

PUBLIC



Denton Municipal Electric (DME) - Denton Area Transmission Improvements (26RPG005) – ERCOT Independent Review (EIR) Status Update

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Regional Planning Group (RPG) Meeting
July 21, 2026

Introduction (Recap)

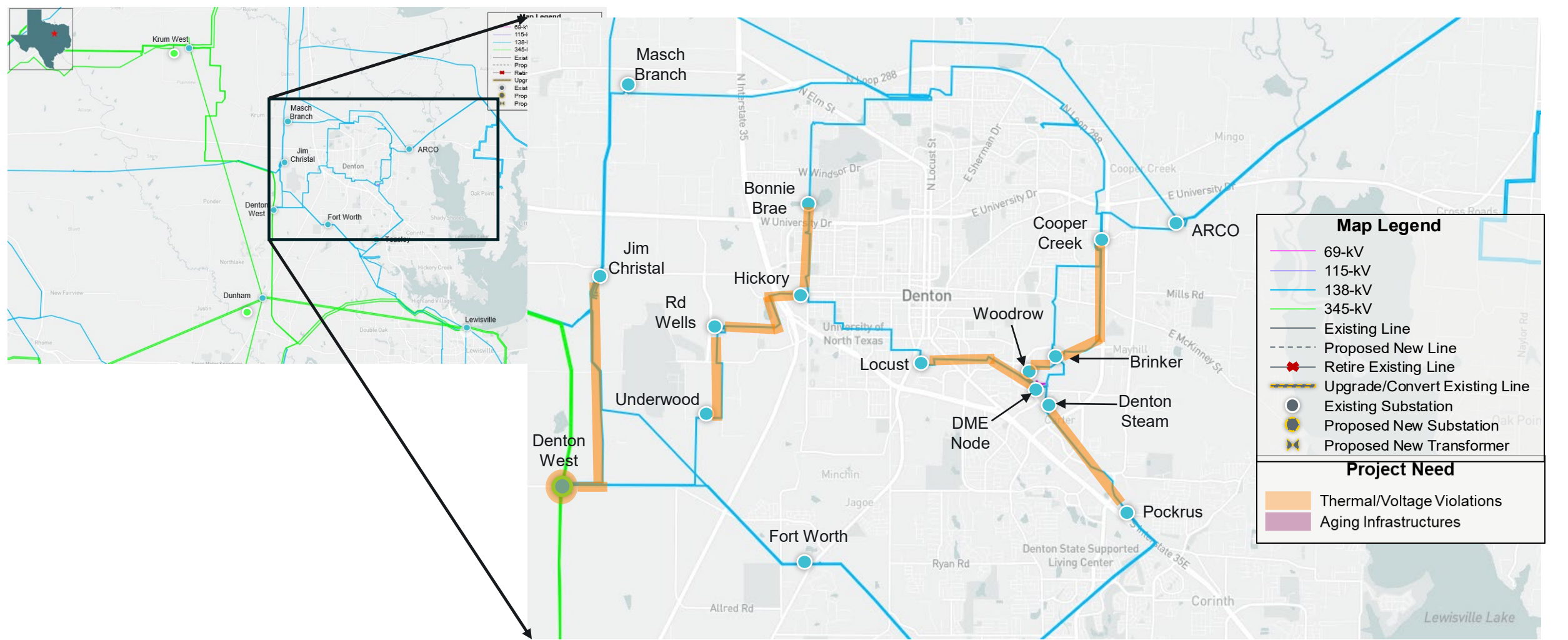
Denton Municipal Electric (DME) submitted the Denton Area Transmission Improvements Project (26RPG005) for Electric Reliability Council of Texas (ERCOT) for Regional Planning Group (RPG) review in February 2026

- This is a Tier 1 project with an estimated cost of \$222.4 million and will require a Certificate of Convenience and Necessity (CCN)
- Estimated in-service date (ISD) is Summer 2030
- Addresses post-contingency thermal overloads in the Denton area

This project is currently under ERCOT independent Review (EIR)

- Denton presented the project overview at the [April 2026 RPG Meeting](#)
- ERCOT presented the EIR status updates at the [April 2026 RPG Meeting](#)

Study Area Map with Project Needs Seen by DME (Recap)



Study Assumptions (Update)

Study Area

- Denton County considered for this study
- North Central Weather Zone electrically close to project location

Steady-State Base Case

- Final [2025 Regional Transmission Planning \(RTP\)](#) 2031 summer peak load case, published on Market Information System (MIS) in December 2025, was updated to construct the study base case

Loads in study area

- Full Officer Letter Loads modeled in the following counties:
 - Collin +120 MW
 - Dallas +5,401 MW
 - Denton +362 MW
 - Grayson +362 MW
 - Tarrant +1,644 MW
 - Total +7,889 MW

Reserve

- Load outside of study weather zone(s) was adjusted to make up the reserve to be consistent with the 2025 RTP

Study Assumptions (continued)

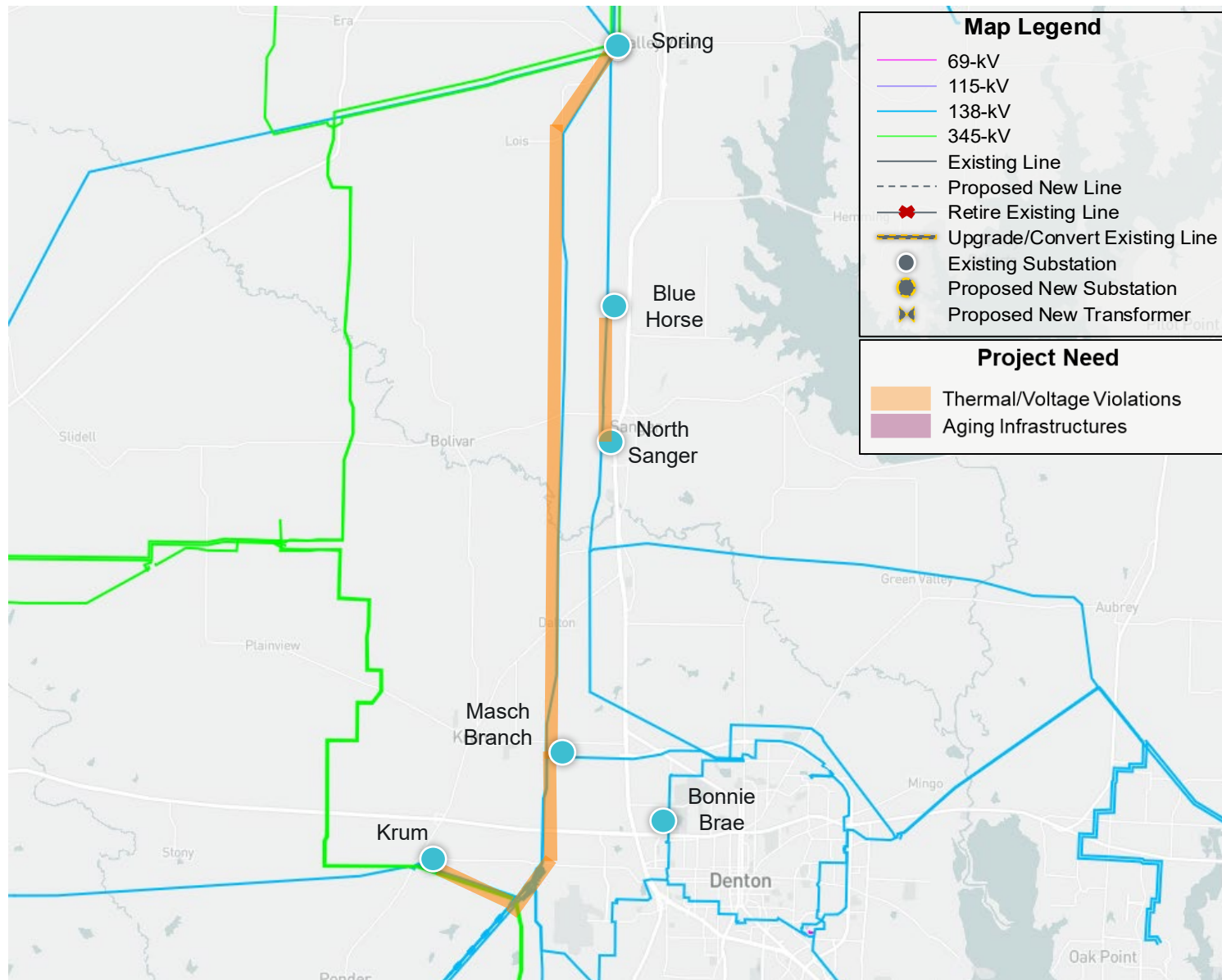
Transmission Updates

- New transmission projects (listed in [Appendix A1](#)), based on the February 2026 [Transmission Project and Information Tracking \(TPIT\) report](#), added to the base case
- Transmission projects (listed in [Appendix A2](#)) identified in the 2025 RTP in the study area that have not been approved by RPG removed

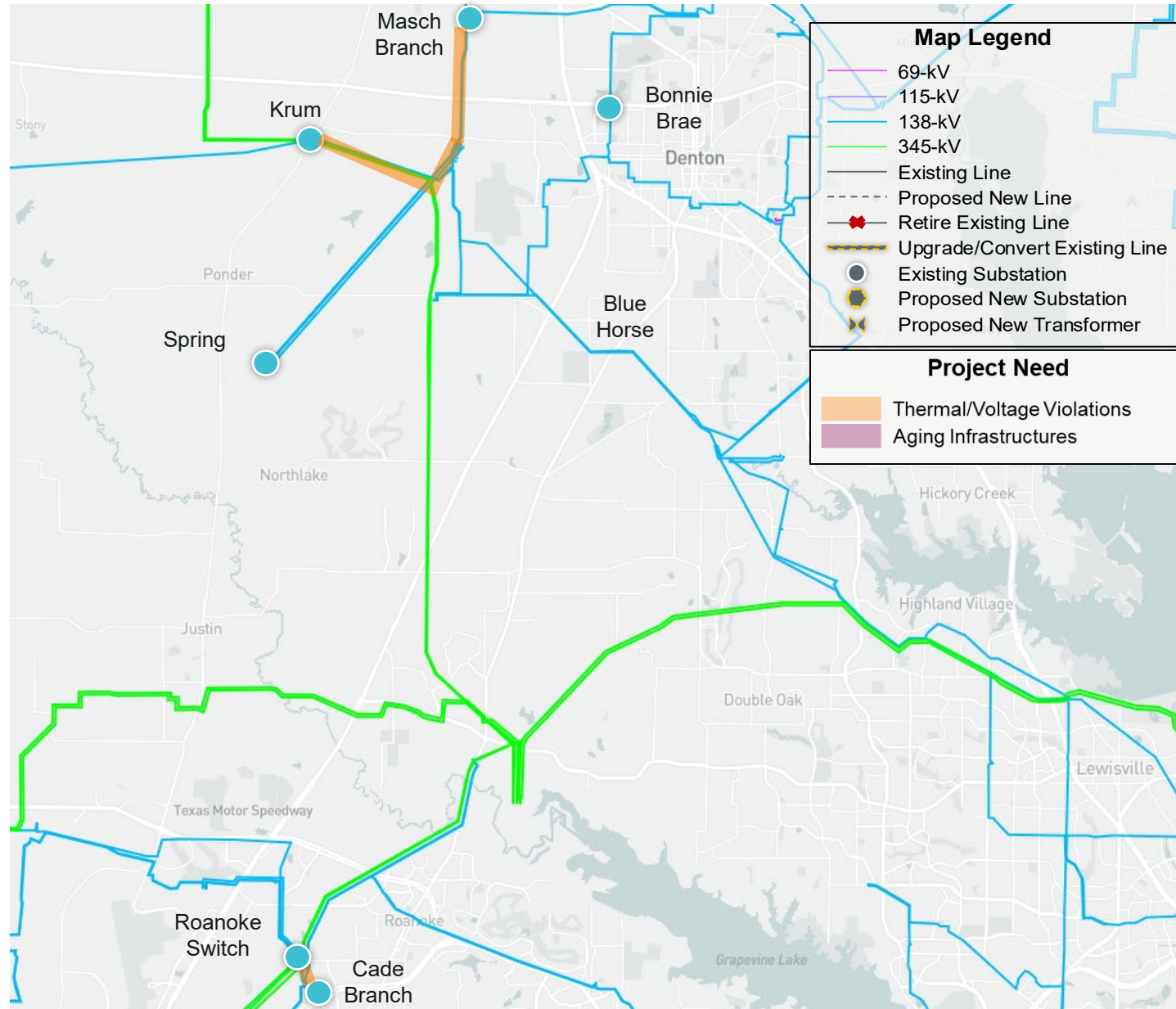
Generation Updates

- No new generation that met ERCOT Planning Guide Section 6.9(1) condition with Commercial Operation Date (COD) before the June 2030 in the study area at the time of the study, but not already modeled in the RTP cases, will be added to the case based on February 2026 [Generator Interconnection Status \(GIS\) report](#) published in MIS in March 2026
- All generation dispatched consistent with the 2025 RTP methodology
- All recent retired/indefinitely mothballed units reviewed and opened (turned off), if not already reflected in the 2025 RTP Final cases

Study Area Map with Project Needs Seen by ERCOT



Study Area Map with Project Needs Seen by ERCOT



Preliminary Results of Reliability Assessment – Base Case

ERCOT conducted steady-state load flow analysis for the study base case according to the NERC Reliability Standard TPL-001-5.1 and ERCOT Planning Criteria to identify the project need

Contingency Category	Unsolved Power Flow	Voltage Violations	Thermal Overloads
P1	0	0	4
P2, P4, P5	0	0	0
P3: (G-1+N-1)*	0	0	0
P6-2: (X-1+N-1)*	0	0	0
P7	0	0	0
Total	0	0	4

* See [Appendix B](#) for the list of generators and transformers being tested for G-1+N-1 and X-1+N-1 analyses, respectively

Key Takeaway: Need identified

Status Update

Studies performed since the April RPG meeting

- Reliability Analysis (N-1, G-1+N-1, and X-1+N-1)

Study Procedure

Need Analysis

- The reliability analysis will be performed to identify the need to serve the projected area load using the study base case

Project Evaluation

- Project alternatives will be tested to satisfy the NERC and ERCOT reliability requirements
- ERCOT may also perform the following studies
 - Planned Maintenance Outage Evaluation
 - Long-Term Load-Serving Capability Assessment
- TSP(s) will provide Cost and Feasibility Assessment

Additional Analyses

- Generation Addition and Load Scaling Sensitivity Analyses
 - Planning Guide Section 3.1.3(4)
- Subsynchronous Resonance (SSO) Assessment
 - Nodal Protocol Section 3.22.1.3(2)
- Congestion Analysis
 - Congestion analysis may be performed based on the recommended transmission upgrades to ensure that the identified transmission upgrades do not result in new congestion within the study area

Deliverables and Next Step

Tentative Timelines

- Provide status updates at the future RPG meetings
- ERCOT recommendation in Q3 2026

Key Takeaway: ERCOT recommendation in Q3 2026

Thank you! Questions/Comments?

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Appendix

- Appendix A1 – Transmission Projects Added
- Appendix A2 – Transmission Backed Out
- Appendix B – G-1 Generators and X-1 Transformers List

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Appendix A1 – Transmission Projects Added

TPIT	Project Name	Tier	Project ISD	County
64776	Upgrade 138kV DentonWest-RDWells line to 700MVA (SUM2024)	4	July 2025	Denton
99321	Austin Ranch 138kV Capacitor Bank	4	May 2027	Denton
66118	Reconductor TI-Lakepointe with 959 ACSS/TW	4	Dec 2029	Denton

Appendix A2 – Transmission Backed Out

RTP Project ID	Project Name	County
92778	Dunham 345-138 kV Switch and Dunham - Burger Lake 138 kV Line Section	Denton

Appendix B – List of G-1 Generators and X-1 Transformers Tested

Generator	Transformer
Mountain Creek Unit #8	West Denton #1 345/138-kV
Spencer Unit #5	Lewisville #1 345/138-kV
Denton Energy Center Unit C	Collins #1 345/138-kV