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Our File Number: 43431-00001

AZ CORP COMMISSION
DOCKET CONTROL

VIA HAND DELIVERY

Arizona Corporation Commission
Utilities Division - Docket Control
1200 W. Washington Street
Phoenix, Arizona 85007

Re: *Ten Year Plan*
Docket No: *E-00000D-09-0020*

Dear Docket Control:

Enclosed for filing in the above docket is the original and thirteen (13) copies of Southern California Edison Company's 2010-2019 Ten Year Plan.

Very truly yours,

LEWIS AND ROCA LLP

Albert H. Acken
Attorneys for Southern California Edison Company

AA/mjh
Enclosures

Arizona Corporation Commission
DOCKETED

JAN 29 2010

DOCKETED BY

SOUTHERN CALIFORNIA EDISON COMPANY

2010-2019

TEN-YEAR PLAN

**Prepared for the
Arizona Corporation Commission**

January 2010

SOUTHERN CALIFORNIA EDISON COMPANY
2010-2019
TEN-YEAR PLAN

General Information

Pursuant to A.R.S. § 40-360.02, Southern California Edison (“SCE”) submits its 2010-2019 Ten-Year Plan (“Plan”) to the Arizona Corporation Commission (“Commission”). The attached Plan (contained in Attachment A) describes planned transmission facilities of 115 kV or higher voltage that SCE may construct in Arizona over the next ten-year period. Pursuant to A.R.S. § 40-360(1), underground facilities are not included.

This Plan provides tentative information that, pursuant to A.R.S. § 40-360.02(F), is subject to change. SCE has identified the following two projects that may be constructed by SCE during the ten-year period of this plan: the Arizona portion of Devers-Palo Verde No. 2 500 kV (“DPV2”), and the Moenkopi-Eldorado 500 kV Series Capacitor Upgrade Project (“Series Capacitor Upgrade”). However, given the uncertainties that presently exist, SCE cannot be certain that it will go forward with either of these projects.

As envisioned, the Arizona portion of DPV2 would be a second 500 kV transmission line between the Colorado River 500 kV Switchyard (also called Midpoint) and the new APS Delany Switchyard (formerly called Harquahala Junction, located west of Phoenix, Arizona). The path rating increases between Arizona and California associated with DPV2’s plan of service were approved in 2005 and 2006 by the Western Arizona Transmission System Task Force and the Western Electricity Coordinating Council, respectively. In November, 2009, SCE received an order from the California Public Utilities Commission (“CPUC”) allowing SCE to proceed in constructing the California portion of DPV2 upon approval of that portion of the project by the California Independent System Operator. The California portion of DPV2 starts from the existing Valley Substation (near Romoland, California), loops into the existing Devers Substation (near Palm Springs), and continues to the

Colorado River 500 kV Switchyard where it terminates. The CPUC order also stated that SCE may design and construct DPV2 to increase the transfer capability between California and Arizona; however, due to the changed nature of the DPV2 project, SCE must seek further CPUC authorization before pursuing ACC approval. Due to the reconfiguration of the DPV2 project, SCE will also confirm the path rating increase through the performance of updated path rating studies for review and approval by the Western Arizona Transmission System Task Force and the Western Electricity Coordinating Council.

The Series Capacitor Upgrade project involves SCE upgrading series capacitors on the Moenkopi-Eldorado 500 kV line. The final design of the project may not require changes to transmission lines, towers, or poles, but in an abundance of caution, SCE has included the project in this filing in case that assumption is incorrect. The Series Capacitor Upgrade Project described in the Plan will be analyzed in several stakeholder processes, including those before the Southwest Area Transmission Subregional planning group, the Western Arizona Transmission System task force, and the Western Electricity Coordinating Council.

Written descriptions of each of the above-described transmission projects are provided in Attachment A. The two maps (shown as Attachment A, Diagrams 1 and 2) provide a general illustration of line routing. They are general maps and subject to revision. Specific routing for the Arizona portion of DPV2 would be determined by the Arizona Power Plant and Transmission Line Siting Committee and the Arizona Corporation Commission when issuing a Certificate of Environmental Compatibility and through subsequent right-of-way acquisition.

Pursuant to A.R.S. § 40-360.02(c)(7), where available the submitted Plan should also include technical study results and power flow stability analyses showing the effect in the current Arizona electric transmission system for the project identified. The latest available study that has been performed for the DPV2 Project was provided in Docket No. E-00000D-07-0376 Fifth Biennial Transmission Assessment 2008-2017.

ATTACHMENT A

**SOUTHERN CALIFORNIA EDISON COMPANY
2010-2019
TEN-YEAR PLAN**

Planned Transmission Project Descriptions

SOUTHERN CALIFORNIA EDISON COMPANY
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<u>Line Description</u>	Arizona portion of Devers-Palo Verde No. 2
<u>Size</u>	
a) Voltage	500 kV AC
b) Capacity	1200 MW
c) Point of Origin	Delany 500 kV Switchyard (or alternatively Harquahala Generating Station)
d) Intermediate Point	none
e) Point of Termination	Colorado River 500 kV Switchyard
f) Length	104 miles
<u>Routing</u>	The proposed line route between Colorado River and Delany parallels SCE's existing Palo Verde-Devers 500 kV line.
<u>Purpose</u>	This 500 kV line will increase transfer capability between Arizona and Southern California and provide accessibility to markets for solar renewable resources in western Arizona.
<u>Date</u>	
a) Estimated Construction Start	TBD
b) Estimated In-Service	Approximately two years after construction start

**SOUTHERN CALIFORNIA EDISON COMPANY
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Line Description Series Capacitor Upgrade Project on the Moenkopi-Eldorado 500 kV line

Size

- g) Voltage 500 kV AC
- h) Capacity To be determined
- i) Point of Origin Moenkopi Substation
- j) Intermediate Point None
- k) Point of Termination Eldorado Substation
- l) Length N/A

Routing

The upgraded series capacitors will replace the existing series capacitors in the 500 kV line without a change of location.

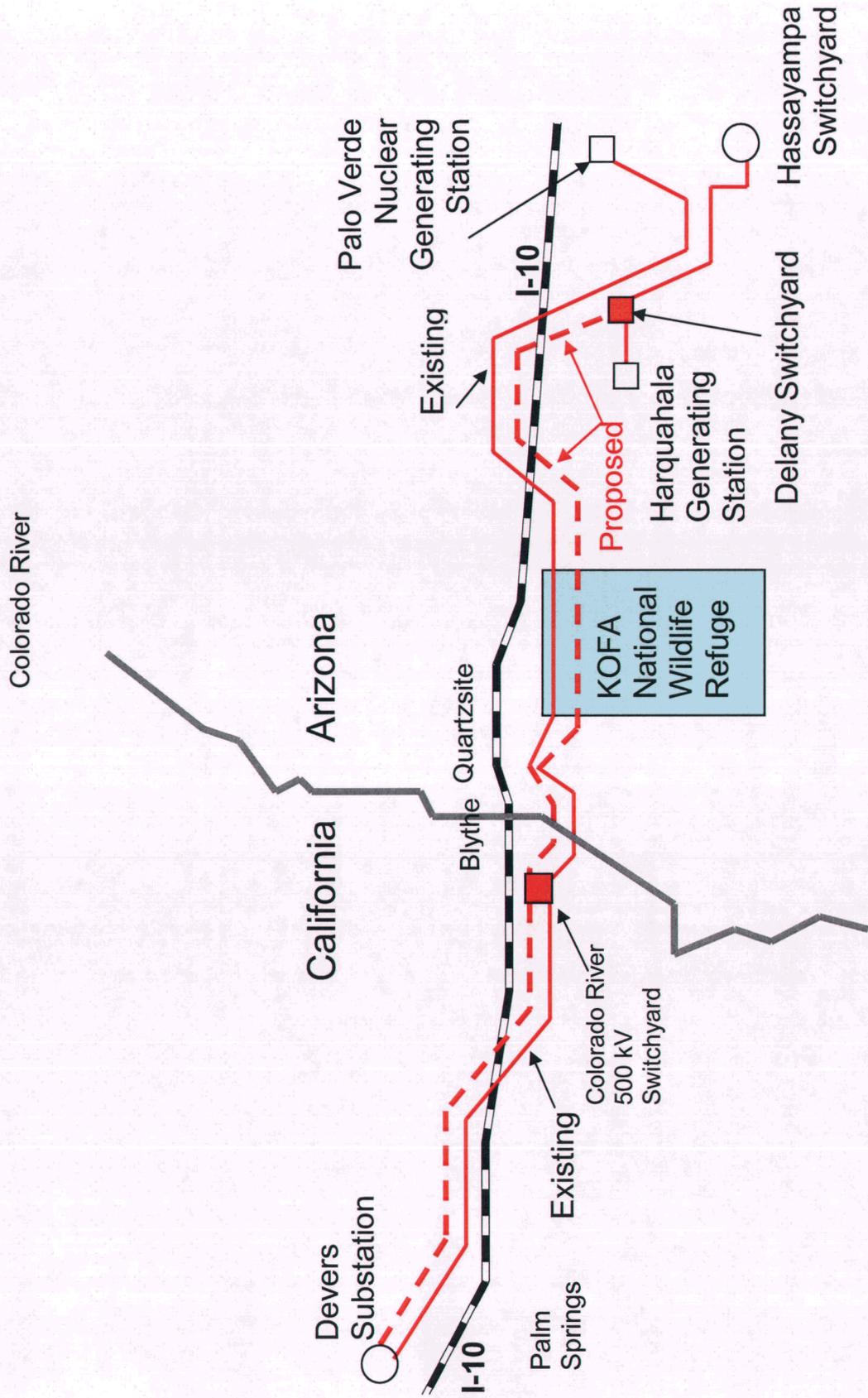
Purpose

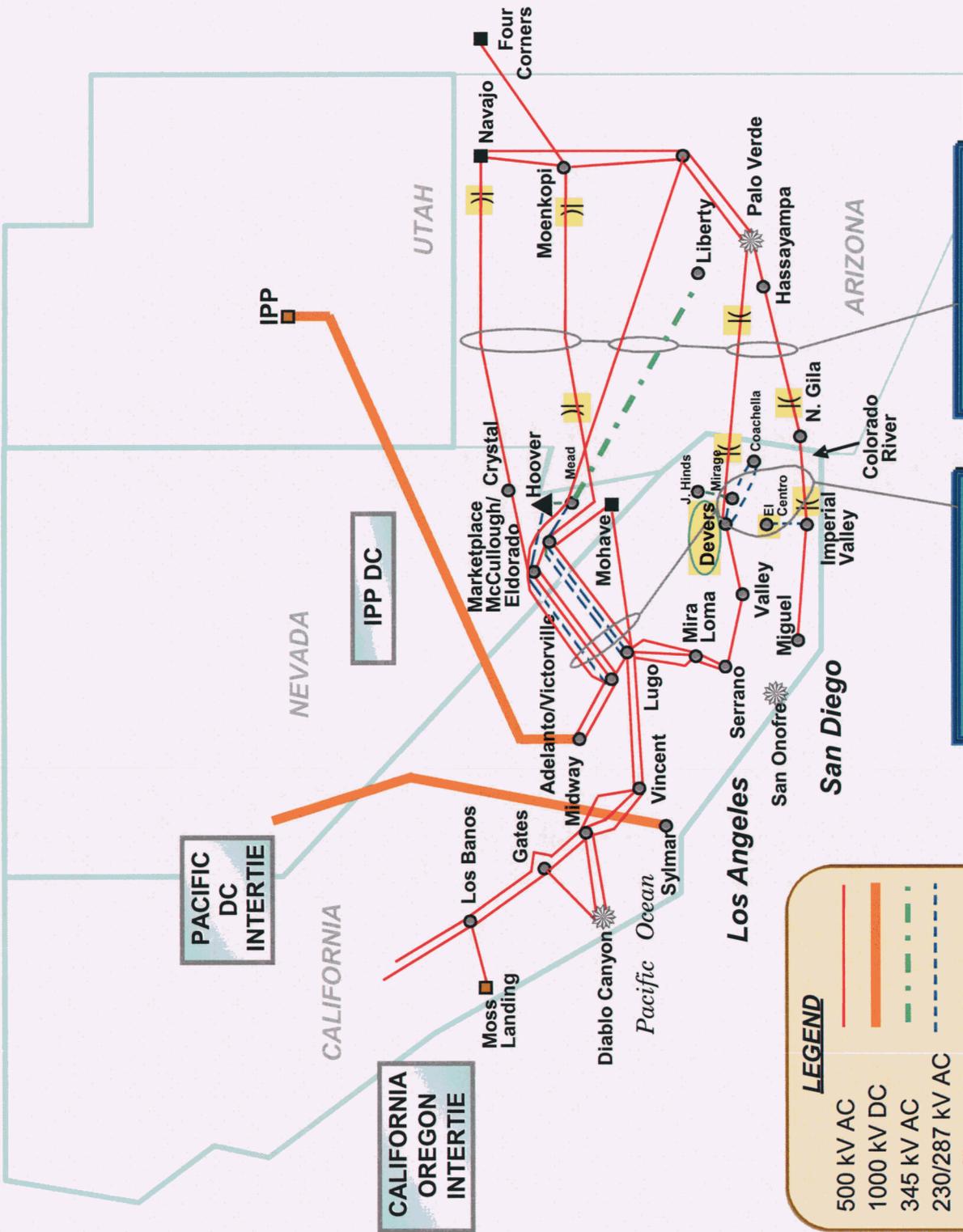
The upgrading of the series capacitors allows for the increase in transfer capability between Arizona, Southern Nevada, and Southern California for the integration of renewables.

Date

- c) Estimated Construction Start TBD
- d) Estimated In-Service Approximately one year after construction start

Diagram 1 Devers - Palo Verde No. 2





EAST-OF-THE-RIVER PATH (EOR)

WEST-OF-THE-RIVER PATH (WOR)

LEGEND

- 500 kV AC
- 1000 kV DC
- 345 kV AC
- 230/287 kV AC
- Coal Power Plants
- Hydro Power Plant
- Nuclear Power Plants
- Thermal Power Plants
- Substations
- Capacitors

Note: Only Some Power Plants Shown