

## 2019 RTP Update

November 2019 RPG Meeting

### Agenda

- ☐ 2019 RTP status update
- ☐ Preliminary noteworthy 2019 RTP reliability projects
- ☐ Sensitivity analysis update



#### 2019 RTP status update

- □ 2019 RTP N-1 analysis results and cases were posted on MIS Secure Area on June 10, 2019.
- □ 2019 RTP preliminary final reliability cases were posted on MIS Secure Area on October 1, 2019.
- □ Both postings can be accessed through the following link: <a href="https://mis.ercot.com/pps/tibco/mis/Pages/Grid+Informatio">https://mis.ercot.com/pps/tibco/mis/Pages/Grid+Informatio</a> <a href="n/RegionalPlanning">n/RegionalPlanning</a>



### 2019 RTP status update cont'd

- ☐ Currently in progress
  - Long lead time equipment analysis
  - Sensitivity analysis
  - Short circuit analysis
  - Multiple elements outage, extreme events and cascading analysis
  - Economic analysis



# Noteworthy 2019 RTP projects (preliminary findings)

- ☐ Hicks Switch-Alliance-Roanoke 345 kV line upgrade in Tarrant and Denton County (Project Index: 2019-NC11).
- ☐ Lake Creek SES to Tradinghouse SES 345 kV line upgrade in McLennan County (Project Index: 2019-NC12).
- ☐ Venus Switch to Navarro 345 kV line upgrade in Ellis and Navarro County (Project Index: 2019-NC15).
- Seagoville Switch to Forney Switch 345 kV line upgrade in Dallas and Kaufman County (Project Index: 2019-NC31).
- ☐ Forney to Royse 345 kV line upgrade in Rockwall and Kaufman County (Project Index: 2019-NC36).



# Noteworthy 2019 RTP projects cont'd (preliminary findings)

- New Resnik 345 kV station with two 345/138 kV autotransformers, and new 345 kV double-circuit line from Grissom to Angstrom, Angstrom to Resnik, and Resnik to Whitepoint in San Patricio and Bee County (Project Index: 2019-S4). The project is placeholder project for the AEPSC Corpus North Shore project that is currently under RPG review.
- ☐ Hutto 345/138 kV transformer addition in Williamson County (Project Index: 2019-SC1).
- Quarry Field substation 345 kV addition in Winkler County (Project Index: 2019-FW1). This project was also identified in the Delaware Basin load integration study.



#### 2019 RTP sensitivity analysis update

- ☐ High Wind Low Load (off-peak case for 2022)
  - Wind penetration level: 69.7%
  - Preliminary findings: with the penetration level maintained at 69.7%, potential steady state criteria violations associated with wind export were identified for both the North/West/Far West to East export, and the export from the Lower Rio Grande Valley (LRGV).
- □ No Wind No Hydro (summer peak case for 2021 and 2024)
  - Preliminary findings: South/South Central region saw unsolved power flows under various P3 contingencies, which indicates a potential LRGV import issue.



### Question



