

# PHI Settlement Process / Timeline Pepco Holdings Inc

#### **PJM Market Settlement Subcommittee**

August 21, 2013

# **About Pepco Holdings, Inc.**

- Approximately 2 million customers in Delaware, the District of Columbia, Maryland and New Jersey
  - Atlantic City Electric, Delmarva Power and Pepco provide regulated electricity service
    - Delmarva Power also provides natural gas service
  - Pepco Energy Services is a non-regulated subsidiary that provides energy efficiency and renewable energy services



# Pepco Holdings, Inc. Quick Facts

- Incorporated in 2002
- Service territory: 8,340 square miles
- Customers served
  - Atlantic City Electric:
    - 545,000 electric
  - Delmarva Power:
    - 503,000 electric
    - 125,000 natural gas
  - Pepco:
    - 793,000 electric
- Total population served:
  5.6 million



### **Settlement Overview**

- Daily
  - eRPM Upload of Capacity and Transmission Responsibilities
  - Initial Zone Load Calculation
  - Initial Load Settlement Calculation
  - eMTR Validation / Submission
  - Reconciliation of Final Zone Load to Load Settlement
  - InSchedule Upload / Confirmation
- Monthly
  - Monthly Meter Correction eMTR

#### **Initial Zone Load Calculation**

- Previous day hourly Generation and Tie Point data are loaded into the Zone Load Processing System (ZLPS)
  - Hourly real-time and batch loads
- Utilize multiple data sources as available to confirm hourly values
  - 7:00 am 9:00 am
- Initial zone load is calculated for use in the initial Load Settlement energy calculations
  - Ready by 10:00 am

# **Initial Load Settlement Calculation**

- Overnight batch runs are completed to load customer and energy data into the settlement system
- Daily interval data (AMI and large customer) loaded into the settlement system by 9:00 am
  - Approx. 1 million interval customers are currently coming in daily
- Due to the tight deadlines, (12:00 2:00 or 3:00 5:00) an initial Load Settlement run is performed using the initial zone load values from the ZLPS
  - 10:00 am
- Output is validated and quality checks are performed
  - Generally completed between 10:00 am and 12:00 noon
- Initial UFE is applied to reconcile the settlement totals to the initial zone values

## **eMTR Validation / Submission**

- Download the available eMTR data into ZLPS and compare data that has been uploaded by others with PHI-metered generation and tie-line data
  - 11:00 11:55 am
- Work with other companies to resolve any data differences
- Ensure that the best data is in eMTR by the 12:00 pm (3:00 pm) deadline

# **Reconciliation of Final Zone Load to Load Settlement**

- Download the final zone "Load with Losses" from eMTR and load into the Settlement Tracking and Reporting system (STaR)
  - This is considered the "final" hourly zone load
    - 12:15 pm / 3:15 pm
- Calculate a reconciliation factor to allocate the difference between the initial settlement and the final eMTR "Load with Losses" to all suppliers on a ratio-share basis
  - This difference is essentially the 500 kV losses
- Create the InSchedule output file / check
  - 1:30 pm
- If there are post-deadline updates that change the "final" "Load with Losses" values, this process must be repeated

# **InSchedule Upload / Confirmation**

- Upload the final InSchedule file to PJM
  - 1:00 2:00 pm
- Download the values and confirm data submitted successfully

### **Monthly Meter Correction - eMTR**

- Request actual revenue-quality meter readings for the tie-lines and send requests to generators to confirm the final monthly values for generation output
  - Meter Department must collect this data within 1 business day after the end of the month in order to allow for data translation and to allow the Load Settlement team to have time to compare / confirm that the correct eMTR data was used for the month
  - If there are discrepancies, there is very little time to make a determination of the correct values
- Manually enter any corrections into eMTR within the 3 business day deadline after the end of the month in question
- Data is only entered as a total MWh correction
  - Financial adjustment by PJM based on average LMP
  - No adjustment is made to the "final" hourly zone load values

# **Load Settlement Process**

