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UTILITY DIVISION
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January 28, 2010

Mr. Ernest G. Johnson
Director, Utilities Division
Arizona Corporation Commission
1200 W. Washington Avenue
Phoenix, AZ 85007

RE: ED3 and ED4 Ten-Year Transmission Plan
Docket Number: E-00000D-09-0020

Dear Mr. Johnson:

Enclosed is a Ten-Year Transmission Plan filed on behalf of Electrical District No. 3 and Electrical District No. 4 ("the Districts"). This Ten-Year Transmission Plan is being filed in accordance with the requirements of Arizona Revised Statutes §40-360.02.

Please contact me at 480-610-8741 if you have questions regarding this filing or the status of The Districts transmission plans.

Respectfully submitted,

Dennis L. Delaney, P.E.
K.R. Saline and Associates, PLC

Enclosures

CC: Bill Stacey – ED3
Ron McEachern – ED4

Arizona Corporation Commission
DOCKETED

JAN 29 2010



ELECTRICAL DISTRICT NO. 3 AND NO. 4
2010-2019
TEN-YEAR TRANSMISSION PLAN

General Information

Electrical District No. 3 and Electrical District No. 4 (“the Districts”) are electrical districts established by the Board of Supervisors of Pinal County pursuant to the provisions of Chapter 3 of Title 30 of the Arizona Revised Statutes. The Districts were organized to provide electrical power and energy primarily for producing water for irrigation. The Districts obtained its original power purchase certificate from the Arizona Power Authority in 1960.

The Districts are located in Pinal County, Arizona, with a service area of approximately 460 square miles. The Districts own their own distribution systems and provides electric service to agricultural irrigation pumping, industrial, commercial and residential consumers. The Districts are governed by their Board of Directors elected annually by freeholders of property within the Districts’ boundaries.

This report is submitted to the Arizona Corporation Commission (“ACC” or “Commission”) in accordance with the requirements of A.R.S. §40-360.02. The report provides preliminary information regarding the Districts Ten-Year Transmission Plan. The information is preliminary because of the conceptual nature of the plan. Studies are just commencing to define the details of the plan and to establish the date of service of various elements of the plan. System interconnection studies and system impact studies are expected to be completed over the course of the next year.

The Districts will participate in subregional planning forums like SWAT and WestConnect to assure the District’s transmission plans are properly vetted within the industry. The District also plans to engage in the Western Electricity Coordinating Council regional planning process as appropriate to assure no adverse impact on neighboring systems.

ELECTRICAL DISTRICT NO. 3 AND NO. 4
2010-2019
TEN-YEAR TRANSMISSION PLAN

Planned Transmission Facility

TBD

Line Designation: Santa Rosa Substation – ED5 Substation

Project Description:

- (a) Voltage 230 kV AC
- (b) Capacity To be determined.
- (c) Origin *Santa Rosa 230kV Substation.*
- (d) Termination ED5 Substation.
- (e) Length 38 miles.
- (f) Routing East and south from the Santa Rosa to the ED5 Substation.

Purpose: This line is expected to be a joint project with participation by SPPR Participants¹. As a new transmission line within Pinal County, the 230 kV line will provide transmission capacity required to supplement limited transmission capacity to load serving entities in the Pinal County area and to increase access to the market and generation resources.

Schedule:

- (a) Construction Start To be determined (TBD).
- (b) In-Service Date To be determined (TBD).

Is CEC Necessary: An application for a Certificate of Environmental Compatibility will be filed once the project scope and timing have been determined.

¹ Entities participating in the SPPR Group include: Aha Macav Power Services, Mohave Valley, CA; Ak-Chin Energy Services, Tempe, AZ; Anza Electric Cooperative, Anza, CA; Aquila Irrigation District, Aquila, AZ; Arizona Electric Power Cooperative, Benson, AZ; Avra Valley Irrigation & Drainage District, Marana, AZ; Buckeye Water Conservation & Drainage Dist., Buckeye, AZ; Central AZ Water Conservation District, Phoenix, AZ; Chandler Heights Conservation & Irrigation Dist., Chandler Heights, AZ; Duncan Valley Electric Cooperative, Duncan, AZ; Electrical District No. 2, Coolidge, AZ; Electrical District No. 3, Maricopa, AZ; Electrical District No. 4, Eloy, AZ; Electrical District No. 5 (Pinal County), Red Rock, AZ; Electrical District No. 5 (Maricopa County), Mesa, AZ; Electrical District No. 6, Queen Creek, AZ; Electrical District No. 7, Waddell, AZ; Electrical District No. 8, Gila Bend, AZ; Gila River Indian Community Utility Authority, Chandler, AZ; Graham County Electric Cooperative, Pima, AZ; Harquahala Valley Power District, Tonopah, AZ; Maricopa Water District, Waddell, AZ; McMullen Valley Power District, Salome, AZ; Mohave Electric Cooperative, Bullhead City, AZ; Navajo Tribal Utility Authority, Fort Defiance, AZ; Ocotillo Water & Conservation District, Ocotillo, AZ; Page Electrical Utility, Page, AZ; Queen Creek Irrigation District, Queen Creek, AZ; Roosevelt Irrigation District, Buckeye, AZ; Safford Electrical Utility, Safford, AZ; San Tan Irrigation District, Chandler Heights, AZ; Sulphur Springs Valley Electric Cooperative, Willcox, AZ; Tohono O'odham Utility Authority, Sells, AZ; Tonopah Irrigation District, Tonopah, AZ; Town of Thatcher, Thatcher, AZ; Trico Electric Cooperative, Marana, AZ; Valley Electric Association, Pahrump, NV; Wellton-Mohawk Irrigation and Drainage District, Wellton, AZ.

ELECTRICAL DISTRICT NO. 3 AND NO. 4
2010-2019
TEN-YEAR TRANSMISSION PLAN

Planned Transmission Facility

TBD

Line Designation: ED5 to Pinal Central (Previously known as Pinal South)

Project Description:

- (a) Voltage 230 kV AC
- (b) Capacity To be determined (TBD).
- (c) Origin ED5 Substation
- (d) Termination Pinal Central Substation
- (e) Length 18 miles
- (f) Routing East and north from the ED5 Substation site to the Pinal Central Substation Station Site.

Purpose: This line is expected to be a joint project with participation by SPPR Participants². As a new transmission line within Pinal County, the 230 kV line will provide transmission capacity required to supplement limited transmission capacity to load serving entities in the Pinal County area and to increase access to the market and generation resources.

Schedule:

- (a) Construction Start TBD
- (b) In-Service Date TBD

Is CEC Necessary: An application for a Certificate of Environmental Compatibility will be filed once the project scope and timing have been determined.

² Entities participating in the SPPR Group include: Aha Macav Power Services, Mohave Valley, CA; Ak-Chin Energy Services, Tempe, AZ; Anza Electric Cooperative, Anza, CA; Aquila Irrigation District, Aquila, AZ; Arizona Electric Power Cooperative, Benson, AZ; Avra Valley Irrigation & Drainage District, Marana, AZ; Buckeye Water Conservation & Drainage Dist., Buckeye, AZ; Central AZ Water Conservation District, Phoenix, AZ; Chandler Heights Conservation & Irrigation Dist., Chandler Heights, AZ; Duncan Valley Electric Cooperative, Duncan, AZ; Electrical District No. 2, Coolidge, AZ; Electrical District No. 3, Maricopa, AZ; Electrical District No. 4, Eloy, AZ; Electrical District No. 5 (Pinal County), Red Rock, AZ; Electrical District No. 5 (Maricopa County), Mesa, AZ; Electrical District No. 6, Queen Creek, AZ; Electrical District No. 7, Waddell, AZ; Electrical District No. 8, Gila Bend, AZ; Gila River Indian Community Utility Authority, Chandler, AZ; Graham County Electric Cooperative, Pima, AZ; Harquahala Valley Power District, Tonopah, AZ; Maricopa Water District, Waddell, AZ; McMullen Valley Power District, Salome, AZ; Mohave Electric Cooperative, Bullhead City, AZ; Navajo Tribal Utility Authority, Fort Defiance, AZ; Ocotillo Water & Conservation District, Ocotillo, AZ; Page Electrical Utility, Page, AZ; Queen Creek Irrigation District, Queen Creek, AZ; Roosevelt Irrigation District, Buckeye, AZ; Safford Electrical Utility, Safford, AZ; San Tan Irrigation District, Chandler Heights, AZ; Sulphur Springs Valley Electric Cooperative, Willcox, AZ; Tohono O'odham Utility Authority, Sells, AZ; Tonopah Irrigation District, Tonopah, AZ; Town of Thatcher, Thatcher, AZ; Trico Electric Cooperative, Marana, AZ; Valley Electric Association, Pahump, NV; Wellton-Mohawk Irrigation and Drainage District, Wellton, AZ.

ELECTRICAL DISTRICT NO. 3 AND NO. 4
2010-2019
TEN-YEAR TRANSMISSION PLAN

Planned Transmission Facility

TBD

- Line Designation:** ED5 to Marana Substation.
- Project Description:**
- (a) Voltage 230 kV AC
 - (b) Capacity To be determined (TBD).
 - (c) Origin ED5 Substation
 - (d) Termination Marana Substation.
 - (e) Length 28 miles
 - (f) Routing East and South from the ED5 Substation site to the Marana Substation.
- Purpose:** This line is expected to be a joint project with participation by SPPR Participants³. As a new transmission line within Pinal County, the 230 kV line will provide transmission capacity required to supplement limited transmission capacity to load serving entities in the Pinal County area and to increase access to the market and generation resources.
- Schedule:**
- (a) Construction Start TBD
 - (b) In-Service Date TBD
- Is CEC Necessary:** An application for a Certificate of Environmental Compatibility will be filed once the project scope and timing have been determined.

³ Entities participating in the SPPR Group include: Aha Macav Power Services, Mohave Valley, CA; Ak-Chin Energy Services, Tempe, AZ; Anza Electric Cooperative, Anza, CA; Aquila Irrigation District, Aquila, AZ; Arizona Electric Power Cooperative, Benson, AZ; Avra Valley Irrigation & Drainage District, Marana, AZ; Buckeye Water Conservation & Drainage Dist., Buckeye, AZ; Central AZ Water Conservation District, Phoenix, AZ; Chandler Heights Conservation & Irrigation Dist., Chandler Heights, AZ; Duncan Valley Electric Cooperative, Duncan, AZ; Electrical District No. 2, Coolidge, AZ; Electrical District No. 3, Maricopa, AZ; Electrical District No. 4, Floy, AZ; Electrical District No. 5 (Pinal County), Red Rock, AZ; Electrical District No. 5 (Maricopa County), Mesa, AZ; Electrical District No. 6, Queen Creek, AZ; Electrical District No. 7, Waddell, AZ; Electrical District No. 8, Gila Bend, AZ; Gila River Indian Community Utility Authority, Chandler, AZ; Graham County Electric Cooperative, Pima, AZ; Harquahala Valley Power District, Tonopah, AZ; Maricopa Water District, Waddell, AZ; McMullen Valley Power District, Salome, AZ; Mohave Electric Cooperative, Bullhead City, AZ; Navajo Tribal Utility Authority, Fort Defiance, AZ; Ocotillo Water & Conservation District, Ocotillo, AZ; Page Electrical Utility, Page, AZ; Queen Creek Irrigation District, Queen Creek, AZ; Roosevelt Irrigation District, Buckeye, AZ; Safford Electrical Utility, Safford, AZ; San Tan Irrigation District, Chandler Heights, AZ; Sulphur Springs Valley Electric Cooperative, Willcox, AZ; Tohono O'odham Utility Authority, Sells, AZ; Tonopah Irrigation District, Tonopah, AZ; Town of Thatcher, Thatcher, AZ; Trico Electric Cooperative, Marana, AZ; Valley Electric Association, Pahrump, NV; Wellton-Mohawk Irrigation and Drainage District, Wellton, AZ.

**ELECTRICAL DISTRICT NO. 3 AND NO. 4
2010-2019
TEN-YEAR TRANSMISSION PLAN**

Planned Transmission Facility

TBD

- Line Designation:** Pinal West to Santa Rosa/Test-Track (circuit 1 of 2).
- Project Description:**
- (a) Voltage 230 kV AC
 - (b) Capacity To be determined (TBD).
 - (c) Origin Pinal West
 - (d) Termination Santa Rosa/Test-Track
 - (e) Length Approximately 14 miles
 - (f) Routing Southeast from the Pinal West Substation site to the Santa Rosa/Test-Track station.
- Purpose:** This line is expected to be a joint project with participation by SPPR Participants⁴. As a new transmission line within Pinal County, the 230 kV line will provide transmission capacity required to supplement limited transmission capacity to load serving entities in the Pinal County area and to increase access to the market and generation resources.
- Schedule:**
- (a) Construction Start TBD
 - (b) In-Service Date TBD
- Is CEC Necessary:** An application for a Certificate of Environmental Compatibility will be filed once the project scope and timing have been determined.

⁴ Entities participating in the SPPR Group include: Aha Macay Power Services, Mohave Valley, CA; Ak-Chin Energy Services, Tempe, AZ; Anza Electric Cooperative, Anza, CA; Aquila Irrigation District, Aquila, AZ; Arizona Electric Power Cooperative, Benson, AZ; Avra Valley Irrigation & Drainage District, Marana, AZ; Buckeye Water Conservation & Drainage Dist., Buckeye, AZ; Central AZ Water Conservation District, Phoenix, AZ; Chandler Heights Conservation & Irrigation Dist., Chandler Heights, AZ; Duncan Valley Electric Cooperative, Duncan, AZ; Electrical District No. 2, Coolidge, AZ; Electrical District No. 3, Maricopa, AZ; Electrical District No. 4, Eloy, AZ; Electrical District No. 5 (Pinal County), Red Rock, AZ; Electrical District No. 5 (Maricopa County), Mesa, AZ; Electrical District No. 6, Queen Creek, AZ; Electrical District No. 7, Waddell, AZ; Electrical District No. 8, Gila Bend, AZ; Gila River Indian Community Utility Authority, Chandler, AZ; Graham County Electric Cooperative, Pima, AZ; Harquahala Valley Power District, Tonopah, AZ; Maricopa Water District, Waddell, AZ; McMullen Valley Power District, Salome, AZ; Mohave Electric Cooperative, Bullhead City, AZ; Navajo Tribal Utility Authority, Fort Defiance, AZ; Ocotillo Water & Conservation District, Ocotillo, AZ; Page Electrical Utility, Page, AZ; Queen Creek Irrigation District, Queen Creek, AZ; Roosevelt Irrigation District, Buckeye, AZ; Safford Electrical Utility, Safford, AZ; San Tan Irrigation District, Chandler Heights, AZ; Sulphur Springs Valley Electric Cooperative, Willcox, AZ; Tohono O'odham Utility Authority, Sells, AZ; Tonopah Irrigation District, Tonopah, AZ; Town of Thatcher, Thatcher, AZ; Trico Electric Cooperative, Marana, AZ; Valley Electric Association, Pahrump, NV; Wellton-Mohawk Irrigation and Drainage District, Wellton, AZ.

ELECTRICAL DISTRICT NO. 3 AND NO. 4
2010-2019
TEN-YEAR TRANSMISSION PLAN

Planned Transmission Facility

TBD

- Line Designation:** Pinal West to Santa Rosa/Test-Track (circuit 2 of 2).
- Project Description:**
- (a) Voltage 230 kV AC
 - (b) Capacity To be determined (TBD).
 - (c) Origin Pinal West Substation
 - (d) Termination Santa Rosa/Test-Track
 - (e) Length Approximately 14 miles
 - (f) Routing Southeast from the Pinal West Substation site to the Santa Rosa/Test-Track station.
- Purpose:** This line is expected to be a joint project with participation by SPPR Participants⁵. As a new transmission line within Pinal County, the 230 kV line will provide transmission capacity required to supplement limited transmission capacity to load serving entities in the Pinal County area and to increase access to the market and generation resources.
- Schedule:**
- (a) Construction Start TBD
 - (b) In-Service Date TBD
- Is CEC Necessary:** An application for a Certificate of Environmental Compatibility will be filed once the project scope and timing have been determined.

⁵ Entities participating in the SPPR Group include: Aha Macav Power Services, Mohave Valley, CA; Ak-Chin Energy Services, Tempe, AZ; Anza Electric Cooperative, Anza, CA; Aquila Irrigation District, Aquila, AZ; Arizona Electric Power Cooperative, Benson, AZ; Avra Valley Irrigation & Drainage District, Marana, AZ; Buckeye Water Conservation & Drainage Dist., Buckeye, AZ; Central AZ Water Conservation District, Phoenix, AZ; Chandler Heights Conservation & Irrigation Dist., Chandler Heights, AZ; Duncan Valley Electric Cooperative, Duncan, AZ; Electrical District No. 2, Coolidge, AZ; Electrical District No. 3, Maricopa, AZ; Electrical District No. 4, Eloy, AZ; Electrical District No. 5 (Pinal County), Red Rock, AZ; Electrical District No. 5 (Maricopa County), Mesa, AZ; Electrical District No. 6, Queen Creek, AZ; Electrical District No. 7, Waddell, AZ; Electrical District No. 8, Gila Bend, AZ; Gila River Indian Community Utility Authority, Chandler, AZ; Graham County Electric Cooperative, Pima, AZ; Harquahala Valley Power District, Tonopah, AZ; Maricopa Water District, Waddell, AZ; McMullen Valley Power District, Salome, AZ; Mohave Electric Cooperative, Bullhead City, AZ; Navajo Tribal Utility Authority, Fort Defiance, AZ; Ocotillo Water & Conservation District, Ocotillo, AZ; Page Electrical Utility, Page, AZ; Queen Creek Irrigation District, Queen Creek, AZ; Roosevelt Irrigation District, Buckeye, AZ; Safford Electrical Utility, Safford, AZ; San Tan Irrigation District, Chandler Heights, AZ; Sulphur Springs Valley Electric Cooperative, Willcox, AZ; Tohono O'odham Utility Authority, Sells, AZ; Tonopah Irrigation District, Tonopah, AZ; Town of Thatcher, Thatcher, AZ; Trico Electric Cooperative, Marana, AZ; Valley Electric Association, Pahrump, NV; Wellton-Mohawk Irrigation and Drainage District, Wellton, AZ.

ELECTRICAL DISTRICT NO. 4
2010-2019
TEN-YEAR TRANSMISSION PLAN

