

Short-Term ATC Methodology Automation

June 14, 2013

Goal for Today

- Provide summary of feedback received during the April comment period regarding Short-Term Firm ATC assumptions
- Request feedback on:
 - Calculation method for future Short-Term Non-Firm ATC values on BPA's Network Flowgates (AFC); and
 - Method to process both **Firm and Non-Firm** transmission requests
 - This feedback will inform automation design, which is currently underway
- Open a second comment period through June 28th

April Feedback

- In April, BPA sought and received feedback on generation assumptions to be made for Monthly, Daily, and Hourly Firm ETC power flows
- What we heard:
 - Customers at the April 11, 2013 Customer Forum indicated general agreement with alternative a Merit Order generation dispatch.
 - NT Customers at the April 26, 2013 NT Focus Group Meeting indicated general support for either a Merit Order generation dispatch or the use of forecasted generation output, capped by rights.
 - One written comment indicated support of a Merit Order generation dispatch, however, they suggested stacking resources not based on cost to dispatch but rather on the type of generation interconnection request originally submitted, with Energy (only) Resource Interconnection Service (ERIS) having lower priority than Network Resources Interconnection Service (NRIS).
 - Another written comment indicated support for a TSR-derived generation dispatch, similar to that used in Long-Term ETC power flows.
 - Two written comments indicated support for a more technical discussion of the alternatives
- Thank you! Your feedback will be considered in our ongoing development efforts and initial decision-points.

Non-Firm ETC Calculations

- What method should be used to calculate Monthly, Daily, and Hourly Non-Firm ETC?
 - It's possible to select an option different from that used to calculate Firm ETC
 - It's also possible to select a separate option for each time horizon

- Options:
 - NF1. PTDF assessment (*status quo*)
 - Can be performed without the need to develop new automation
 - Calculations only approximate actual flows as we approach the Operating Hour
 - NF2. Power flow (similar to that used for Firm ETC)
 - Consistent methodologies for firm and non-firm ETC
 - Could increase number of base cases that must be produced
 - NF3. Network Flow Predictor (similar to that used in pilot on the North of Echo Lake flowgate)
 - Calculations are reasonably accurate
 - Currently only applicable for the Operating horizon (this hour, up to the next two or three hours)

- Others?

New Transactions

- How should new Monthly, Daily, and Hourly transactions impact ATC?
 - It's possible to select a separate option for **Firm and Non-Firm** transmission requests or schedules
 - It's also possible to select a separate option for each time horizon

- Options:
 - T1. PTDF assessment (*status quo*)
 - Doesn't require an ETC base case for every new TSR
 - Amount of netting determines degree of potential market manipulation
 - Calculations only approximate actual flows as we approach the Operating Hour
 - T2. Grant all Short-Term TSRs
 - Doesn't require an ETC base case
 - Risk of overselling
 - T3. Hold all transactions until the next base case (grant all, if base case ATC is sufficient; back transactions out one at a time, until base case ATC is sufficient)
 - Consistent methodologies for base cases and between
 - Would most likely significantly increase number of base cases that must be produced

- Others?

Next Steps

- A comment period will be opened tomorrow through June 28th
 - We'd like to hear your feedback on:
 - How to calculate Short-Term Non-Firm ETC
 - How to process new transactions
 - Feedback to TechForum@BPA.gov
- BPA plans to communicate our initial decision in August
- Ongoing development efforts over the next 2-3 years will result in further discussion and opportunities for feedback
- Please direct questions to Abbey Nulph
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 - (360) 619-6659