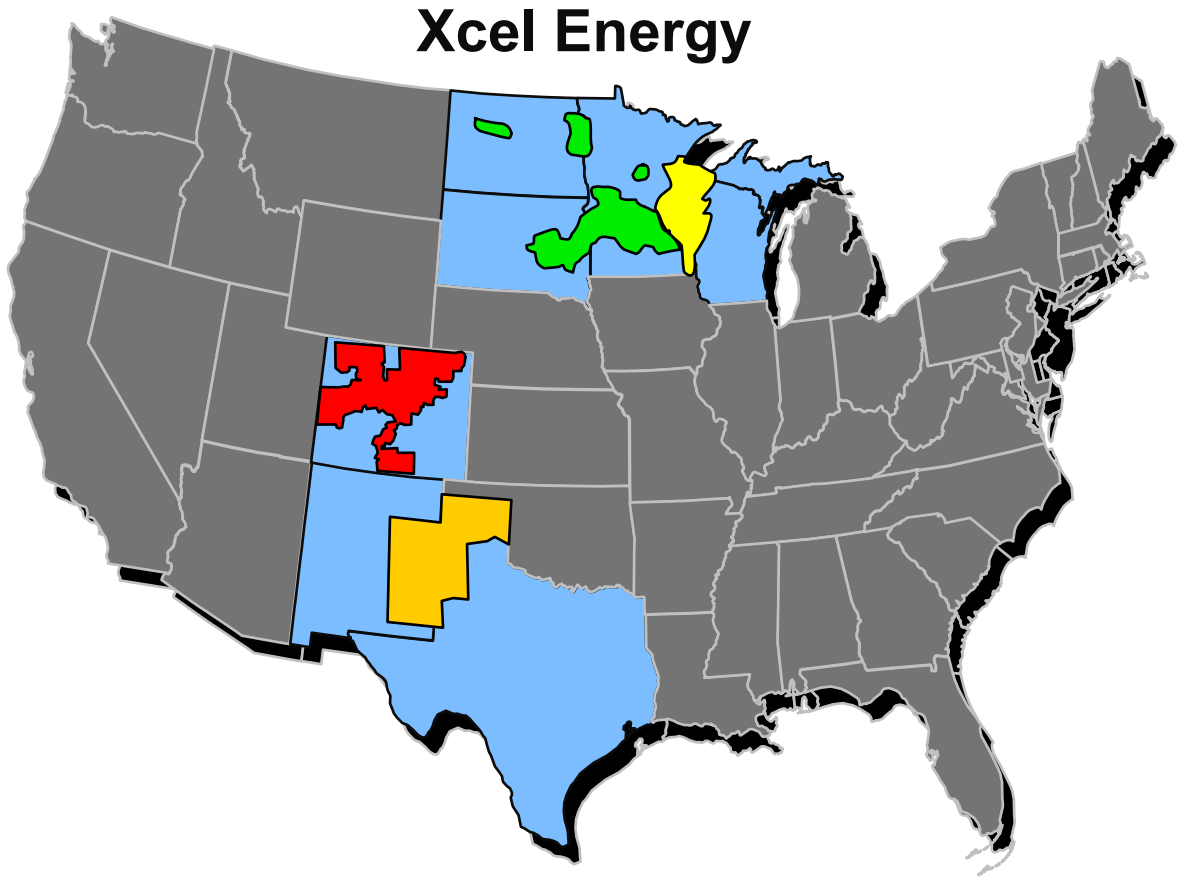
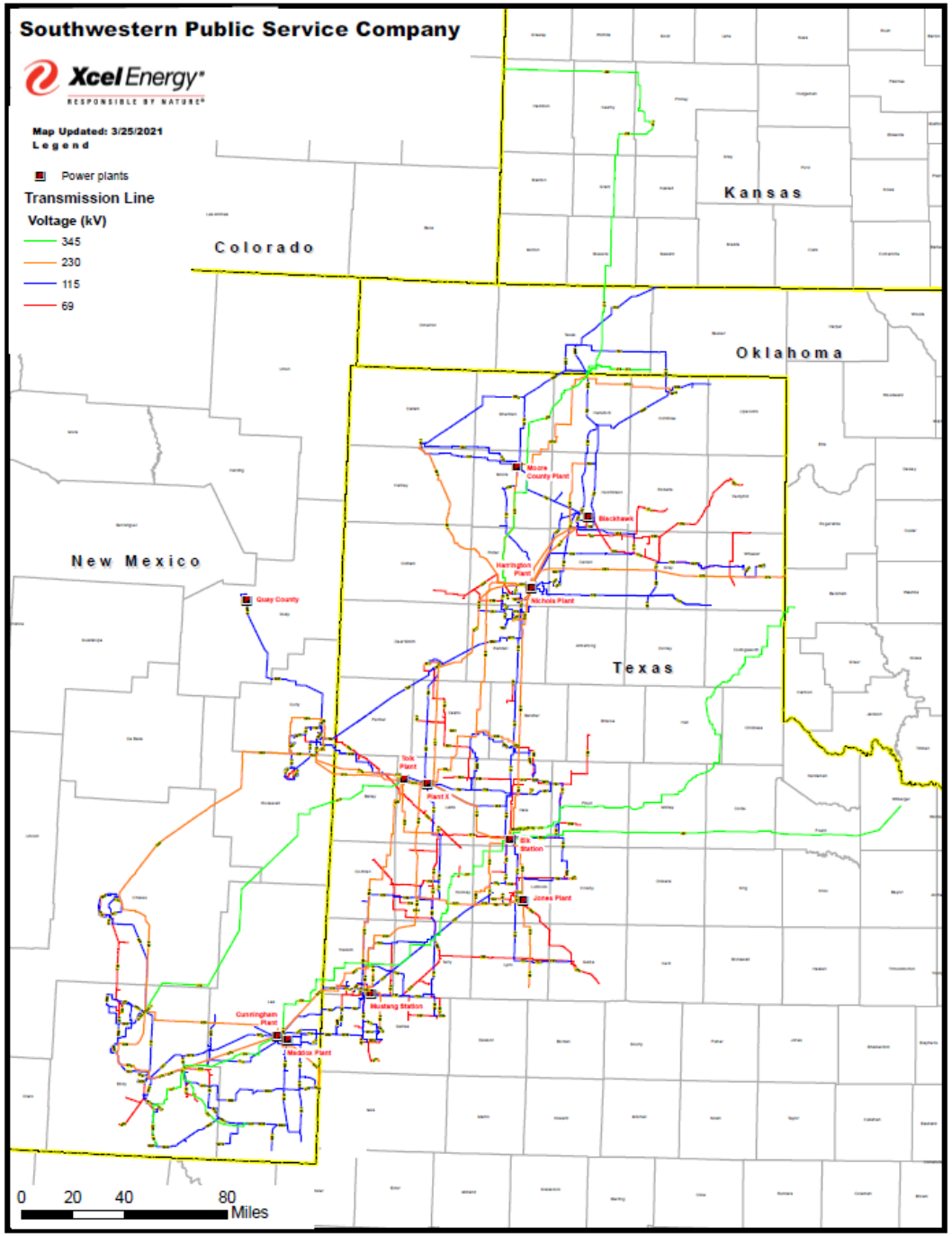
XCEL ENERGY-TEXAS AND NEW MEXICO SUB-REGIONAL TRANSMISSION PLANNING MEETING

Reene Miranda– Manager, Transmission Planning

October 12, 2022

System Maps





Disclaimer

- All in-service dates (ISDs) of Active or Future projects are proposed and subject to change
- All projects have the possibility of changing based on new / evolving information
- These are projects from a Planning perspective as required from a reliability, load or generation interconnection, asset renewal, etc.
- Presentation is for informational purposes

TRANSMISSION SYSTEM ADDITIONS

Sept 2021 – Sept 2022

Tierra Blanca Substation

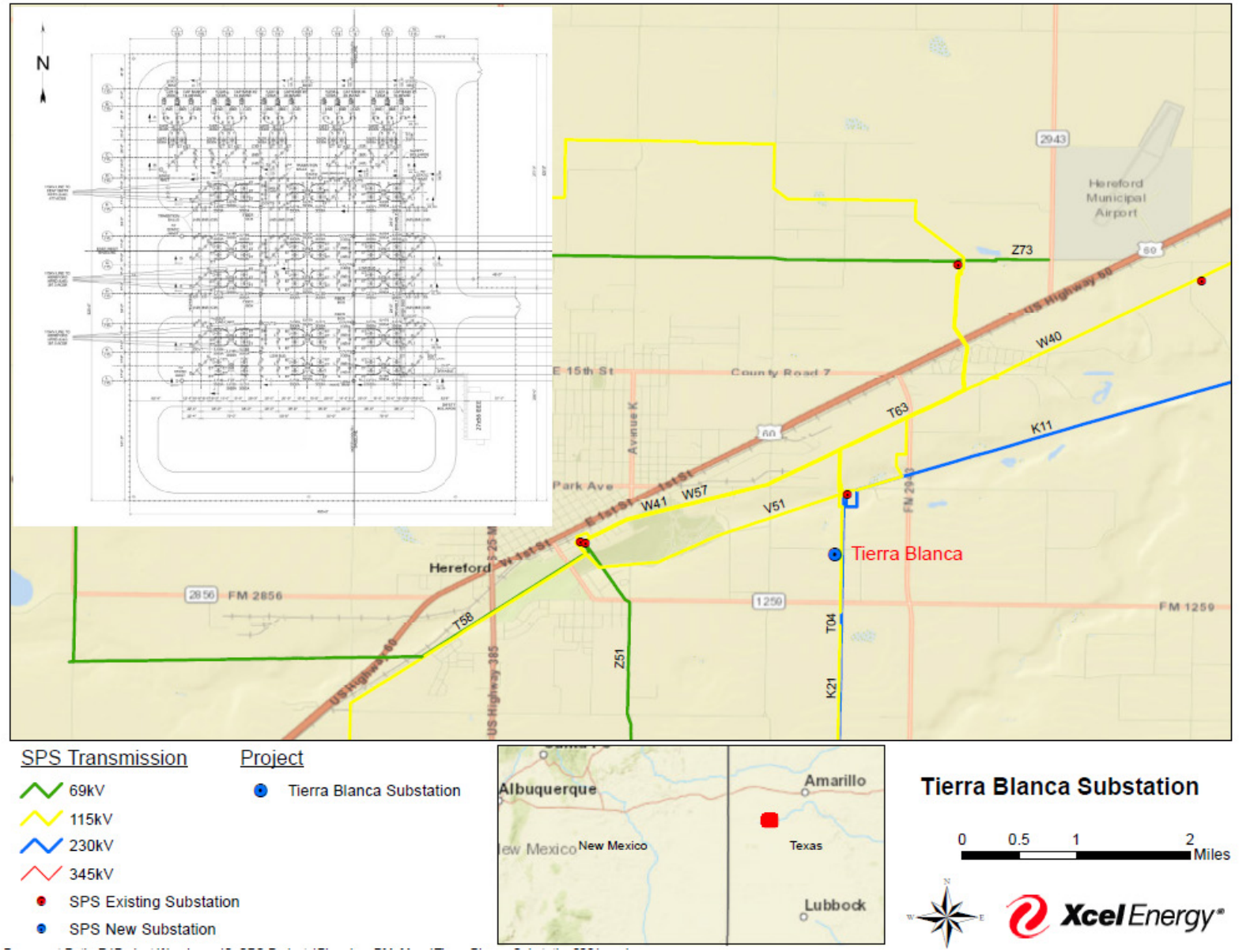
Voltage: 115 kV

ISD: November 2021

NTC: No

Description: Build a new breaker and a half substation and re-terminate five 115 kV lines from SPS Deaf Smith substation (existing straight bus)

Need: Reliability



Bushland-Deaf Smith

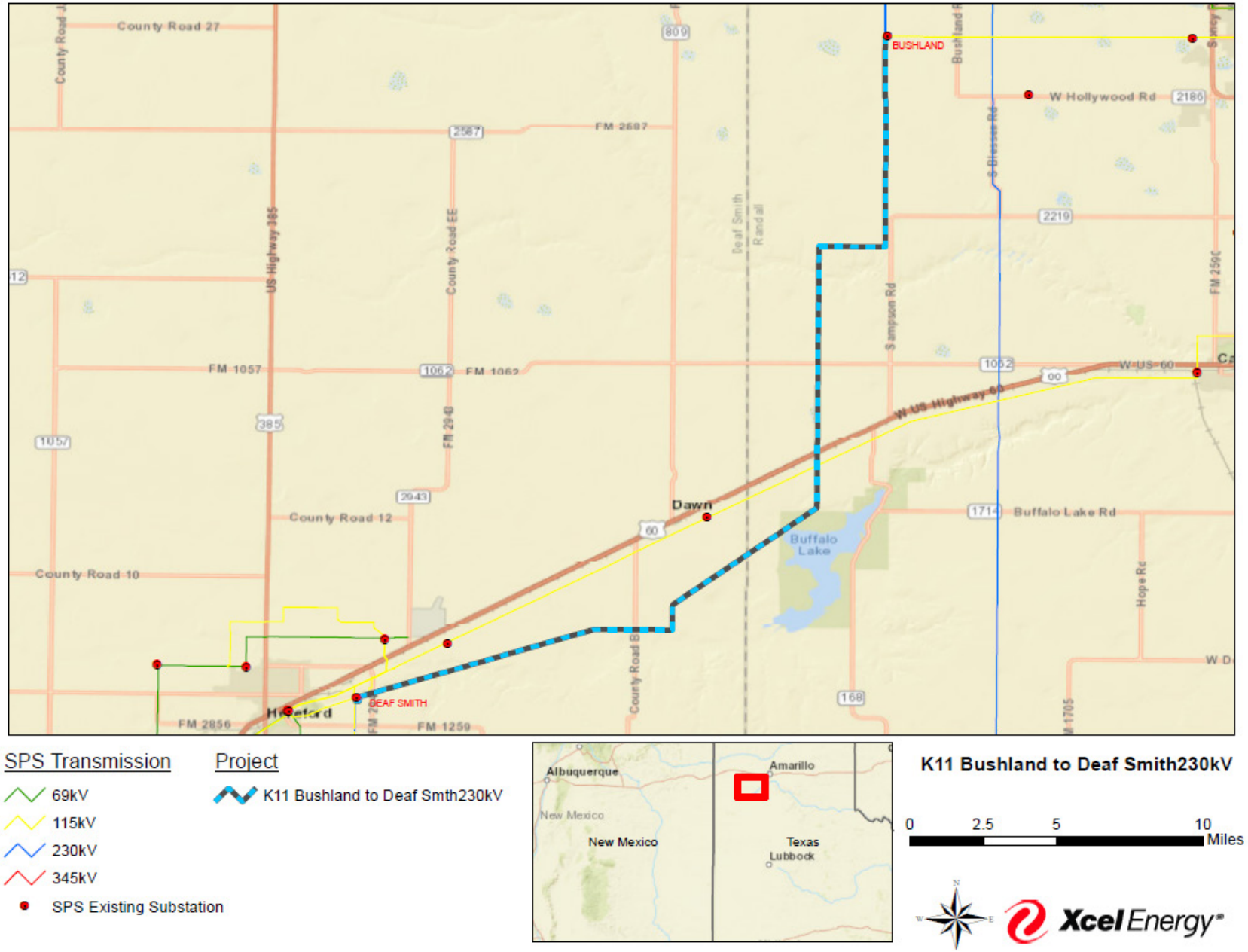
Voltage: 230 kV

ISD: March 2022

NTC: Yes

Description: Terminal Upgrades, K11

Need: Reliability



Tolk 230 kV Substation (Conversion)

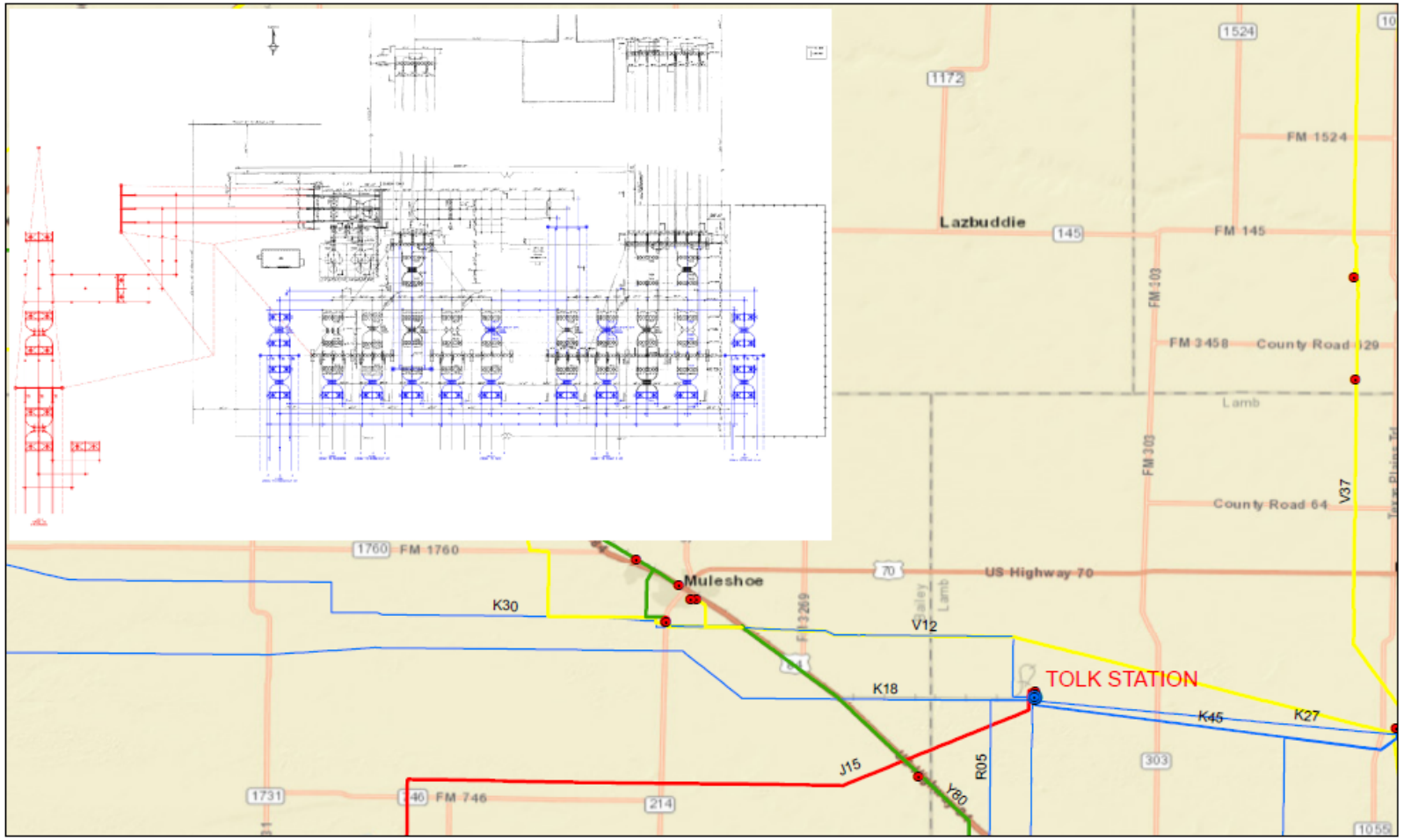
Voltage: 230 kV

ISD: June 2022

NTC: No

Description: Convert the existing 230 kV straight bus at Tolk, to a Double-Bus, Double-Breaker configuration

Need: Reliability



Lubbock South – Wolfforth

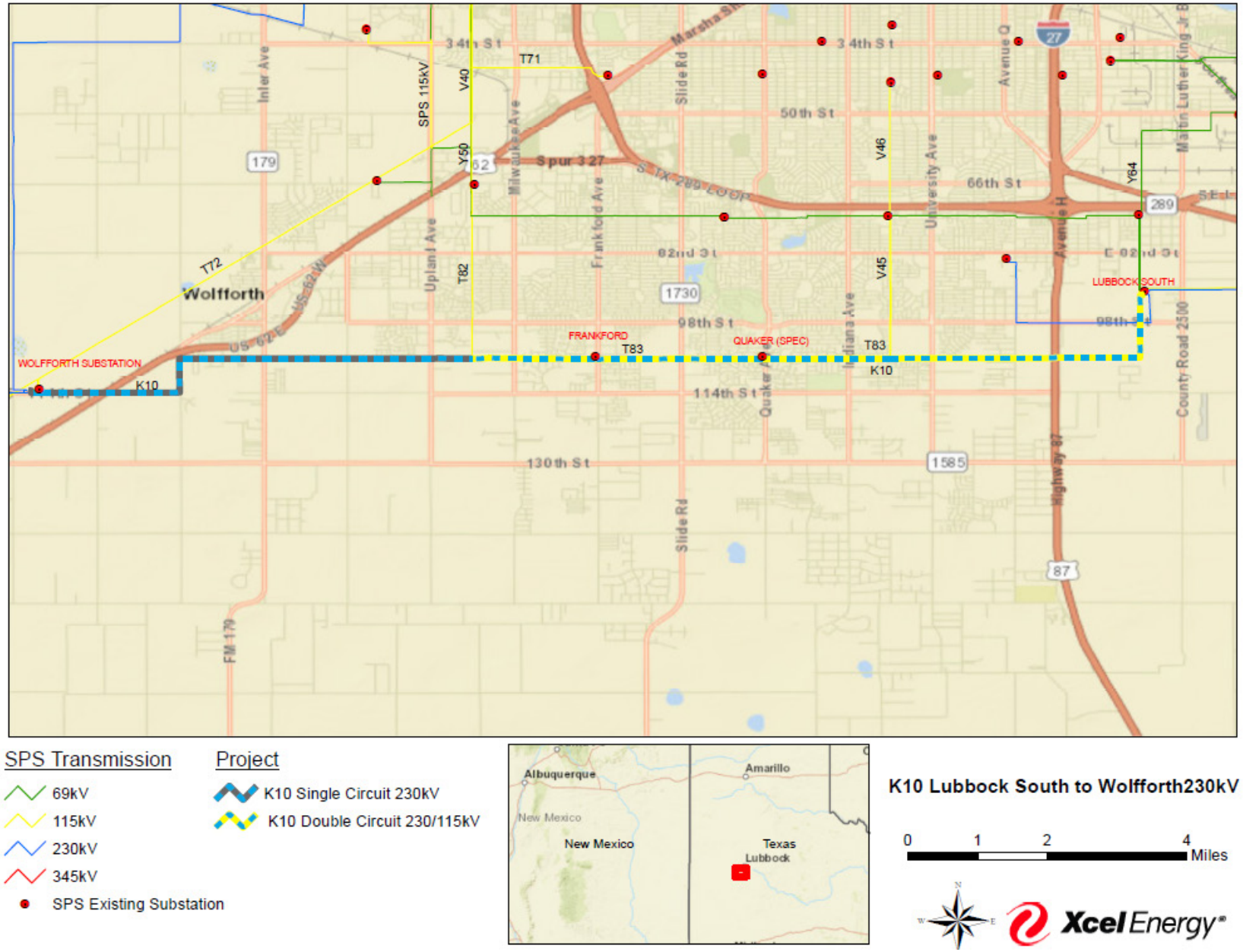
Voltage: 230 kV

ISD: May 2022

NTC: Yes

Description: Terminal Upgrades, K10

Need: Reliability



China Draw-Phantom-Roadrunner

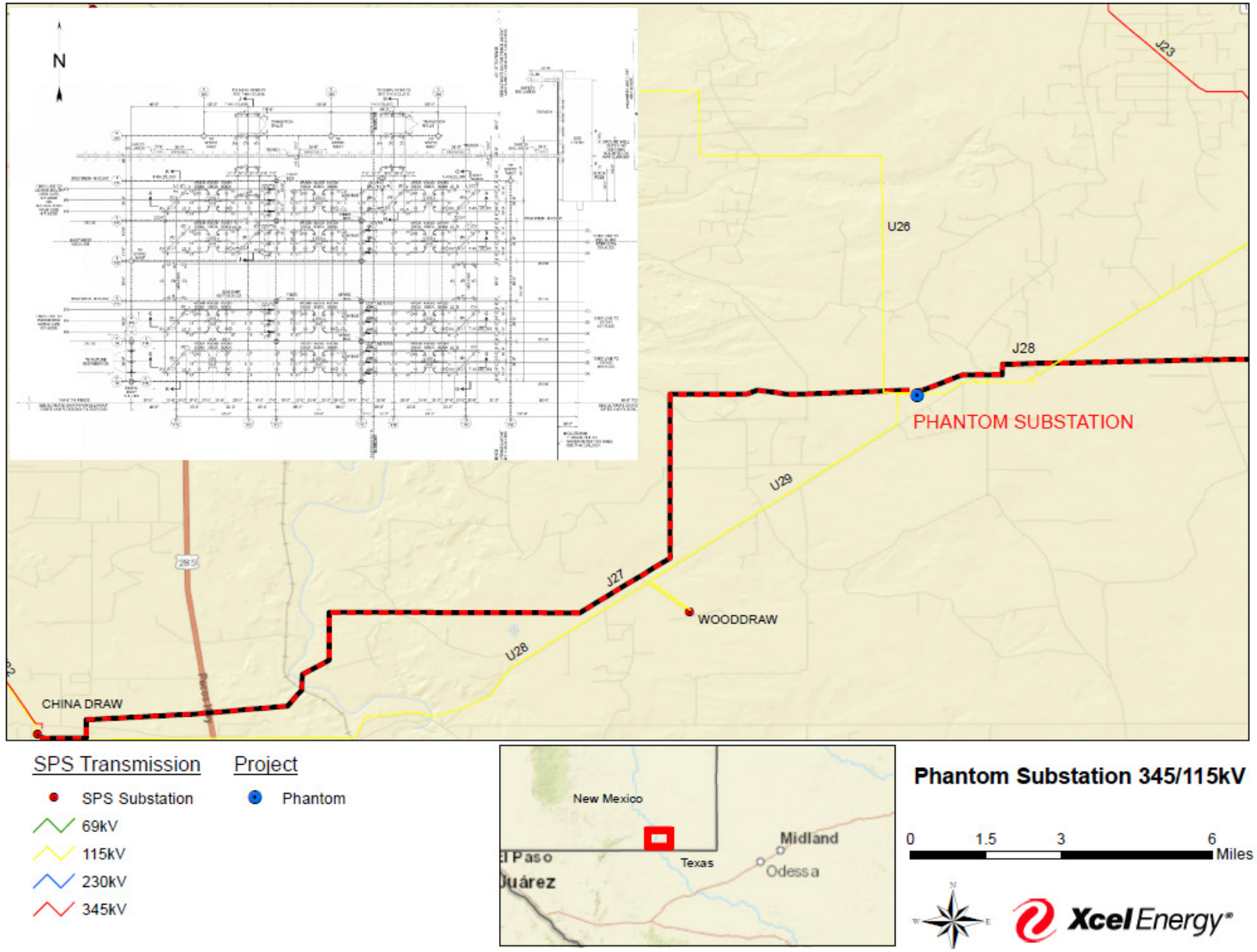
Voltage: 345 kV

ISD: December 2021

NTC: Yes

Description: Build a new 345 kV line, expand China Draw and Roadrunner substations, and build a new Phantom 345/115 kV substation with two transformers

Need: Reliability, Load Growth



Kiowa

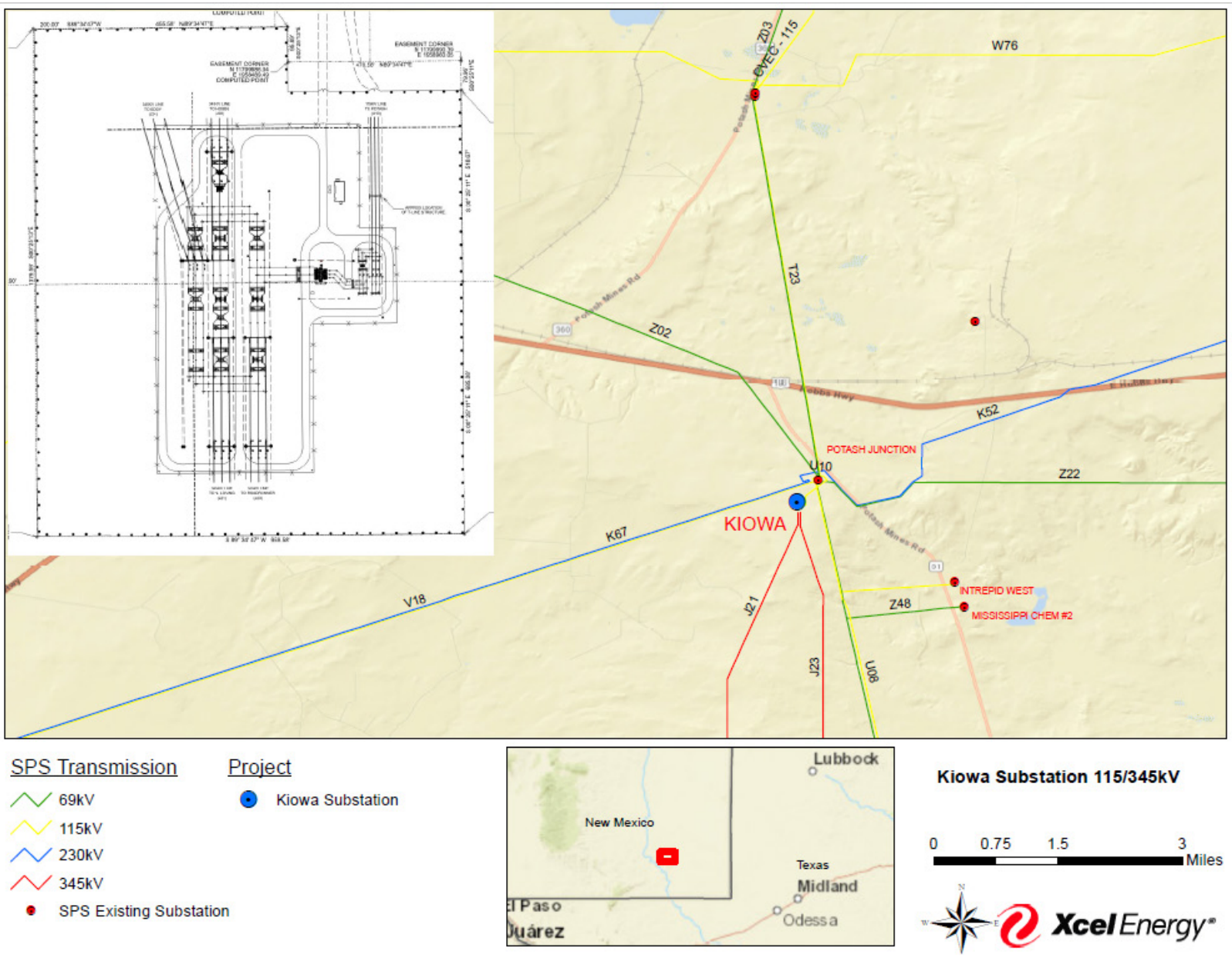
Voltage: 345 kV

ISD: December 2021

NTC: No

Description: New Breaker Addition

Need: Reliability



Four Way Substation

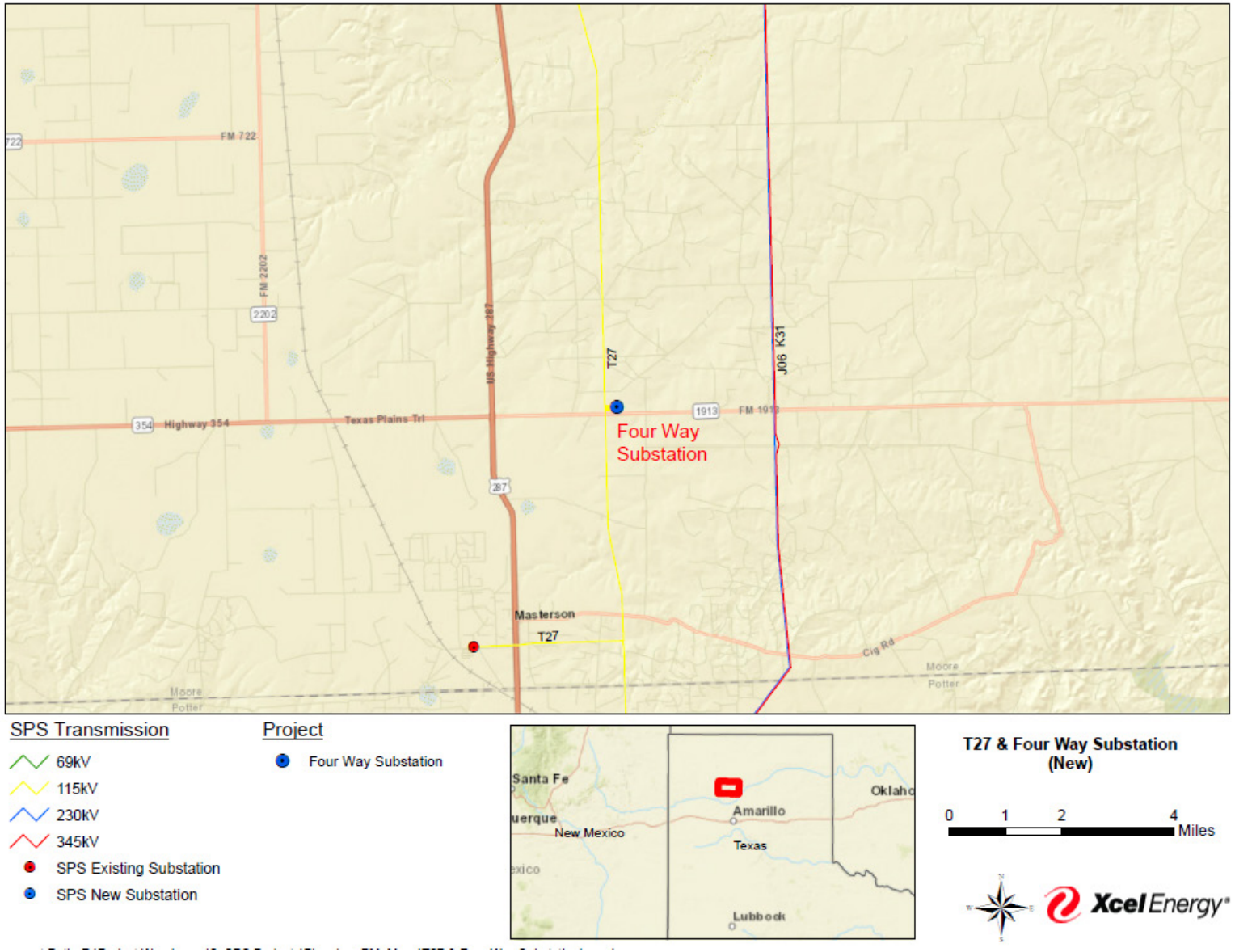
Voltage: 115 kV

ISD: February 2022

NTC: No

Description: New SPS Distribution substation, south of Dumas, TX

Need: Distribution driven



Center Port Distribution Substation

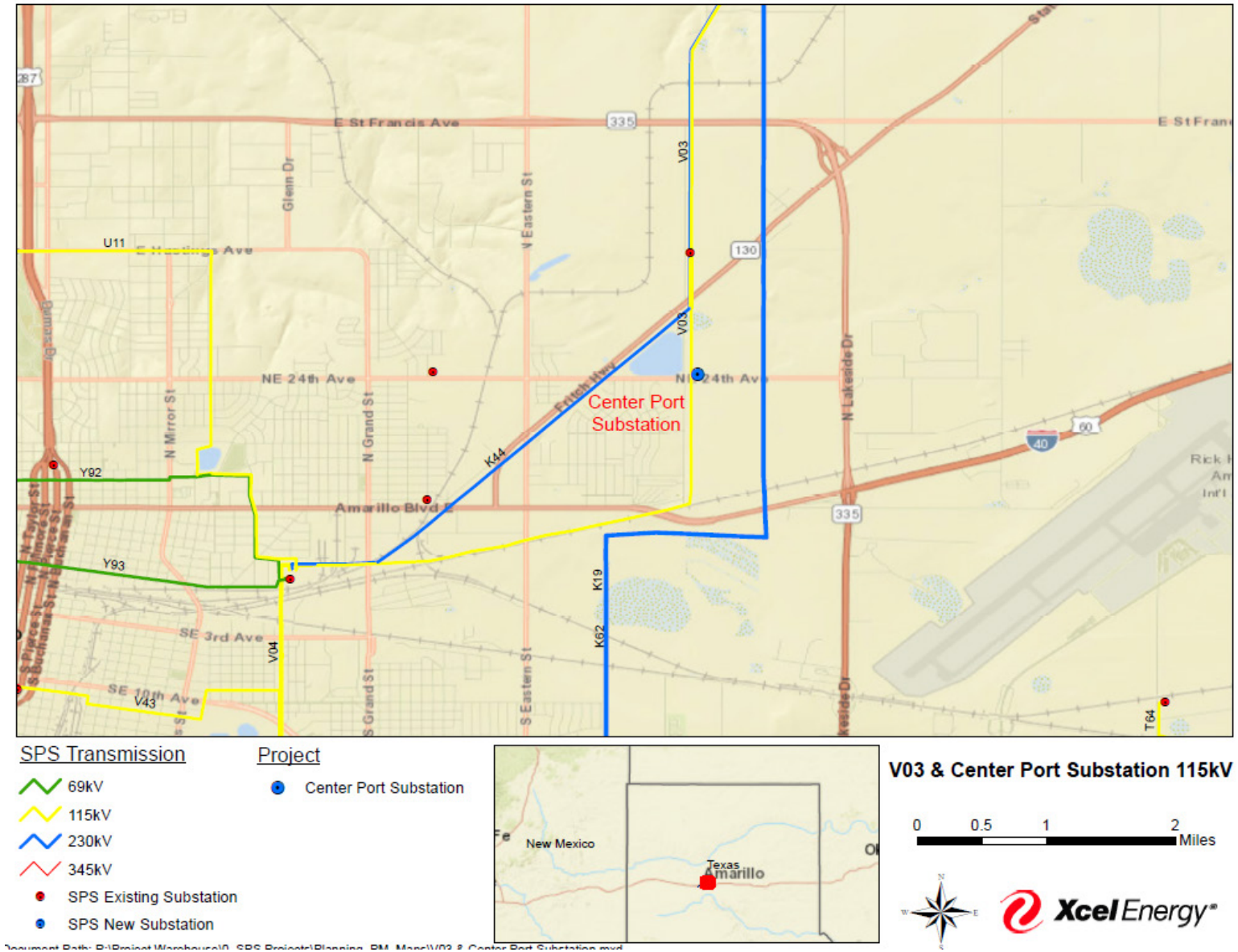
Voltage: 115 kV

ISD: April 2022

NTC: No

Description: New SPS Distribution substation, Amarillo, TX

Need: Distribution driven



Callahan Distribution Substation

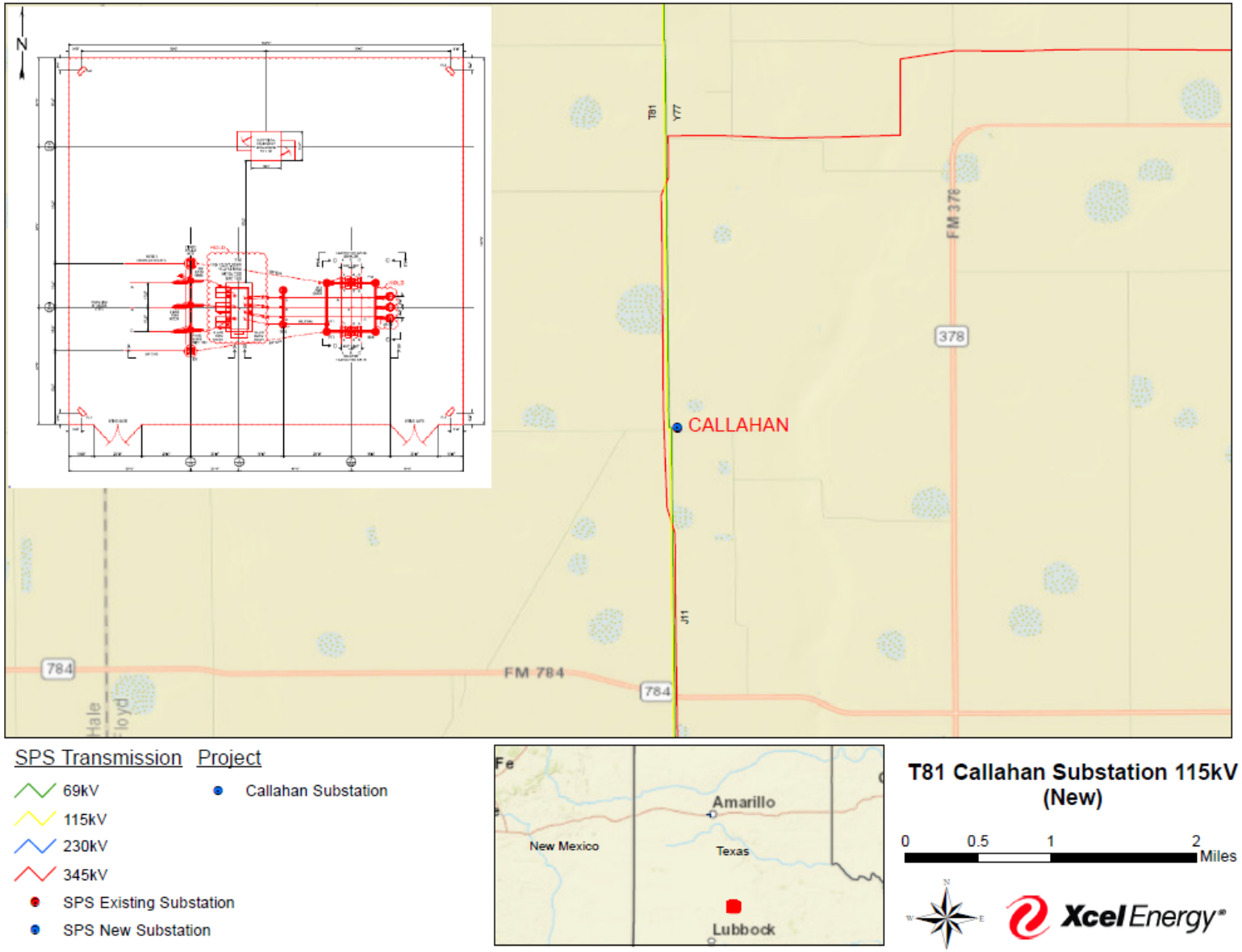
Voltage: 115 kV

ISD: June 2022

NTC: No

Description: New SPS Distribution substation, north of Floydada, TX

Need: Distribution driven



Caveman Distribution Substation

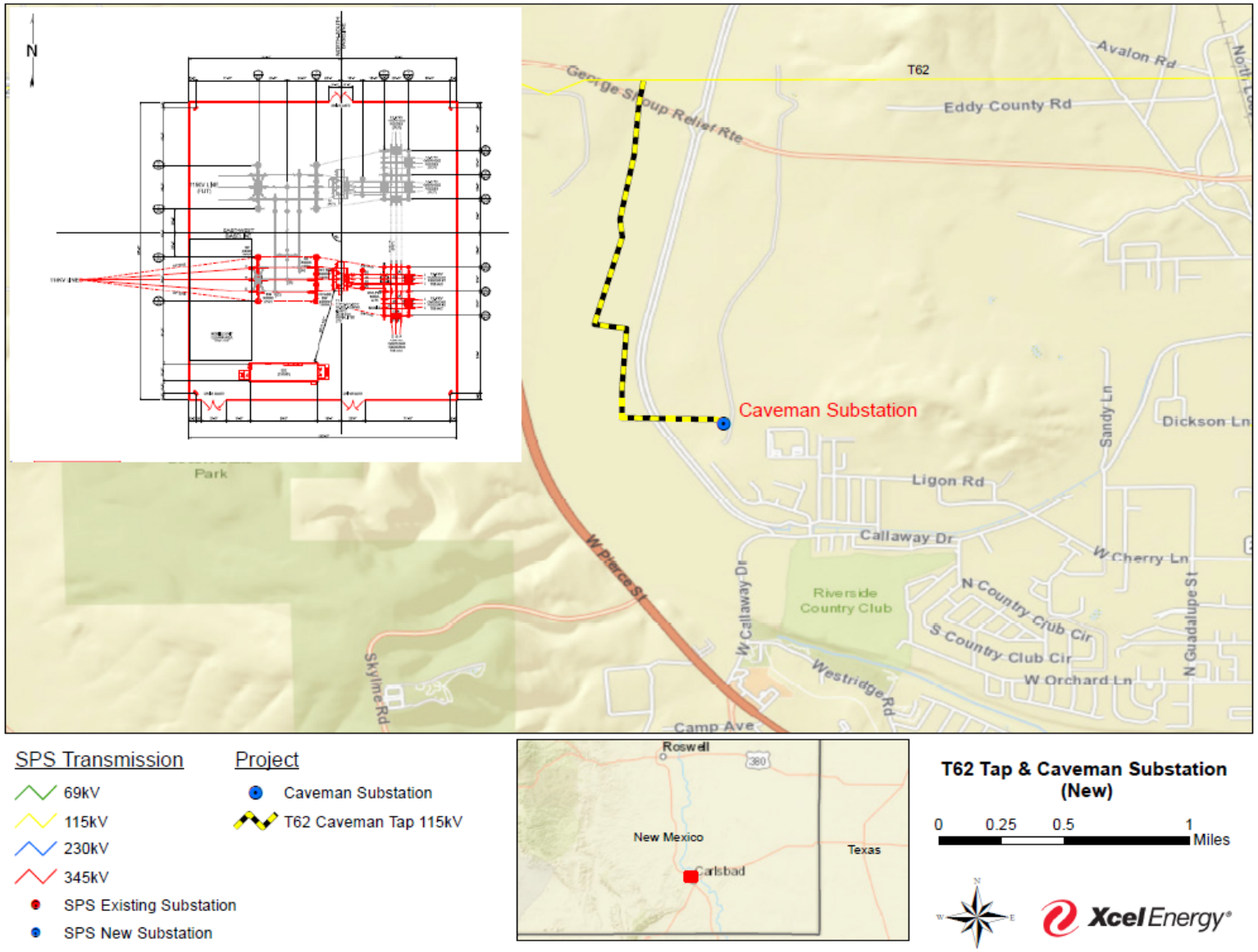
Voltage: 115 kV

ISD: June 2022

NTC: No

Description: New SPS distribution substation, in Carlsbad, NM

Need: Distribution driven



TRANSMISSION SYSTEM ADDITIONS

Active and Future

Twist Switching Station (New)

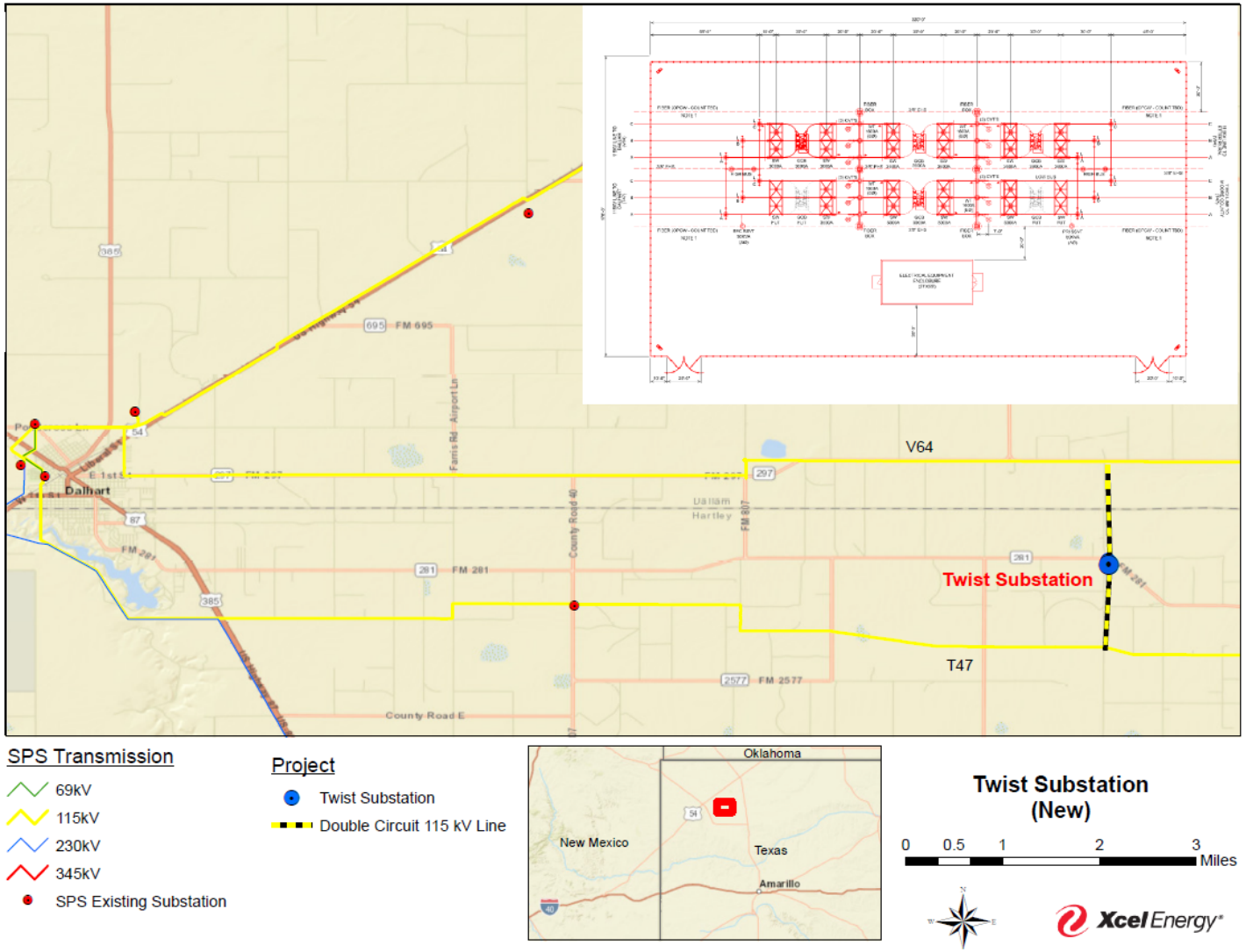
Voltage: 115 kV

ISD: December 2024

NTC: Yes*

Description: New 115kV Switching Station Connecting V64 & T47

Need: Load Growth/Reliability



McDowell Creek Substation (New)

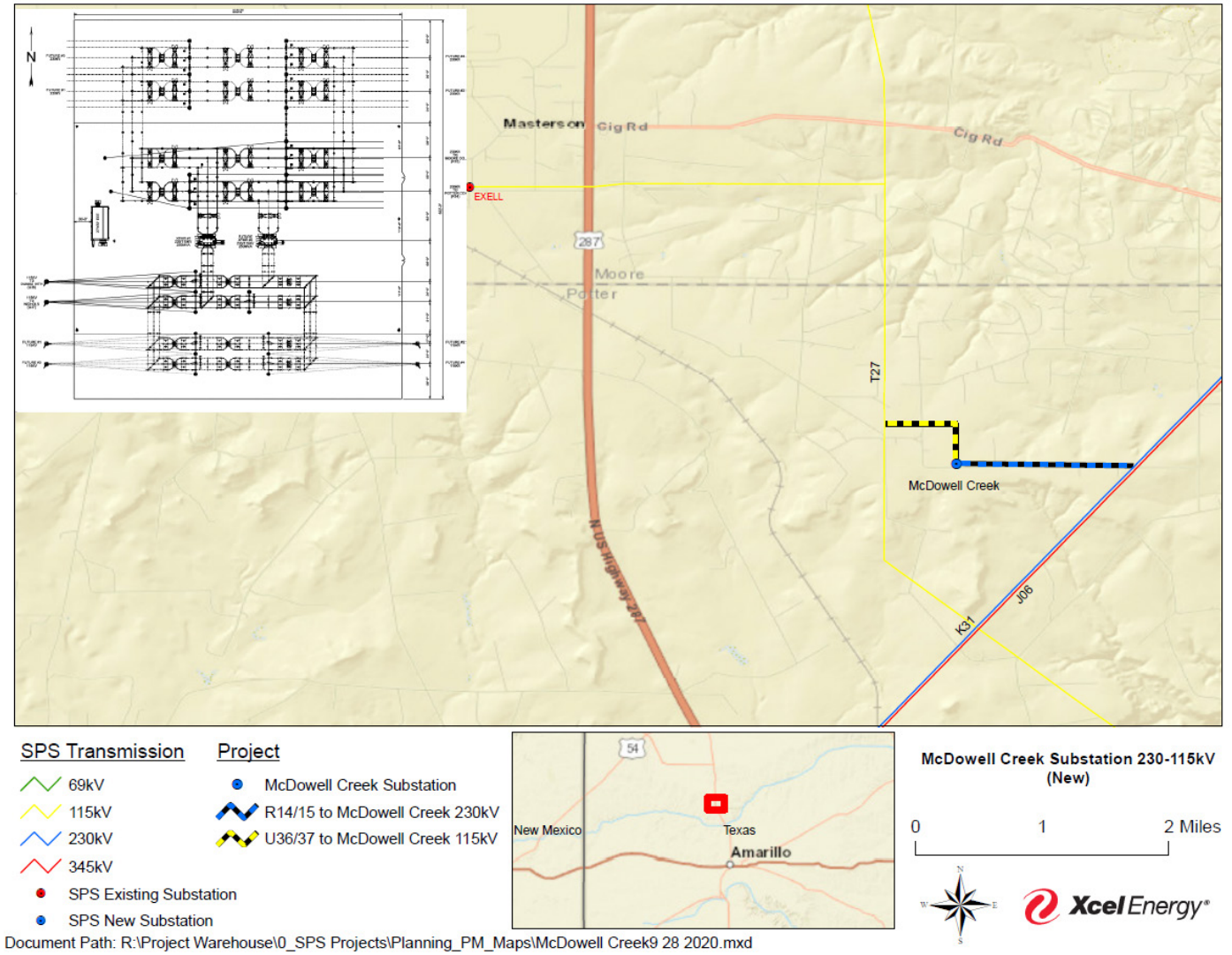
Voltage: 230 kV and 115 kV

ISD: November 2024

NTC: Yes

Description: Tap Moore Co – Potter Co 230 kV line and install a 230/115 kV transformer connecting to the 115 kV line from Nichols to Dumas 19th

Need: Reliability



Eagle Creek 2nd TR (Expansion)

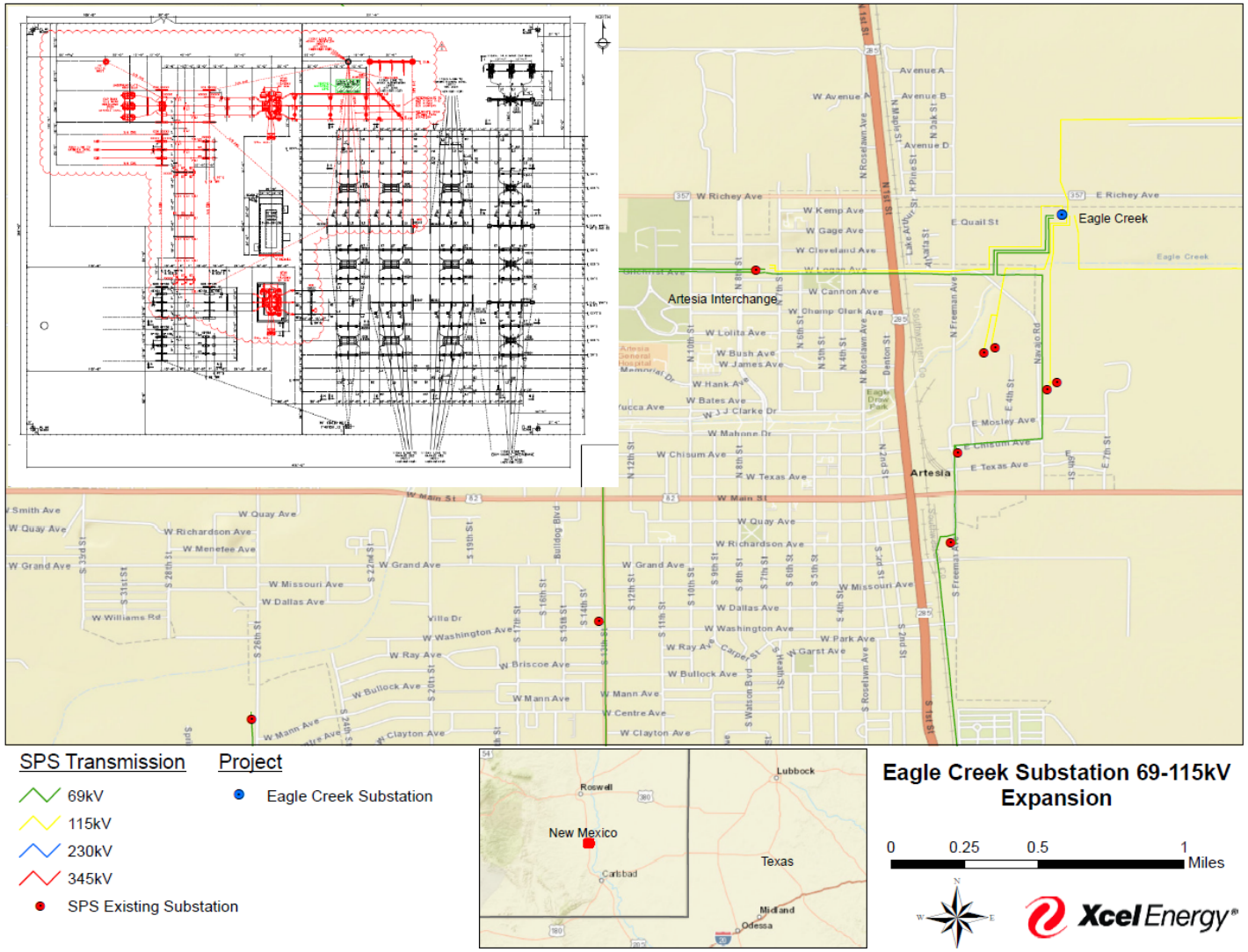
Voltage: 115 kV and 69 kV

ISD: June 2023

NTC: No

Description: Expand the existing Eagle Creek substation with a 2nd 115/69 kV TR. Wreck out Artesia Interchange substation

Need: Asset Renewal/ Reliability



Lawrence Park Substation (New)

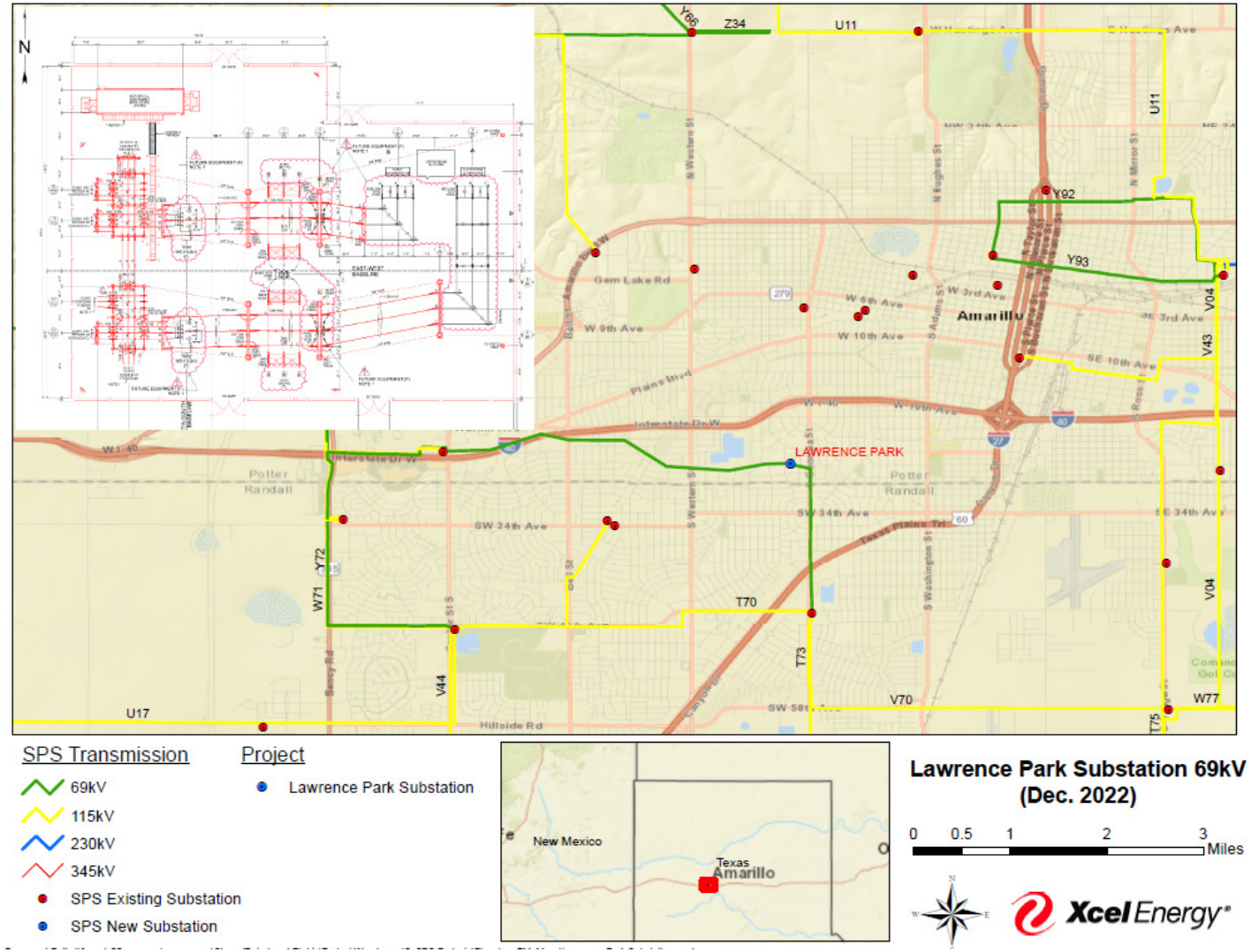
Voltage: 69 kV

ISD: December 2022

NTC: No

Description:
Replacement of existing distribution substation

Need: Asset Renewal



Echo Substation (New)

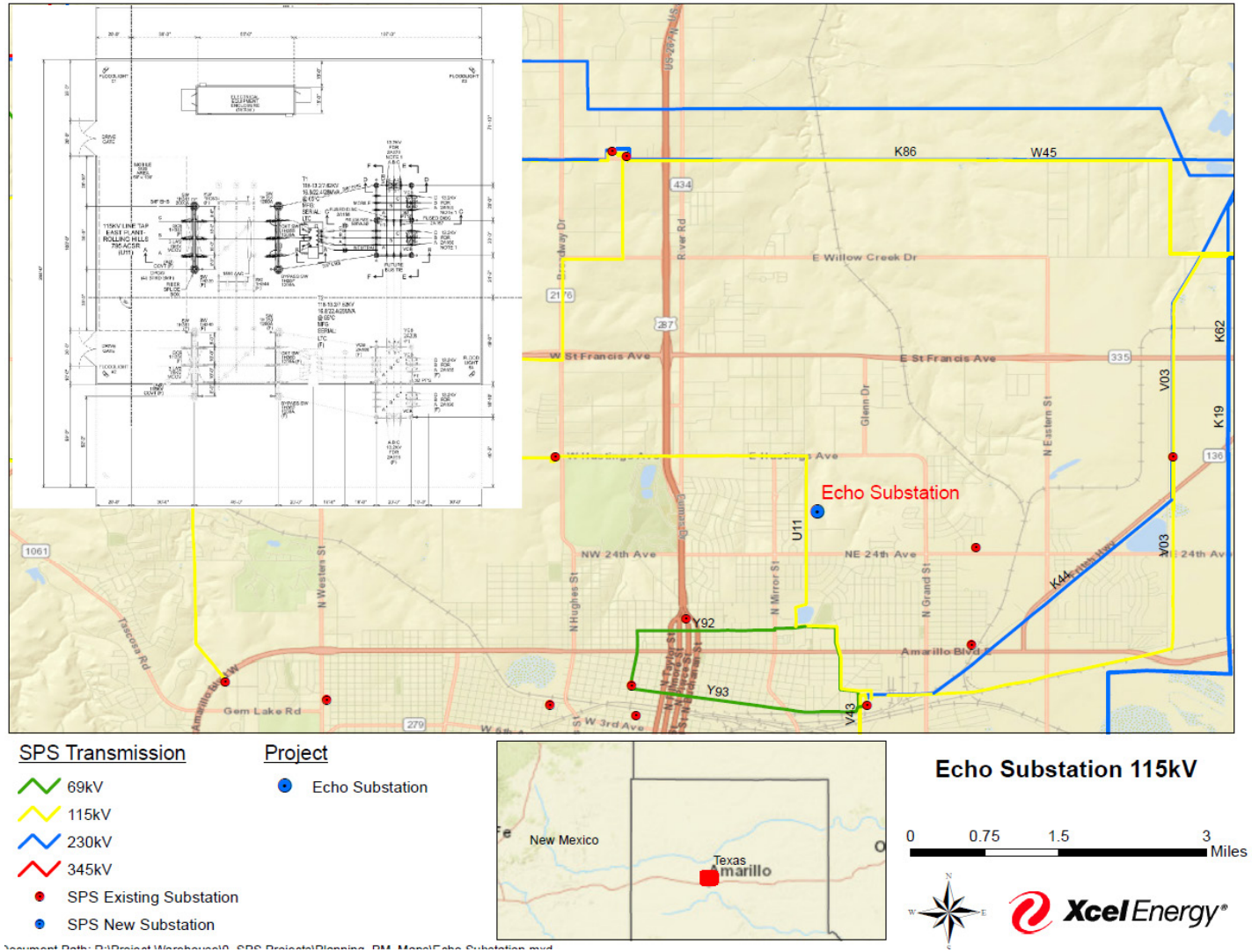
Voltage: 115 kV

ISD: April 2023

NTC: No

Description: New distribution substation Amarillo, TX

Need: Distribution Driven



Demon Substation (New)

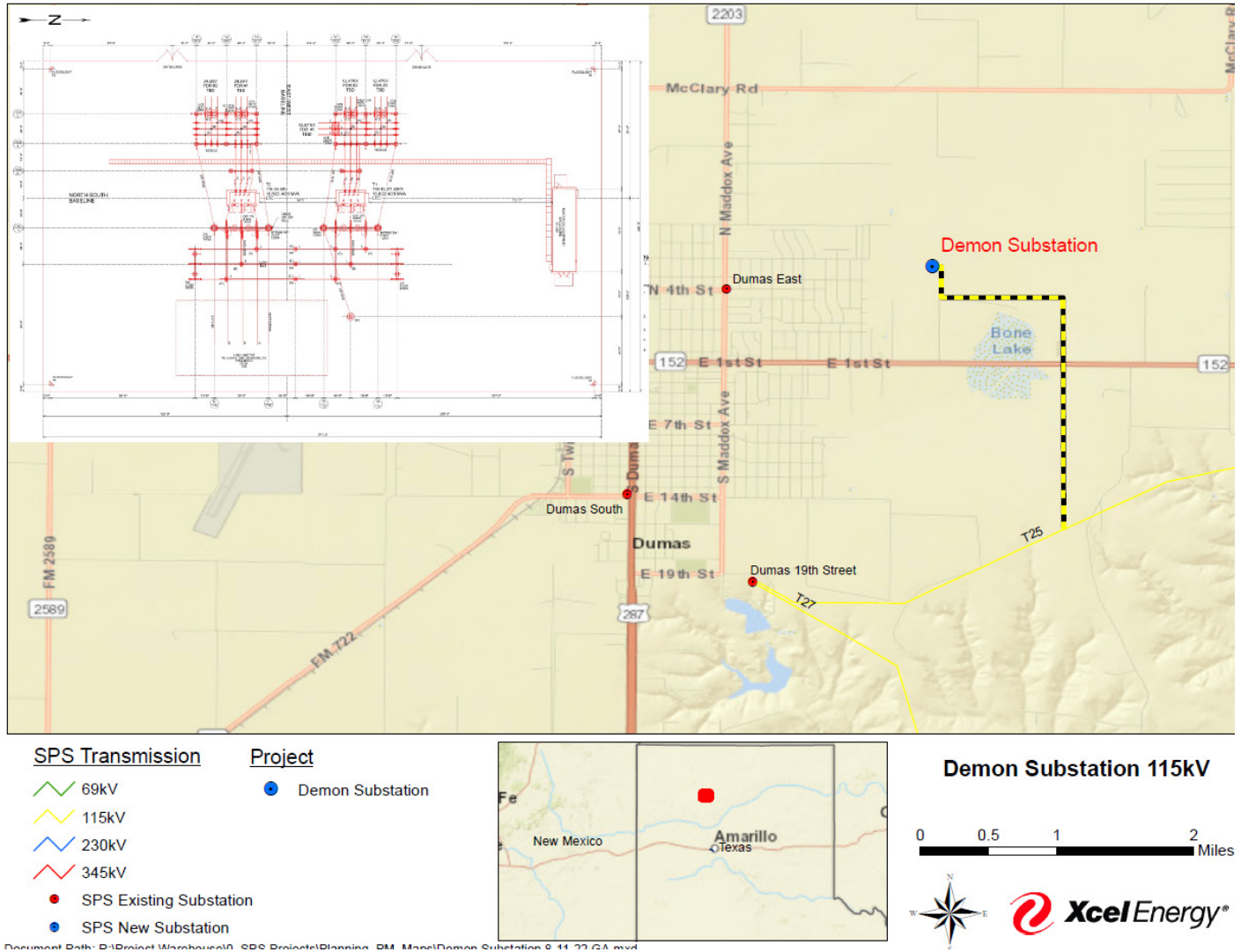
Voltage: 115 kV

ISD: May 2023

NTC: No

Description: 115kV switch tap, T25. Transmission line 2.75 miles.

Need: Distribution Driven



Magnum Substation (New)

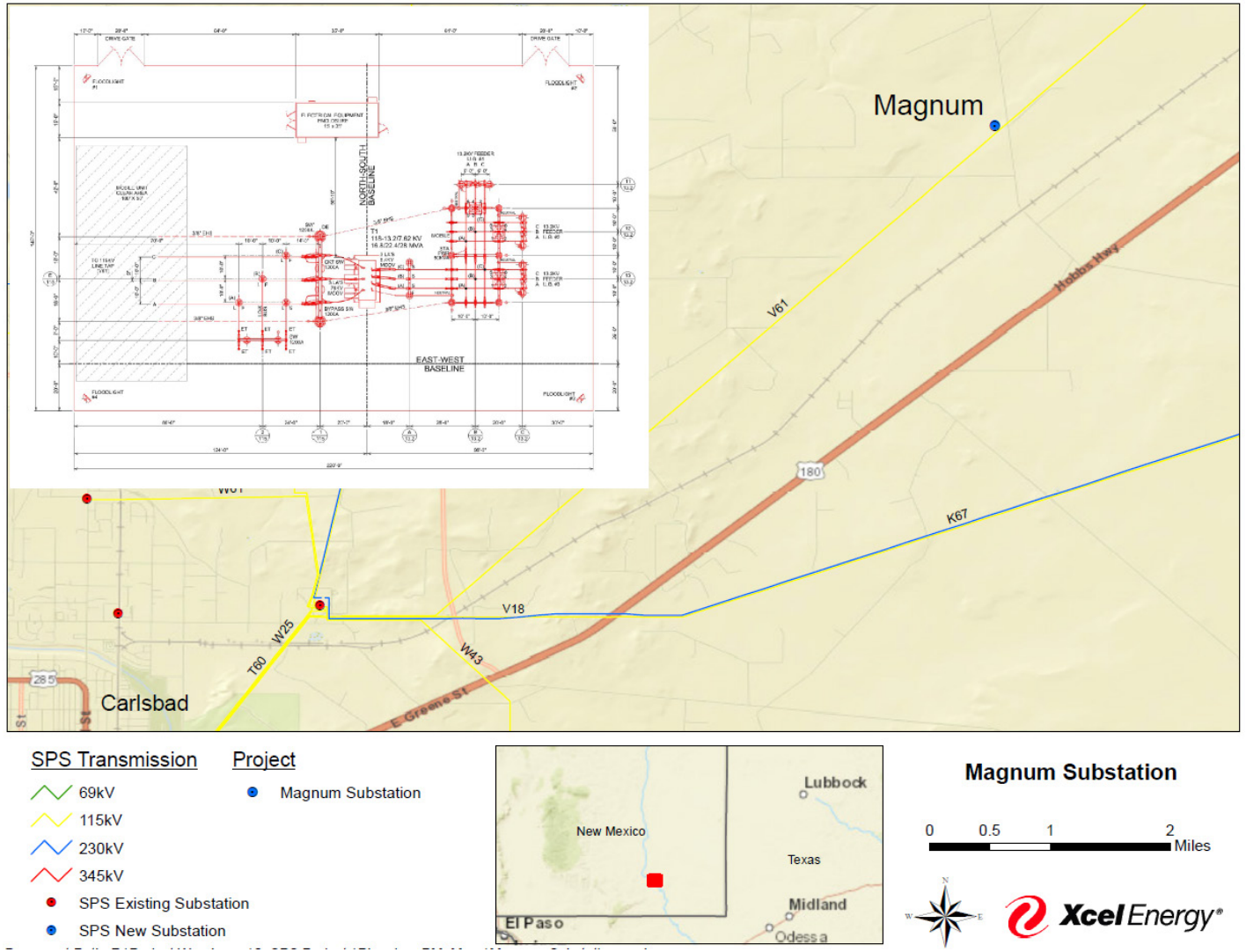
Voltage: 115 kV

ISD: May 2023

NTC: No

Description: 115kV Substation off V61

Need: Distribution Driven/Load Growth SENM



Arnot Substation (New)

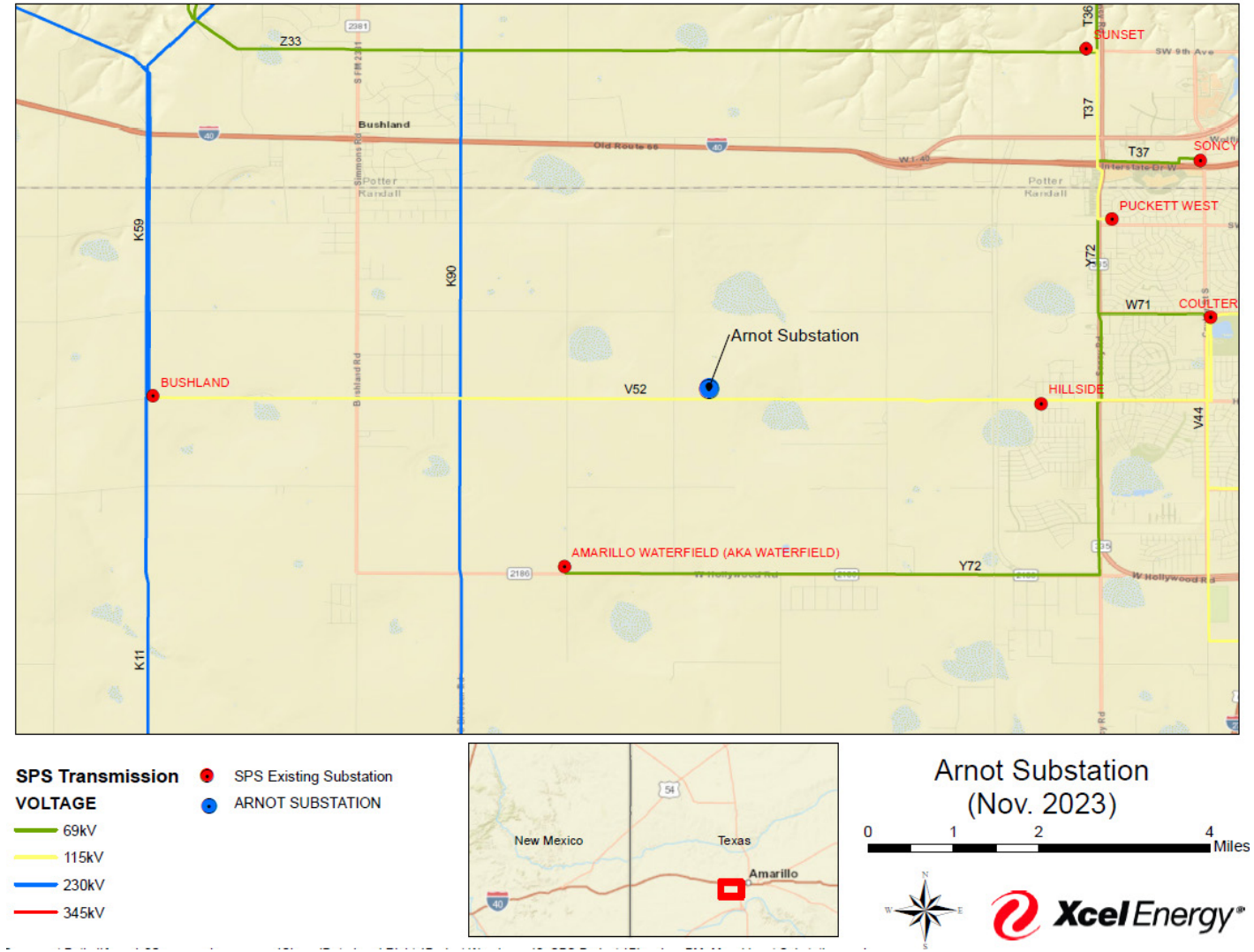
Voltage: 69 kV

ISD: November 2023

NTC: No

Description: 115kV distribution substation

Need: Distribution Driven/Load Growth



Battle Axe Substation (New)

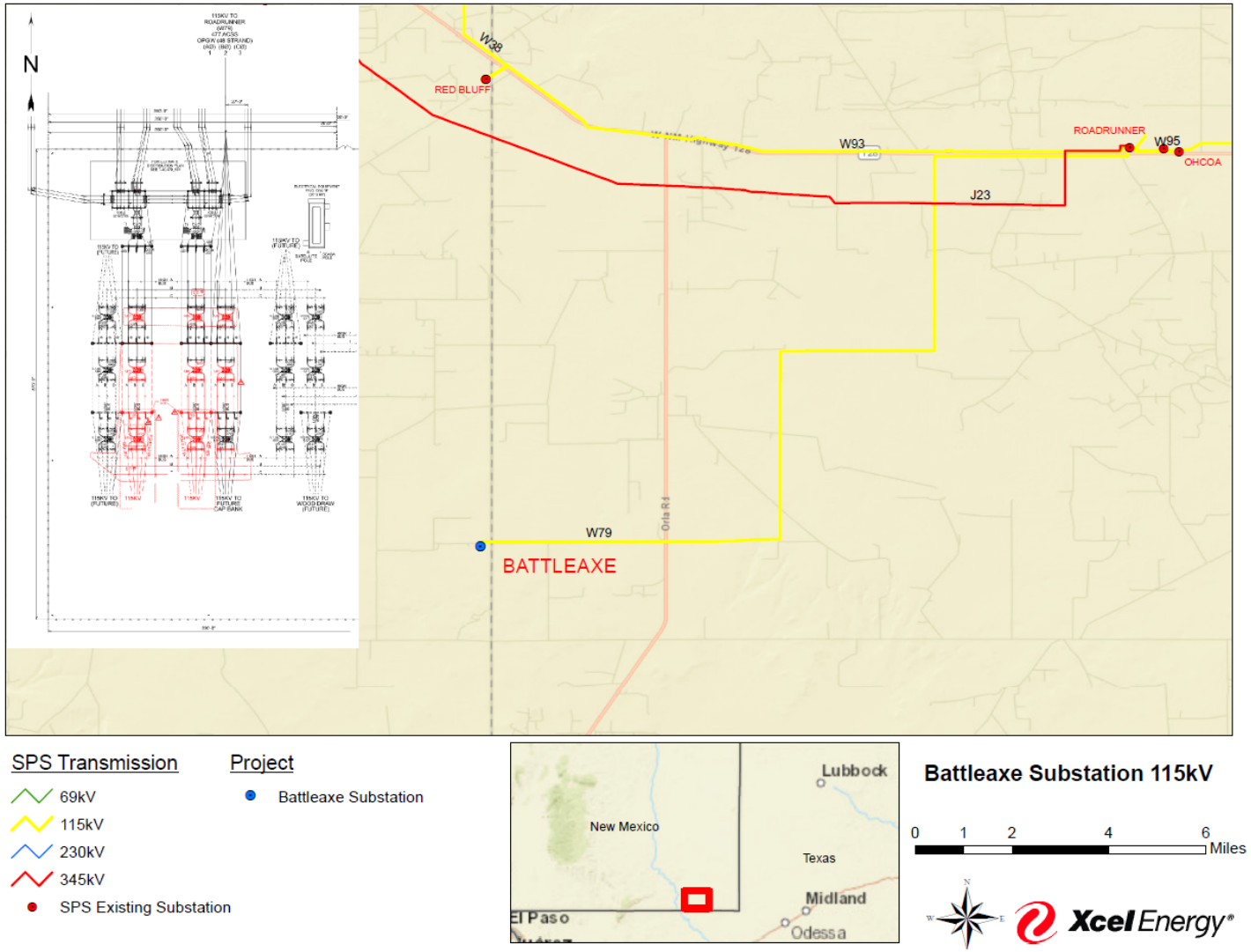
Voltage: 115 kV

ISD: TBD*

NTC: No

Description: Expand substation bus for new 115kV line terminal + Second Distribution Transformer

Need: Load Growth



Red Bluff Substation Expansion (New)

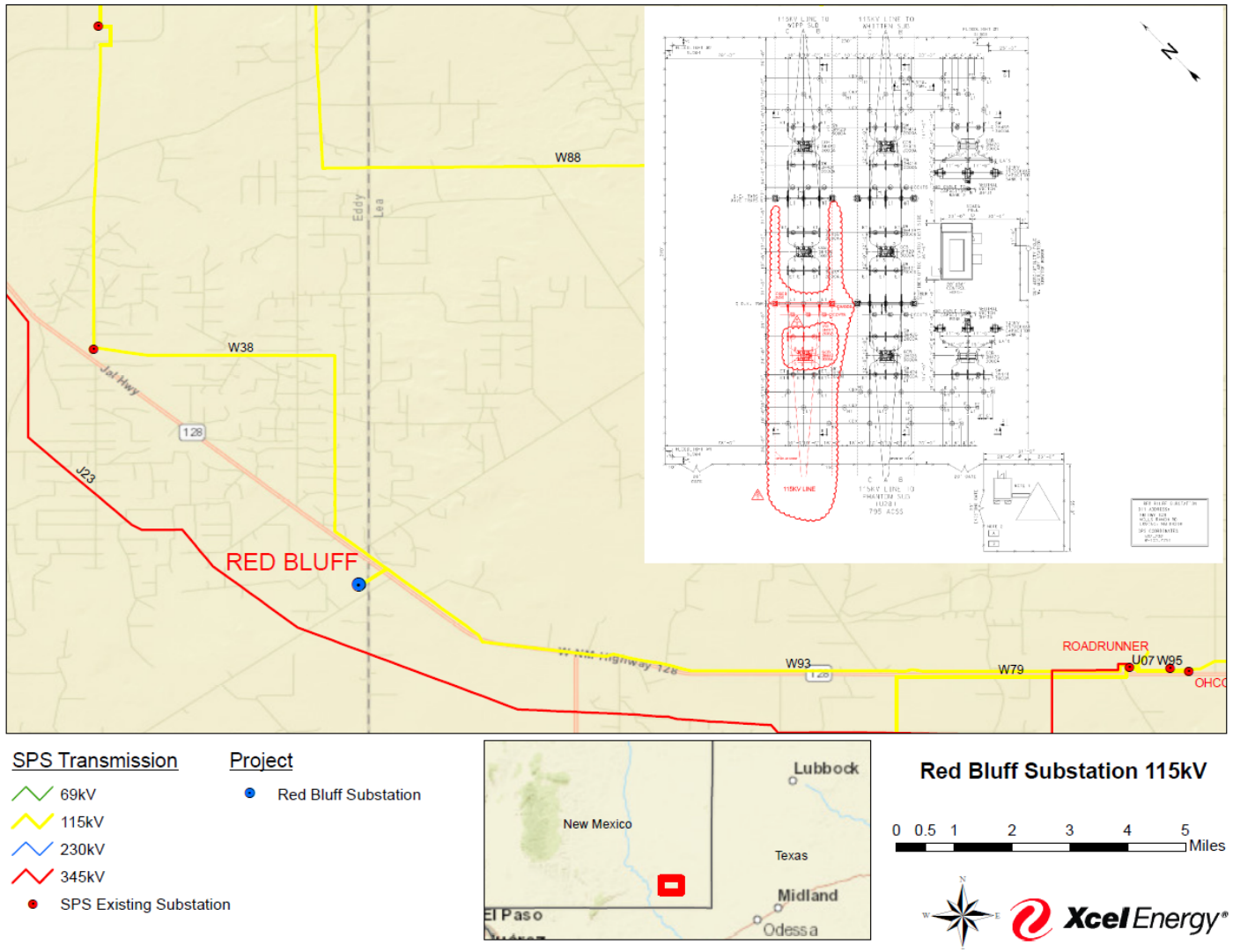
Voltage: 115 kV

ISD: September 2024

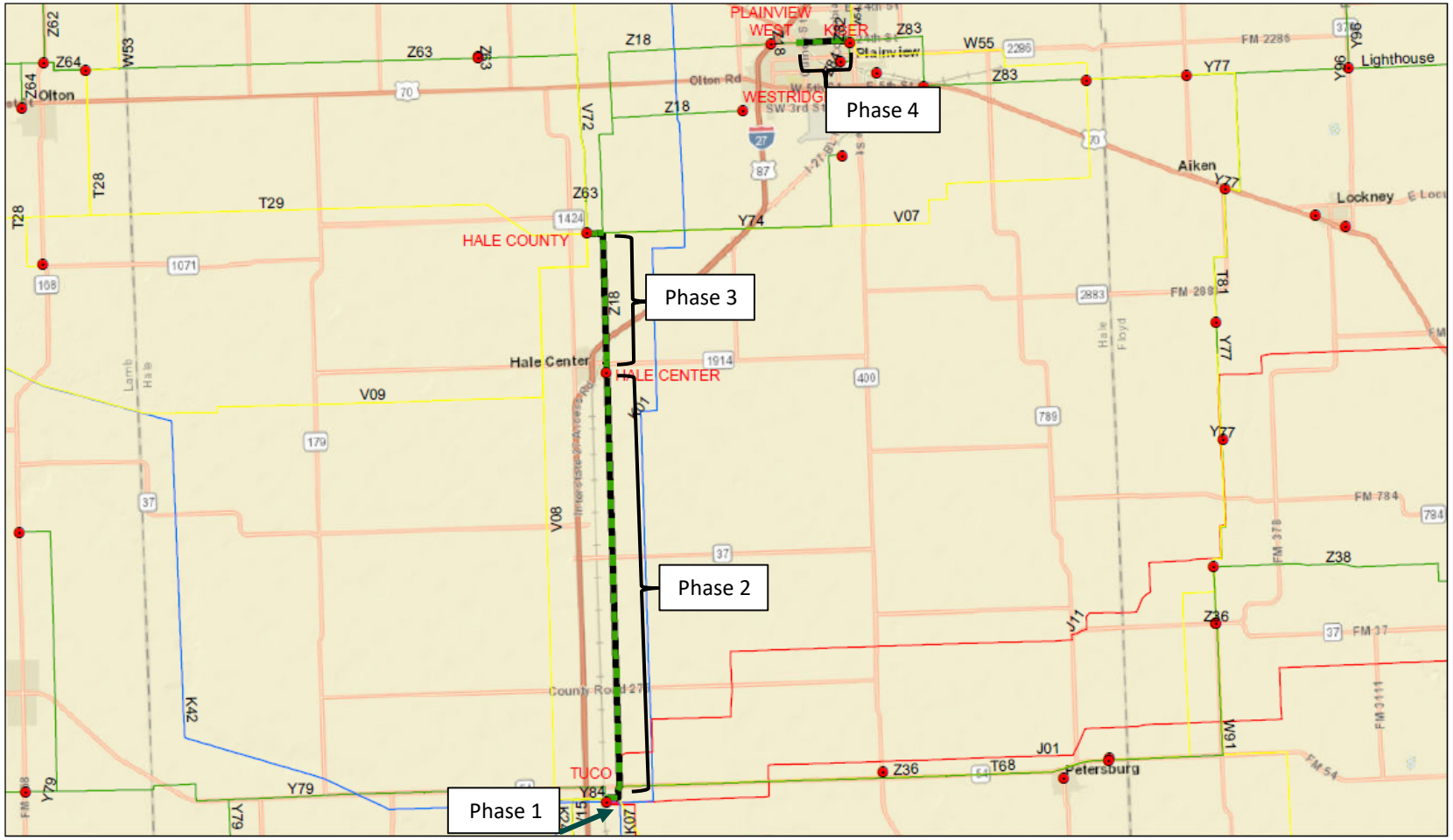
NTC: No

Description: Expand substation bus for new 115kV line terminal

Need: Load Growth



Z18 Tuco to Hale County to Plainview West (Rebuild)



SPS Transmission Project

- 69kV
- 115kV
- 230kV
- 345kV
- SPS Existing Substation
- Z18 Tuco to Hale County to Plainview 69kV

Z18 Tuco to Hale County to Plainview 69kV (Rebuild)

0 5 10 Miles

Voltage: 69 kV

ISD: varied

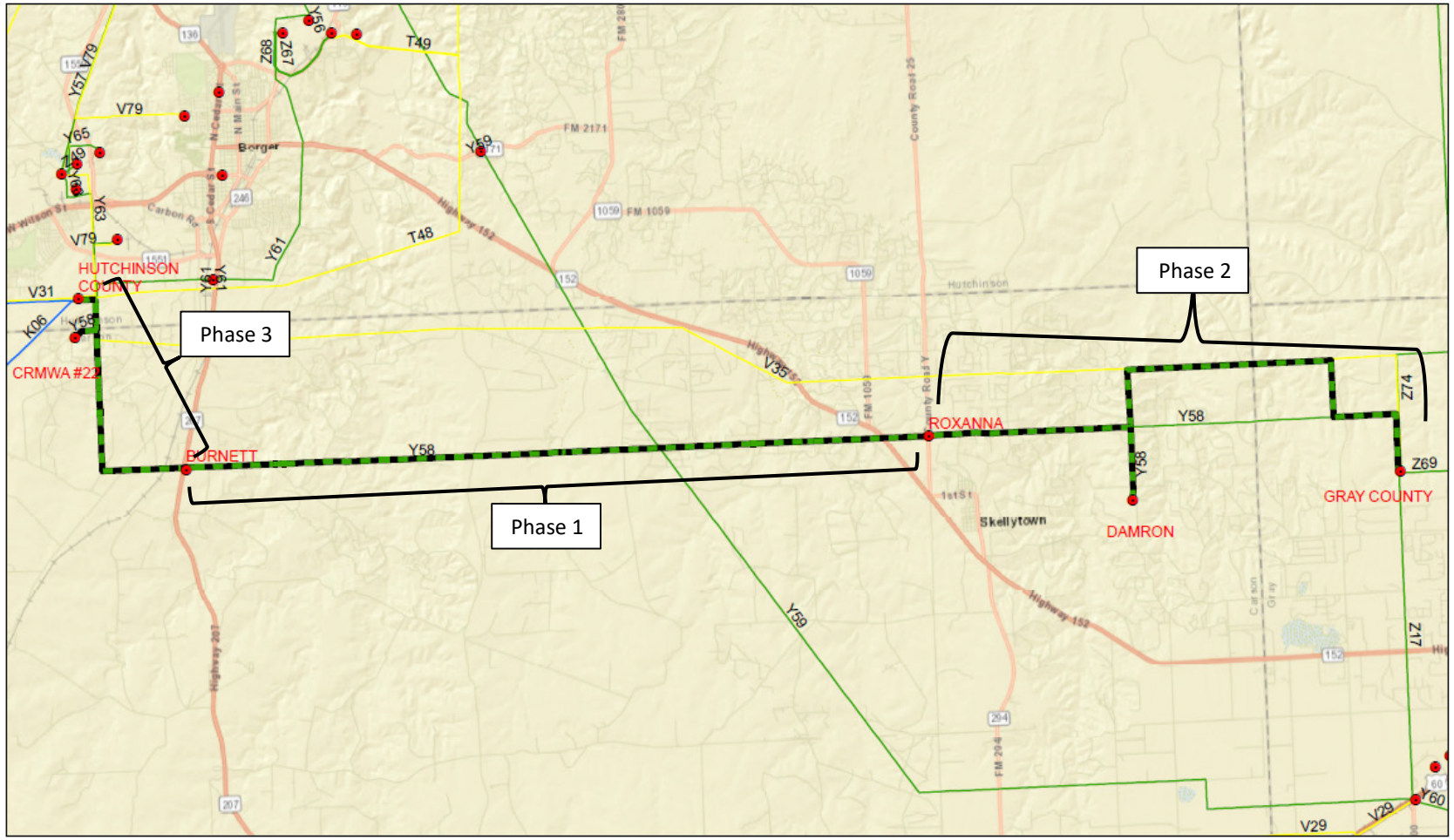
- Phase 1: Dec 2019
- Phase 2: April 2021
- **Phase 3: April 2022**
- Phase 4: Oct 2020

NTC: No

Description: Spaced out across 4 stages, rebuild 69 kV line

Need: Asset Renewal

Y58 Hutchinson County to Gray County (Rebuild)



SPS Transmission Project

- 69kV
- 115kV
- 230kV
- 345kV
- SPS Existing Substation
- SPS New Substation
- Y58 Hutchinson County to Gray County 69kV

Y58 Hutchison County to Gray County 69kV (Rebuild)

0 2.5 5 Miles

Xcel Energy®

Voltage: 69 kV

ISD: varied

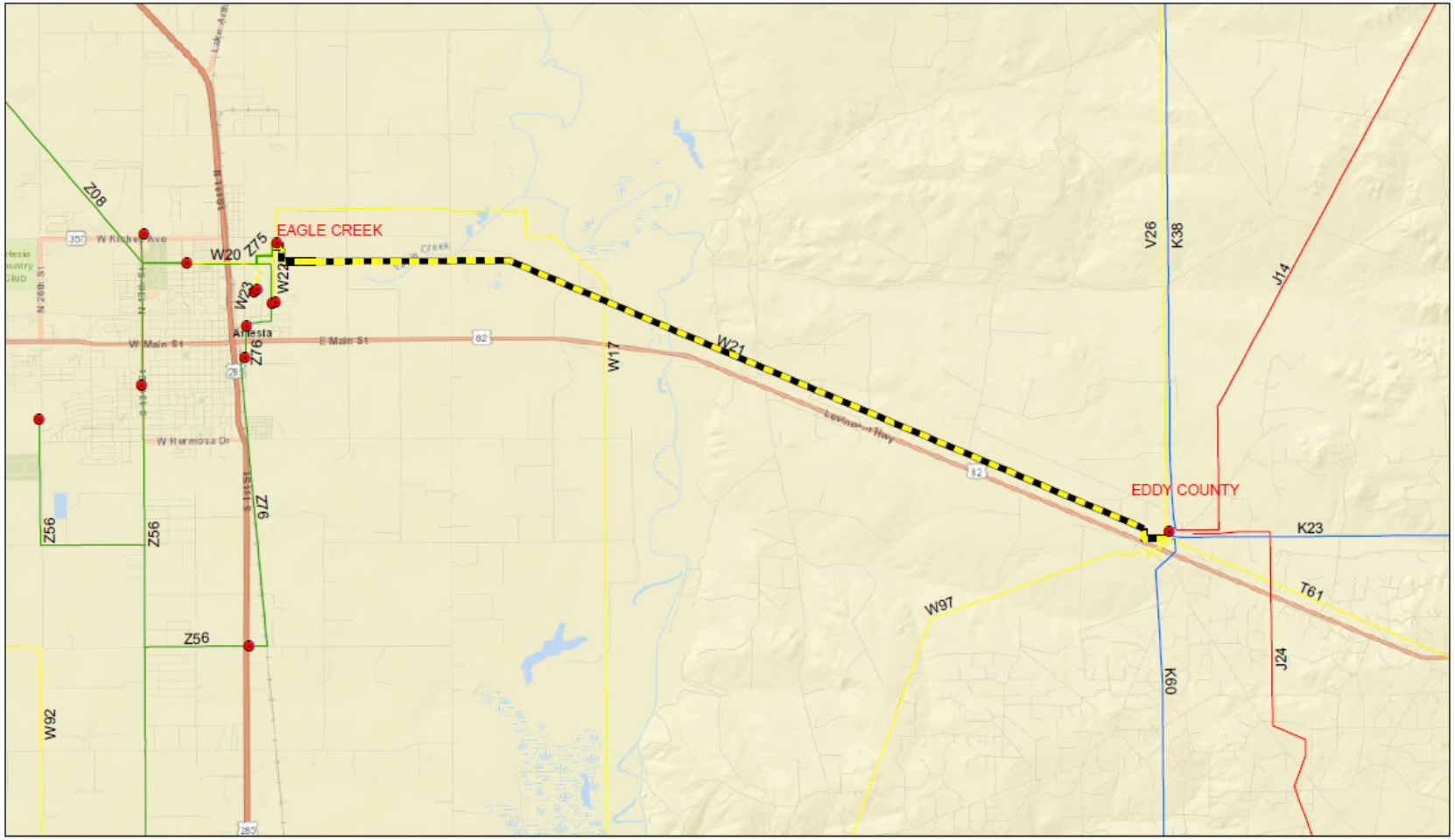
- Phase 1: December 2022
- Phase 2: May 2021
- Phase 3: July 2022

NTC: No

Description: Rebuild existing 69 kV line (~26 miles long)

Need: Asset Renewal

W21 Eagle Creek to Eddy County (Rebuild)



SPS Transmission Project

- 69kV
- 115kV
- 230kV
- 345kV
- SPS Existing Substation
- W21 Eagle Creek to Eddy County 115kV

W21 Eagle Creek to Eddy County 115kV (Rebuild)

0 1 2 Miles

Xcel Energy®

Voltage: 115 kV

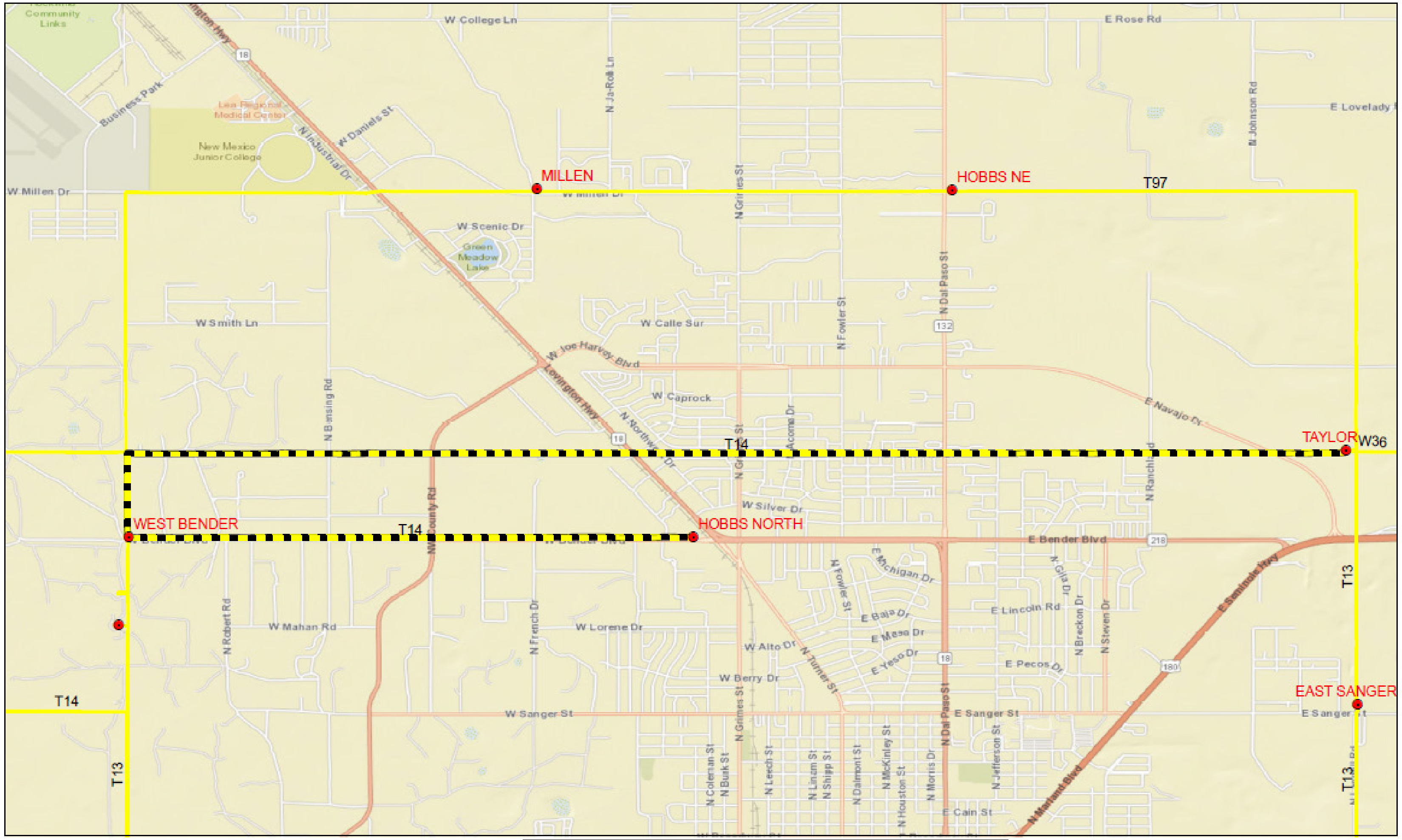
ISD: December 2022

NTC: No

Description: Rebuild existing 115 kV line (~9 mile long)

Need: Asset Renewal

T14 Taylor to Hobbs North (Rebuild)



Xcel Energy

Voltage: 115 kV

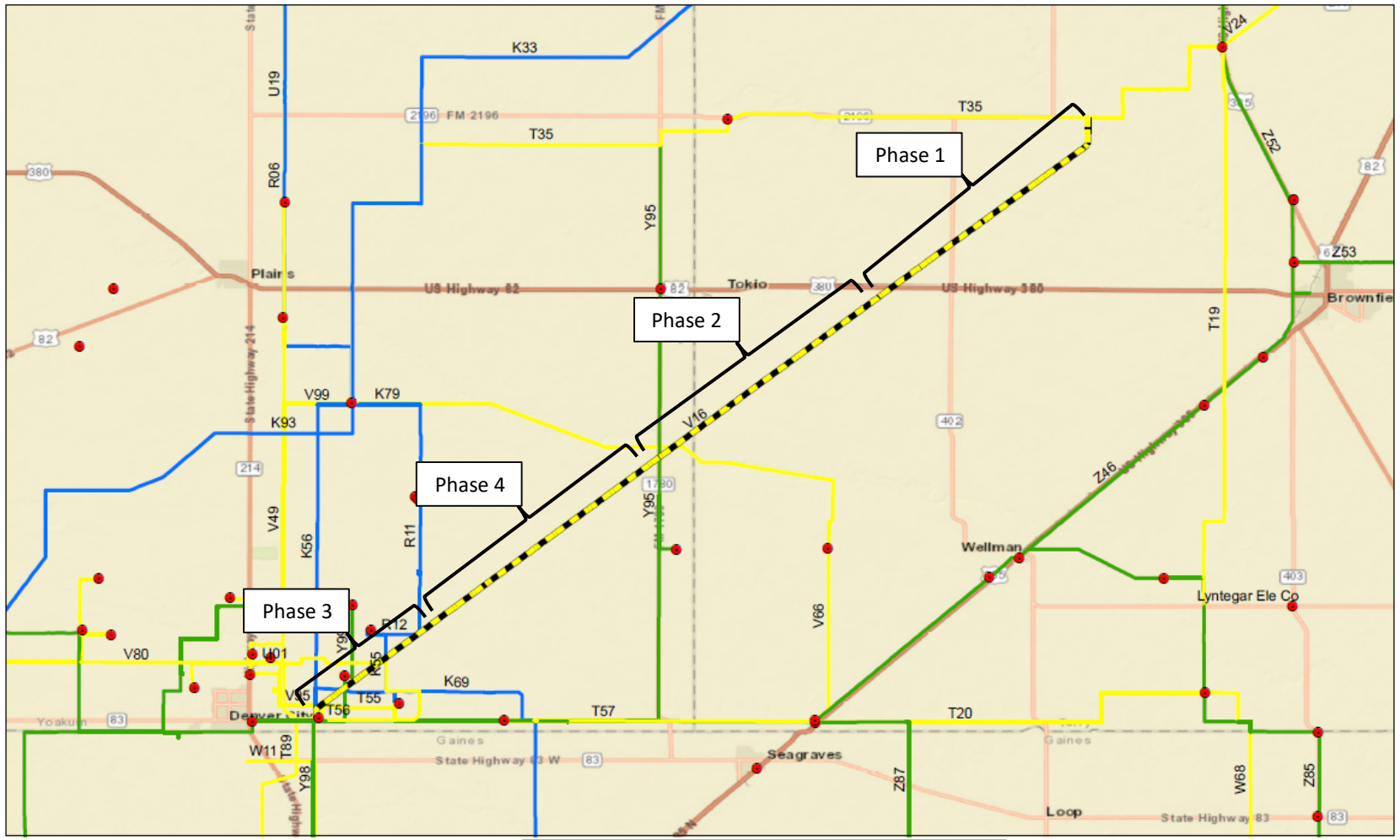
ISD: December 2022

NTC: No

Description: Rebuild 115 kV line (~9 miles long)

Need: Asset Renewal

V16 Terry County to Denver City (Rebuild)



SPS Transmission

- 69kV
- 115kV
- 230kV
- 345kV
- SPS Existing Substation
- SPS New Substation

Project

- V16 Wreck Out/Re-build 115kV

V16 CR 2196 to Denver City
(Wreck out/Re-Build) 115kV

0 5 10 Miles

Xcel Energy®

Voltage: 115 kV

ISD: varied

- Phase 1: May 2022
- Phase 2: December 2022
- Phases 3 & 4: May 2023

NTC: No

Description: Rebuild 115 kV line (~35 miles long)

Need: Asset Renewal

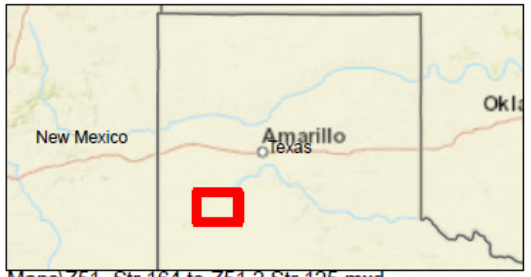
Z51 Hereford South toward Dimmit (Rebuild)

SPS Transmission

- 69kV
- 115kV
- 230kV
- 345kV
- SPS Existing Substation

Project

- Z51 Hereford South to Str 125



Z51Hereford South to Z51.2 Str 125 Wreck Out/Re-Build 69kV

0 3 6 Miles

Document Path: R:\Project Warehouse\0_SPS Projects\Planning_PM_Maps\Z51_Str 164 to Z51.2 Str 125.mxd

Xcel Energy®

Voltage: 69 kV

ISD: varied

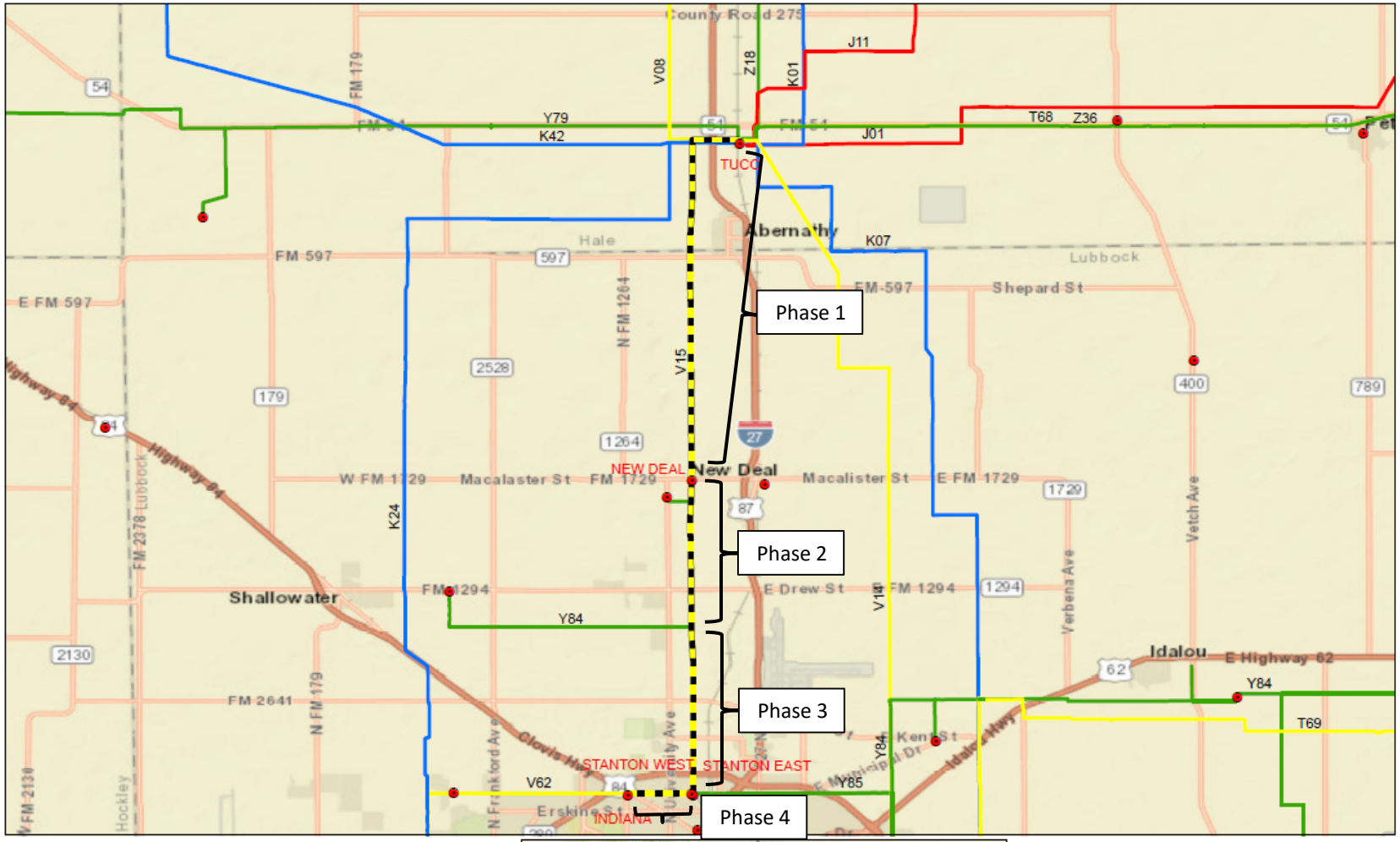
- Phase 1: May 2022
- Phase 2: November 2022
- Phase 3: May 2023

NTC: No

Description: Rebuild 69 kV line (~14 miles) from Hereford South to structure #125, north of Dimmit tap

Need: Asset Renewal

Tuco to Indiana (Rebuild)



Voltage: 115 kV

ISD: varied

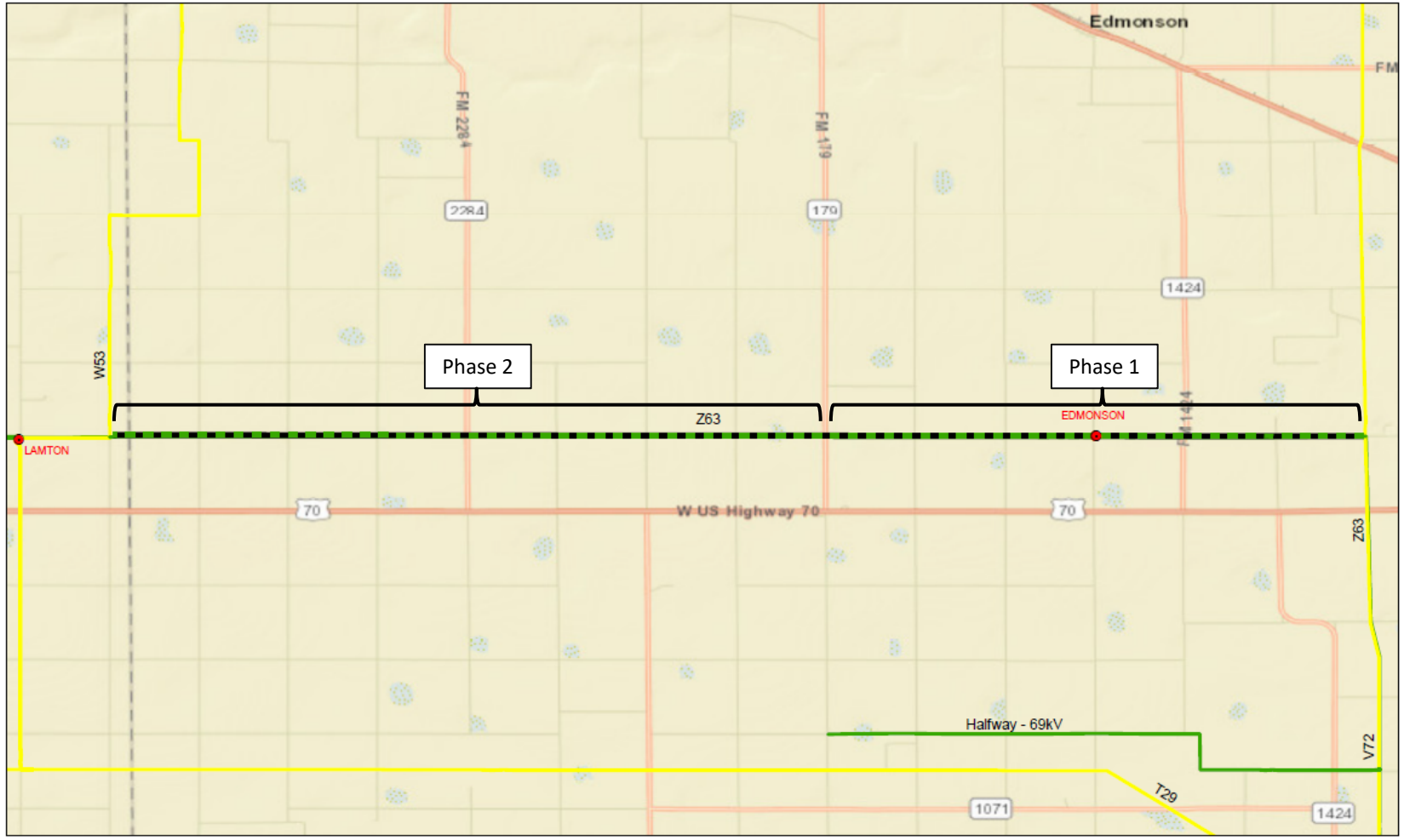
- Phase 1: Oct 2022
- Phase 2: Dec 2022
- Phase 3: May 2023
- Phase 4: Nov 2023

NTC: No

Description: Rebuild the double circuit 115/69 kV line (~19 miles)

Need: Asset Renewal

Z63 From V72 to Structure 310 (Rebuild)



SPS Transmission
- 69kV
- 115kV
- 230kV
- 345kV
- SPS Existing Substation

Project
- Z63 Line Rebuild

Z63 Line Rebuild 69kV
Str V72-560 to V63-120

0 2 4 Miles

Xcel Energy®

Voltage: 69 kV

ISD: varied

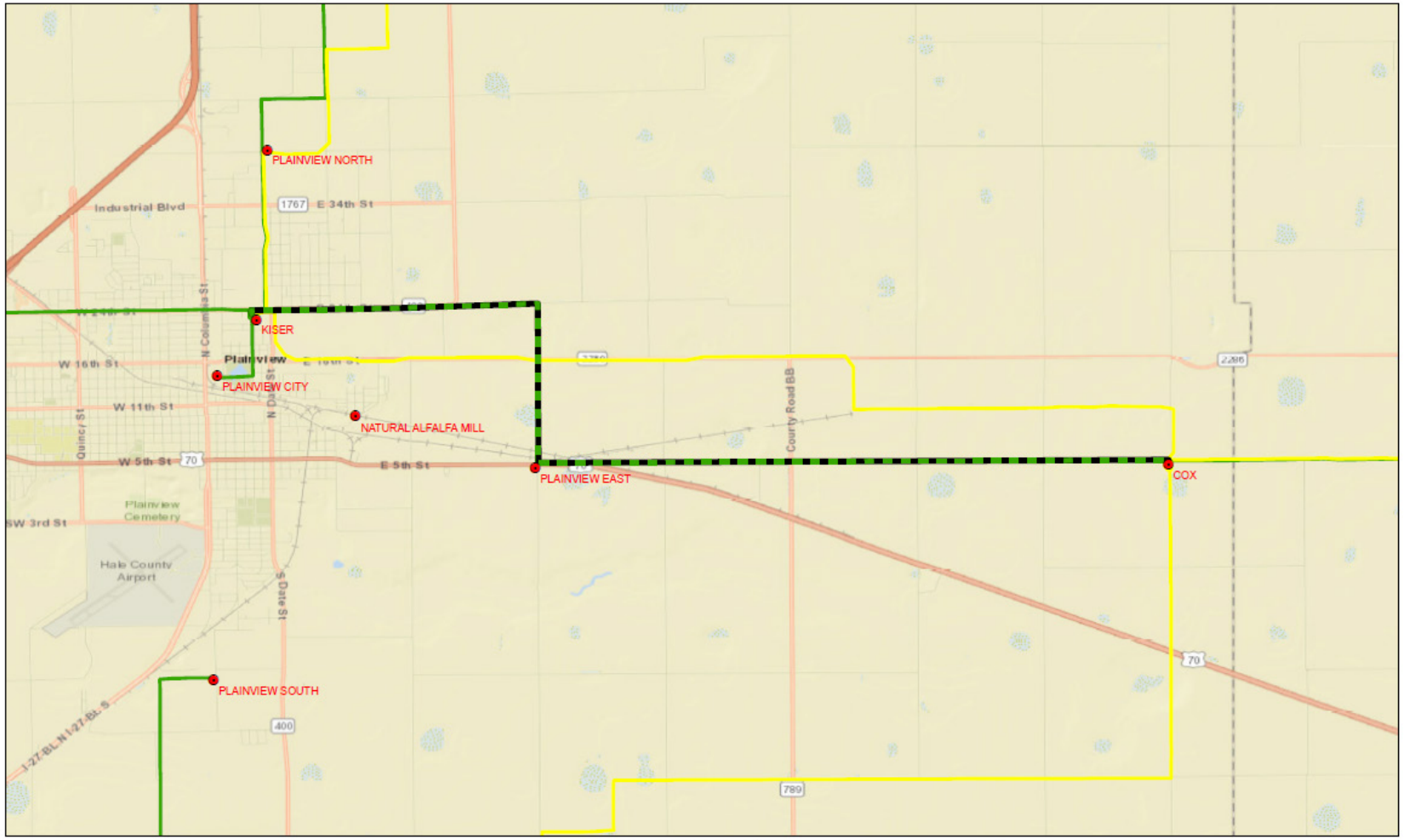
- Phase 1: May 2023
- Phase 2: Nov 2021

NTC: No

Description: Rebuild 69 kV line (~14 miles) from structures #62 to #310

Need: Asset Renewal

Z83 Cox to Kiser (Rebuild)



SPS Transmission

- 69kV
- 115kV
- 230kV
- 345kV
- SPS Existing Substation

Project

- Z83 Kiser to Cox 69kV

Z83 Line Rebuild 69kV
Kiser to Cox

0 1.25 2.5 Miles

Xcel Energy®

Voltage: 69 kV

ISD: December 2023

NTC: No

Description: Rebuild 69 kV line (~ 9 miles)

Need: Asset Renewal

ADDITIONAL INFORMATION

Cancelled NTC Projects

Network Upgrades Associated with DISIS Process

2020 Integrated Transmission Plan (ITP) Project list

2021 Integrated Transmission Plan (ITP) Project list

2022 Integrated Transmission Plan (ITP) Project list

Power for the Plains

Cancelled NTC Projects

- Projects and Network Upgrade ID (UID):
  - Amarillo South 230 kV Terminal Upgrades — SPP-NTC-200326, UID 51170
  - Potash Junction 230 kV Terminal Upgrade — SPP-NTC-200365, UID 51409
  - East Plant 115 kV Terminal Upgrade — SPP-NTC-200381, UID 11027
  - Tuco – Stanton 115 kV Terminal Upgrades — SPP-NTC-200444, UID 51623
  - Martin-Pantex N 115kV Terminal Upgrades — SPP-NTC-200444, UID 61836
  - Pantex South-Highland Tap 115kV Terminal Upgrades — SPP-NTC-200444, UID 61837
  - Potter-Newhart Terminal Upgrade — SPP-NTC-210574, UID 81756
  - Cargill-Deaf Smith #24 Rebuild — SPP-NTC-210574, UID 143168
  - Deaf Smith #24-Parmer Rebuild — SPP-NTC-210574, UID 143169
  - Parmer-Deaf Smith #20 Rebuild — SPP-NTC-210574, UID 143170

DISIS 2016-002 Network Upgrades*

- Tolk 2nd 345/230 kV transformer
  - ISD: January 2022
- Tierra Blanca capacitor bank – 100 MVAR
  - ISD: November 2021

DISIS 2017-001 Network Upgrades

- Bull Creek Substation, GEN-2017-047
  - ISD: December 2024
- Guymon South Substation, GEN-2017-100
  - ISD: December 2025

DISIS 2017-002 Network Upgrades

- Several have been identified - Study is not complete

2020 ITP Projects

Lubbock South - Allen V45 (New)

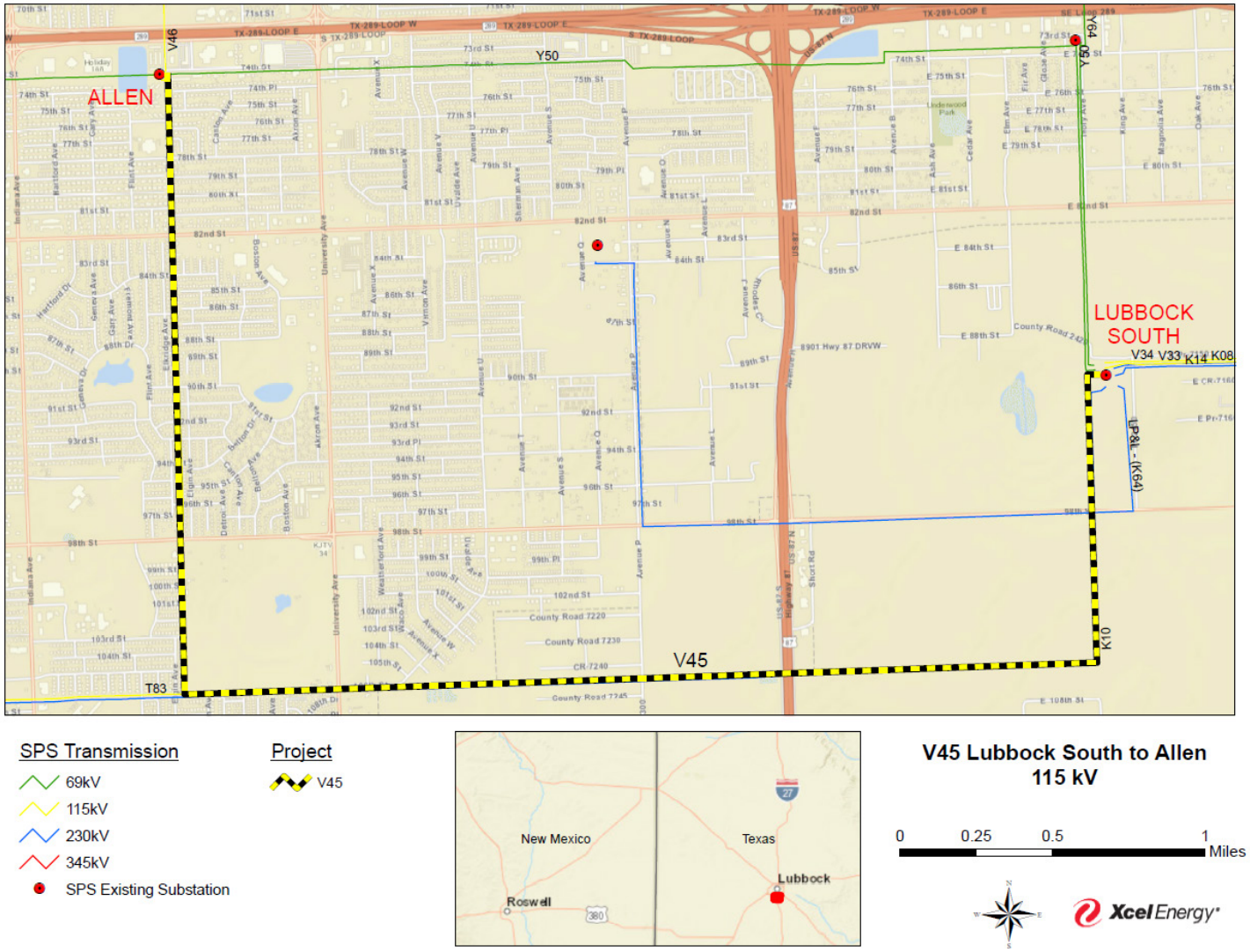
Voltage: 115 kV

ISD: TBD

NTC: Yes

Description: Upgrade terminal equipment and rebuild 6 miles of 115 kV line

Need: Reliability



Allen - Quaker T83 (New)

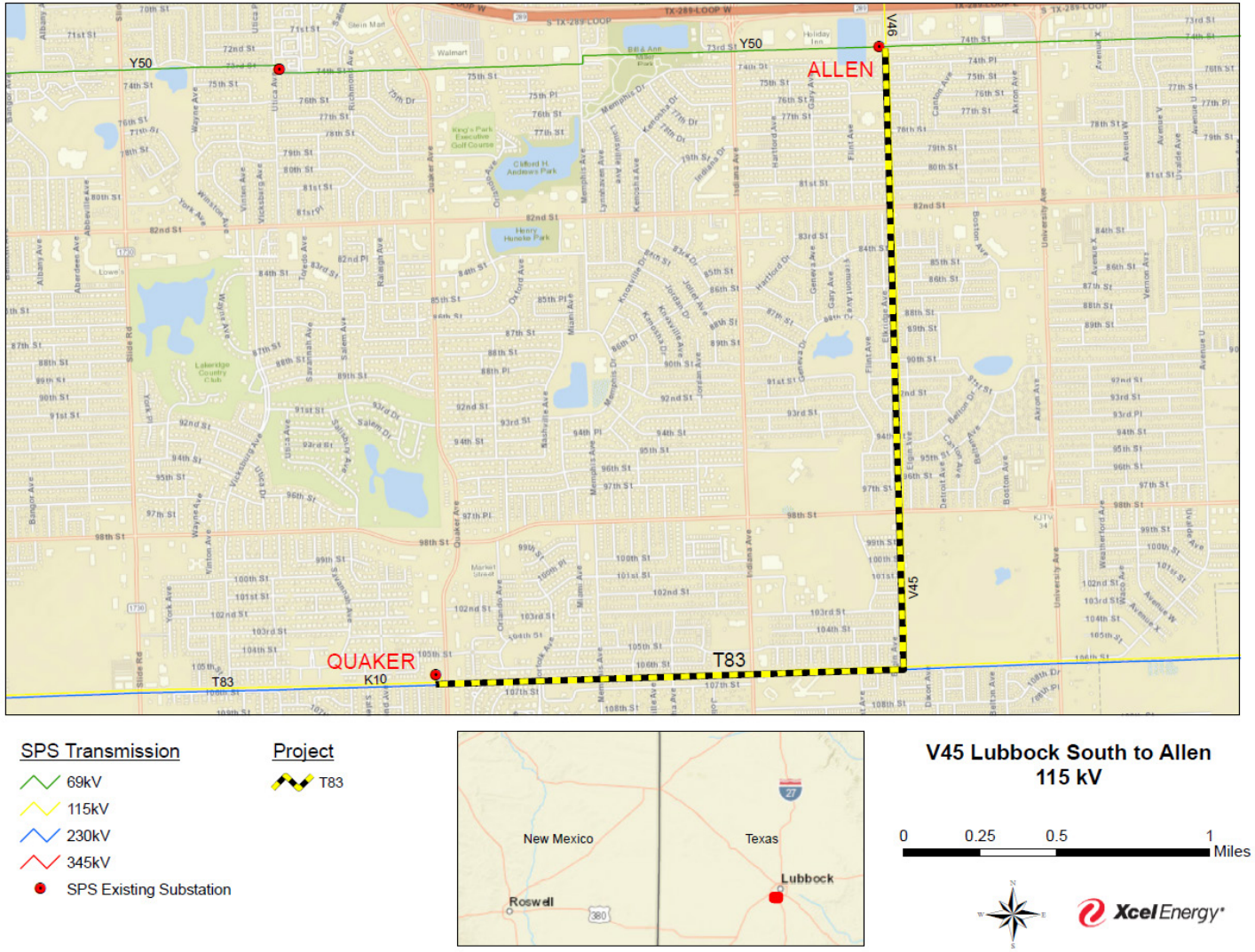
Voltage: 115 kV

ISD: TBD

NTC: Yes

Description: Upgrade terminal equipment and rebuild 3.6 miles of 115 kV line

Need: Reliability



Carlisle – Murphy V40 (New)

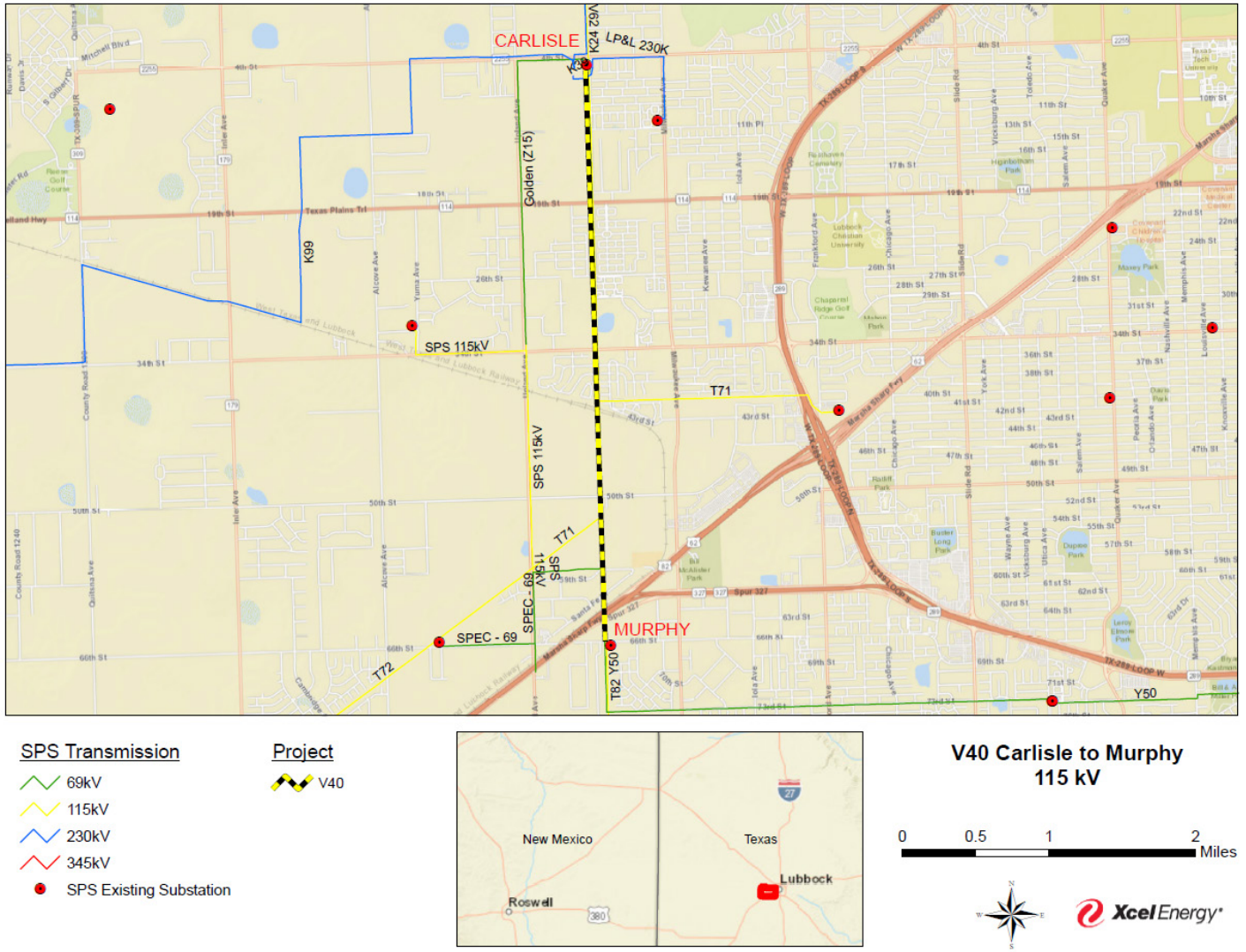
Voltage: 115 kV

ISD: TBD

NTC: Yes

Description: Rebuild 4.0 miles of line

Need: Reliability



Hereford South – Deaf Smith #6 (New)

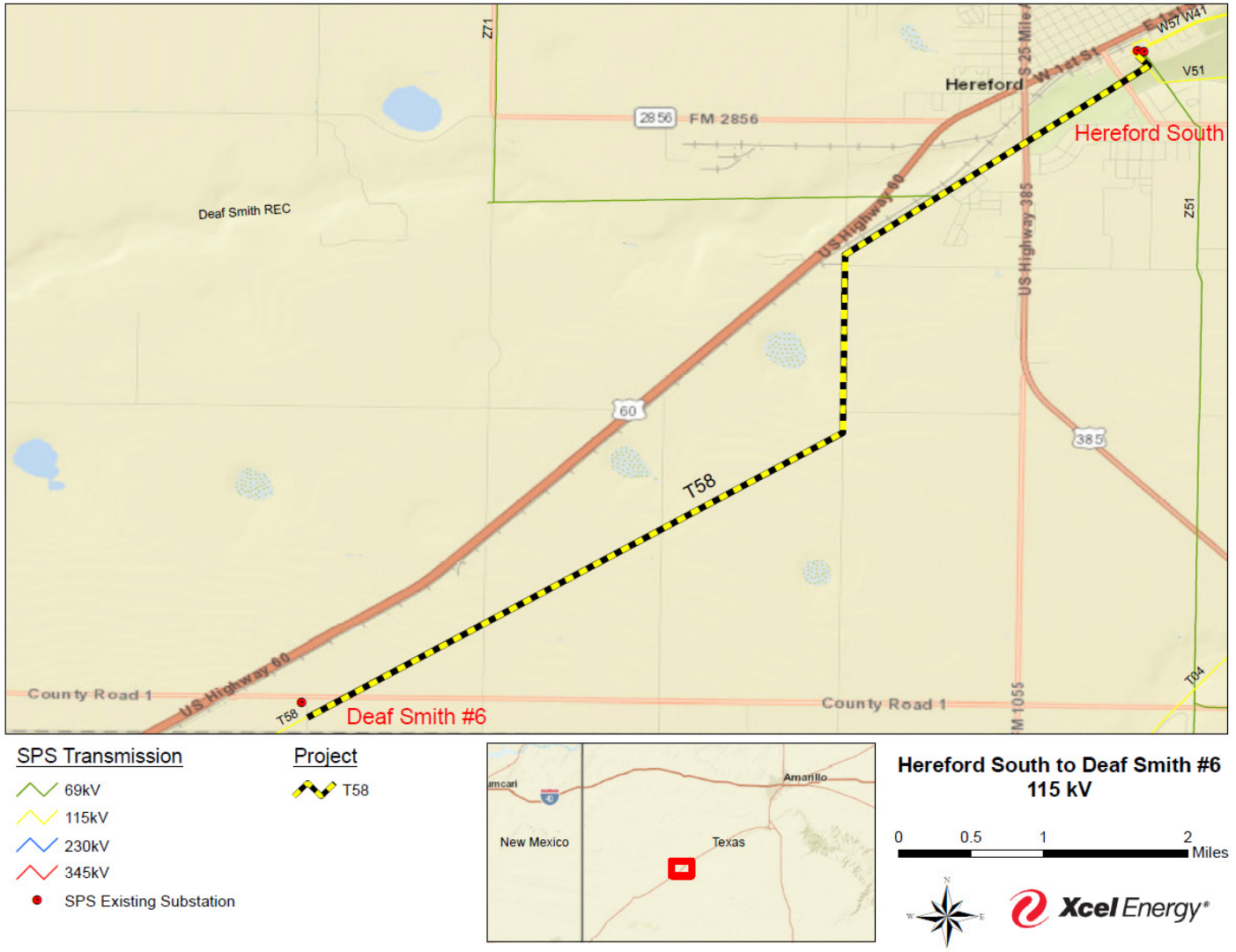
Voltage: 115 kV

ISD: TBD*

NTC: Yes

Description: Rebuild approximately 7.12 miles of 115kV

Need: Reliability



Deaf Smith #6 – Friona Rural (New)

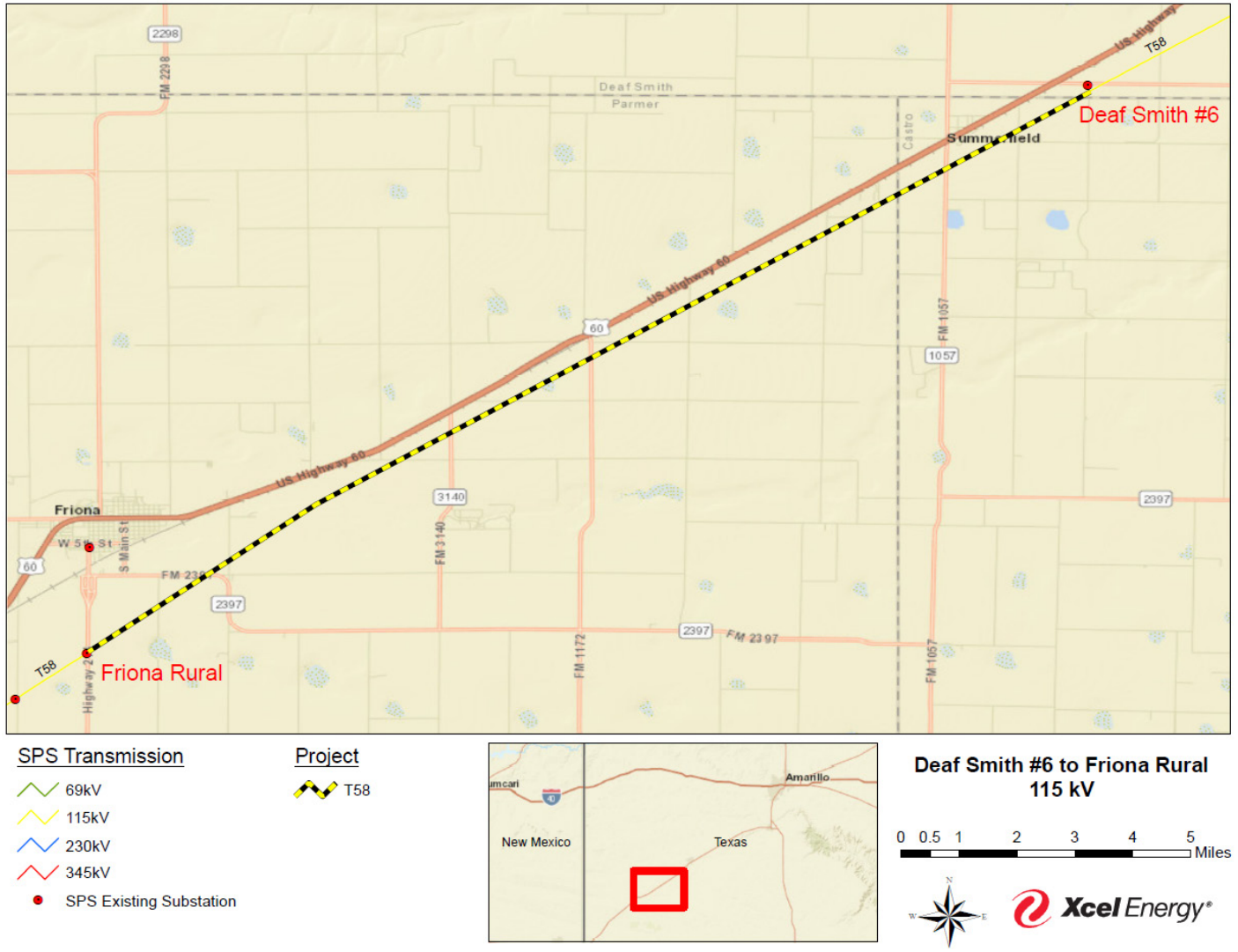
Voltage: 115 kV

ISD: TBD*

NTC: Yes

Description: Rebuild approximately 18.9 miles of 115kV

Need: Reliability



Friona Rural - Cargill (New)

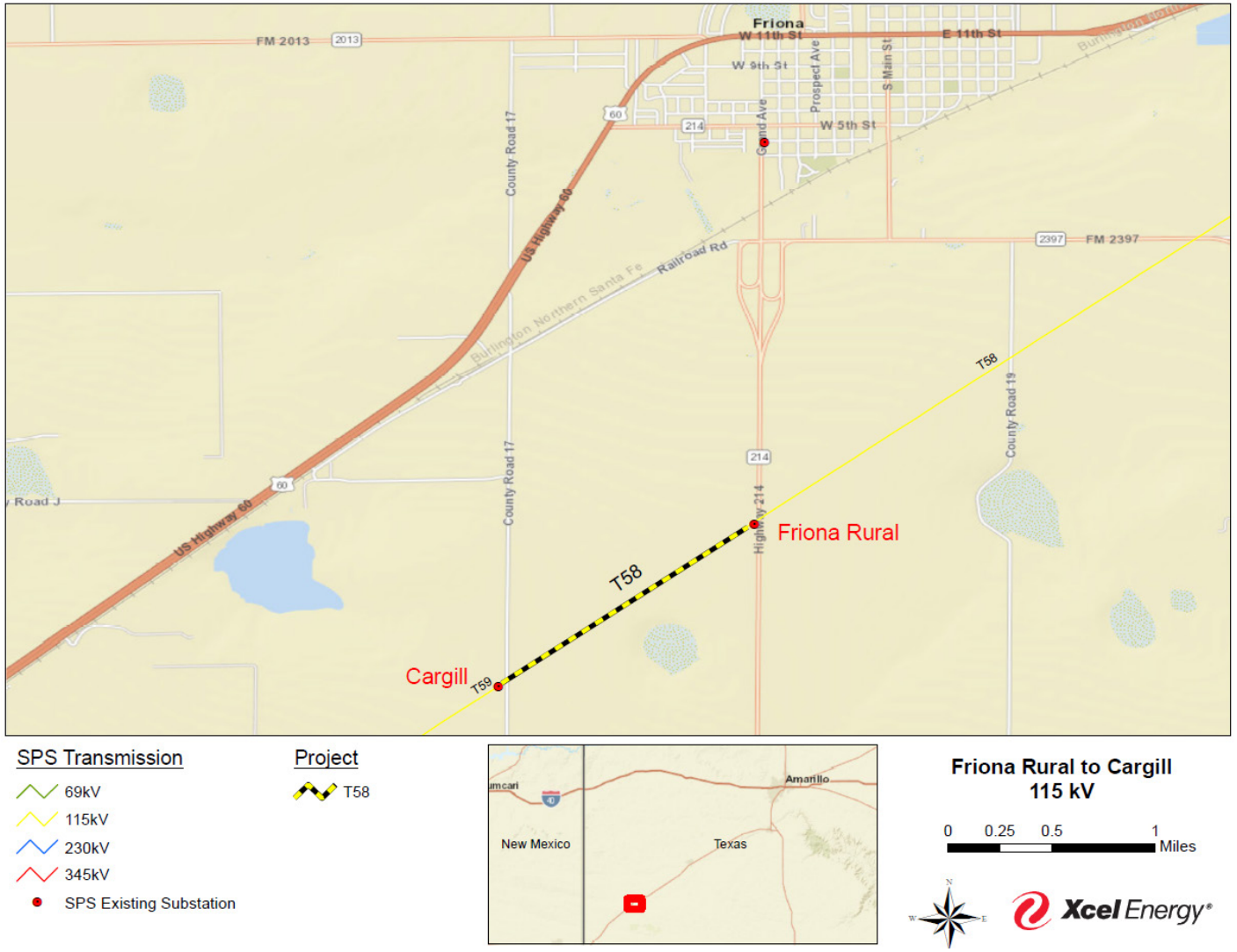
Voltage: 115 kV

ISD: TBD*

NTC: Yes

Description: Rebuild approximately 1.15 miles of 115kV

Need: Reliability



2021 ITP Projects

K08 Terminal Upgrades (New)

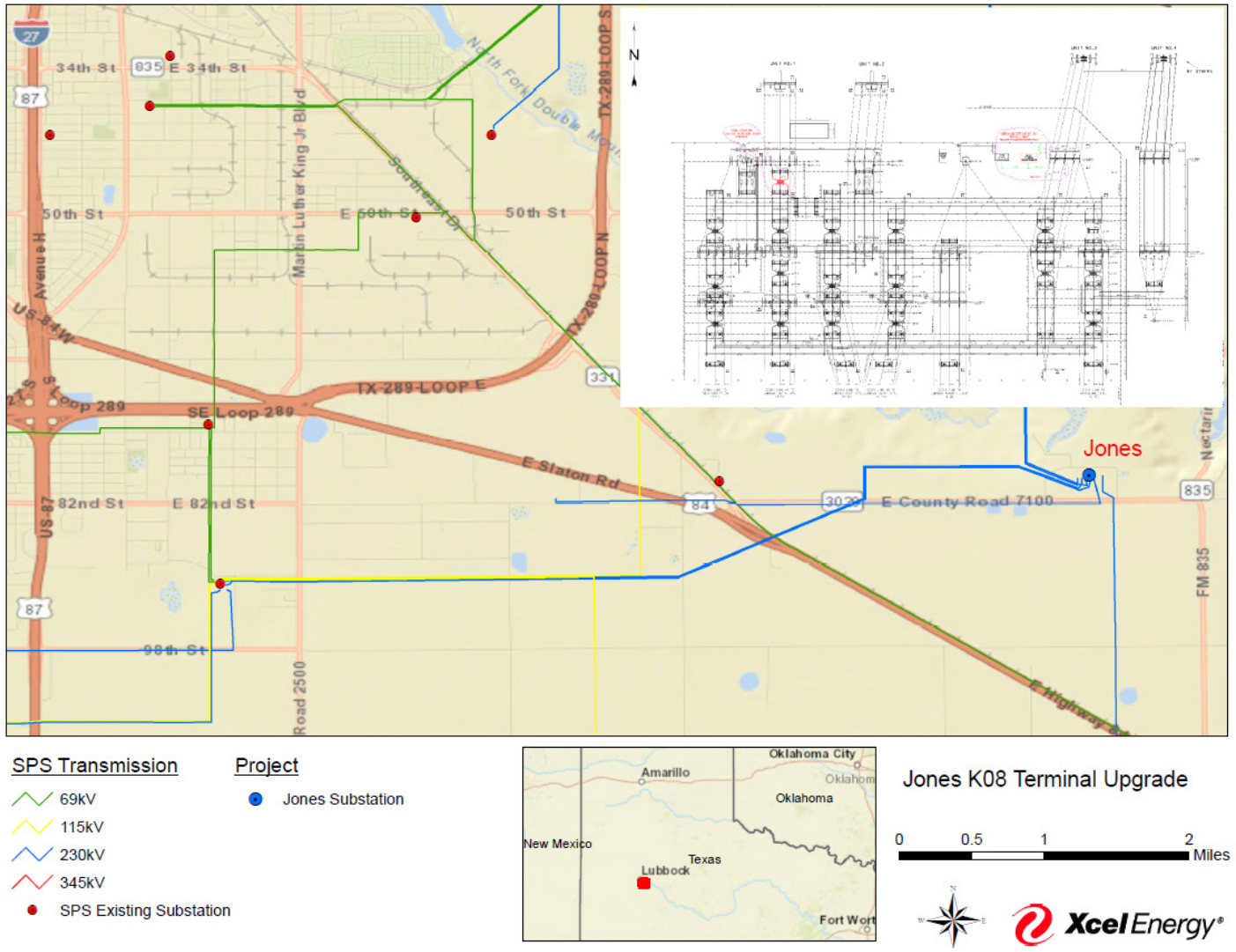
Voltage: 230 kV

ISD: June 2023

NTC: Yes

Description: Increase line clearances and upgrade line terminals.

Need: Reliability



Crossroads-Hobbs-Roadrunner Double Circuit (New)

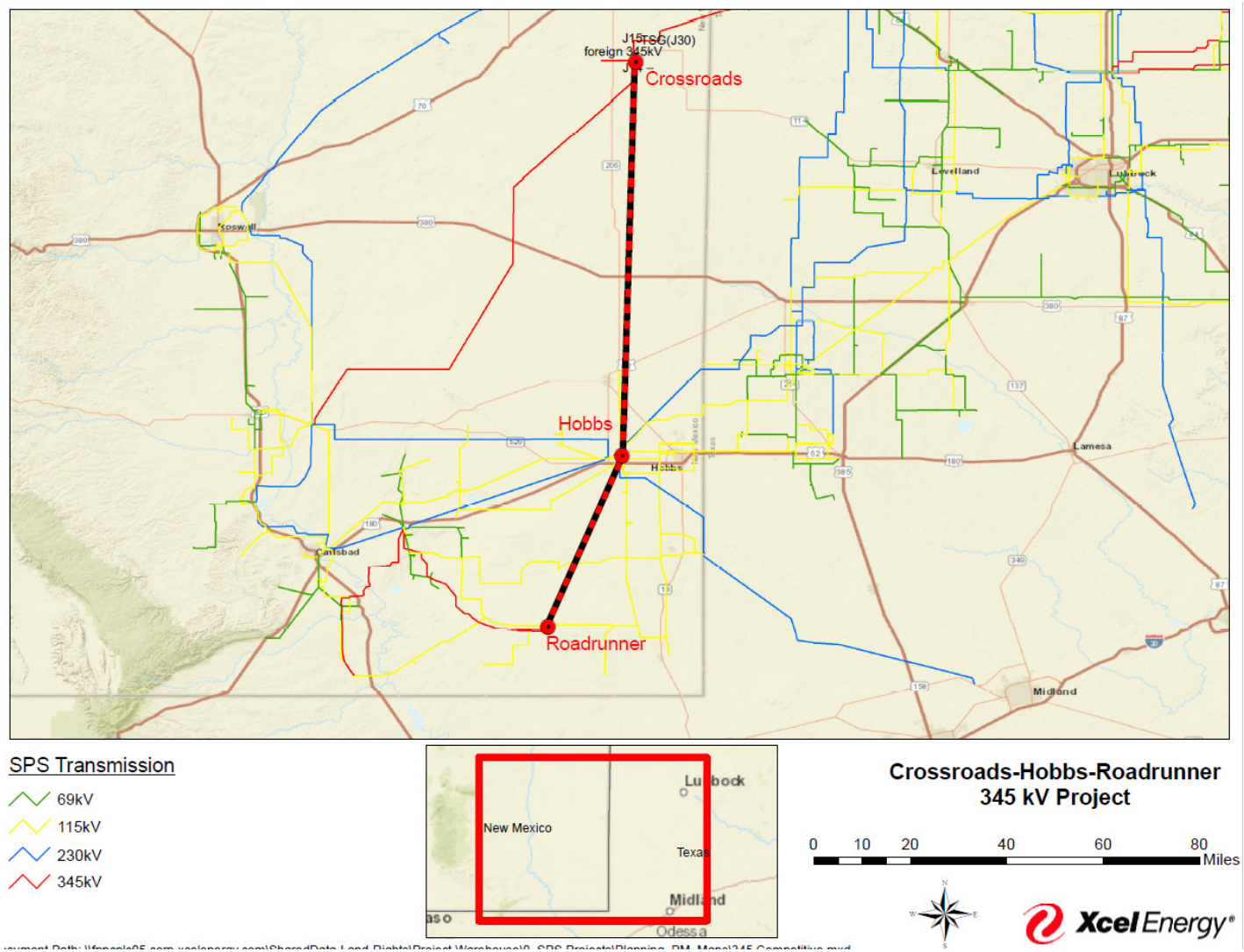
Voltage: 345 kV

ISD: TBD

NTC: Yes

Description: New 345kV substation expansions

Need: Reliability



2022 ITP Projects (Reliability)

Lubbock South Breaker (New)

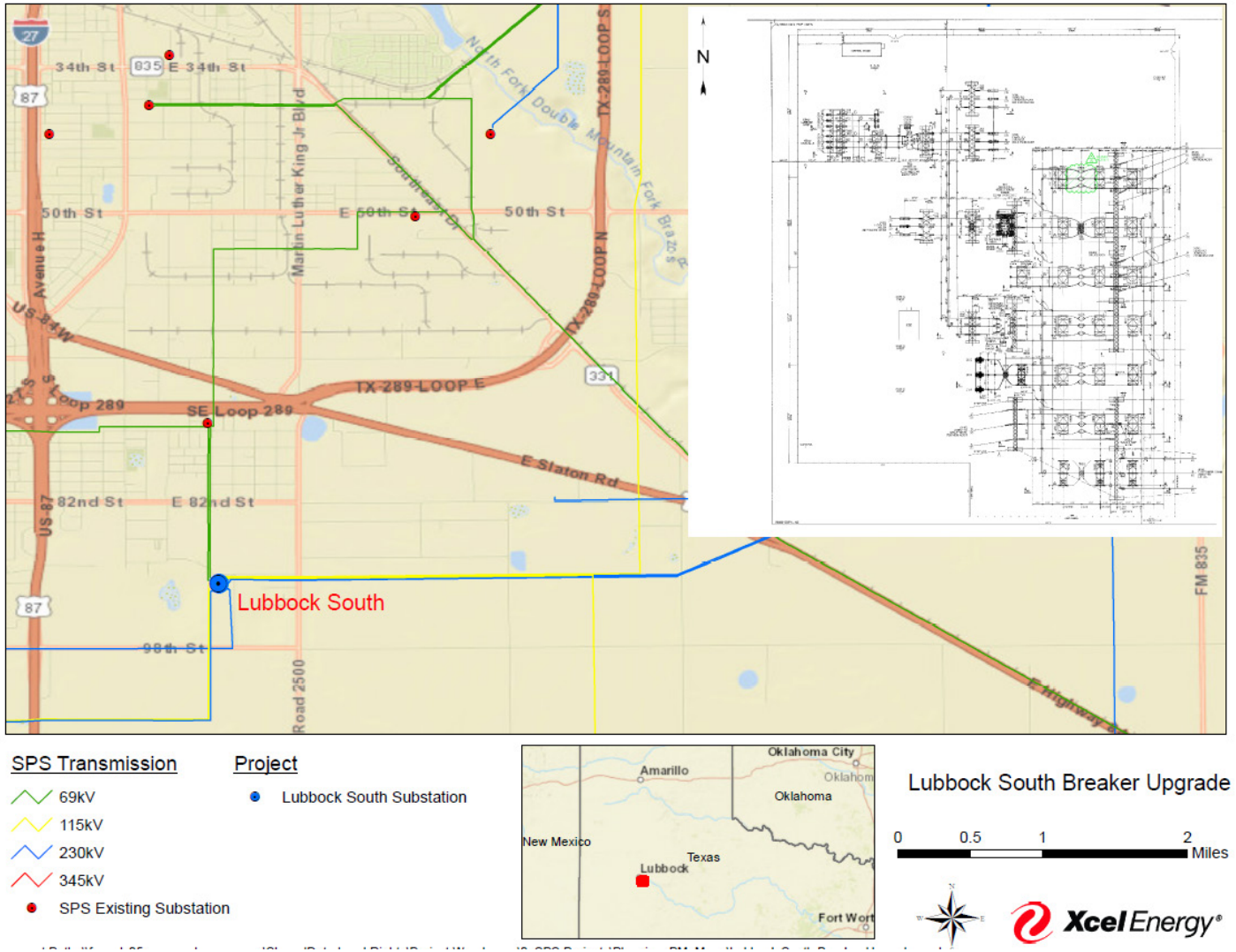
Voltage: 230 kV

ISD: TBD

NTC: Yes*

Description: Replace breaker, fault duty exceeded

Need: Reliability



Capacitor Bank, Lea Road Substation (New)

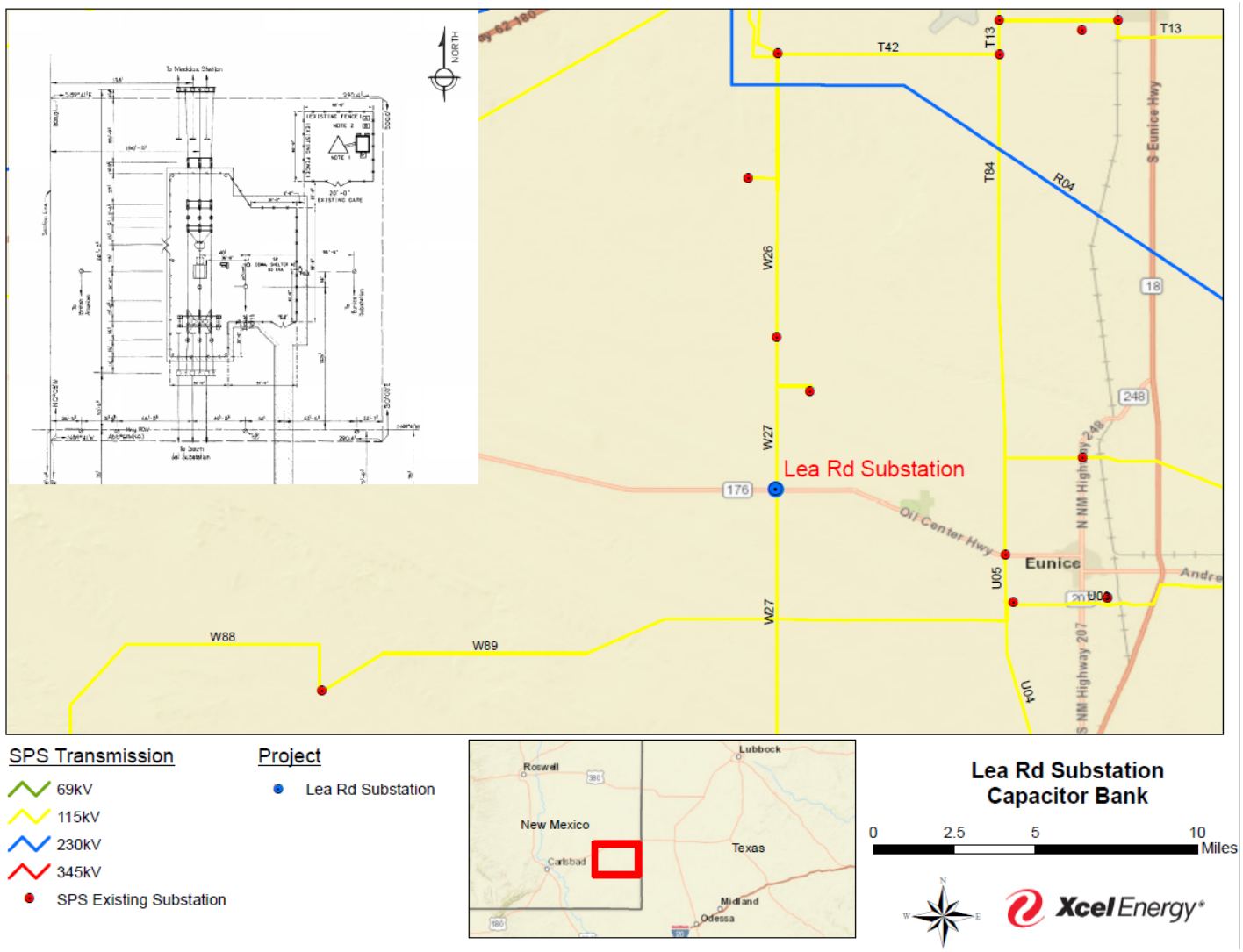
Voltage: 115 kV

ISD: TBD

NTC: Yes*

Description: Adding 2-14.4 MVAr separately switched capacitors

Need: Reliability



NERC TPL-001-5

- Approved 2020
- Enforcement Date: July 1, 2023
- Key Changes
  - Single Point of Failure (SPF)
    - Non-redundant components of a Protection System (FERC Order 754)
    - Single protective relay, single communications path, single DC supply, single control circuitry
    - Not mandate of redundancy in components of protection system
    - Upgrades to relaying, DC supply, breakers,
  - Technical Rationale for Selection of Known Outages
    - Outages removed from Model Build (Requirement R1)
    - Added to assessment part of analysis

Power for the Plains Website

http://www.powerfortheplains.com/

- Description for some of the projects
- Routing maps, when available
- General project information

Additional Questions

If you have questions that we were not able to address during this meeting, please email them to:

Roxanne.l.king@xcelenergy.com

We will take questions until October 28, 2022. The questions and answers will then be communicated out to those that RSVP'd for today's meeting

YOUR XCEL ENERGY POINTS OF CONTACT

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Principal Transmission Representative
Transmission Business Relations
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annette.gallegos@xcelenergy.com

Skip Black
Transmission Account Representative
Transmission Business Relations
806-378-2238
Skip.Larry.Black@xcelenergy.com

ZONAL PLANNING CRITERIA

Implementation of RR477: Zonal Planning Criteria

Maurisa Hughes and Dee Edmondson - Southwest Power Pool

SPP Southwest Power Pool

XCEL ENERGY-TEXAS AND NEW MEXICO SUB-REGIONAL TRANSMISSION PLANNING MEETING

OCTOBER 12, 2022

Working together to responsibly and economically keep the lights on today and in the future.

SouthwestPowerPool SPPorg southwest-power-pool

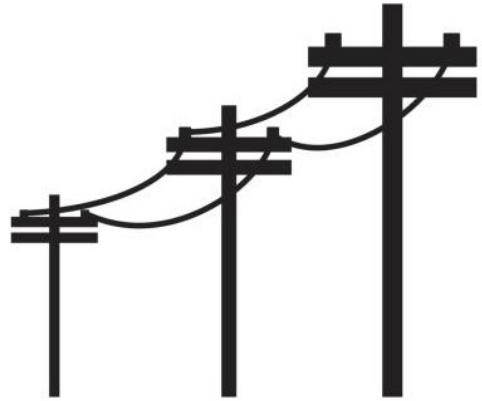
IMPLEMENTATION OF RR477: ZONAL PLANNING CRITERIA

DEE EDMONDSON

MAURISA HUGHES

PREVIOUSLY…

- Each Transmission Owner/Customer could develop their company specific Local Planning Criteria (LPC)
- Zonal Reliability Upgrades (ZRUs) would be issued based on violations of a company's LPC
- A company could be required to pay for an upgrade on another company's system that resulted from a violation of criteria that was more strict than their own



PREVIOUSLY…

Zone A

Transmission Owner 1

LPC: Post Contingent
Voltage: 0.9-1.05
Load: 100 MW

Contribution to TO 3's upgrade=
Upgrade Cost x 100
(100+50+5)
= 65% of Total Cost

Transmission Owner 2

LPC: Post Contingent
Voltage: 0.9-1.05
Load: 50 MW

Contribution to TO 3's upgrade =
Upgrade Cost x 50
(100+50+5)
= 32% of Total Cost

Transmission Owner 3

LPC: Post Contingent
Voltage: **0.95**-1.05
Load: 5 MW

Contribution to TO 3's upgrade =
Upgrade Cost x 5
(100+50+5)
= 3% of Total Cost

Planning & Cost Allocation

GO #2 Establish uniform Schedule 9 local planning criteria

- Establish uniform local planning criteria within each Schedule 9 pricing zone
- Criteria can vary between zones
- Transmission Owners (TOs) within each zone should be subject to same local criteria in determining need for zonal reliability upgrades within zone
- Host TO should invite zone's TOs & transmission customers to participate when developing zonal criteria before submitting to SPP

FERC REJECTION RR391

- Reasons for Rejection
  - Proposal would give undue preference to the network customer with the largest total network load in the zone
  - Proposal is unduly discriminatory against other transmission owners in the zone who were not the largest TO in the zone
    - No formal process rights or ability to influence the Facilitating Transmission Organization's (FTO) decision-making in establishing the Zonal Planning Criteria.
    - The proposal does not ensure that input from other transmission owners, customers, and stakeholders in the zone are considered in the development of the Zonal Planning Criteria.
    - The FTO could prevent the local reliability needs of other transmission owners in the zone from being considered
  - Unclear from the proposed tariff revisions whether a TO may continue to use separate local transmission planning criteria in its local transmission planning process (i.e., outside of SPP's regional transmission planning process)

IMPLEMENTATION OF RR477: ZONAL PLANNING CRITERIA

- On June 28, 2022, in Docket No. ER22-1719-000, FERC accepted tariff revisions for the implementation of Zonal Planning Criteria (ZPC) to evaluate the need for Zonal Reliability Upgrades in SPP's regional transmission planning process. This presentation steps through the resulting changes and the implementation timeline.

WHAT IS ZONAL PLANNING CRITERIA (ZPC)?

ZONAL PLANNING CRITERIA

- Zonal Planning Criteria (ZPC) establishes a uniform planning criteria for all Transmission Owners (TO) and Transmission Customers (TC) within a Zone
- Zonal Reliability Upgrades (ZRU) will be driven by violations of the ZPC and the cost will be allocated to all load in the Zone
- Examples
  - Thermal Loading Criteria
  - Voltage Criteria
  - MW-Mile

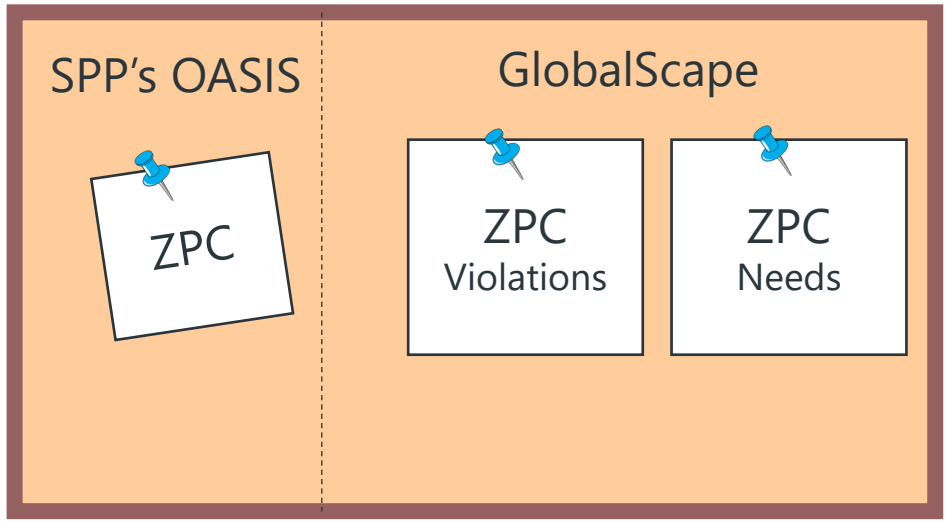
WHAT IS REMAINING THE SAME?

WHAT IS REMAINING THE SAME?

- Like its predecessor, Local Planning Criteria (LPC), ZPC will be due to SPP each year on April 1
- TOs and TCs will be able to
  - apply planning criteria that is more stringent than SPP's planning criteria to their equipment
  - receive zonal funding for ZRUs based on approved ZPC
- SPP Planning Criteria may be used

WHAT IS REMAINING THE SAME?

- ZPC will be posted to SPP's OASIS
- ZPC violations will be posted to GlobalScape with the ITP preliminary violations
- ZPC Needs will be posted to GlobalScape with the ITP Needs



WHAT IS REMAINING THE SAME?

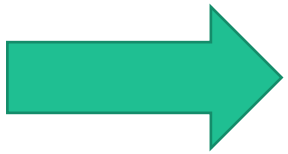
- Transmission Owners may continue to utilize their own company specific local planning process or their own FERC-approved local planning process to identify system upgrades (*i.e.*, outside of SPP's regional planning process)
  - Any cost associated with a system upgrade exclusively identified as needed through a Transmission Owner's local planning process or FERC-approved local planning process, and not identified through the Transmission Provider's regional planning process using the SPP Planning Criteria or the Zonal Planning Criteria, shall not be included in rates as a Base Plan Upgrade or a Zonal Reliability Upgrade

WHAT HAS CHANGED?

ZONAL REPLACES LOCAL

- The planning criteria used in SPP's planning process, **which will be used to issue ZRUs**, will be submitted at the zonal level, instead of by individual TOs and TCs
- A Facilitating Transmission Owner (FTO) from each Zone will coordinate the development of each Zone's ZPC

TOs and TCs



Zones

HOW WILL THE FTO BE SELECTED?

FACILITATING TRANSMISSION OWNER (FTO) SELECTION

- SPP will calculate the Network Load of each Network customer in each Zone and notify the Network Customer with the largest Network Load by April 2
  - The Network Load shall be computed in accordance with Sections 34.4 and 34.5 of Part III of the Tariff on an average calendar year basis for the prior calendar year
- The Network Customer with the largest Network Load shall designate a Transmission Owner as the Facilitating Transmission Owner (FTO) for the Zone each year
  - This TO must have a Zonal Annual Transmission Revenue Requirement for facilities in the Zone
- The FTO is responsible for the ZPC coordination as described in Attachment O of the Tariff
- ZPC for Zone 10 shall be subject to Attachment AD of the Tariff

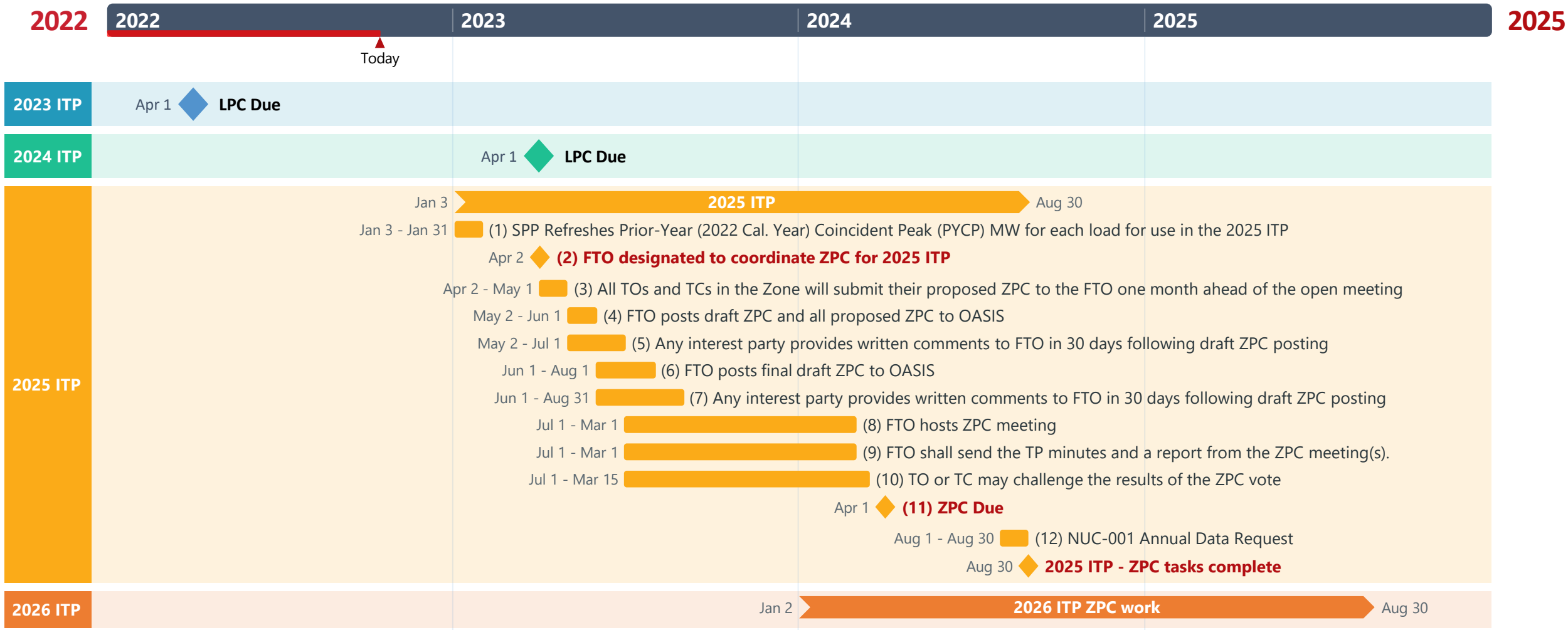
ATTACHMENT O
FACILITATING TRANSMISSION OWNER ROLE

- The FTO within the Zone shall hold open meeting(s) to discuss the development of the ZPCand shall invite all other TOs and TCs that receive Long-Term Service to serve load within that Zone
- Any initial development of and subsequent modification(s) to the Zonal Planning Criteria of a Zone shall be discussed in open meeting(s)
- The developed ZPC shall, **at a minimum**, conform to the NERC Reliability Standards and SPP Planning Criteria and only one set of ZPC shall be submitted per Zone

ANNUAL ZPC TIMELINE

ZPC TIMELINE

ZPC will first be implemented in the **2025 ITP**



KEY DATES

Year 1 | Year 2

1) **In January,** the Transmission Provider (SPP) will calculate each TO's and TC's prior calendar year's 12-month peak load in that Zone to **identify the Network Customer with the largest total Network Load in the Zone**

2) **By April 2,** the Network Customer with the largest total Network Load in the Zone shall **designate a TO as the FTO for the Zone.** This TO must have a Zonal Annual Transmission Revenue Requirement for facilities in the Zone

3) **By May 1,** TOs and TCs that receive Long-Term Service to serve load within that Zone may **submit proposed ZPC to the FTO**

KEY DATES

4) **By June 1**, the FTO will **post a proposed draft ZPC and all proposed ZPC received** to the FTO's Open Access Same-Time Information System (OASIS) linked from the TP's website for review and input by any interested party within that Zone

5) Any interested parties within that Zone will have **thirty (30) days** from the time any proposed draft ZPC is posted to the FTO's OASIS to **provide written comments to the FTO**. Any written comments provided in this timeframe, will be posted to the FTO's OASIS linked from the TP's website within **one week** from receipt of such written comment(s)

KEY DATES

6) **By August 1**, after consideration of all proposed draft ZPC and written comments related to any proposed draft ZPC, **the FTO shall post a final draft ZPC** to the FTO's OASIS linked from the Transmission Provider's website

7) After the final draft ZPC has been posted, interested parties within that Zone will have **thirty (30) days** to **provide written comments** to the FTO that will be posted to the FTO's OASIS linked from the Transmission Provider's website within one week from receipt of such written comment(s)

   - By October 1, the FTO shall coordinate with TOs and TCs that receive Long-Term Service to serve load in that Zone to determine a date and time for the open meeting and shall post a notice of the open meeting, where development or revision of ZPC shall be discussed, on the FTO's OASIS linked from the Transmission Provider's website

8) FTO shall **host the open meeting** **before March 1** of the following year

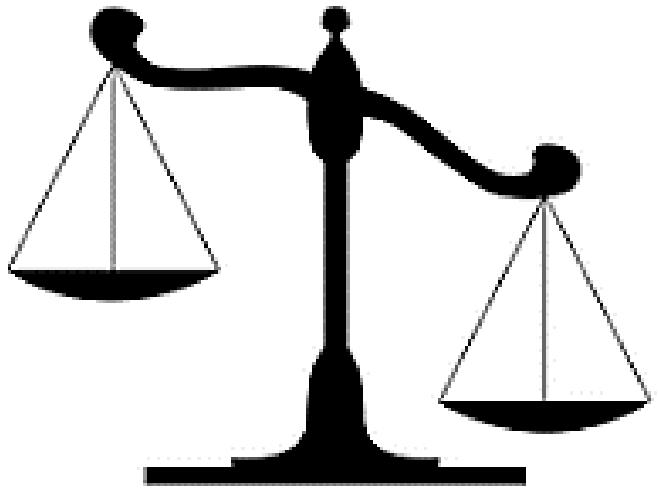
TWO-STEP VOTING

Voting Step 1: Load-Weighted Vote

- **Who:** All TCs receiving Point-to-Point or NITS Long-Term Service to serve load in that Zone based on the summation of the coincident peak load of each of the 12 months of the prior calendar year in that Zone
- **Passing Percentage Required:** The passing percentage is **greater than or equal to the largest load in the Zone plus one-half of the remainder of the load in the Zone**

Example: Largest TC owns 55% of the load

$$Passing\ Vote = 77.5\% = 55\% + \frac{(100\% - 55\%)}{2}$$



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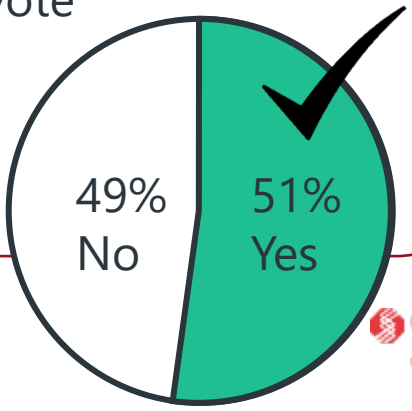
- **Passing Percentage Required:** The passing percentage is **greater than or equal to the largest load in the Zone plus one-half of the remainder of the load in the Zone**

Example: Largest TC owns 55% of the load

$$Passing\ Vote = 77.5\% = 55\% + \frac{(100\% - 55\%)}{2}$$

Voting Step 2: 50% Approval

- **Who:** TOs and TCs that receive Long-Term Service to serve load within that Zone
  - Entities that are both a TO and TC will be allowed one vote
- **Passing Percentage Required:** **>50%**



KEY DATES

Year 1 | Year 2

9. **By March 1 of the following year**, the FTO shall **send the TP minutes and a report** from the ZPC meeting(s)
10. **By March 15 of the following year,** if a TO or TC that receives Long-Term Service to serve load within that Zone wishes to challenge the results of the ZPC vote, the TO or TC that receives Long-Term Service to serve load within that Zone may **submit to the TP a dispute of the voting tabulation** that approved the ZPC

- Disputes should be submitted through the SPP RMS
  - Request Template: Submit Information
  - Subtype 1: Integrated Transmission Planning (ITP)
  - Subtype 2: ZPC Vote Tabulation Dispute

KEY DATES- DISPUTING THE VOTE TABULATION

- A designated senior representative of the TP and a senior representative of the FTO shall determine a resolution on an informal basis as promptly as practicable
- If the TP and the FTO find that the disputed voting tabulation was in error and would have resulted in the voting process
  - failing instead of passing, the ZPC would revert to the most recently approved ZPC or if no ZPC has been approved, then the Transmission Provider's Planning Criteria shall be used
  - passing instead of failing, the ZPC voted on shall be used
- Nothing in this section shall restrict the rights of any party to file a Complaint with FERC under relevant provisions of the Federal Power Act

KEY DATES

11. **By April 1 of the following year**, the FTO will **provide the approved ZPC to the TP**, the TOs, and TCs that receive Long-Term Service to serve load within that Zone for incorporation into the TP's Transmission Planning Process

12. **In August of the following year**, the TP will issue the Annual Data Request, including criteria for NUC-001

SUMMARY OF ZPC IMPLEMENTATION

1

LPC is replaced by ZPC

On June 28, 2022, RR 477 established ZPC

2

ZPC creates uniform criteria

ZRUs will be driven by violations of the ZPC and the cost will be allocated to all load in the Zone

3

First ZPC inclusion: 2025 ITP

By beginning in January 2023, ZPC can be included in the 2025 ITP

APPENDIX

WHAT IF THE ZONE DOESN'T APPROVE ZPC?

- If no set of approved ZPC is provided by the FTO by April 1, then the TP would use the most recently approved ZPC provided to it for that Zone, or, if no ZPC has been approved, then **only the TP's Planning Criteria** shall be used
  - The TO's previously submitted LPC will not be defaulted to

HOW ARE ZONAL RELIABILITY UPGRADES FUNDED?

HOW ARE ZONAL RELIABILITY UPGRADES FUNDED?

- Section 1, Definitions:
  - Zonal Reliability Upgrades: Those upgrades included in and constructed pursuant to the SPP Transmission Expansion Plan in order to ensure the reliability of the Transmission System identified because of application of a TO's company-specific ZPC. ZPC for Zone 10 shall be subject to Attachment AD of the Tariff
- Attachment O, Section III, e)
  - In accordance with Section II.5 of this Attachment O, the Transmission Provider shall review, and include as appropriate, all Zonal Reliability Upgrades as proposed by the Transmission Owners to meet Zonal Planning Criteria, including such plans developed by Transmission Owners that have their own FERC approved local planning process, to ensure coordination of the projects set forth in such plans with the potential solutions developed in the regional planning process.

OATT ATTACHMENT J SECTION V

D. Zonal Reliability Upgrades

1. The cost of Zonal Reliability Upgrades (i) included in the 2005 SPP Transmission Expansion Plan and (ii) placed in service prior to January 1, 2008, shall be allocated in accordance with Section III to this Attachment

2. The cost of all other Zonal Reliability Upgrades shall be includable in the applicable Zonal Annual Transmission Revenue Requirement

OATT SCHEDULE 7
THE ZONES ARE AS FOLLOWS:

- Zone 1:American Electric Power – West
- Zone 2:Kansas City Board of Public Utilities
- Zone 3:City Utilities of Springfield, Missouri
- Zone 4:Empire District Electric Company
- Zone 5:Grand River Dam Authority
- Zone 6:Evergy Metro, Inc.
- Zone 7:Oklahoma Gas & Electric Company
- Zone 8:Midwest Energy, Inc.
- Zone 9:Evergy Missouri West, Inc.
- Zone 10:Southwestern Power Administration
- Zone 11:Southwestern Public Service
- Zone 12:Sunflower Electric Power Corporation
- Zone 13:Western Farmers Electric Cooperative
- Zone 14:Evergy Kansas Central, Inc. (Evergy Kansas South, Inc. and Evergy Kansas Central, Inc.)
- Zone 15:Reserved for Future Use
- Zone 16:Lincoln Electric System
- Zone 17:Nebraska Public Power District
- Zone 18:Omaha Public Power District
- Zone 19:Upper Missouri Zone