Item 11: Bearkat – North McCamey – Sand Lake 345-kV Transmission Line Addition RPG Project

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Vice Present, Grid Planning and Operations

Board of Directors Meeting

ERCOT Public
August 16, 2022

Action

- At the conclusion of this presentation the Board of Directors will be asked to:

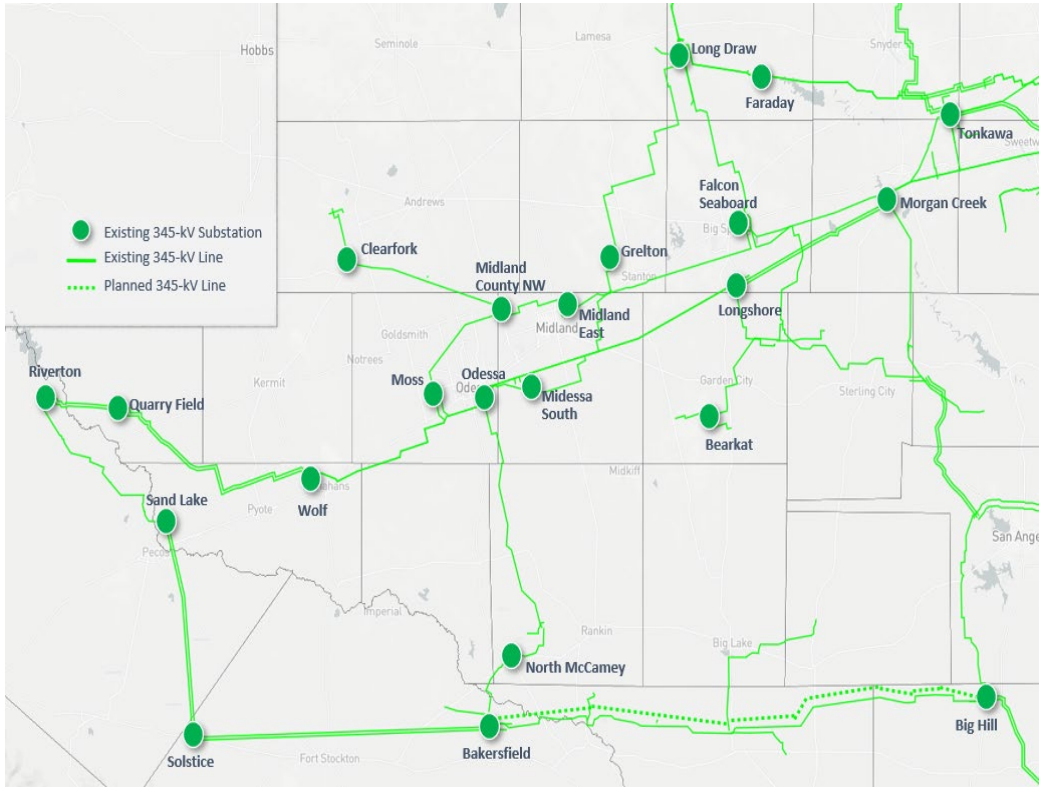
  1. Endorse the Bearkat – North McCamey – Sand Lake 345-kV Transmission Addition Regional Planning Group (RPG) Project based on NERC and ERCOT reliability planning criteria; and

  2. Designate the project as critical to the reliability of the ERCOT System pursuant to PUCT Substantive Rule 25.101(b)(3)(D)

Bearkat – North McCamey – Sand Lake 345-kV Transmission Addition Project

- LCRA Transmission Services Corporation (LCRA TSC), Wind Energy Transmission Texas (WETT), and Oncor jointly submitted the Bearkat – North McCamey – Sand Lake 345-kV Transmission Line Addition Project for Regional Planning Group (RPG) review in April 2022

- The purpose of the project is to address reliability needs driven by rapid load growth (oil & gas) in the Delaware Basin area and to improve capability to import power into the Delaware Basin area



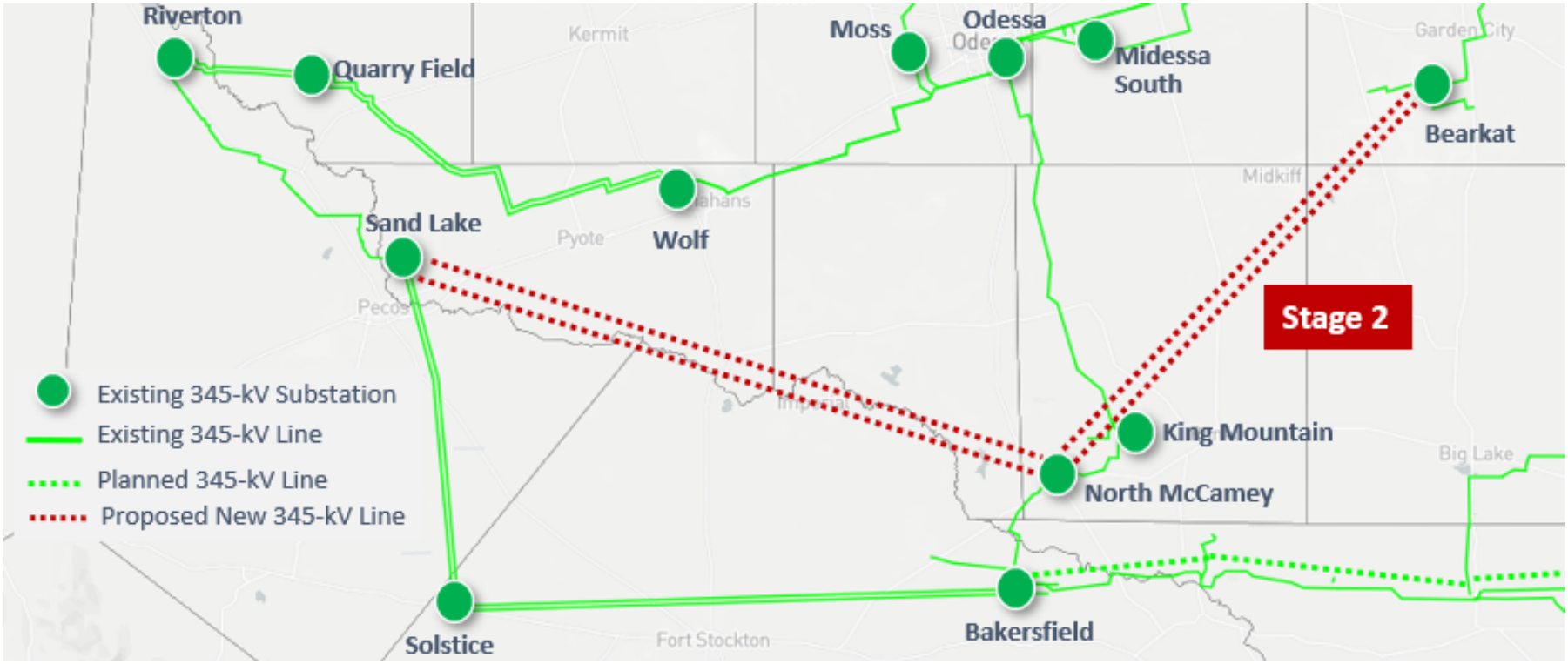
TAC Endorsement

- ERCOT presented the project to the Technical Advisory Committee on July 27, 2022
- TAC voted unanimously to endorse the project (Stage 2)

Request for Board Vote

- ERCOT staff requests and recommends that the Board of Directors vote to endorse the need for the Bearkat – North McCamey – Sand Lake 345-kV Transmission Addition Project (Stage 2) based on NERC and ERCOT reliability planning criteria
- ERCOT staff requests and recommends that Board of Directors designate the Bearkat – North McCamey – Sand Lake 345-kV Transmission Addition Project (Stage 2) as critical to the reliability of the ERCOT System pursuant to PUCT Substantive Rule 25.101(b)(3)(D)

Questions?


Riverton
Quarry Field
Kermit
Moss
Odessa
Midessa South
Garden City
Bearkat
Midkiff
Sand Lake
Pyote
Wolf
Pecos
Stage 2
Existing 345-kV Substation
Existing 345-kV Line
Planned 345-kV Line
Proposed New 345-kV Line
King Mountain
Big Lake
North McCamey
Solstice
Fort Stockton
Bakersfield

ERCOT Recommendation: Stage 2

- Build a new double-circuit 345-kV line from existing Bearkat Substation to existing North McCamey Substation (~71 miles), with normal and emergency ratings of at least 2,564 MVA
- Build a new double-circuit 345-kV line from existing North McCamey Substation to existing Sand Lake Substation (~94 miles), with normal and emergency ratings of at least 2,564 MVA
- Reconfigure each of the existing substations into a breaker-and-a-half substation (as a minimum configuration)