FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, DC 20426

OFFICE OF ENERGY MARKET REGULATION

In Reply Refer To: PJM Interconnection, L.L.C Docket No. ER22-360-000

Issued: January 6, 2022

Wright & Talisman, P.C. 1200 G Street, NW, Suite 600 Washington, DC 20005-3898 Attention: Elizabeth P. Trinkle

Reference: Notice of Cancellation of Service Agreement No. 4601

On November 8, 2021, you filed, on behalf of PJM Interconnection, L.L.C. (PJM), a notice of cancellation of a Wholesale Market Participation Agreement (WMPA) among PJM, as Transmission Provider, Appalachian Power Company, as Wholesale Market Participant, and Appalachian Power Company, as Transmission Owner, designated as Service Agreement No. 4601 (Broadford Solar WMPA). You state that the Broadford Solar WMPA is being cancelled because the Wholesale Market Participant has decided not to move forward with its project and will not engage in wholesale sales in the PJM markets from a generating facility connected to the Transmission Owner's distribution facilities. PJM requested that the cancellation of the Broadford Solar WMPA be accepted effective February 5, 2019. Pursuant to authority delegated to the Director, Division of Electric Power Regulation – East, under 18 C.F.R. § 375.307 (2021), the submittal is accepted for filing, effective February 5, 2019, as requested.

The filing was publicly noticed, with interventions and protests due on or before November 29, 2021. Pursuant to Rule 214 of the Commission's regulations (18 C.F.R. §

¹ PJM Interconnection, L.L.C., PJM Service Agreements Tariff, <u>PJM SA No.</u> 4601, PJM SA No. 4601 Among PJM, APCo, and AEP (1.0.0).

² See 18 C.F.R. § 35.11 (2021); Cent. Hudson Gas & Elec. Corp., 60 FERC ¶ 61,106, reh'g denied, 61 FERC ¶ 61,089 (1992); but see Sunflower Elec. Power Corp., 173 FERC ¶ 61,054 (2020) (Danly, Comm'r, dissenting). Contrary to the requirements of section 35.15 of the Commission's regulations (18 C.F.R. § 35.15 (2021), PJM failed to submit the notice of cancellation in a timely manner. PJM is reminded that it must submit required filings on a timely basis or face possible sanctions by the Commission.

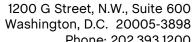
385.214 (2021)), notices of intervention, timely-filed motions to intervene, and any unopposed motions to intervene out-of-time filed before the issuance date of this order are granted. Granting a late intervention at this stage of the proceeding will not disrupt the proceeding or place additional burdens on existing parties. No protests or adverse comments were filed.

This action does not constitute approval of any service, rate, charge, classification, or any rule, regulation, contract, or practice affecting such rate or service provided for in the filed document(s); nor shall such action be deemed as recognition of any claimed contractual right or obligation affecting or relating to such service or rate; and such action is without prejudice to any findings or orders which have been or may hereafter be made by the Commission in any proceeding now pending or hereafter instituted by or against the applicant.

This order constitutes final agency action. Requests for rehearing by the Commission may be filed within 30 days of the date of issuance of this order, pursuant to 18 C.F.R. § 385.713 (2021)

Issued by: Kurt M. Longo, Director, Division of Electric Power Regulation – East

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Washington, D.C. 20005-3898 Phone: 202.393.1200

Fax: 202.393.1240 wrightlaw.com



November 8, 2021

Kimberly D. Bose Secretary Federal Energy Regulatory Commission 888 First Street, NE, Room 1A Washington, DC 20426

PJM Interconnection, L.L.C., Docket No. ER22-360-000 Re:

Notice of Cancellation of WMPA, SA No. 4601; Queue Nos. AB2-010/AB2-011

Dear Secretary Bose:

I. **DESCRIPTION OF FILING**

PJM Interconnection, L.L.C. ("PJM") submits this filing to notify the Federal Energy Regulatory Commission ("Commission") of the cancellation of an executed Wholesale Market Participation Agreement ("WMPA") entered into among PJM, Appalachian Power Company ("Wholesale Market Participant"), and Appalachian Power Company ("Transmission Owner") ("Broadford Solar WMPA"). The Broadford Solar WMPA is associated with PJM Queue Nos. AB2-010/AB2-011, was designated as Original Service Agreement No. 4601, and was accepted by the Commission, effective December 13, 2016.² The Broadford Solar WMPA is being cancelled because Wholesale Market Participant has decided not to move forward with its project and will not engage in wholesale sales in the PJM markets from a generating facility connected to Transmission

¹ PJM, Wholesale Market Participant, and Transmission Owner collectively are referred to herein as the

² PJM Interconnection, L.L.C., Letter Order, Wholesale Market Participation Agreement, Docket No. ER17-784-000 (Mar. 2, 2017).

Owner's distribution facilities. PJM requests an effective date of February 5, 2019, for this cancellation.

II. WAIVER AND EFFECTIVE DATE

To the extent the Commission considers this filing to be a notice of cancellation of the Broadford Solar WMPA, PJM requests an effective date of February 5, 2019, and requests waiver of the Commission's 60-day prior notice requirement to permit this effective date.³ Good cause exists for granting this effective date, as it reflects the date on which Wholesale Market Participant provided notice of termination of the Broadford Solar WMPA to PJM and Transmission Owner. The Commission has granted waivers of its prior notice requirements in similar circumstances,⁴ and PJM respectfully requests that it do the same here. The Parties have no remaining obligations under the Broadford Solar WMPA.

³ See 18 C.F.R. § 35.15(a) ("For good cause shown, the Commission may by order provide that the notice of cancellation or termination shall be effective as of a date prior to the date of filing or prior to the date the filing would become effective in accordance with these rules.").

⁴ See PJM Interconnection, L.L.C., Letter Order, Notice of Cancellation of Service Agreement No. 4765, Docket No. ER21-2069-000 (July 30, 2021); PJM Interconnection, L.L.C., Letter Order, Notice of Cancellation of Service Agreement No. 5313, Docket No. ER21-705-000 (Feb. 18, 2021).

III. CORRESPONDENCE AND COMMUNICATIONS

Correspondence and communications with respect to this filing should be sent to, and PJM requests the Secretary to include on the official service list, the following:⁵

Craig Glazer
Vice President – Federal Government
Policy
PJM Interconnection, L.L.C.
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Washington, DC 20005
202-423-4743 (phone)
202-393-7741 (fax)
craig.glazer@pjm.com

Christopher Holt Assistant General Counsel PJM Interconnection, L.L.C. 2750 Monroe Boulevard Audubon, PA 19403 610-666-2368 (phone) christopher.holt@pim.com Wendy B. Warren Elizabeth P. Trinkle Wright & Talisman, P.C. 1200 G Street, NW, Suite 600 Washington, DC 20005-3898 202-393-1200 (phone) 202-393-1240 (fax) warren@wrightlaw.com trinkle@wrightlaw.com

⁵ To the extent necessary, PJM requests waiver of Rule 203(b)(3) of the Commission's Rules of Practice and Procedure, 18 C.F.R. § 385.203(b)(3), to permit all of the persons listed to be placed on the official service list for this proceeding.

Kimberly D. Bose, Secretary November 8, 2021 Page 4

IV. SERVICE

PJM has served a copy of this filing on Wholesale Market Participant, Transmission

Owner, and the affected state regulatory commissions within the PJM Region.

V. CONCLUSION

For the foregoing reasons, PJM respectfully requests that the Commission accept the cancellation of the Broadford Solar WMPA, effective February 5, 2019.

Respectfully submitted,

Craig Glazer
Vice President – Federal Government
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PJM Interconnection, L.L.C.
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/s/ Elizabeth P. Trinkle
Wendy B. Warren
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Counsel for PJM Interconnection, L.L.C.

FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON, D.C. 20426

OFFICE OF ENERGY MARKET REGULATION

PJM Interconnection, L.L.C. Docket No. ER17-784-000

Issued: 3/2/17

Wright & Talisman, P.C. 1200 G Street, N.W. Suite 600 Washington, D.C. 20005-3802

Attention: Patrick L. Morand

Counsel for PJM Interconnection, L.L.C.

Reference: Wholesale Market Participation Agreement

Dear Mr. Morand:

On January 12, 2017, PJM Interconnection, L.L.C. (PJM) submitted for filing an executed Wholesale Market Participation Agreement (WMPA)¹ entered into among PJM, Appalachian Power Company (APCo) as Wholesale Market Participant, and Appalachian Power Company (AEP) as Transmission Owner, designated as Original Service Agreement No. 4601. PJM states that it is submitting the WMPA for filing because APCo intends to engage in wholesale sales in the PJM markets from a generating facility connected to AEP's distribution facilities.

Pursuant to the authority delegated to the Director, Division of Electric Power Regulation – East, under 18 C.F.R. § 375.307, your submittal is accepted for filing, effective December 13, 2016, as requested.

The filing was noticed on January 12, 2017, with comments, interventions, and protests due on or before February 2, 2017. Pursuant to Rule 214 (18 C.F.R. § 385.214 (2016)), to the extent that any timely filed motions to intervene and any motion to

¹ PJM Interconnection, L.L.C., FERC FPA Electric Tariff, PJM Service Agreements Tariff, PJM SA No. 4601, PJM SA No. 4601 Among PJM, APCo, and AEP, 0.0.0.

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intervene out-of-time were filed before the issuance date of this order, such interventions are granted. Granting late interventions at this stage of the proceeding will not disrupt the proceeding or place additional burdens on existing parties.

This acceptance for filing shall not be construed as constituting approval of the referenced filing or of any rate, charge, classification, or any rule, regulation, or practice affecting such rate or service contained in your filing; nor shall such acceptance be deemed as recognition of any claimed contractual right or obligation associated therewith; and such acceptance is without prejudice to any findings or orders which have been or may hereafter be made by the Commission in any proceeding now pending or hereafter instituted by or against PJM.

This order constitutes final agency action. Requests for rehearing by the Commission may be filed within 30 days of the date of issuance of this order, pursuant to 18 C.F.R. § 385.713.

Sincerely,

Kurt M. Longo, Director Division of Electric Power Regulation – East

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Phone: 202.393.1200 Fax: 202.393.1240 wrightlaw.com

January 12, 2017

Kimberly D. Bose Secretary Federal Energy Regulatory Commission 888 First Street, NE, Room 1A Washington, DC 20426

Re: *PJM Interconnection, L.L.C.*, Docket No. ER17-<u>784-000</u>

Queue Position AB2-010/AB2-011, Original Service Agreement No. 4601

Dear Secretary Bose:

Pursuant to section 205 of the Federal Power Act ("FPA"), and part 35 of the regulations of the Federal Energy Regulatory Commission ("Commission"), PJM Interconnection, L.L.C. ("PJM") submits for filing an executed Wholesale Market Participation Agreement ("WMPA") entered into among PJM, Appalachian Power Company ("APCo") as Wholesale Market Participant, and Appalachian Power Company ("AEP") as Transmission Owner, executed on December 13, 2016 ("APCo WMPA"). PJM is submitting the APCo WMPA for filing because APCo intends to engage in wholesale sales in the PJM markets from a generating facility connected to AEP's distribution facilities. PJM requests an effective date of December 13, 2016, for this WMPA, which is designated as Original Service Agreement No. 4601, and attached to this filing. The APCo WMPA will facilitate APCo's intent to engage in jurisdictional wholesale transactions in the PJM markets, which will originate over the AEP's non-jurisdictional distribution facilities.

¹ 16 U.S.C. § 824d.

² 18 C.F.R. part 35.

A copy of the APCo WMPA is included as Attachment A. Because the APCo WMPA being electronically filed with this transmittal letter contains electronic signatures and not the original signatures of the parties, copies of the sheets containing the original signatures are included as Attachment B to this transmittal letter.

I. Background

A. PJM's WMPA Process

On February 22, 2006, the Commission issued the GSG Order,⁴ which held that the interconnection of a generator to non-jurisdictional distribution facilities is not, in and of itself, action regulated by the FPA.⁵ The Commission further stated that the distribution facilities come under the Commission's jurisdiction once a wholesale transaction occurs on the system.⁶ This action would, therefore, render any subsequent interconnection to the relevant distribution facilities Commission-jurisdictional.⁷

PJM routinely receives requests from generation developers seeking to interconnect at a distribution level, in order to participate in sales to the PJM markets. Where the relevant facilities are non-jurisdictional (because there exists no previously interconnected generator engaging in wholesale transactions), and, in light of the GSG Order, PJM developed the WMPA as a contractual means to address these requests and provide to all affected parties a process to enable PJM to properly track and study this category of generator interconnection, as well as to facilitate the generator's participation in PJM's organized wholesale markets. The WMPA also serves to establish important revenue and (if necessary) operational metering requirements in order to give PJM visibility to pay the generator for output and for potential operational security requirements. In rare instances, a non-jurisdictional interconnection could impact the integrated transmission system. The WMPA process allows PJM to ensure that this contingency is studied and corrected, if necessary.

The Commission has previously accepted a number of WMPAs in earlier filings involving other participants. The instant filing is in the same form as the earlier submittals.⁸

See PJM Interconnection, L.L.C., 114 FERC ¶ 61,191 (2006) ("GSG Order").

Id. at PP 14-16; see also PJM Interconnection, L.L.C., 116 FERC ¶ 61,102, at P 19 (2006) (denying rehearing and clarification and noting the FPA denies the Commission jurisdiction "over facilities used in local distribution").

⁶ GSG Order at P 17.

⁷ See id. at PP 14, 17.

See, e.g., PJM Interconnection, L.L.C., Letter Order, Docket No. ER17-123-000 (Nov. 14, 2016); PJM Interconnection, L.L.C., Letter Order, Docket No. ER16-2463-000 (Sept. 20, 2016); PJM Interconnection, L.L.C., Letter Order, Docket No. ER16-2299-000 (Sept. 8, 2016); PJM Interconnection, L.L.C., Letter Order, Docket No. ER16-1270-000 (Apr. 21, 2016).

B. Description of the WMPA

The APCo WMPA facilitates APCo's participation in PJM's organized wholesale markets via wholesale sales from its 10 MW Broadford Solar Power Plant located in Saltville, Virginia. *See* APCo WMPA, Specifications § 1.0. The APCo WMPA indicates that APCo will have Capacity Interconnection Rights in the amount of 5.0 MW commencing on June 1, 2020, and that nothing in the APCo WMPA provides APCo with any rights with respect to the use of distribution facilities. *Id.*, Specifications § 2.1. It further provides for Capacity Interconnection Rights on an interim basis during the time period from December 13, 2016 to May 31, 2020 (the "interim time period") in an amount not to exceed 5.0 MW. *Id.* Any interim Capacity Interconnection Rights awarded during the interim time period will be dependent upon the completion and results of interim deliverability studies, and will terminate on May 31, 2020. *Id.*9 Section 3.1 of the APCo WMPA establishes certain project-specific milestones, including the requirement that APCo enter into a two-party Interconnection Agreement with AEP. There are no charges or security requirements associated with the APCo WMPA.

II. This WMPA Establishes Reasonable Requirements to Enable Wholesale Transactions Subject to the Commission's Jurisdiction

The instant WMPA is filed pursuant to the Commission's jurisdiction under section 205 of the FPA and the Commission's independent jurisdictional authority over wholesale sales of electric energy and related products in PJM's markets. These transactions plainly constitute regulated wholesale transactions pursuant to section

The Commission previously has accepted for filing WMPAs that provide for similar interim Capacity Interconnection Rights. See, e.g., PJM Interconnection, L.L.C., Letter Order, Docket No. ER16-2699-000 (Nov. 14, 2016) (accepting a WMPA with interim Capacity Interconnection Rights); PJM Interconnection, L.L.C., Letter Order, Docket No. ER16-2463-000 (Sept. 20, 2016) (same); PJM Interconnection, L.L.C., Letter Order, Docket No. ER16-1678-000 (June 29, 2016) (same). The Commission similarly has accepted Interconnection Service Agreements that provide for similar interim Capacity Interconnection Rights. See, e.g., PJM Interconnection, L.L.C., Letter Order, Docket No. ER16-1895-000 (July 25, 2016); PJM Interconnection, L.L.C., Letter Order, Docket No. ER16-1078-000 (Apr. 26, 2016); PJM Interconnection, L.L.C., Letter Order, Docket No. ER16-353-000 (Jan. 11, 2016).

See, e.g., PJM Interconnection, L.L.C., Letter Order, Docket No. ER17-123-000 (Nov. 14, 2016) (accepting WMPA with similar interconnection agreement requirement); PJM Interconnection, L.L.C., Letter Order, Docket No. ER16-2463-000 (Sept. 20, 2016) (same); PJM Interconnection, L.L.C., Letter Order, Docket No. ER16-2299-000 (Sept. 8, 2016) (same).

201(b)(1) of the FPA.¹¹ Under the FPA, the Commission has broad jurisdiction to regulate the wholesale sale of electricity in interstate commerce. 12 As noted above, the transactions will originate over facilities that are not Commission jurisdictional, namely the distribution facilities. In such circumstances, the Commission parses the transaction so as to apply its jurisdiction to only those aspects of the transaction that are Commission jurisdictional. For example, as discussed in Order No. 2003¹³ and other orders, the Commission applies this logic to determine jurisdiction over an interconnection on a facility used for both retail and wholesale transactions, by segregating the jurisdictional transaction from the retail sales.¹⁴ The Commission noted: "[W]here the 'distribution' facilities have a dual use, i.e., the facilities are used for both wholesale sales and retail sales, the Final Rule applies to interconnections to these facilities only for the purpose of making sales of electric energy for resale in interstate commerce." The Commission bifurcates the use of the facility and applies its jurisdiction only to the applicable transaction, the wholesale sale. Here, the generator's use of, and taking of service over, the distribution facilities does not diminish the Commission's independent jurisdiction to regulate the generator's sale of energy and related products in PJM's organized wholesale markets.

Specifically, the FPA applies "to the transmission of electric energy in interstate commerce and to the sale of electric energy at wholesale in interstate commerce." 16 U.S.C. § 824(b)(1).

See 16 U.S.C. § 824d(d) ("Unless the Commission otherwise orders, no change shall be made by any public utility in any such rate, charge, classification, or service, or in any rule, regulation, or contract relating thereto, except after sixty days' notice to the Commission and to the public.").

Standardization of Generator Interconnection Agreements and Procedures, Order No. 2003, 2001–2005 FERC Stats. & Regs., Regs. Preambles ¶ 31,146 (2003), order on reh'g, Order No. 2003-A, 2001–2005 FERC Stats. & Regs., Regs. Preambles ¶ 31,160, order on reh'g, Order No. 2003-B, 2001–2005 FERC Stats. & Regs., Regs. Preambles ¶ 31,171 (2004), order on reh'g, Order No. 2003-C, 2001–2005 FERC Stats. & Regs., Regs. Preambles ¶ 31,190 (2005), aff'd sub nom. Nat'l Ass'n of Regulatory Utils. Comm'rs v. FERC, 475 F.3d 1277 (D.C. Cir. 2007).

See Order No. 2003 at PP 803-05; see also PJM Interconnection, 116 FERC ¶61,102, at P 22 ("Because no wholesale transaction is being conducted on ComEd's distribution facilities, we find there is no Commission-jurisdictional use of the facilities" Hence, a wholesale transaction would be a jurisdictional use.); Detroit Edison Co. v. FERC, 334 F.3d 48, 51 (D.C. Cir. 2003) (explaining that the Commission has jurisdiction "over all wholesale service," including wholesale transactions that occur over "local distribution" facilities).

Order No. 2003 at P 804; *accord* Order No. 2003-C at P 53.

This logic is consistently applied in other areas of Commission jurisdiction as well. For example, the Commission applied similar reasoning when it determined it has jurisdiction to require transmission service over non-jurisdictional local distribution facilities in *Tex-La Electric Cooperative of Texas, Inc.* The Commission noted that it retained authority to order transmission service pursuant to section 211 of the FPA regardless of any local distribution function of the facilities involved and "transmission *services* may encompass the use of *facilities* that in other contexts would be classified as distribution facilities." Similarly, in *Laguna Irrigation District*, the Commission noted that wholesale customers should be allowed the protection of section 210 of the FPA based merely on the label attached to the facilities to which they interconnect.

Accordingly, since the WMPA addresses the terms and conditions necessary for the generator to make wholesale sales into the PJM markets, PJM applies the same reasoning as detailed above and believes that an agreement enabling such sales (the WMPA) similarly falls within the Commission's jurisdiction.

Should the Commission disagree and decide not to exercise its jurisdiction over the WMPA, PJM will, nonetheless, require execution of the WMPA by similarly-situated generators and transmission owners as a matter of contract. The matters addressed by the WMPA are essential to preserve the continued integrity of PJM's functions as a grid operator and market administrator and, as such, are properly deemed reasonable conditions of entry, like other Regional Transmission Organization membership requirements, for a generator electing to participate in PJM's voluntary markets.

III. The WMPA Applies to Wholesale Sales Only

PJM submits the WMPA for filing because the WMPA is a form of agreement not presently contained in either the PJM Open Access Transmission Tariff ("PJM Tariff") or the Amended and Restated Operating Agreement of PJM Interconnection, L.L.C. ("PJM Operating Agreement"). The WMPA applies only to wholesale transactions and is not

Tex-La Elec. Coop. of Tex., Inc., 67 FERC ¶ 61,019, at 61,055-56, final order, 69 FERC ¶ 61,269 (1994); see also Laguna Irrigation Dist., 95 FERC ¶ 61,305, at 62,038-39 (2001), aff'd sub nom. Pac. Gas & Elec. Co. v. FERC, 44 Fed. Appx. 170 (9th Cir. 2002).

¹⁷ 16 U.S.C. § 824j.

¹⁸ Tex-La Elec. Coop., 67 FERC ¶ 61,019, at 61,055-56 n.36 (emphasis added).

¹⁹ 16 U.S.C. § 824i.

²⁰ *Laguna Irrigation Dist.*, 95 FERC ¶ 61,305, at 62,038-39.

intended to govern the actual physical interconnection of a generating facility to the distribution system. Therefore, it is immaterial whether the WMPA concerns a new interconnection to a distribution system or a pre-existing interconnection on a distribution system where the preexisting generator subsequently elects to participate in the PJM markets. The WMPA will be initiated for the purpose of facilitating the wholesale sale and not the interconnection. To date, generator market participants connecting to the distribution system have been receptive to the use of the WMPA as a means to facilitate future sales into the PJM markets and to support the state interconnection processes as well. Further, the WMPA allows a vehicle for PJM to examine the potential reliability impacts the interconnection may have on the grid.

As the GSG Order directs,²¹ interconnection to the distribution system is not Commission-jurisdictional until wholesale sales begin on the system. Hence, the PJM Tariff would not apply to govern the terms and conditions of the physical interconnection, including the attachment of facilities and terms of use and charges for distribution service needed to afford the generator access to the PJM Transmission System. Again, PJM's interest is to ensure sufficient visibility and, where necessary, control over generation that is participating as a Market Seller²² under the PJM Operating Agreement.²³

IV. The WMPA Differs from the ISA in Numerous Important Aspects

The WMPA is designed to have a similar format to the PJM Interconnection Service Agreement ("ISA") in order to provide a manageable and familiar document for the participants. Unlike the ISA, however, the WMPA does not address matters involving the actual physical interconnection of the generator to the distribution system or any terms, conditions or charges related to any service provided by the distribution system to the generator. The WMPA contains many provisions also typically found in an ISA that govern the relationship between the generator and PJM. These provisions establish reasonable and necessary standards and qualifications, such as revenue quality metering, both to enable the generator to participate as a Market Seller in PJM's market and to allow PJM's system operations the necessary visibility to the generator for reliability purposes. However, the WMPA is not an ISA and is not intended as a substitute for an interconnection agreement between the owners of the interconnecting physical facilities.

More specifically, the WMPA differs from the ISA in several key respects. First, the WMPA does not contain any reference to attachment facilities necessary for the

See GSG Order at P 14.

See PJM Operating Agreement § 1 (definition of "Market Seller").

See id., Schedule 1.

interconnection. The WMPA also does not reference network upgrades for the interconnection to the distribution facility. In limited circumstances, the Feasibility Study and/or the System Impact Study may conclude that there is a significant impact to other jurisdictional interconnections that are located on the nearest transmission system, or a possible impact to facilities that are located on a nearby Commission-jurisdictional distribution facility. If this were the case, the interconnecting generator could be required to fund network upgrades on the corresponding jurisdictional systems only. In the event additional upgrades were needed, the WMPA contains proposed language concerning "Responsibility for Network or Local Upgrades" in Article 3 of the WMPA. At the discretion of the parties, they may simply mark this section as "not applicable" or delete the section from the WMPA in its entirety when this contract language is inapplicable (as it will be in the majority of cases).

Generally, the WMPA does not contain security requirements (with the limited exception as explained above), or construction requirements. The WMPA also makes no reference to reactive power requirements, and construction of transmission owner interconnection facilities. These are the key components of the ISA that are not included in the WMPA because these ISA components are not relevant to the wholesale transactions.

V. Waiver and Effective Date

PJM requests that the Commission grant any and all waivers of the Commission's rules and regulations that are necessary for acceptance of this filing and the enclosed WMPA. Additionally, PJM requests a waiver of the Commission's 60-day prior notice requirement to allow an effective date of December 13, 2016, for the APCo WMPA, as set forth in section 1.1 thereof. Waiver is appropriate because this effective date is consistent with the intent of the parties, as set forth in section 1.1 of the APCo WMPA. Furthermore, the requested waiver is limited in scope and will result in no harm to third parties. Moreover, the Commission has allowed waivers of its prior notice requirements when supported by the facts that the filing is uncontested and does not change rates, ²⁵ and should do the same here. PJM also notes that, as there are no charges or security requirements associated with the APCo WMPA or monies collected pursuant to this

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If the Commission does not allow a December 13, 2016 effective date, PJM requests that the Commission grant the earliest effective date possible, and no later than January 13, 2017, one day after this filing. The Commission has allowed jurisdictional agreements to become effective one day after filing. See Palo Duro Wind Interconnection Servs., LLC, 149 FERC ¶ 61,205, at P 9 (2014); Midcontinent Indep. Sys. Operator, Inc., 145 FERC ¶ 61,032, at P 49 (2013).

See ISO New England, Inc., 116 FERC ¶ 61,308, at P 8 (2006); see also Cent. Hudson Gas & Elec. Corp., 60 FERC ¶ 61,106, at 61,338 (1992) (waiving prior notice requirement when uncontested filings do not change rates).

agreement, time-value refunds are not required.²⁶ The Commission has granted similar waivers for other filings involving WMPAs.²⁷

VI. Documents Enclosed

PJM encloses the following:

- 1. This Transmittal Letter:
- 2. Attachment A: Original Service Agreement No. 4601; and
- 3. Attachment B: Copies of sheets containing original signatures.

VII. Service

Copies of this filing have been served upon the parties, APCo and AEP, as well as on the affected state utility commission(s) within the PJM region.

VIII. Correspondence and Communications

All notices, communications or correspondence addressed to PJM regarding this matter should be directed to, and PJM requests that the Secretary include on the Commission's official service list, the following:²⁸

Craig Glazer
Vice President – Federal Government
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See ITC Midwest LLC, 138 FERC ¶ 61,105, at P 14 (2012); see also Lake Benton Power Partners LLC, 146 FERC ¶ 61,095, at P 7 (2014).

See supra note 8.

To the extent necessary, PJM requests waiver of Rule 203(b)(3) of the Commission's Rules of Practice and Procedure, 18 C.F.R. § 385.203(b)(3), to permit all of the persons listed to be placed on the official service list for this proceeding.

> Steven R. Pincus Associate General Counsel PJM Interconnection, L.L.C. 2750 Monroe Boulevard Audubon, PA 19403 (610) 666-4370 (phone) (610) 666-4281 (fax) steven.pincus@pjm.com

IX. Conclusion

For the foregoing reasons, PJM requests that the Commission accept the APCo WMPA with an effective date of December 13, 2016.

Craig Glazer
Vice President – Federal Government
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(PJM Queue #AB2-010 & AB2-011)

WHOLESALE MARKET PARTICIPATION AGREEMENT Among PJM INTERCONNECTION, L.L.C.

And

Appalachian Power Company

And

Appalachian Power Company

WHOLESALE MARKET PARTICIPATION AGREEMENT

By and Among PJM Interconnection, L.L.C.

And

Appalachian Power Company

And

Appalachian Power Company

(PJM Queue Position #AB2-010 & AB2-011)

This Wholesale Market Participation Agreement ("WMPA") including the Specifications, and Schedules attached hereto and incorporated herein, is entered into in order to effectuate sales of energy and/or capacity into PJM's wholesale markets, by and between PJM Interconnection, L.L.C., the Regional Transmission Organization for the PJM Region ("Transmission Provider" or "PJM"), Appalachian Power Company ("Wholesale Market Participant") and Appalachian Power Company ("Transmission Owner" or "AEP").

WITNESSETH

WHEREAS, Wholesale Market Participant is developing generation that it intends to use to engage in Wholesale Transactions in PJM's markets and desires to maintain its proposed generation in the queue that PJM studies for potential reliability impacts to the Transmission System;

WHEREAS, Wholesale Market Participant is seeking to interconnect at a local distribution or sub-transmission facility, which at this time is not subject to FERC jurisdiction; and

WHEREAS, Wholesale Market Participant and Transmission Owner or its affiliate must enter into a separate two-party interconnection agreement ("Interconnection Agreement") in order to address issues of physical interconnection and local charges that may be presented by the interconnection of Wholesale Market Participant's generation to the distribution facility.

NOW, THEREFORE, in consideration of the mutual covenants herein contained, together with other good and valuable consideration, the receipt and sufficiency is hereby mutually acknowledged by Transmission Provider, Transmission Owner and Wholesale Market Participant and the parties agree to assume all of the rights and obligations consistent with the rights and obligations relating to Network Upgrades, Local Upgrades and metering requirements set forth in Part VI of the Tariff, as of the effective date of this WMPA, required for Wholesale Market Participant to make Wholesale Transactions in PJM's markets. The Parties mutually covenant and agree as follows:

Article 1 – DEFINITIONS and OTHER DOCUMENTS

- **1.0 Defined Terms.** All capitalized terms herein shall have the meanings as set forth in the definitions of such terms as stated in Part I, Article 1 or Part VI of the PJM Open Access Transmission Tariff ("Tariff"), except Wholesale Market Participant which shall be defined in this WMPA as a participant in a Wholesale Transaction.
- **1.1 Effective Date.** This WMPA shall become effective on the date it is executed by all Parties, or, if this WMPA is filed with FERC unexecuted, upon the date specified by FERC. This WMPA shall terminate on such date as mutually agreed upon by the parties, unless earlier terminated consistent with Section 1 in Attachment O, Appendix 2, Part VI of the Tariff.
- **1.2 Assumption of Tariff Obligations.** Wholesale Market Participant agrees to abide by all rules and procedures pertaining to generation and transmission in the PJM Region, including but not limited to the rules and procedures concerning the dispatch of generation or scheduling transmission set forth in the Tariff, the Operating Agreement and the PJM Manuals.
- **1.3 Incorporation Of Other Documents.** All portions of the Tariff and the Operating Agreement pertinent to the subject matter of this WMPA and not otherwise made a part hereof are hereby incorporated herein and made a part hereof.

Article 2 - NOTICES and MISCELLANEOUS

2.0 Notices. Any notice, demand or request required or permitted to be given by any Party to another and any instrument required or permitted to be tendered or delivered by any Party in writing to another may be so given, tendered or delivered by recognized national courier or by depositing the same with the United States Postal Service, with postage prepaid for delivery by certified or registered mail addressed to the Party, or by personal delivery to the Party, at the address specified below. Such notices, if agreed to by the Parties, may be made via electronic means, with e-mail confirmation of delivery.

Transmission Provider:

PJM Interconnection, L.L.C. 2750 Monroe Blvd. Audubon, PA 19403-2497

Wholesale Market Participant: Appalachian Power Company 1 Riverside Plaza Columbus, OH 43215 Attn: Thomas Fecho

With copies to:

Associate General Counsel –Transactions American Electric Power Service Corporation 1 Riverside Plaza – 29th Floor Columbus, OH 43215

Transmission Owner: Appalachian Power Company 700 Morrison Road Gahanna, OH 43230 Attn: Wade Smith

Cc: Associate General Counsel –Transactions American Electric Power Service Corporation 1 Riverside Plaza – 29th Floor Columbus, OH 43215

Either Party may change its address or designated representative for notice by notice to the other Parties in the manner provided for above.

- **2.1 Construction With Other Parts Of The Tariff.** This WMPA shall not be construed as an application for service under Part II or Part III of the Tariff.
- 2.2 Warranty for Facilities Study. In analyzing and preparing the System Impact Study, and in designing and constructing the Local Upgrades and/or Network Upgrades described in Part II of the Tariff and in the Specifications attached to this WMPA, Transmission Provider, the Transmission Owner(s), and any other subcontractors employed by Transmission Provider have had to, and shall have to, rely on information provided by Wholesale Market Participant and possibly by third parties and may not have control over the accuracy of such information. Accordingly, **NEITHER** TRANSMISSION PROVIDER, THE **TRANSMISSION** OWNER(s), **NOR** ANY OTHER **SUBCONTRACTORS EMPLOYED** TRANSMISSION PROVIDER TRANSMISSION OWNER OR MAKES ANY WARRANTIES, EXPRESS OR IMPLIED, WHETHER ARISING BY OPERATION OF LAW, COURSE OF PERFORMANCE OR DEALING, CUSTOM, USAGE IN THE TRADE OR PROFESSION, OR OTHERWISE, INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WITH REGARD TO THE ACCURACY, CONTENT, OR CONCLUSIONS OF THE FACILITIES STUDY OR THE SYSTEM IMPACT STUDY IF A FACILITIES STUDY WAS NOT REQUIRED OR OF THE LOCAL UPGRADES AND/OR THE NETWORK UPGRADES, PROVIDED, HOWEVER, that Transmission Provider warrants that the Transmission Owner Facilities described in the Specifications will be designed and constructed (to the extent that Transmission Owner is responsible for design and construction thereof) and operated in accordance with Good Utility Practice, as such term is defined in the Operating Agreement. Wholesale Market Participant acknowledges that it has not relied on any representations or warranties not specifically set forth herein and that no such representations or warranties have formed the basis of its bargain hereunder.

- **2.3 Waiver.** No waiver by any party of one or more defaults by the other in performance of any of the provisions of this WMPA shall operate or be construed as a waiver of any other or further default or defaults, whether of a like or different character.
- **2.4 Amendment.** This WMPA or any part thereof, may not be amended, modified, or waived other than by a written document signed by all parties hereto.
- 2.5 Addendum of Wholesale Market Participant's Agreement to Conform with IRS Safe Harbor Provisions for Non-Taxable Status. To the extent required, in accordance with Section 24.1 in Attachment O, Appendix 2 in Part VI of the Tariff, Schedule E to this WMPA shall set forth the Wholesale Market Participant's agreement to conform with the IRS safe harbor provisions for non-taxable status.

2.6 Assignment

2.6.1 Assignment with Prior Consent:

If the Interconnection Agreement between the Wholesale Market Participant and the Transmission Owner, as referenced in section 3.1.4 herein, provides that such Interconnection Agreement may be assigned, and such Interconnection Agreement was assigned, then, except as provided in Section 2.6.2 of this WMPA, no Party shall assign its rights or delegate its duties under this WMPA without the prior written consent of the other Parties, which consent shall not be unreasonably withheld, conditioned, or delayed; and any such assignment or delegation made without such prior written consent shall be null and void. A Party may make an assignment in connection with the sale, merger, or transfer of all of its properties, including the Participant Facility, which it owns, so long as the assignee in such a sale, merger, or transfer assumes in writing all rights, duties and obligations arising under this WMPA. In addition, the Transmission Owner shall be entitled, subject to applicable laws and regulations, to assign the WMPA to an Affiliate or successor that owns and operates all or a substantial portion of the Transmission Owner's transmission facilities.

2.6.2 Assignment without Prior Consent

2.6.2.1 Assignment to Owners:

If the Interconnection Agreement between the Wholesale Market Participant and the Transmission Owner, as referenced in section 3.1.4 herein, provides that such Interconnection Agreement may be assigned, and such Interconnection Agreement was assigned, then the Wholesale Market Participant may assign its rights or delegate its duties under this WMPA without the Transmission Owner's or Transmission Provider's prior consent to any Affiliate or person that purchases or otherwise acquires, directly or indirectly, all of the Participant Facility, provided that prior to the effective date of any such assignment: (1) the assignee shall demonstrate that, as of the effective date of the assignment, the assignee has the technical and operational competence to comply with the requirements of this WMPA; and (2) in writing to the Transmission Owner and Transmission Provider, assignee assumes all rights, duties, and obligations of Wholesale Market Participant arising under this WMPA.

However, any assignment described herein shall not relieve or discharge the Wholesale Market Participant from any of its obligations hereunder absent the written consent of the Transmission Provider, such consent not to be unreasonably withheld, conditioned or delayed.

2.6.2.2 Assignment to Lenders:

If the Interconnection Agreement between the Wholesale Market Participant and the Transmission Owner, as referenced in section 3.1.4 herein, provides that such Interconnection Agreement may be assigned to any Project Finance Entity(ies), and such Interconnection Agreement was assigned, then the Wholesale Market Participant may, without consent of the Transmission Provider or the Transmission Owner, assign this WMPA to such Project Finance Entity(ies), provided that such assignment does not alter or diminish Wholesale Market Participant's duties and obligations under this WMPA. If Wholesale Market Participant provides the Transmission Owner and Transmission Provider with notice of an assignment to such Project Finance Entity(ies) and identifies such Project Finance Entity(ies) as a contact for notice of Breach pursuant to section 1.1 herein, the Transmission Provider or Transmission Owner shall provide notice and reasonable opportunity for such Project Finance Entity(ies) to cure any Breach under this WMPA in accordance with this WMPA. Transmission Provider or Transmission Owner shall, if requested by such Project Finance Entity(ies), provide such customary and reasonable documents, including consents to assignment, as may be reasonably requested with respect to the assignment and status of this WMPA, provided that such documents do not alter or diminish the rights of the Transmission Provider or Transmission Owner under this WMPA, except with respect to providing notice of Breach pursuant to section 1.1 of this WMPA, to such Project Finance Entity(ies). Upon presentation of the Transmission Provider and/or Transmission Owner's invoice therefor, Wholesale Market Participant shall pay the Transmission Provider and/or the Transmission Owner's reasonable documented cost of providing such documents and certificates as requested by such Project Finance Entity(ies). Any assignment described herein shall not relieve or discharge the Wholesale Market Participant from any of its obligations hereunder absent the written consent of the Transmission Owner and Transmission Provider.

2.6.3 Successors and Assigns:

This WMPA and all of its provisions are binding upon, and inure to the benefit of, the Parties and their respective successors and permitted assigns.

ARTICLE 3 – Responsibility for Network or Local Upgrades

- **3.1 Project Specific Milestones**. During the term of this WMPA, Wholesale Market Participant shall ensure that it meets each of the following milestones:
 - **3.1.1 Substantial Site work completed.** On or before September 30, 2017 Wholesale Market Participant must demonstrate completion of at least 20% of project site construction.
 - 3.1.2 Commercial Operation. On or before November 1, 2017, Wholesale Market Participant must demonstrate commercial operation of all generating units associated with the AB2-010 queue position. Wholesale Market Participant must demonstrate commercial sale or use of energy and, if applicable obtain capacity qualification consistent with the requirements of the Reliability Assurance Agreement Among Load Serving Entities in the PJM Region.
 - 3.1.3 Commercial Operation. On or before November 1, 2017, Wholesale Market Participant must demonstrate commercial operation of all generating units associated with the AB2-011 queue position. Wholesale Market Participant must demonstrate commercial sale or use of energy and, if applicable obtain capacity qualification consistent with the requirements of the Reliability Assurance Agreement Among Load Serving Entities in the PJM Region.
 - **3.1.4 Documentation.** Within four (4) month following commercial operation of generating unit(s), Wholesale Market Participant must provide certified documentation demonstrating that "as-built" Participant Facility are consistent with applicable PJM studies and agreements. Wholesale Market Participant must also provide PJM with "as-built" electrical modeling data or confirm that previously submitted data remains valid.
 - **3.1.5** Interconnection Agreement. On or before November 1, 2017, Wholesale Market Participant must enter into an Interconnection Agreement with the Transmission Owner in order to effectuate the WMPA.

Wholesale Market Participant shall demonstrate the occurrence of each of the foregoing milestones to Transmission Provider's reasonable satisfaction. Transmission Provider may reasonably extend any such milestone dates, in the event of delays that Wholesale Market Participant (i) did not cause and (ii) could not have remedied through the exercise of due diligence.

If (i) the Wholesale Market Participant suspends work pursuant to a suspension provision contained in an interconnection and/or construction agreement with the Transmission Owner or (ii) the Transmission Owner extends the date by which Wholesale Market Participant must enter into an interconnection agreement relative to this WMPA, and (iii) the Wholesale Market Participant has not made a wholesale sale under this WMPA, the Wholesale Market

Participant may suspend this WMPA by notifying the Transmission Provider and the Transmission Owner in writing that it wishes to suspend this WMPA, with the condition that, notwithstanding such suspension, the Transmission System shall be left in a safe and reliable condition in accordance with Good Utility Practice and Transmission Provider's safety and reliability criteria. Wholesale Market Participant's notice of suspension shall include an estimated duration of the suspension period and other information related to the suspension. Pursuant to this section 3.1, Wholesale Market Participant may request one or more suspensions of work under this WMPA for a cumulative period of up to a maximum of three years. If, however, the suspension will result in a Material Modification as defined in Part I, Section 1.18A.02 of the Tariff, then such suspension period shall be no greater than one (1) year. If the Wholesale Market Participant suspends this WMPA pursuant to this Section 3.1 and has not provided written notice that it will exit such suspension on or before the expiration of the suspension period described herein, this WMPA shall be deemed terminated as of the end of such suspension period. The suspension time shall begin on the date the suspension is requested or on the date of the Wholesale Market Participant's written notice of suspension to Transmission Provider, if no effective date was specified. All milestone dates stated in this Section 3.1 shall be deemed to be extended coextensively with any suspension period permitted pursuant to this provision.

IN WITNESS WHEREOF, Transmission Provider, Wholesale Market Participant and Transmission Owner have caused this WMPA to be executed by their respective authorized officials. By each individual signing below, each represents to the other that they are duly authorized to sign on behalf of their company and have the actual and/or apparent authority to bind the respective company to this WMPA.

(PJM Queue #AB2-010 AND AB2-011)

Transmission Provider: PJM Inte	erconnection	, L.L.C.					
By: Tu Man					12/13/16		
Name	Title				Date		
Printed name of signer:	Manager, In						
Timed hame of signer.		110 111, 22	40			5	
Wholesale Market Participant: Appalachian Power Company	American	Electric	Power	Service	Corporation as	agent	for
Ву:							
Name	Title				Date		
Printed name of signer:						_	
Transmission Owner: Appalach	ian Power (Company					
Ву:							
Name	Title				Date		
Printed name of signer:							

IN WITNESS WHEREOF, Transmission Provider, Wholesale Market Participant and Transmission Owner have caused this WMPA to be executed by their respective authorized officials. By each individual signing below, each represents to the other that they are duly authorized to sign on behalf of their company and have the actual and/or apparent authority to bind the respective company to this WMPA.



Printed name of signer:

IN WITNESS WHEREOF, Transmission Provider, Wholesale Market Participant and Transmission Owner have caused this WMPA to be executed by their respective authorized officials. By each individual signing below, each represents to the other that they are duly authorized to sign on behalf of their company and have the actual and/or apparent authority to bind the respective company to this WMPA.

SPECIFICATIONS FOR WHOLESALE MARKET PARTICIPATION AGREEMENT By and Among PJM INTERCONNECTION, L.L.C.

And

Appalachian Power Company

And

Appalachian Power Company (PJM Queue Position #AB2-010 & AB2-011)

- **1.0 Description of generating unit(s)** (the "Participant Facility") to be used for the provision of wholesale sales into the PJM markets:
 - a. Name of Participant Facility:

Broadford Solar Power Plant

b. Location of Participant Facility:

The Participant Facility will be located at 3456 Saltville Highway, Saltville, VA 24370.

c. Size in megawatts of Participant Facility:

Maximum Facility Output of 10.0 MW

d. Description of the equipment configuration:

A ground mounted solar inverter based photovoltaic facility consisting of solar arrays and a 34.5 kV transformer.

2.0 Rights for Generation Wholesale Market Participant

2.1 Capacity Interconnection Rights:

Consistent with the applicable terms of the Tariff, the Wholesale Market Participant shall have Capacity Interconnection Rights at the point(s) of interconnection specified in Schedule A of this Wholesale Market Participant Agreement in the amount of 5.0 MW; provided however, nothing in this WMPA provides any rights with regard to the use of distribution facilities.

The amount of Capacity Interconnection Rights specified above (5.0 MW) includes 3.8 MW of Capacity Interconnection Rights granted pursuant to PJM Manual 21, Appendix B, Calculating Capacity Values for Intermittent Capacity Resources, and 1.2 MW granted as a result of Wholesale Market Participant's request for a 50%

capacity factor. If the Wholesale Market Participant fails to provide the required data and documentation or if the Transmission Provider does not approve the submitted data and/or documentation as set forth in Section 3.1 of this Wholesale Market Participant Agreement to support Wholesale Market Participant's request for a 50% capacity factor, then the Wholesale Market Participant's Capacity Interconnection Rights will reduce to 3.8 MW.

Pursuant to and subject to the applicable terms of the Tariff, the Wholesale Market Participant shall have Capacity Interconnection Rights at the Point(s) of Interconnection specified in this Wholesale Market Participation Agreement in the amount of 5.0 MW commencing June 1, 2020. During the time period from the effective date of this WMPA until May 31, 2020 (the "interim time period"), the Wholesale Market Participant may be awarded interim Capacity Interconnection Rights in an amount not to exceed 5.0 MW. The availability and amount of such interim Capacity Interconnection Rights shall be dependent upon completion and results of an interim deliverability study. Any interim Capacity Interconnection Rights awarded during the interim time period shall terminate on May 31, 2020.

To the extent that any portion of the Participant Facility described in Section 1.0 is not a Capacity Resource with Capacity Interconnection Rights, such portion of the Participant Facility shall be an Energy Resource. Pursuant to this WMPA, the Wholesale Market Participant may sell energy into PJM's markets in an amount equal to the Participant Facility's Maximum Facility Output indicated in Section 1.0c of the Specifications for this WMPA. PJM reserves the right to limit injections in the event reliability would be affected by output greater than such quantity.

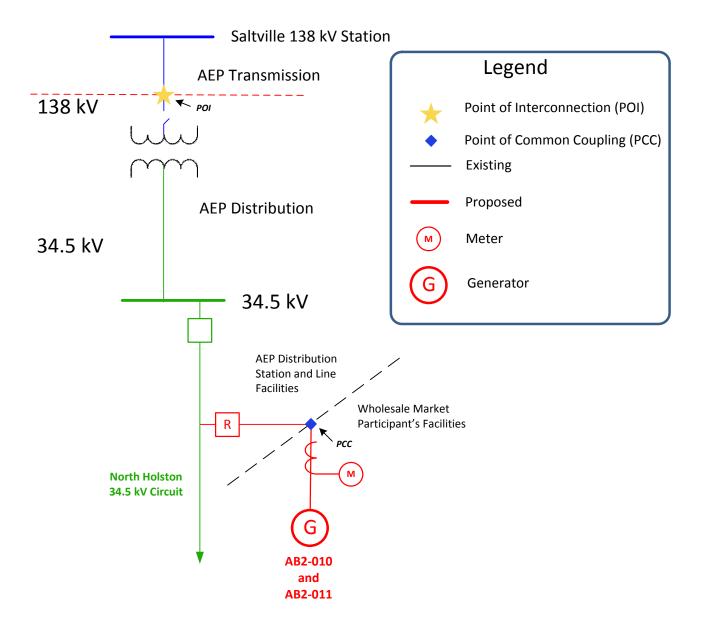
3.0 Ownership and Location of Metering Equipment. The metering equipment to be constructed, the capability of the metering equipment to be constructed, and the ownership thereof, as required for the Wholesale Transactions shall be identified on the attached Schedule B to this WMPA, and provided consistent with the PJM manuals.

SCHEDULES:

- SCHEDULE A SINGLE-LINE DIAGRAM (Showing point of interconnection)
- SCHEDULE B LIST OF METERING EQUIPMENT
- SCHEDULE C LIST OF LOCAL/NETWORK UPGRADES
- SCHEDULE D APPLICABLE TECHNICAL REQUIREMENTS AND STANDARDS
- SCHEDULE E WHOLESALE MARKET PARTICIPANT AGREEMENT TO CONFORM WITH IRS SAFE HARBOR PROVISIONS FOR NON-TAXABLE STATUS
- SCHEDULE F SCHEDULE OF NON-STANDARD TERMS & CONDITIONS

SCHEDULE A

SINGLE-LINE DIAGRAM



The Point of Interconnection with the transmission system is at Transmission Owner's Saltville 138 kV Station at the Transmission Owner's 138 kV disconnect switch. The point of common coupling (PCC) with the local distribution system will remain at AEP's distribution primary meter facility on the Wholesale Market Participant's premise.

SCHEDULE B

LIST OF METERING EQUIPMENT

The Wholesale Market Participant will be required to install telemetry and communication equipment to provide real-time telemetry data to PJM as well as having the ability to receive and respond to PJM operational command and control signals. The requirements for this equipment are listed in Appendix 2, Section 8 of Attachment O to the PJM Tariff, as well as PJM Manuals 01 and 14D.

Transmission Owner will submit all real and reactive power generation data to PJM as per PJM Manual 14D.

SCHEDULE C

LIST OF LOCAL/NETWORK UPGRADES

None

SCHEDULE D

APPLICABLE TECHNICAL REQUIREMENTS AND STANDARDS

All technical requirements detailed in the AB2-010 and AB2-011 System Impact Study, August 2016, shall be incorporated herein by reference.

These standards include:

• Customer Guide for the Interconnection of Distributed Resources to the American Electric Power Distribution System, November 1, 2011

These standards can be found on the PJM website at: http://www.pjm.com/planning/design-engineering/to-tech-standards.aspx

SCHEDULE E WHOLESALE MARKET PARTICIPANT'S AGREEMENT TO CONFORM WITH IRS SAFE HARBOR PROVISIONS FOR NON-TAXABLE STATUS

Not Required.

SCHEDULE F SCHEDULE OF NON-STANDARD TERMS & CONDITIONS

Not Required