



CPS Energy – San Antonio South Reliability Project – ERCOT Independent Review (EIR) Status Update

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RPG Meeting
June 16, 2023

Recap

- CPS Energy (CPS) submitted the San Antonio South Reliability Project for Regional Planning Group (RPG) review in December 2022. This is a Tier 1 project
 - Estimated cost \$281 million
 - Requires a Certificate of Convenience and Necessity (CCN)
 - Expected in-service date: June 2027
 - Addresses thermal overloads in the San Antonio area
 - Has a “critical status designation”
- CPS presented project overview at
 - January RPG <https://www.ercot.com/calendar/01252023-RPG-Meeting>
- ERCOT presented project Scope and status updates at
 - February RPG <https://www.ercot.com/calendar/02142023-RPG-Meeting>
 - March RPG <https://www.ercot.com/calendar/03222023-RPG-Meeting>
 - April RPG <https://www.ercot.com/calendar/04112023-RPG-Meeting>
 - May RPG <https://www.ercot.com/calendar/05162023-RPG-Meeting>

Recap (cont.)

- ERCOT preferred option
 - Option 5 was selected as the preferred option because it
 - Addresses reliability violation
 - Improves Long-Term Load Serving Capability for future load growth in the area
 - Improves operational flexibility
 - Provides an additional transfer path from Southern Texas to San Antonio
 - Is the least cost feasible option
- ERCOT will present the results for the remaining analyses and ERCOT recommendation

Congestion Analyses

- Congestion Analysis was performed based on Option 5 (ERCOT-preferred option) to determine if the proposed transmission upgrades resulted in new congestion within the study area
- Option 5 relieved three existing congestions and resulted in one new congestion

Monitored Line	% Time of Congestion	New / Existing
Howard Road to Leon Creek 138-kV Line	24.02	Existing
Leon Creek to Southsan 138-kV Line	0.83	Existing
Spruce to Pawnee 345-kV Line	0.74	Existing
Cagnon to Vlsi 138-kV Line	0.73	New

- Upgrading the new congested line did not yield any economic benefit and therefore will not be recommended for upgrade as part of this project

Upgrade	Mileage (mi)	Passed Generator Revenue Reduction Test	Passed Production Cost Savings Test
Cagnon to Vlsi 138-kV line upgrade	8.7	No	No

Sub-Synchronous Resonance (SSR) Assessment

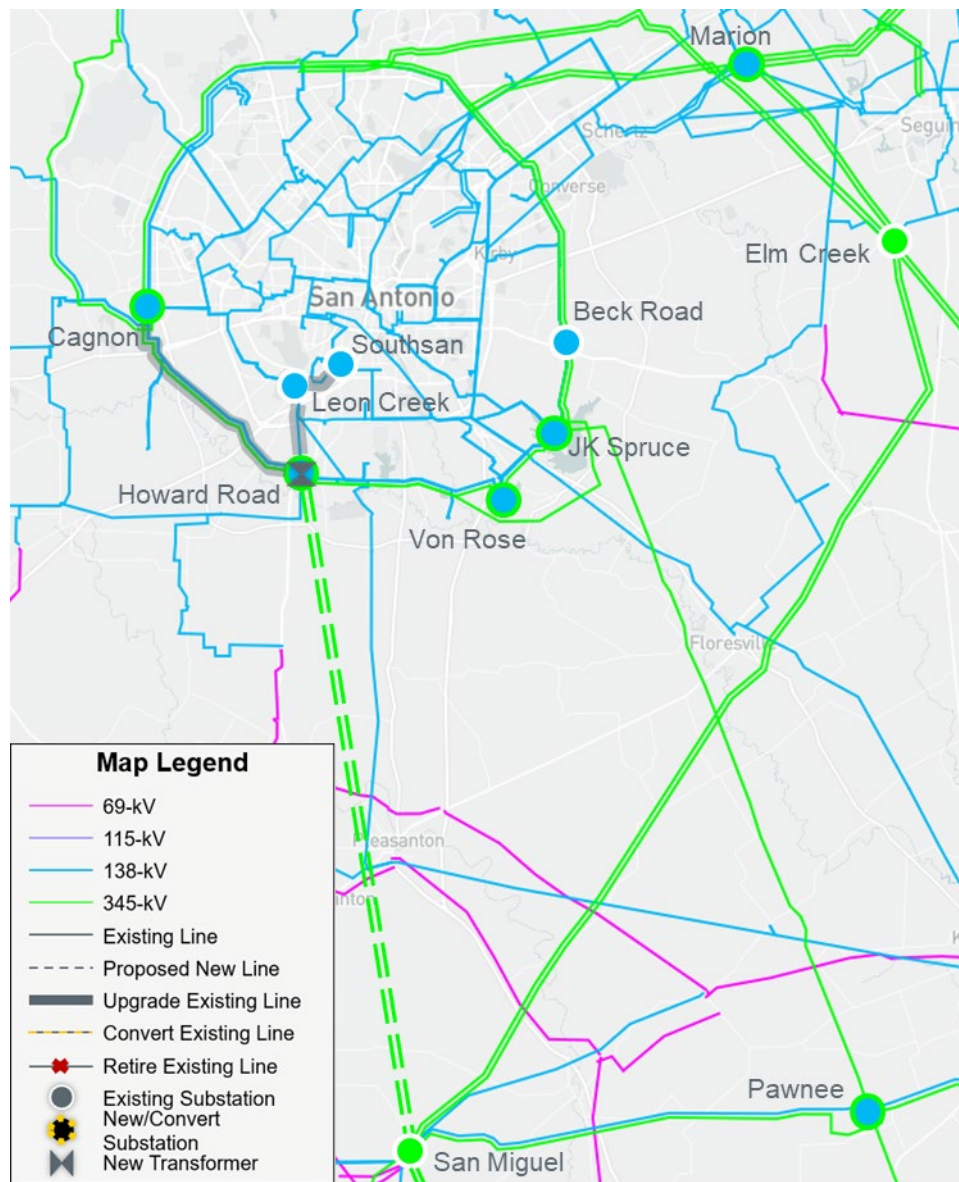
- Sub-Synchronous Resonance (SSR) Assessment was conducted for the preferred Option 5 per Nodal Protocol Section 3.22.1.3
 - ERCOT found no adverse SSR impacts to the existing and planned generation resources at the time of this study

ERCOT Recommendation

- ERCOT recommends Option 5
 - Estimated Cost: \$329.1 million
 - Expected In-Service Date: June 2027
 - CCN is required for
 - Construction the new 50-mile Howard Road to San Miguel double circuit 345-kV transmission line
 - Rebuilding portion of the existing 4.9-mile Howard Road to Leon Creek 138-kV transmission line
 - CPS has requested ERCOT designate the recommended project “critical” to the reliability of the system per PUCT Substantive Rule 25.101(b)(3)(D). Since there is a reliability need to have the project in place as soon as possible and to limit the duration of any necessary Constraint Management Plans, ERCOT deems this project critical to reliability

ERCOT Recommendation (cont.)

- Construct new 50-mile Howard Road to San Miguel 345-kV double circuit transmission line with a minimum rating of 1982 MVA
- Rebuild 14.9-mile Cagnon to Howard Road 345-kV double circuit transmission line with a minimum rating of 1746 MVA
- Rebuild 4.9-mile Howard Road to Leon Creek 138-kV transmission line with a minimum of 698 MVA
- Add a third 600-MVA 345/138-kV autotransformer at Howard Road substation
- Rebuild 2.9-mile Leon Creek to Southsan 138-kV transmission line with a minimum rating of 478 MVA



Next Steps and Tentative Timeline

- EIR Report to be posted in the MIS
 - June 23, 2023
- EIR recommendation to TAC
 - June 27, 2023
- Seek ERCOT Board of Directors endorsement
 - August 20, 2023

Thank you!



Stakeholder comments also welcomed through:

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