or to increase the capacity of existing Merchant Transmission Facilities interconnected with the Transmission System in the PJM Region.

### **Transmission Loading Relief:**

"Transmission Loading Relief" shall mean NERC's procedures for preventing operating security limit violations, as implemented by PJM as the security coordinator responsible for maintaining transmission security for the PJM Region.

### **Transmission Loading Relief Customer:**

"Transmission Loading Relief Customer" shall mean an entity that, in accordance with Operating Agreement, Schedule 1, section 1.10.6A and the parallel provisions of Tariff, Attachment K-Appendix, has elected to pay Transmission Congestion Charges during Transmission Loading Relief in order to continue energy schedules over contract paths outside the PJM Region that are increasing the cost of energy in the PJM Region.

### **Transmission Loss Charge:**

"Transmission Loss Charge" shall mean the charges to each Market Participant, Network Customer, or Transmission Customer for the cost of energy lost in the transmission of electricity from a generation resource to load as specified in Operating Agreement, Schedule 1, section 5, and the parallel provisions of Tariff, Attachment K-Appendix.

#### **Transmission Owner:**

"Transmission Owner" shall mean each entity that owns, leases or otherwise has a possessory interest in facilities used for the transmission of electric energy in interstate commerce under the Tariff. The Transmission Owners are listed in Tariff, Attachment L.

### **Transmission Owner Attachment Facilities:**

"Transmission Owner Attachment Facilities" shall mean that portion of the Transmission Owner Interconnection Facilities comprised of all Attachment Facilities on the Interconnected Transmission Owner's side of the Point of Interconnection.

### **Transmission Owner Interconnection Facilities:**

"Transmission Owner Interconnection Facilities" shall mean all Interconnection Facilities that are not Customer Interconnection Facilities and that, after the transfer under Section 5.5 of Appendix 2 to Attachment P of the PJM Tariff to the Interconnected Transmission Owner of title to any Transmission Owner Interconnection Facilities that the Interconnection Customer constructed, are owned, controlled, operated and maintained by the Interconnected Transmission Owner on the Interconnected Transmission Owner's side of the Point of Interconnection identified in appendices to the Interconnection Service Agreement and to the Interconnection Construction Service Agreement, including any modifications, additions or upgrades made to such facilities and equipment, that are necessary to physically and electrically interconnect the Customer Facility with the Transmission System or interconnected distribution facilities.

### **Transmission Owner Upgrade:**

"Transmission Owner Upgrade" shall have the same meaning provided in the Operating Agreement.

# **Transmission Planned Outage:**

"Transmission Planned Outage" shall mean any transmission outage scheduled in advance for a pre-determined duration and which meets the notification requirements for such outages specified in Operating Agreement, Schedule 1, and the parallel provisions of Tariff, Attachment K-Appendix or the PJM Manuals.

### **Transmission Provider:**

The "Transmission Provider" shall be the Office of the Interconnection for all purposes, provided that the Transmission Owners will have the responsibility for the following specified activities:

(a) The Office of the Interconnection shall direct the operation and coordinate the maintenance of the Transmission System, except that the Transmission Owners will continue to direct the operation and maintenance of those transmission facilities that are not listed in the PJM Designated Facilities List contained in the PJM Manual on Transmission Operations;

(b) Each Transmission Owner shall physically operate and maintain all of the facilities that it owns; and

(c) When studies conducted by the Office of the Interconnection indicate that enhancements or modifications to the Transmission System are necessary, the Transmission Owners shall have the responsibility, in accordance with the applicable terms of the Tariff, Operating Agreement and/or the Consolidated Transmission Owners Agreement to construct, own, and finance the needed facilities or enhancements or modifications to facilities.

# Transmission Provider's Monthly Transmission System Peak:

"Transmission Provider's Monthly Transmission System Peak" shall mean the maximum firm usage of the Transmission Provider's Transmission System in a calendar month.

### **Transmission Service:**

"Transmission Service" shall mean Point-To-Point Transmission Service provided under Tariff, Part II on a firm and non-firm basis.

### **Transmission Service Request:**

"Transmission Service Request" shall mean a request for Firm Point-To-Point Transmission Service or a request for Network Integration Transmission Service.

### **Transmission System:**

"Transmission System" shall mean the facilities controlled or operated by the Transmission Provider within the PJM Region that are used to provide transmission service under Tariff, Part II and Part III.

### **Transmission Withdrawal Rights:**

"Transmission Withdrawal Rights" shall mean Firm Transmission Withdrawal Rights and Non-Firm Transmission Withdrawal Rights.

### **Uncleared Bid Exposure:**

"Uncleared Bid Exposure" shall be a measure of exposure from Increment Offers and Decrement Bids activity relative to a Participant's established credit as defined in Tariff, Attachment Q. It is used only as a pre-screen to determine whether a Participant's Increment Offers and Decrement Bids should be subject to Increment Offer and Decrement Bid Screening.

### **Unconstrained LDA Group:**

"Unconstrained LDA Group" shall mean a combined group of LDAs that form an electrically contiguous area and for which a separate Variable Resource Requirement Curve has not been established under Tariff, Attachment DD, section 5.10. Any LDA for which a separate Variable Resource Requirement Curve has not been established under Tariff, Attachment DD, section 5.10 shall be combined with all other such LDAs that form an electrically contiguous area.

# **Unforced Capacity:**

"Unforced Capacity" shall have the meaning specified in the Reliability Assurance Agreement.

# **Unsecured Credit:**

"Unsecured Credit" shall mean any credit granted by PJMSettlement to a Participant that is not secured by a form of Financial Security.

### **Unsecured Credit Allowance:**

"Unsecured Credit Allowance" shall mean Unsecured Credit extended by PJMSettlement in an amount determined by PJMSettlement's evaluation of the creditworthiness of a Participant. This is also defined as the amount of credit that a Participant qualifies for based on the strength of its own financial condition without having to provide Financial Security. See also: "Working Credit Limit."

### **Updated VRR Curve:**

"Updated VRR Curve" shall mean the Variable Resource Requirement Curve for use in the Base Residual Auction of the relevant Delivery Year, updated to reflect any change in the Reliability Requirement from the Base Residual Auction to such Incremental Auction, and for Delivery Years through May 31, 2018, the Short-term Resource Procurement Target applicable to the relevant Incremental Auction.

### **Updated VRR Curve Decrement:**

"Updated VRR Curve Decrement" shall mean the portion of the Updated VRR Curve to the left of a vertical line at the level of Unforced Capacity on the x-axis of such curve equal to the net Unforced Capacity committed to the PJM Region as a result of all prior auctions conducted for such Delivery Year and adjusted, if applicable, by a change in Unforced Capacity commitments associated with the transition provision of Tariff, Attachment DD, sections 5.14C, 5.14D (as related to the 2016/2017 and 2017/2018 Delivery Years), and 5.14E.

# **Updated VRR Curve Increment:**

"Updated VRR Curve Increment" shall mean the portion of the Updated VRR Curve to the right of a vertical line at the level of Unforced Capacity on the x-axis of such curve equal to the net Unforced Capacity committed to the PJM Region as a result of all prior auctions conducted for such Delivery Year and adjusted, if applicable, by a change in Unforced Capacity commitments associated with the transition provision of Tariff, Attachment DD, sections 5.14C, 5.14D (as related to the 2016/2017 and 2017/2018 Delivery Years), and 5.14E.

# **Upgrade Construction Service Agreement:**

"Upgrade Construction Service Agreement" shall mean that agreement entered into by an Eligible Customer, Upgrade Customer or Interconnection Customer proposing Merchant Network Upgrades, a Transmission Owner, and the Transmission Provider, pursuant to Tariff, Part VI, Subpart B, and in the form set forth in Attachment GG of the Tariff.

# **Upgrade Customer:**

"Upgrade Customer" shall mean a customer that submits an Upgrade Request pursuant to Section 7.8 of Schedule 1 of the Operating Agreement.

# **Upgrade-Related Rights:**

"Upgrade-Related Rights" shall mean Incremental Auction Revenue Rights, Incremental Available Transfer Capability Revenue Rights, Incremental Deliverability Rights, and Incremental Capacity Transfer Rights.

# **Upgrade Request:**

"Upgrade Request" shall mean a request submitted in the form prescribed in Attachment EE of the Tariff, for evaluation by the Transmission Provider of the feasibility and estimated costs of (a) a Merchant Network Upgrade or (b) the Customer-Funded Upgrades that would be needed to provide Incremental Auction Revenue Rights specified in a request pursuant to Section 7.8 of Schedule 1 of the Operating Agreement.

# **Up-to Congestion Counterflow Transaction:**

"Up-to Congestion Counterflow Transaction" shall mean an Up-to Congestion Transaction will be deemed an Up-to Congestion Counterflow Transaction if the following value is negative: (a) when bidding, the lower of the bid price and the prior Up-to Congestion Historical Month's average real-time value for the transaction; or (b) for cleared Virtual Transactions, the cleared day-ahead price of the Virtual Transactions.

# **Up-to Congestion Historical Month:**

"Up-to Congestion Historical Month" shall mean a consistently-defined historical period nominally one month long that is as close to a calendar month as PJM determines is practical.

# **Up-to Congestion Prevailing Flow Transaction:**

An Up-to Congestion Transaction will be deemed an "Up-to Congestion Prevailing Flow Transaction" if it is not an Up-to Congestion Counterflow Transaction.

# **Up-to Congestion Reference Price:**

"Up-to Congestion Reference Price" for an Up-to Congestion Transaction, shall be the specified percentile price differential between source and sink (defined as sink price minus source price)

for hourly real-time prices experienced over the prior Up-to Congestion Historical Month, averaged with the same percentile value calculated for the second prior Up-to Congestion Historical Month. Up-to Congestion Reference Prices shall be calculated using the following historical percentiles:

For Up-to Congestion Prevailing Flow Transactions: 30<sup>th</sup> percentile For Up-to Congestion Counterflow Transactions when bid: 20<sup>th</sup> percentile For Up-to Congestion Counterflow Transactions when cleared: 5<sup>th</sup> percentile

### **Up-to Congestion Transaction:**

"Up-to Congestion Transaction" shall have the meaning specified in Operating Agreement, Schedule 1, section 1.10.1A, and the parallel provisions of Tariff, Attachment K-Appendix.

### Variable Loads:

"Variable Loads" shall have the meaning specified in Operating Agreement, Schedule 1, section 1.5A.6, and the parallel provisions of Tariff, Attachment K-Appendix.

### Variable Resource Requirement Curve:

"Variable Resource Requirement Curve" shall mean a series of maximum prices that can be cleared in a Base Residual Auction for Unforced Capacity, corresponding to a series of varying resource requirements based on varying installed reserve margins, as determined by the Office of the Interconnection for the PJM Region and for certain Locational Deliverability Areas in accordance with the methodology provided in Tariff, Attachment DD, section 5.

### Virtual Credit Exposure:

"Virtual Credit Exposure" shall be the amount of potential credit exposure created by a market participant's bid submitted into the Day-ahead market, as defined in Tariff, Attachment Q.

### **Virtual Transaction:**

"Virtual Transaction" shall mean a Decrement Bid, Increment Offer and/or Up-to Congestion Transaction.

### **Virtual Transaction Screening:**

"Virtual Transaction Screening" shall be the process of reviewing the Virtual Credit Exposure of submitted Virtual Transactions against the Credit Available for Virtual Transactions. If the credit required is greater than credit available, then the Virtual Transactions will not be accepted.

### Virtual Transactions Net Activity:

"Virtual Transactions Net Activity" shall mean the aggregate net total, resulting from Virtual Transactions, of (i) Spot Market Energy charges, (ii) Transmission Congestion Charges, and (iii) Transmission Loss Charges, calculated as set forth in Attachment K-Appendix. Virtual Transactions Net Activity may be positive or negative.