



February 14, 2024

Mr. Tom Carr
Chair, WECC Studies Subcommittee
tcarr@westernenergyboard.org

Mr. Doug Tucker
dtucker@wecc.org
WECC Staff
Western Electricity Coordinating Council
155 North 400 West, Suite 200
Salt Lake City, UT 84103-1114

Subject: Tucson Electric Power Company's 2024 Annual Progress Report

In accordance with WECC Progress Report Policies and Procedures, the following is Tucson Electric Power (TEP) Company's 2024 Annual Progress Report. TEP also plans Unisource Electric's (UNSE) system and has included projects in this report for UNSE. These planned facility additions are in conformance with NERC Standards and WECC "Project Coordination, Path Rating and Progress Report Processes" guideline.

Pinal West 500/345 kV Transformer Addition:

TEP plans to add a second 500/345 kV transformer at Pinal West substation to be operated in parallel to the existing transformer. The purpose of this transformer addition is to increase Total Transfer Capability of the transfer path Pinal West to South to Vail in response to a customer transmission service request. The expected in-service date for this project is Q2 2024.

Vail-Tortolita Project:

TEP has acquired the rights to construct a 64-mile portion of the Southline Project. The project will start at TEP's Vail 345kV substation and terminate at TEP's Tortolita 500kV substation. The purpose of this project is to improve reliability by connecting two major import points into the Tucson load pocket and provide an additional import point into TEP's 138kV facilities. The project rebuilds a portion of WAPA's 115kV circuit to a double circuit with both lines built to 230kV standards. TEP's 230kV circuit will be on one side of the towers and WAPA's circuit, operated at 115kV, will be on the other side. The line will terminate at Vail with two 345/230 kV Transformers and at Tortolita with two 500/230 kV Transformers. The line will also loop into a new DeMoss Petrie 230kV yard with two 230/138 kV Transformers to the DeMoss Petrie 138kV yard. This

project will be constructed in phases with an expected in-service date of Q1 2026 for the Tortolita to DeMoss Petrie portion of the project, and an expected in-service date of Q1 2027 for the DeMoss Petrie to Vail portion of the project.

Roadrunner Reserve Battery Energy Storage System:

TEP plans to add a 200MW Battery Energy Storage System connected at 138kV to the Vail substation. The purpose of this new resource is to improve reliability by injecting additional power into the system during peak load conditions. The expected in-service date for this project is 2025.

UNSE Black Mountain Generating Station Expansion:

UNSE plans to add four 50 MW Gas-Fired generation units for a total of 200 MW at the existing Black Mountain Generating Station in Mohave County, Arizona. A 230 kV line will connect this new generation to Western Area Power Administration (WAPA)'s Griffith substation in Mohave County. This project is needed to meet future load growth across UNSE's service territory, maintaining reliability for both existing and future customers, and reducing reliance on wholesale market capacity to meet retail demand. The expected in-service date for this project is 2027.

UNSE Golden Valley 230kV Transmission Line

UNSE plan to construct a new 230kV transmission line in Mohave County from the WAPA's McConico 230 kV substation to the planned UNSE Mineral Park 230 kV substation. The purpose of this new line is to improve service reliability by replacing aging equipment and provide greater electric capacity to serve existing customers and expected load growth. The expected in-service date for this project is 2031.

Other Projects:

TEP plans to construct the following transmission facilities:

- Saguaro – Winchester 500 kV Line
- Vail – South #2 345 kV Line
- Springerville – Greenlee #3 345 kV Line
- Tortolita – South 345 kV Line
- Westwing – South #2 345 or 500-kV Line
- Gila River to Pinal West 500 kV Transmission Line

At this time, the in-service date for each of these projects is beyond the 10-year time frame but the schedule is tentative and subject to change following the completion of study work to be conducted by TEP.

If you have any questions regarding the above projects, please contact me at (520) 917-6634 or via e-mail at tlichtas@tep.com.

Sincerely,

Todd Lichtas
TEP Transmission Planning
Studies Subcommittee Representative
(520) 917-6634
tlichtas@tep.com