DeMoss Petrie (DMP) to Tucson
138-kV Transmission Line
Siting Study
April 15, 2009

Project Overview

• TEP is proposing to construct a 138-kV transmission line from the DMP Substation, located east of Interstate 10 (I-10) and north of Grant Road, to the Tucson Substation, located east of 11th Avenue between 4th Street and the Union Pacific Railroad

• Planning process: environmental studies and public outreach will be conducted to assist in identification and comparison of alternative transmission line routes and environmental impacts

• Project requires review by the Arizona Corporation Commission’s (ACC) Power Plant and Transmission Line Siting Committee, resulting in a recommendation to and a final determination by the ACC prior to construction

• Anticipated in-service date: mid-2010
Purpose and Need

• Provide 138-kV transmission capability between the DMP and Tucson substations
• Improve system reliability for customers in the western portion of the Tucson area
• Existing transmission lines could not serve this purpose and need

Project Description

• A 138-kV transmission line from the DMP Substation, located east of Interstate 10 (I-10) and north of Grant Road, to the Tucson Substation, located east of 11th Avenue between 4th Street and the Union Pacific Railroad
• Depending upon its final route, the project could be several miles in length
• Potential to use existing 46-kV line rights-of-way
• In accordance with TEP’s design standards, the transmission line structures would be built to accommodate a second circuit (138- or 46-kV)
• A 100-foot-wide right-of-way required when not in road right-of-way
• Upgrades to existing substations will not require additional property
### Proposed Structure Type

![Proposed Structure Type Diagram](image)

### Planning Process

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Typical Process For Line Siting in AZ

STAGE 4
Alternatives Selection and Resource Surveys
- CWG #3
- Track and respond to comments

STAGE 5
Preparation and Filing of Certificate of Environmental Compatibility (CEC) Application with ACC
- Prepare CWG and public involvement summary to support CEC filing
- Track and respond to comments

STAGE 6
CEC Hearings
- Public hearings before the Arizona Power Plant and Transmission Line Siting Committee and ACC

2nd – 3rd qtr. 2009
2nd – 3rd qtr. 2009
3rd qtr. 2009
Environmental Studies Overview

• Environmental resources
  – Land use (existing/future land use and jurisdictional planning guidelines)
  – Visual (scenic quality, sensitive viewers, and scenic management guidelines)
  – Cultural (national register sites and districts, archaeological sites, as well as other eligible sites)
  – Biology (wildlife, vegetation, rare species, and sensitive habitat)
Resource Maps

- Aerial
- Existing land use
- Future land use
Opportunities and Constraints Analysis

• Identify opportunities and constraints through evaluation of environmental resources within the project study area

• Conduct an analysis of various environmental resources' sensitivity to the construction, operation, maintenance, and abandonment of a transmission line
Agency and Public Participation Activities

- Public open houses
- Community working group
- Telephone information line (866) 541-7349
- TEP website (www.tep.com)
- Arizona siting committee website (contains a link to FAQs): www.cc.state.az.us/AZ_Power_Plant
- Project newsletters mailed to community, including residents, landowners, and other interested parties
- Media briefings (TEP)

Community Working Group

- Represent agencies, neighborhoods, and community members
- Attend and actively participate in three community working group meetings at key points in the planning process
- Identify key issues throughout the planning process
- Communicate project information to constituents
- Review and comment on study results at key points
Agency and Public Participation Activities Schedule

- Public open house meetings
  - April 2, 2009 and Summer 2009

- Community working group meetings
  - March 5, 2009 - Summer 2009

TEP Decision Elements

- Environmental
- Public input
- Permits
- Engineering
- Ability to obtain right-of-way
- Cost
Next Steps

• Alternative link identification

• Community working group meeting #2

• Public open house meeting #2
Questions?