



PCDS Meeting

December 6, 2023

WECC Staff

TEPC/EPE

- TEP generation will meet 32% or greater of its local load.
 - “TEP does not have an official nomogram. I think we set something up several years ago to cover a local gen requirement with higher loads. Since we plan at peak with most of our local gen on, you can ignore this in the development of the ADS.”
- EPE generation will meet 85% or greater of its local load.
 - Please assume and use any EPE provided nomogram equations previously.

Non-WECC Path Updates

Non-WECC Paths-Pth 23 Wallula-McNary

- Wallula-McNary, list as non-WECC path—a second circuit should be added; the McNary-Wallula #2 230 kV line in the path—shown in green :

| | | | | | | | | | | |
|--|----------------|---------------|---------|---|-------|-------|----------|---------|------|------|
| Pth 23 Wallula-McNary Interface By Branch | Branch Name | 45129_45331_1 | #FALSE# | 1 | 45129 | 45331 | HAT ROCK | WALLULA | PACW | PACW |
| Pth 23 Wallula-McNary Interface By Branch | Branch Name | 41353_45331_2 | #FALSE# | 1 | 45129 | 41353 | MCNRY S3 | WALLULA | PACW | PACW |

Pth SRP Palo Verde East

- The 11,797 MW is the correct TTC value. The path definitions have been updated as well; the Palo Verde branches you show are the same, but for clarity, here is the list of branches that now make up the Palo Verde East path:

| New | Old—8010 Transfer limit both directions |
|-----------------------------------|--|
| PALOVRDE—WESTWING #1, 15021—14005 | Pth SRP Palo Verde East Interface By Branch Branch Name 15090_15089_2 #TRUE# 1 |
| PALOVRDE—WESTWING #2, 15021—14005 | Pth SRP Palo Verde East Interface By Branch Branch Name 15021_14005_1 #TRUE# 1 |
| PALOVRDE—RUDD, 15021—15061 | Pth SRP Palo Verde East Interface By Branch Branch Name 15090_15089_1 #TRUE# 1 |
| JOJOBA—KYRENE, 15089—15011 | Pth SRP Palo Verde East Interface By Branch Branch Name 15021_15061_1 #TRUE# 1 |
| JOJOBA—PINAL_W, 15089—15088 | Pth SRP Palo Verde East Interface By Branch Branch Name 15021_14005_2 #TRUE# 1 |
| DELANEY—SNVLY, 14012—14010 | |

Approval

- Approve the edits as presented, pending any other feedback from other path contacts
 - Pth 23—Record, limit 99,999
 - Pth SRP—Monitor and Record, enforce limit
 - Approved

Path Rating Updates: Phase II through III Projects

Path 66

Regarding the proposal to increase the COI limit to 5,100 MW north-to-south: this would be premature, as the WECC Project Review Group (PRG) has not voted to approve the increased rating yet.

Path Rating Review with Phase II and III

2023 Path Catalog Comparison to 2034 HS1 Topology

Transfer Limit Updates:

| Potential Transfer Limit Adjustments | Updates shown in Gold w/ White Text | | | | | | | | | |
|---|--|----------|--------|--------|-------------------------------|----------|--------|--------|----------------|----------------|
| | 2023 Path Catalog Transfer Limits (MW) | | | | In Place Transfer Limits (MW) | | | | | |
| | Min | | Max | | Min | | Max | | Direction | |
| Interface Name | Winter | Summer | Winter | Summer | Winter | Summer | Winter | Summer | Min | Max |
| P14 Idaho to Northwest | (1,340) | (1,340) | 2,400 | 2,300 | (2,250) | (2,250) | 3,400 | 3,400 | West to East | East to West |
| P19 Bridger West | (1,250) | (1,250) | 2,400 | 2,400 | N/A | N/A | 4,100 | 4,100 | West to East | East to West |
| P20 Path C | (1,600) | (1,600) | 1,250 | 1,250 | (2,250) | (2,250) | 2,250 | 2,250 | North to South | South to North |
| P29 Intermountain-Gonder 230 kV | (250) | (250) | N/A | N/A | (241) | (241) | 241 | 241 | East to West | West to East |
| P49 East of Colorado River (EOR) | (10,100) | (10,100) | N/A | N/A | (10,200) | (10,200) | 10,200 | 10,200 | East to West | West to East |
| P71 South of Allston | (1,480) | (1,480) | 3,100 | 3,100 | (1,480) | (1,170) | 3,100 | 2,725 | South to North | North to South |
| Phase II | | | | | | | | | | |
| P15. Midway-Los Banos | 4,600 | 4,600 | 5,400 | 5,400 | 3,265 | 3,265 | 5,400 | 5,400 | North to South | South to North |
| P26. Northern-Southern California | 5,000 | 5,000 | 4,400 | 4,400 | 3,000 | 4,000 | 3,000 | 4,000 | North to South | South to North |
| October | | | | | | | | | | |
| P25 PacifiCorp/PG&E 115 kV Interconnection* | (45) | (45) | 100 | 80 | (45) | (45) | 100 | 80 | South to North | North to South |
| *Only update for P25 is October shows Summer limit. Needs to be updated to winter limit. | | | | | | | | | | |

Path Rating Review with Phase II and III

Path/Line Additions:

| Paths/Lines Found in Catalog, not in Dataset (Proposed Additions) | | | | | | |
|---|---|----------------------|--------------|--------------|--------|--------|
| Path/Interface Name | WECC Path Catalog Name | Line or Entire Path? | Bus 1 Name | Bus 2 Name | Bus1 # | Bus2 # |
| P05 West of Cascades-South | Jones Canyon-Santiam 230 kV | Line | JONESCYN | TUMBL_CREEK+ | 47814 | 41079 |
| P06 West of Hatwai | N. Lewiston (AVA)-Tucannon River (BPA) 115 kV | Line | N LEWIST | TUCANN R | 48253 | 41400 |
| P08 Montana to Northwest | Mill Creek-Anaconda (BPA) 230 kV line | Line | MILL CREEK | ANACONDA | 621001 | 621000 |
| P15 Midway-LosBanos | Los Banos-Midway 500 kV line | Line | LOSBANOS | DIABLOCNYNSS | 30050 | 30057 |
| P17 Borah West | Kinport-Midpoint 345 kV | Line | KINPORT | BORAH | 60190 | 60060 |
| P18 Montana-Idaho | Dillon Salmon - Big Grassy 161 kV | Line | DILLONSALMON | DELL VEC | 621004 | 621053 |
| P20 Path C | Threemile Knoll 138*/345 kV transformer | Line | 3MIKNOLL | 3MIKNOLL | 65384 | 65291 |
| P20 Path C | Threemile Knoll 138*/115 kV transformer | Line | 3MIKNOLL | 3MIKNOLL | 65921 | 65286 |
| P36 TOT 3 | Cheyenne-Owl Creek 115 kV | Line | CHEYENNE | OWL_CRK | 73043 | 73597 |
| P38 TOT 4B | Casper-Midwest 230 kV | Line | CASPERPP | MIDWEST | 65300 | 65955 |
| P38 TOT 4B | Spence-Thermopolis 230 kV | Line | SPENCE | BADWATER | 66410 | 65095 |
| P39 TOT 5 | Hopkins-Malta 230 kV | Line | HOPKINS | HAGERMAN_TP | 70232 | 70111 |
| P41 Sylmar to SCE | 230/220 kV Transformer Bank E | Entire Path | SYLMAR | SYLMAR220 | 26094 | 26098 |
| | 230/220 kV Transformer Bank F | | SYLMAR | SYLMAR220 | 26094 | 26098 |
| | 230/220 kV Transformer Bank G | | SYLMAR | SYLMAR220 | 26094 | 26098 |
| P49 East of Colorado River | Perkins - Mead 500 kV line | Line | PERKINS | FMITS-01 | 15034 | 14020 |
| P79 TOT 2B2 | Sigurd-Glen Canyon 230 kV line | Entire Path | SIGURD | SIGURDPS | 66345 | 66355 |
| P87 West of McNary | Jones Canyon-Santiam 230 kV line | Line | JONESCYN | TUMBL_CREEK+ | 47814 | 40939 |

Approval

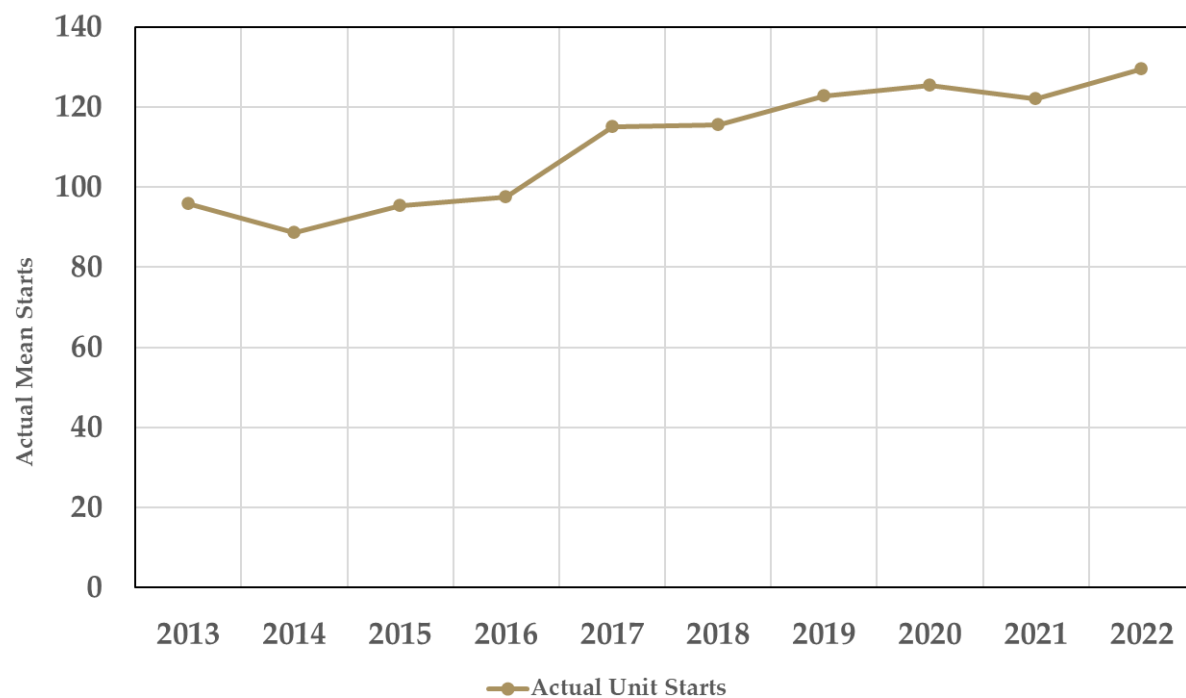
- Approve the edits as presented
- Approved

EFORd

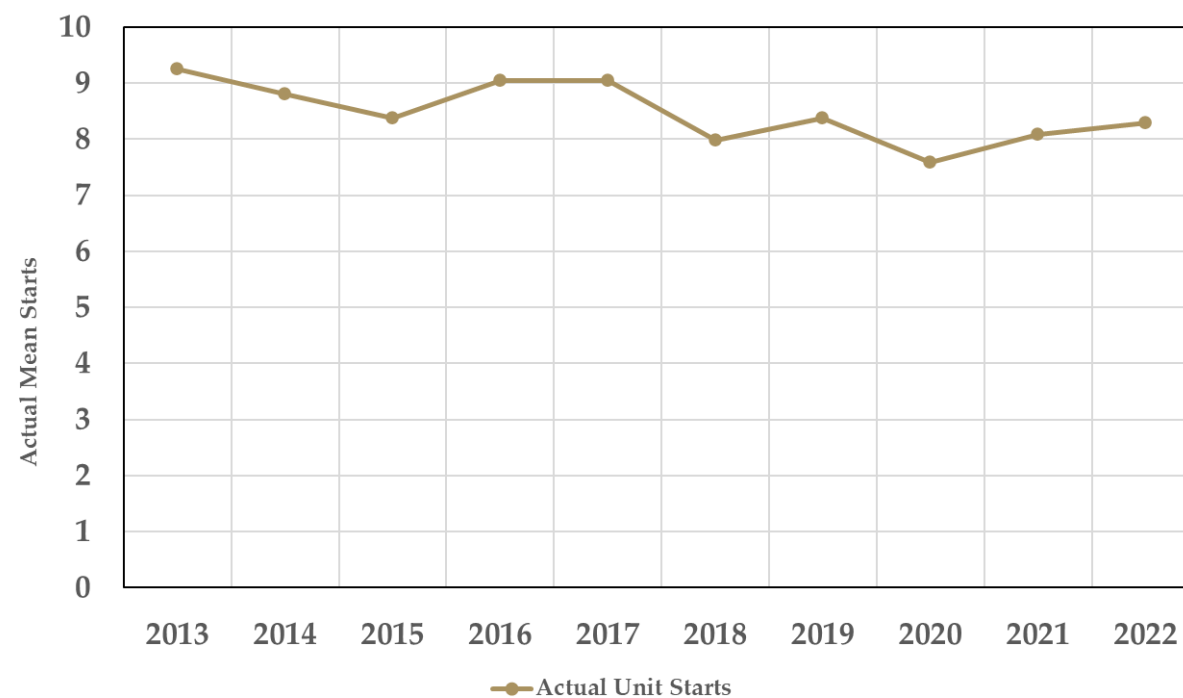
EFORd

- # of Starts per year by subtype

Gas GT 51-150MW Actual Units Starts



Steam Coal 401-5000MW Actual Unit Starts



Approval Item

- Model EFORd as follows:
 - Gas—
 - Coal—
 - Going to check with Intertek to review what we have in the case

Wheeling

Wheeling

Table in GV, old value vs. new value

Approval Item

- Make the presented edits to the Wheeling Rates
 - NW, no wheeling internal to NW
 - Assume by 2034 that tiered wheeling will be fully subscribed, not using tiered wheeling.

Deflator

Deflator

- Can't use Moody's anymore. Only permission to use it in some form of CEC-related project
- Previous version of Moody's Deflator
 - 2022-2024\$: 1.072%
- CA Department of Finance (DOF) has a deflator (<https://dof.ca.gov/forecasting/economics/economic-forecasts-u-s-and-california/>)
 - 2022-2024\$: 1.069%

