

ADS Power Flow Task Force (APFTF)

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**Electric Reliability
& Security for the West**

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APFTF—To Be Aware of

- PCDS agenda item (December 3) and future item of discussion during additional (January 8) meeting
 - Core data for the ADS—PF or L&R
 - 2036 ADS V1—Use L&R data
 - 2036 ADS V2—Use decided-upon data

APFTF Action Items

- Generator placement
 - Review generator placement assumptions on the 2036HS1 topology
 - Review actual generator placement on the 2036HS1 topology
- Review 2025L&R vs 2034 ADS alignment spreadsheet
 - Review questions and alignment
- PF long ID
 - Review PF Long ID field format
 - EIA Plant Code_EIA Unit Code_Unit Number_Name
 - Example 3886_1_1_WELLS 10
 - Review proposed LID for each unit
 - Documents will be posted to the APFTF team site

Background—Generator Placement

- L&R submittal—Generation
 - \approx 6,000 generators
 - \approx 1,000 are submitted without a bus number (location)
 - Where do we put them?

Generator Placement Tool Methodology

- Proposed MW ranges per kV—general rule
 - Consider total transfer capability at bus level

Interconnection Voltage	Resource Capacity
230 kV	0 to 125 MW
345 kV	125 to 250 MW
500 kV	Greater 250 MW

Generator Placement Tool Methodology

- Methodology order for generators without locations:
 1. Latitude/longitude
 2. County/state/BA
 3. State and BA
 4. Remaining

* Bus names—Generators with a bus/substation name in the generator name

- Ex., (Generic_SolarA_Bus_23456_230kV)

Generator Placement Tool Methodology

- Latitude/longitude—Generators without a location:
 - Closest bus that is 230 kV and above
 - Bus in submitted BA
 - If close, but perhaps far away
 - How far is too far?
 - Bus in different BA which is closer to lat./long. of the generator and point back to original BA
 - Ex., NorthWest—PACW/BPA

Generator Placement Tool Methodology

- County/state/BA
 - Use bus within the submitted county/state/BA
- State and BA
 - Use bus within the submitted state/BA

Placing Single Large Units

- Placing single large units (Ex., Single 2,000 mw unit):
 - Distribute to area?
 - Distribute to discrete busses?
 - Keep whole?

Placement Tool by Development Status—To think about

- Existing
 - Match. Exceptions include netted, aggregates, etc.
- Tier 1
 - Use placement tool
- Tier 2
 - Use placement tool
- Tier 3
 - Use placement tool or distribute by area by load bus?



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