



LCRA TSC Cooks Point Substation and Transmission Line Addition – ERCOT Study Scope

RPG Meeting
November 15, 2016

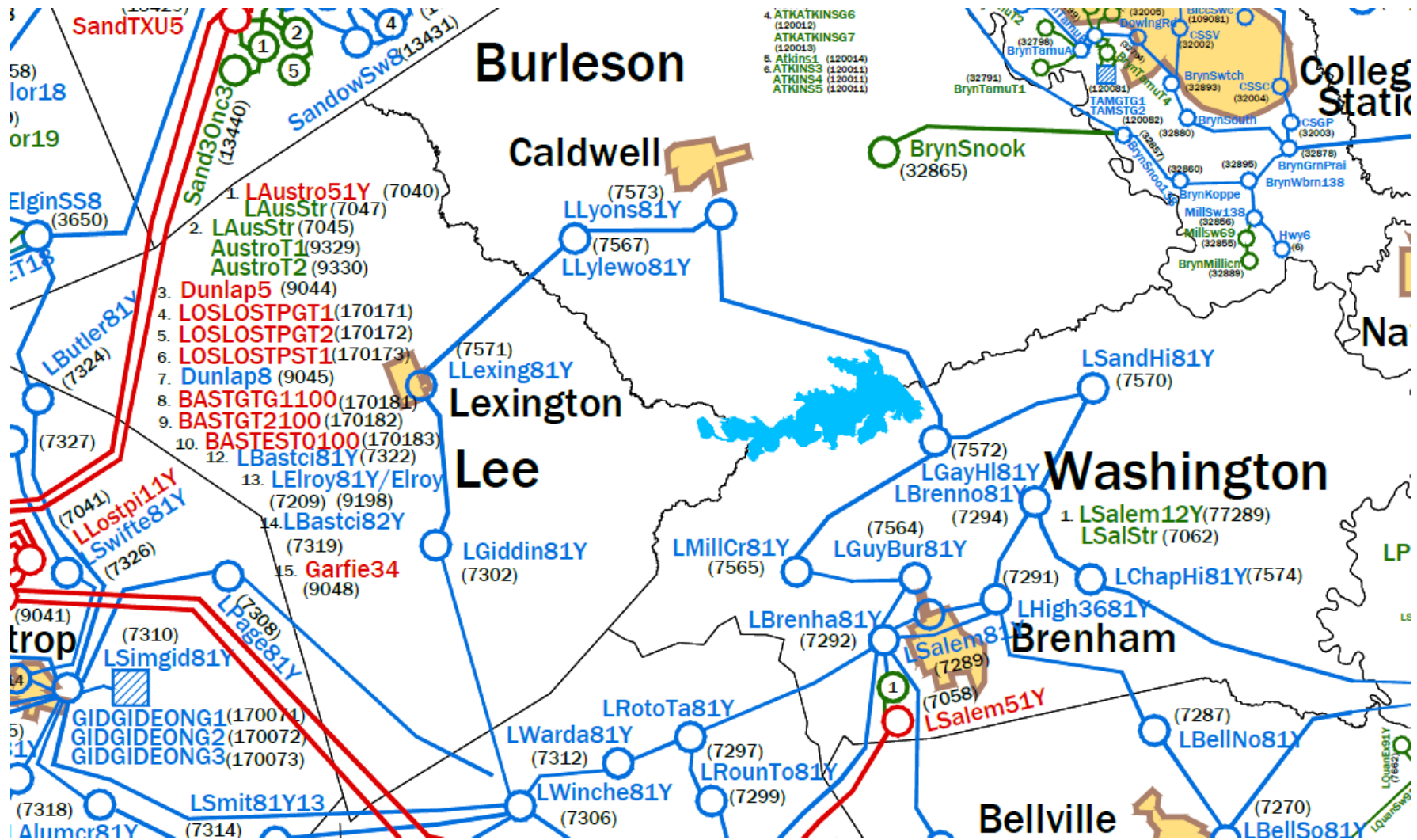
Status of LCRA TSC Cooks Point RPG Review

- ❑ The LCRA TSC Cooks Point RPG project has gone through the comment period, study mode, and is currently under ERCOT Independent Review.
- ❑ ERCOT has developed a study scope to assess the need of the Cooks Point project.

Introduction

- ❑ Bluebonnet Electric Cooperative (BBEC) load forecast showed that the load serving by the Lyle Wolz and Lyons substations will reach 60 MW in 2021, 61 MW in 2022 and 67 MW in 2023.
- ❑ LCRA transmission analysis showed heavily loaded transmission lines, steady state voltage deviation and transient voltage recovery issues under contingency conditions.
- ❑ LCRA indicated that the BBEC distribution system assessments showed that even with the planned distribution system upgrades, the distribution systems will not be able to support the forecasted load growth beyond 2020.

Study Area



Study Assumptions

- ❑ Study Area: The study area is the South Central weather zone, particularly the 138 kV transmission loop in Burleson and Lee county.
- ❑ Study Cases:
 - Steady state: The 2022 South/South Central (SSC) Summer Peak case from the 2016 Regional Transmission Plan (RTP).
 - Dynamic analysis: DWG 2022 Summer Peak Flat Start case
 - There are no generators that met Planning Guide Section 6.9 requirements in the study region need to be added to the study case.
 - The load at the Lyle Wolz and Lyons substations will be updated in the study case using the BBEC load forecast values.

Analysis and Criteria

- ❑ Both steady state contingency analysis and dynamic study will be performed.

- ❑ Contingencies and criteria of reliability analysis
 - The study will include all contingencies consistent with Planning Guide Section 4.1.1.2 and criteria consistent with 2016 RTP.
 - NERC TPL-001-4 Contingencies.

- ❑ Sensitivity studies may be performed with generators in the study region that have already signed Interconnection Agreement but not met Planning Guide section 6.9 requirements yet.



Questions?