



Production Cost Data Subcommittee (PCDS)

Validating the 2030 ADS
PCM Hourly Load Forecast

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Jamie Austin, PacifiCorp

Overview

- Validating the Hourly Load Forecast
- NorthernGrid – Vetting NorthernGrid PCM Loads
- Proposed fixes to load issues discovered by NorthernGrid

Jamie Austin, PacifiCorp

Validating the Hourly Load Forecast

Zach Zornes, Chelan PUD

Vetting NorthernGrid PCM Loads

Background

- NorthernGrid study effort using PCM to export PowerFlow cases for scenario development
- NorthernGrid members reviewing export cases to ensure quality maintained in export process
- One method employed – comparing PCM scenarios to similar WECC base case scenarios (e.g. summer peak)

Load Assessment

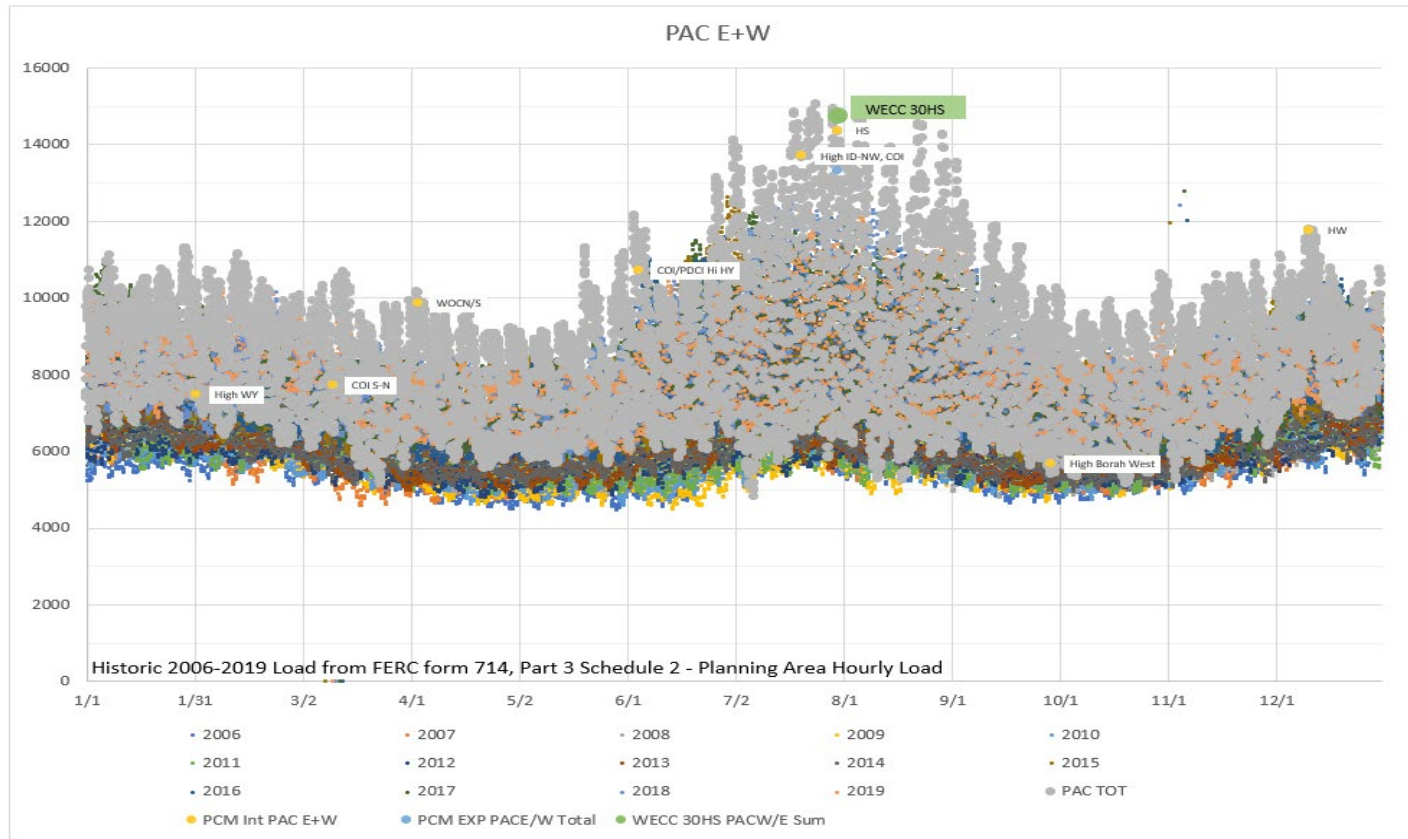
- Acknowledge forecast differences, coincident vs. non-coincident difference
- Behind-the-meter resources et. al. netted in PCM export process
- Other issues remained

Visual Load Assessment

- A picture is worth a thousand words
- For each BA:
 - Plot FERC 714 historic loads
 - Plot PCM (internal) load
 - Plot PCM (export) load
 - Plot equivalent WECC base case load
- BA mapping from PCM applied to WECC base case, “apples to apples”

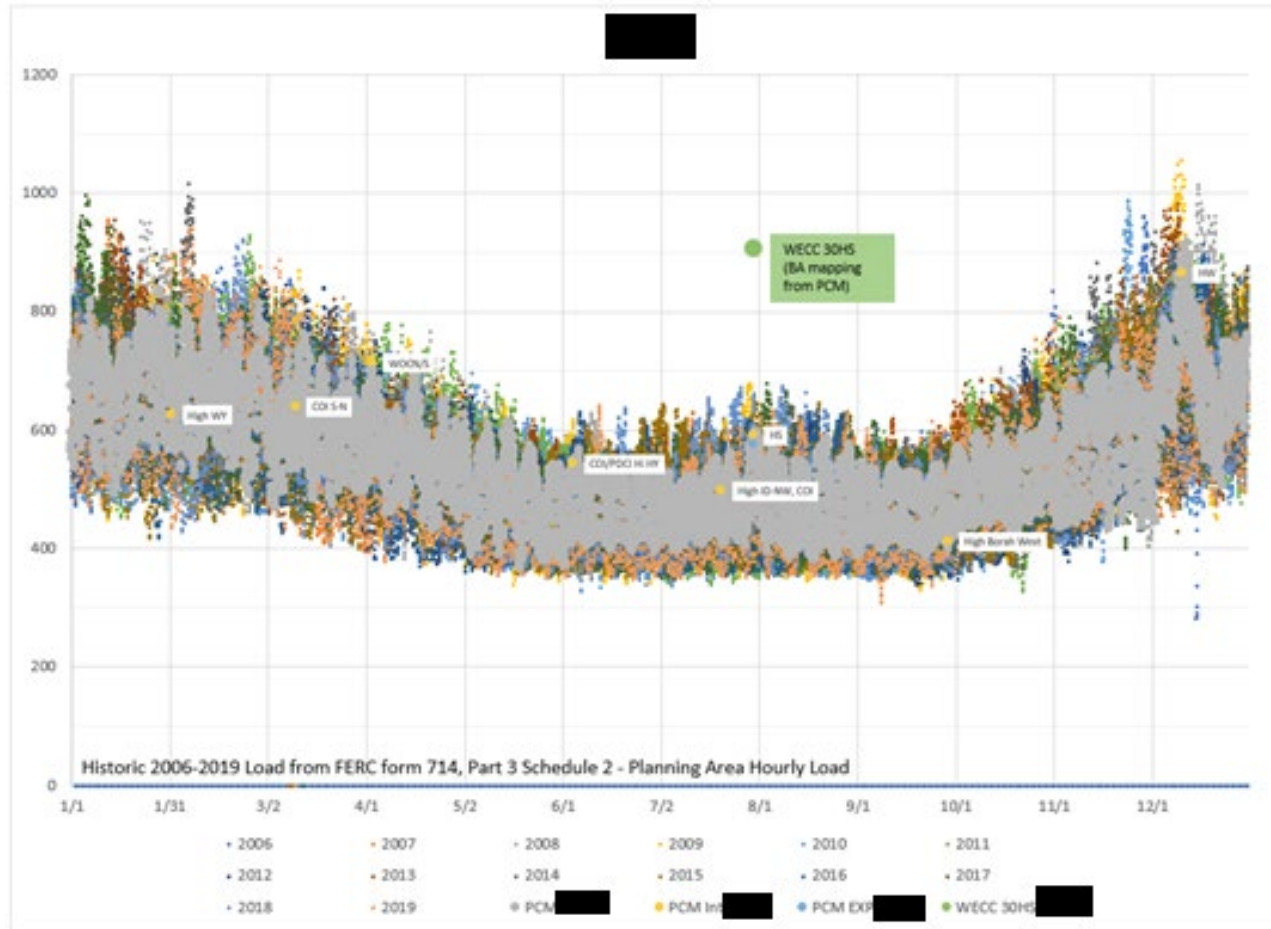
Good Comparison Example

- Summer peak case points closely align



Bad Comparison Example

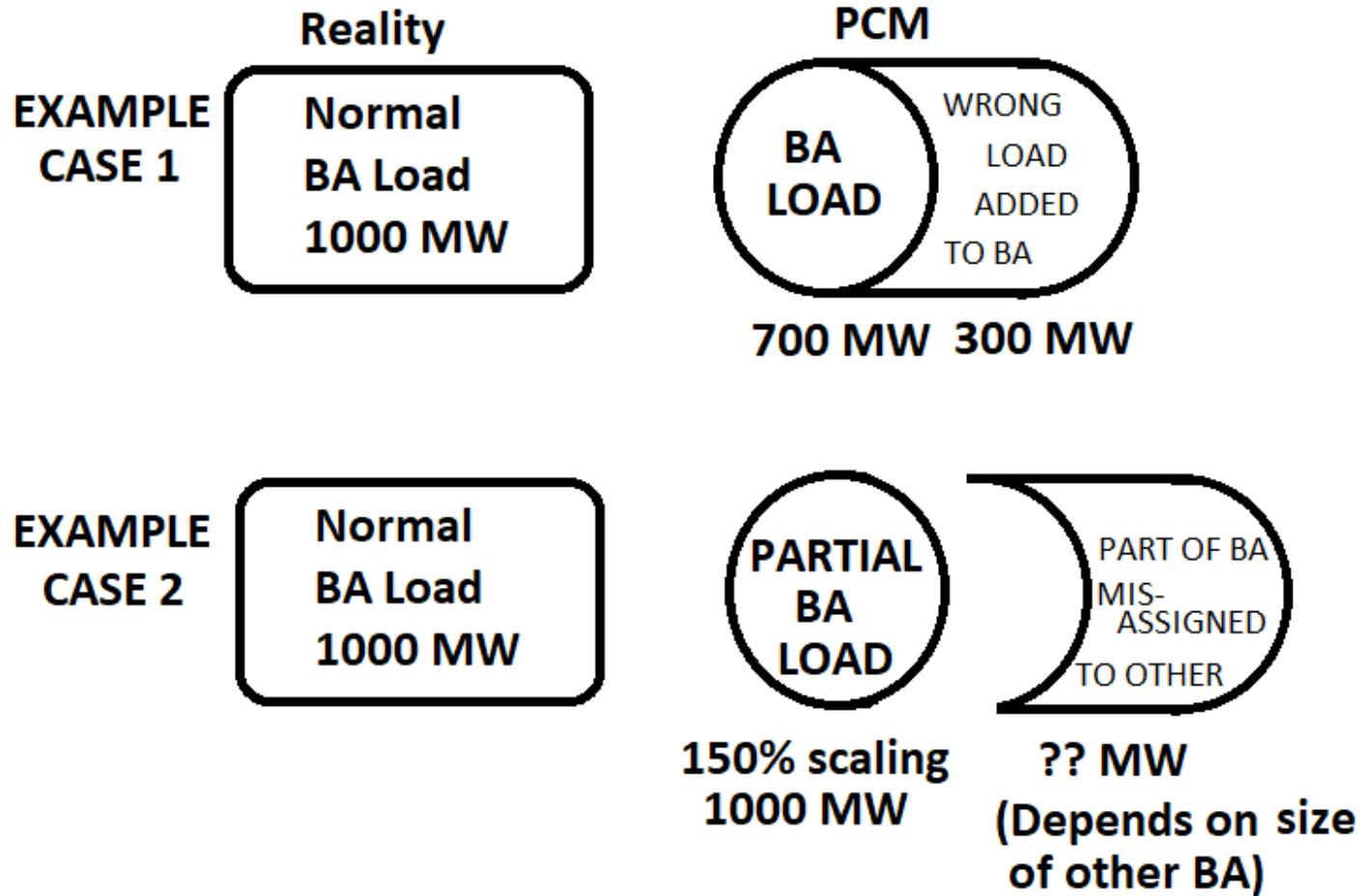
- Summer peak case points discrepancy



What's the error?

1. Balancing Authority Area mismatches
2. Load forecast discrepancy and uncertainty

Balancing Authority examples



Load Forecast Uncertainty

- New tech loads unpredictable, evolving
- Utilities may have different submittal thresholds for base case and L&R reporting



Kevin Harris, Harris PCM

- Each identified BA mapping issue was coordinated between affected utilities and WECC staff to update WECC PCM
- Discussed PCM use of L&R Forecasts with affected utilities when issue identified as a forecast difference
- Conversations and review ongoing at NorthernGrid



WECC

Electric Reliability and Security for the West

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