

Reliability/ Security Update



Work Groups:

Reserves

Visibility

Congestion Management (real-time)

CCA - "RABA" approach

- Alternative

Reserves



- ⌘ Two main objectives:
- ⌘ Reserve obligation sharing – “transfer”
- ⌘ Regulation reduction
 - ☑ ACE diversity interchange
 - ☑ Reduced CPS response – Avista Priority Based Control Engineering system

Visibility, Real time to Day Ahead



- ⌘ Need for improved tools-→
- ⌘ Transient and voltage stability models
- ⌘ Improved Coordinated outage scheduling system
- ⌘ Improved data flow for reliability analysis
- ⌘ CASSO CARES or WECC WIT to evaluate next hour
- ⌘ Preschedule interface to state estimator
 - ⏏ The day ahead look
- ⌘ Emergency operating plan coordination

Congestion Mgmt- Next hour+



- ⌘ Create inc/dec bulletin board
- ⌘ Transmission provider –right holder posting of inc/dec acceptance
- ⌘ Congestion management “broker”
 - ☑ Process begins 20 minutes prior to hour
 - ☑ Handles settlement

CCA- RABA



- ⌘ Basic functions of Reliability Authority, Balancing Authority for combined parties, or RABA
- ⌘ Telemetry for wide view, as well as old boundaries for metering, settlement
- ⌘ Participants required to supply all ancillaries, though RABA could also
- ⌘ Congestion management internally
- ⌘ Via contractual relationships among parties
- ⌘ OASIS handled externally

CCA – Alternative



- ⌘ Credible reliability package plus new ideas
 - ☑ PNSC as management platform
 - ☑ Voltage coordination
 - ☑ Phase angle measurement
 - ☑ Visibility tools
- ⌘ Compatibility with CCA/ New markets separately justified and optional
- ⌘ Bridge to less constrained future (after Planning has fixed the system)

Governance



- ⌘ Reserves: Via NWPP, with PNSC
- ⌘ Visibility: Via PNSC, with NWPP
- ⌘ Congestion: potentially new entity, interface with PNSC
- ⌘ RABA:
 - ☑ Contractual entity created to manage combined systems
 - ☑ Common Interface with OASIS
- ⌘ CCA Alternative- Via PNSC

Next Steps:



- ⌘ Guidance from Steering Committee
- ⌘ Finalize path to July 21
- ⌘ Costs- Tools, personnel
- ⌘ Benefits – Reliability, economic
- ⌘ Interface/ coordination with other TIG groups
- ⌘ Timelines for implementation