



# ERCOT GTC Updates

Transmission Operations Planning

ROS Meeting  
6/3/2021

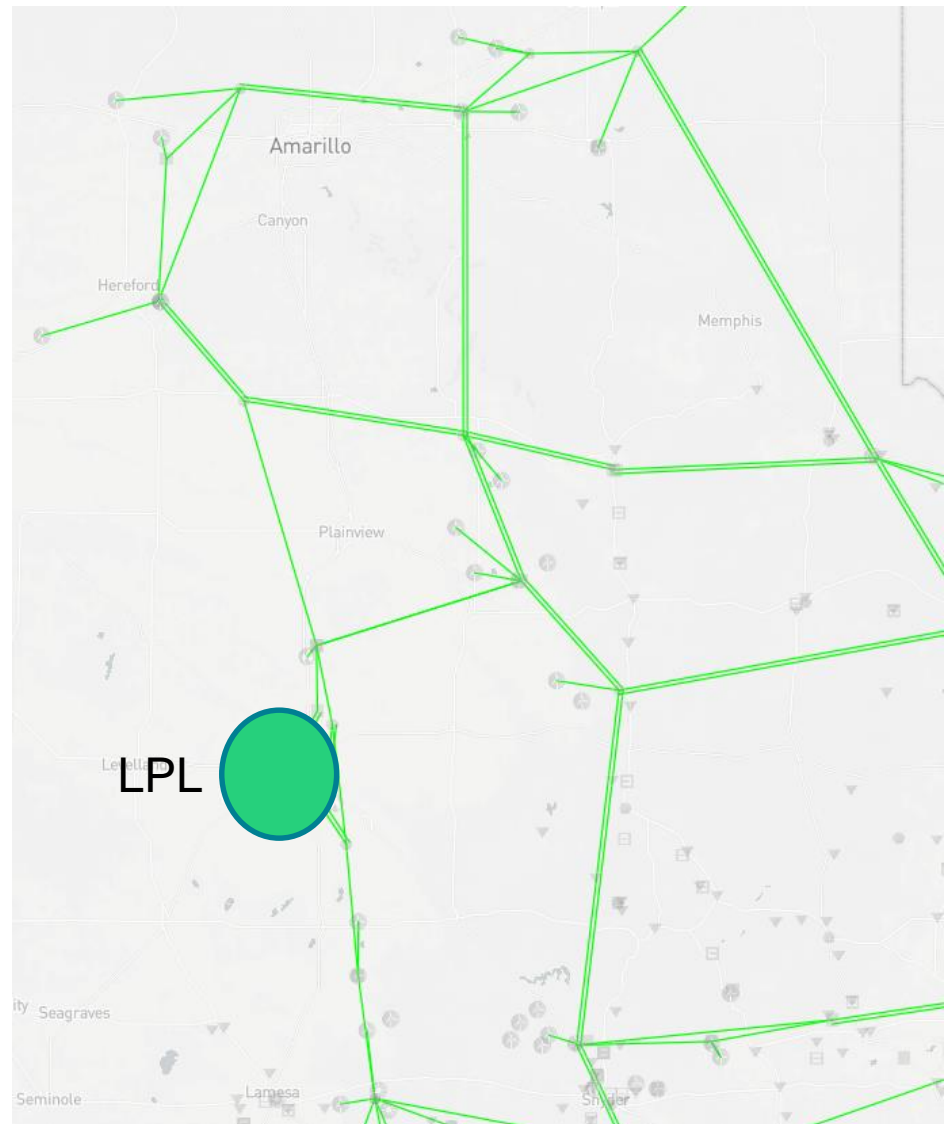
## Recent GTC Update Summary

- GTC Update (2021 Q2 QSA follow-up)\*
  - McCamey (Revised on 5/6/2021)
    - No stability constraints were identified under no prior outage condition (GTL = 9999)
    - GTLs were updated under prior outage conditions
  - A new WILBRN Import GTC (Implemented on 5/6/2021)
    - Import GTC
    - No stability constraints were identified under no prior outage condition (GTL = 9999)
    - Only applied to the identified prior outage conditions
  - Panhandle GTC was updated to include for post Lubbock Integration (Revised on 5/17/2021)

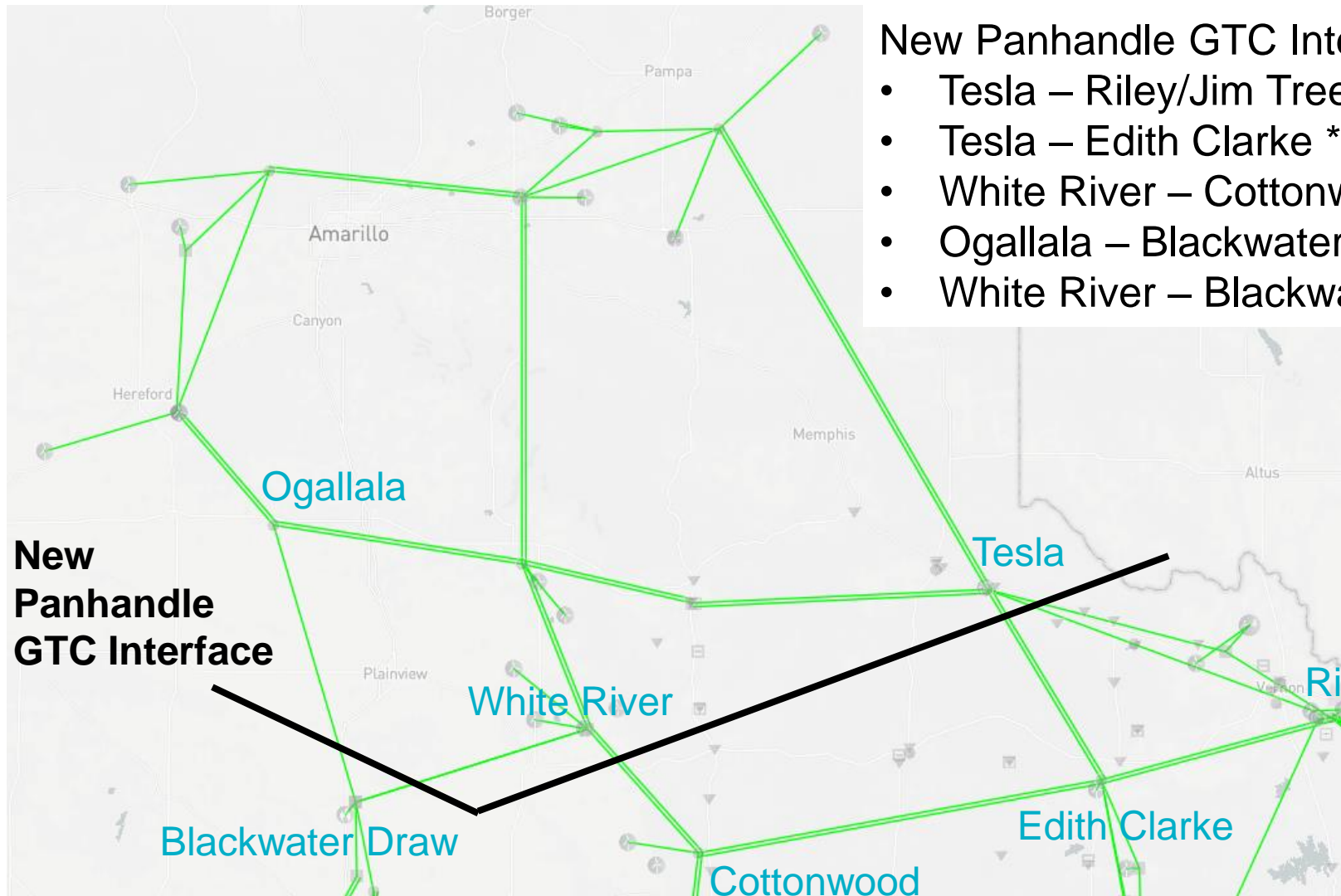
\* <https://mis.ercot.com/secure/data-products/grid/transmission?id=NP3-770-M>

## LPL Integration

- The new 345 kV lines associated with LPL Integration (Blackwater – Double Mountain – Fiddlewood – Farmland) energized on 5/17/2021
- These 345kV lines have a significant impact on Panhandle GTC/GTL



# New Panhandle GTC Interface



## New Panhandle GTC Interface:

- Tesla – Riley/Jim Treece
- Tesla – Edith Clarke \*2
- White River – Cottonwood \*2
- Ogallala – Blackwater Draw
- White River – Blackwater Draw

## The Panhandle GTC Update

- WSCR has been retired
- VSAT is still applied in real-time using the actual operating condition
- Dynamic voltage limit has been updated using the off-line dynamic simulation
- The minimum of VSAT limit and Dynamic voltage limit will be used when determining limits in real time
- No stability constraints identified under no prior outage condition (GTL = 9999)

## Future South/Valley GTC Update

- South Texas study in Q3 2021 QSA study
  - Southern area behind the 345 kV lines\*:
    - Pawnee – Calavers
    - Sanmiguel – ElmCreek (DCKT)
    - Whitepoint – STP
  - Total renewables: 8.3 GW
  - 3 new generation projects (total 424MW) in the study area will be synchronized in Q3 2021

*\* These lines are only for the purpose of creating the QSA study area boundary. They are not related to any GTC interface.*

# Future South/Valley GTC Update

- Q3 QSA study indicates:
  - Lower dispatch limits for Valley area (including Ajo/Lobo/Valley Export), compared to previous QSA studies
  - Identified potential stability issues related to Nelson Sharpe – Grissom – Goddard area
  - Stability issues: unacceptable voltage recovery and oscillatory response
- ERCOT is working on the South/Valley GTC study
  - ERCOT may establish GTCs and GTLs, based on further analysis, that are different from those identified in this QSA
  - QSA results should not be interpreted as the final GTLs for any specific GTC
  - QSA is not meant to identify interface definitions for any specific GTC