

## **ADS PCM error checking criteria checklist**

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- See if there is any unserved load in the case, which would require further investigation.
- Topology comparison, between the previous case to new one.
  - To check if all the topology changes are incorporated in new case.
- Confirm BUS assignments to Areas is correct through BA's and or data submitters.
- Verify the following costs to match with cost approved by PCDS,
  - fuel prices,
    - Verify that the correct fuel prices are entered and applied to correct generators.
  - Wheeling costs
    - Are the tariffs updated to reflect current Open access transmission tariff for each BA/Area?
    - AB32 wheeling costs updated according to current California CO<sub>2</sub> Cost.
  - Emission costs
  - VOM costs compared to Intertek report, and other approved documentation.
  - If using previous cycle case, verify values have been escalated to current years dollar value.
- Thermal generator data check – check against approved data from PCDS
  - generator heat rates and
  - maintenance schedules
- Generator check list – Check against L&R, EIA and PF data.
  - modelling right gen types
  - Correct characterization of non-conventional generating units -
  - Retirement and commission dates of generators.
- Correctly model Ancillary service shapes received from PNNL
  - PCDS to check for violations of ancillary services and decide on the confidence level.
- Path rating comparison with the WECC path rating catalogue.
  - Correct branches are included and are defined in the correct direction.
- Other checks to flag major changes from the previous year's ADS case, which may indicate an issue with the case
  - Gen Summary

- Flag major MWh generation change from previous year case to new case, to know why we see this change?
  - Which paths or branches are binding (within limits)?
    - Are the paths staying within the binding limits, if not we need to investigate further?
  - Interregional flows when compared to the previous case -
  - Transmission utilization
- Number of starts for each type of thermal generator and capacity factors.
  - Compare it with Intertek report with number of starts for coal generators, Combined cycle units.
- Number of Phase shifter operations
  - PCDS to approve Phase shifter setting, may be based on number of operations.
- Compare bus loads from PF to PCM
  - PCM load must match ADS PF load exactly

