

Third Party Supply Principles

ACS Forum – April 23, 2013

Pre-decisional – For discussion purposes only



Presentation Objectives

- Present principles and practices in deploying Third Party Supply
- Address questions and concerns that may exist

Third Party Supply of Balancing Reserves

- The inclusion of non-Federal generation and load integrated in Bonneville's Energy Management System (EMS) and deployed for Generation and Energy Imbalance.

Deployment Philosophy

- Incorporating third party balancing resources into the EMS dispatch will require management from both a cost management and an operational perspective. Primary considerations will include:
 - Managing energy cost implications for Energy Imbalance/Generation Imbalance settlement.
 - Ensuring a feasible dispatch.
 - Maintaining integrity of balancing reserves over time.

Deployment Principles

- Third Party Resources will be deployed within the FCRPS deployment.
 - Not the first resources deployed.
 - Not the last resources deployed.
- Resources will be deployed in a way that does not impact Dynamic Transfer Capability (DTC).

Deployment Principles Continued

- Deployment criteria will be based on a number of factors including:
 - A configurable deployment threshold (MW)
 - Reserves deployed
 - Area Control Error (ACE)
 - ACE nearing the point where the FCRPS is about to control
- Deployment Criteria must be met for 30 consecutive seconds.

Deployment Principles Continued

- Deployments will typically remain in effect for the remainder of the hour unless reserves deployed is significantly corrected
- Subsequent deployments or un-deployment will be initiated if system conditions warrant.

Third Party Dispatch Stack

- Deployment of third party resource can be ordered. The order can be determined by multiple criteria; price, deployment characteristics, location etc...
- All type I-IV resources acquired will be included in the stack
- Each resource will be represented by an e-Tag
- When needed, each e-Tagged resource will be fully deployed

Resource Dispatch Types

- Capacity – Dispatched via e-Tag adjustment
 - Not deployed in the last 15 minutes of the hour
 - At XX:55, can be dispatched for the next hour if reserves deployed meets the threshold and increasing

Resource Dispatch Types

Continued

- Dynamic – Dispatched via Inter-Control Center Communications Protocol (ICCP)
 - Deployed any time during the hour
 - Deployed in chunks so as not to impact DTC
 - Resources within BPA must be set up individually
 - Resources external to BPA can be set up individually or eventually utilize Dynamic Systems Scheduling (DSS)

Operational Prequalification of Balancing Resources

- Designed to ensure the ability to deliver reserves
- Likely different requirements for resources internal to BPAT vs. external to BPAT

Questions?