PJM/Progress JOA Implementation Document

This document describes the data exchanged by PJM and Progress Energy Transmission to support the Progress Energy-PJM Joint Operating Agreement[1]. Specifically, this document describes the data exchanged to support The Progress Energy-PJM congestion management schedule and coordinated AFC calculations.   As requested, the Parties will exchange the following types of data and information described herein. The frequency of exchange will be as stated with respect to specific exchanges provided in this Implementation Document or, if no frequency is stated, then the frequency shall be as necessary or appropriate to support the purpose of the exchange or otherwise in accordance with Good Utility Practice. Nothing in this document shall require a Party to provide or exchange information that it does not possess or cannot reasonably obtain.

1. **Dynamic Schedule** Coordination of actual power flow across the PEC/PJM interface to reduce congestion will be accomplished by implementing a Dynamic Schedule between CPLE and PJM to move power across the interface. This process allows for settlement based on power deliveries and receipts, thereby avoiding modification to existing billing practices. PEC will increase/decrease generation to support a Dynamic Schedule change with a 50 MW maximum (or less if PEC generation cannot move 50 MW) every five minutes consistent with the PJM LMP value compared to the PEC cost and the ability of the PEC system to modify generation output. Any non-DNR day-ahead block schedule between PJM and PEC will be done using a Dynamic Interchange Schedule Tag. The actual power exchange will be implemented using a Dynamic Schedule based on current PJM congestion conditions (LMP).

    1.1. The following information will be provided by **Progress to PJM** in real-time via direct communication:

        1.1.1. The instantaneous value for purchases from PJM by Progress.

        1.1.2. The instantaneous value for sales from Progress to PJM.

        1.1.3. The incremental cost for Progress to increase the value of the current transaction by 50 MW.

        1.1.4. The incremental cost for Progress to decrease the value of the current transaction by 50 MW.

        1.1.5. The projected MW quantity that Progress believes it can increase the current transaction by over the next 60 minutes.

        1.1.6. The projected MW quantity that Progress believes it can decrease the current transaction by over the next 60 minutes.

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[1] The Progress Energy-PJM Joint Operating Agreement is posted on the PJM web site (www.pjm.com). Navigation: www.pjm.com --> Documents --> Agreements.

1.1.7. The hourly integrated value of purchases from PJM by Progress for the previous hour.

1.1.8. The hourly integrated value of sales by Progress to PJM for the previous hour.

1.1.9. The hourly integrated LMPs for CPLEIMP, CPLEEXP, SOUTHIMP and SOUTHEXP for the previous hour.

1.1.10. The generation units that Progress intends to dispatch to increase the current transaction by 50 MW.

1.1.11. The generation units that Progress intends to dispatch to decrease the current transaction by 50 MW.

1.1.12. The actual Progress generation response to support the dynamic schedule.

1.1.13. The reason code associated with Progress being unable to increase or decrease the transaction should that scenario occur.

1.2. The following information will be provided by **PJM to Progress** in real-time via direct communication:

1.2.1. The current 5-minute LMPs for CPLEIMP, CPLEEXP, SOUTHIMP and SOUTHEXP.

1.2.2. The hourly integrated LMPs for CPLEIMP, CPLEEXP, SOUTHIMP and SOUTHEXP for the previous hour.

1.2.3. The hourly integrated value of purchases from PJM by Progress for the previous hour.

1.2.4. The hourly integrated value of sales by Progress to PJM for the previous hour.

2. **Additional Exchange of Operating Data.** The information below will not be exchanged on a regular basis, but will be provided within a reasonable timeframe from request.

2.1. **Exchange of SCADA Data.**

2.1.1. The parties will add specifically requested data points from those below to the SCADA data exchange when specifically requested by the other party: transmission power flows, measured bus voltages, breaker equipment statuses of their bulk transmission facilities and zonal interchange.

2.2. **Models.** The Parties will exchange their detailed EMS or AFC/ATC models when requested in a mutually agreeable format.

2.3. **Flowgates**

2.3.1. List of Flowgates to recognize when selling transmission service;

2.3.2. Flowgate definitions including seasonal TTC, TRM, and CBM;

2.3.3. Firm and non-firm AFC for all Flowgates included in the Party's AFC calculation.

2.4. **Transmission Service Reservations.**

2.4.1. Daily list of all reservations, hourly increment of new reservations;

2.4.2. Reservation and interchange schedules, as required to permit the accurate calculation of TTC and ATC/AFC values;

2.4.2.1.   List of reservations from OASIS that should not be considered in ATC/AFC calculations.

2.5. **SDX.** The Parties shall exchange load forecast and outage data and information via the NERC SDX as per applicable NERC standards.