Light Load Reliability Analysis Procedures

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• Power Balance Equation

Load + Generation + Interchange
• **Load Data**

• **Reviewed at August PC**

• **Statistical Analysis**

• **Recommend using Median Load Values by PJM Transmission Zone**
  – Non normal distributions
Light Load Methodology Revisit Approach

- **Generator Data**
  - Data Gathering is in-progress

- Similar approach to Load Data
  - 3 years of hourly generation data for every PJM generator
  - Calculate capacity factors
    - Consider fuel type
    - Evaluate data for other patterns such as size or zone (e.g. small coal vs large coal)

- Determine how to implement generation dispatch
  - Avoid the granularity of dispatching individual units but also consider that a very broad approach such as by fuel type may miss some important dispatch patterns
Light Load Methodology Revisit Approach

- **Interchange**

  Following the modeling of the updated load and generation data, solve the power flow and observe the interchange

  Compare the interchange to historical values and determine next steps
• Next steps
  – Complete generation data gathering
  – Evaluate generation data and determine a modeling methodology
  – Determine interchange approach