0000054844

Docket No.:
L-0000A-06-0295-00130

SUPPLEMENTAL PACKET

APPLICATION FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY

DEVERS-PALO VERDE NO.2 TRANSMISSION LINE PROJECT

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DOCUMENT CONTROL

Prepared for:

Arizona Power Plant and Transmission Line Siting Committee

Submitted by:

Southern California Edison Company

SOUTHERN CALIFORNIA EDISON
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CD of virtual tours in pocket on back cover

1

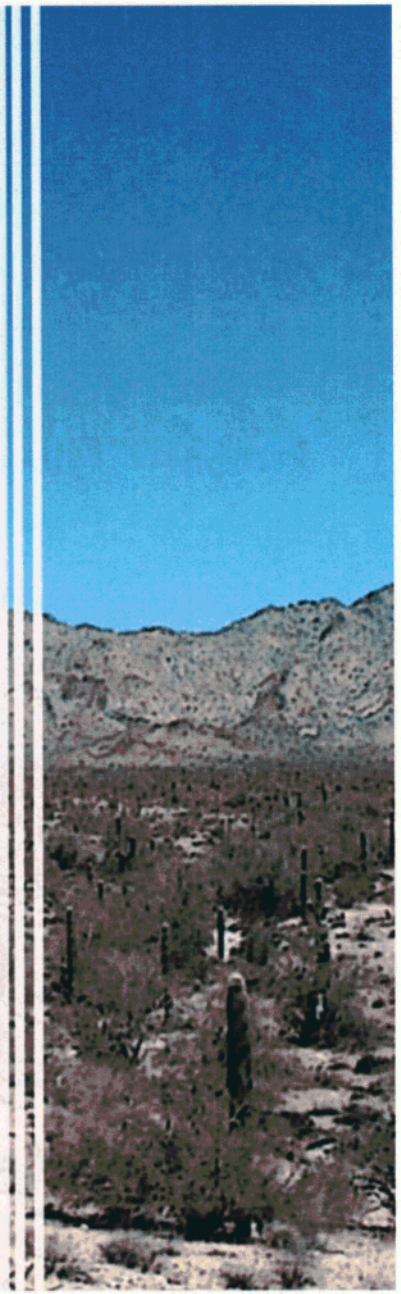
Devers-Palo Verde No. 2
Transmission Line Project

Application for a Certificate Of Environmental Compatibility Case No. 130

Prepared for

Arizona Power Plant and Transmission Line Siting Committee

June 26 and 27, 2006



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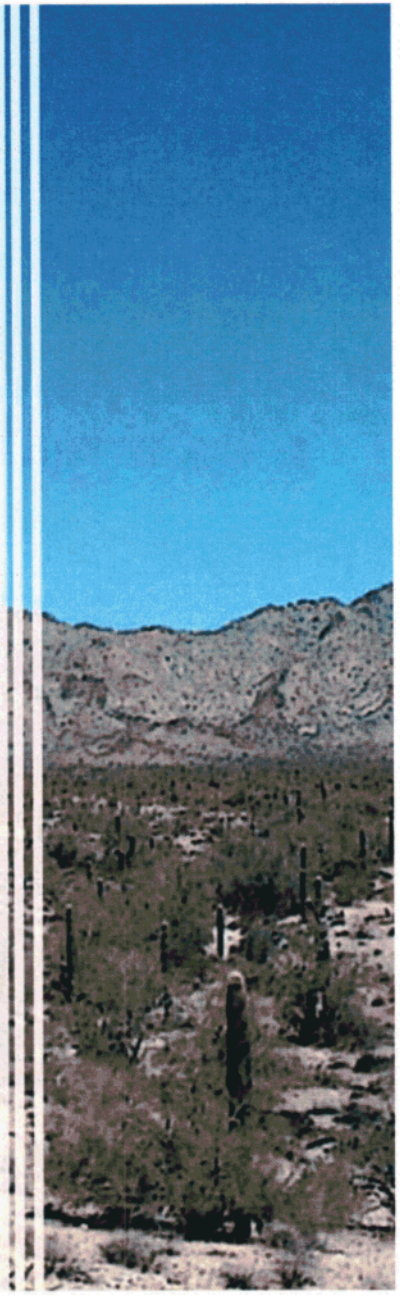
INTRODUCTION

- Project Description
- Public Outreach
- Environmental Issues
- Need and Benefits



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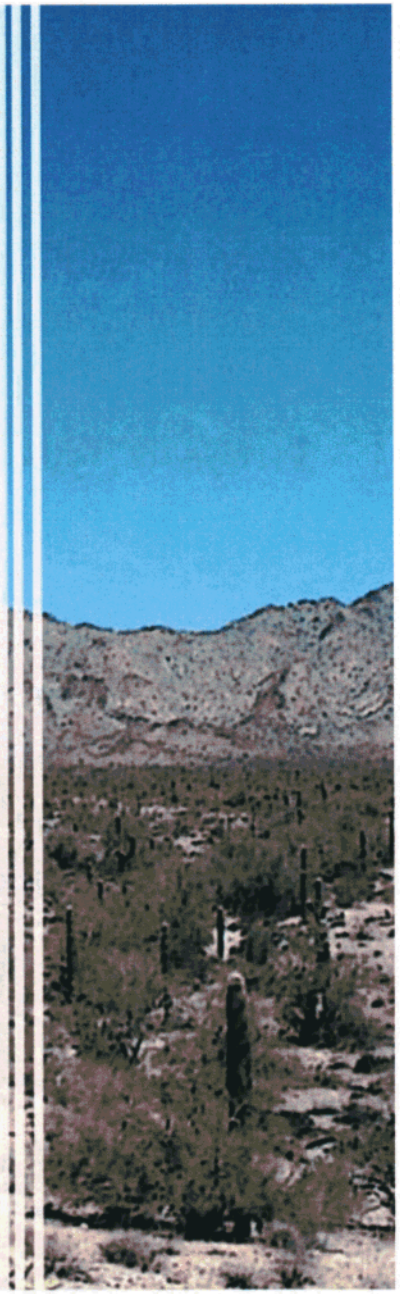
ARIZONA BENEFITS

- Operational benefits
- Economic benefits



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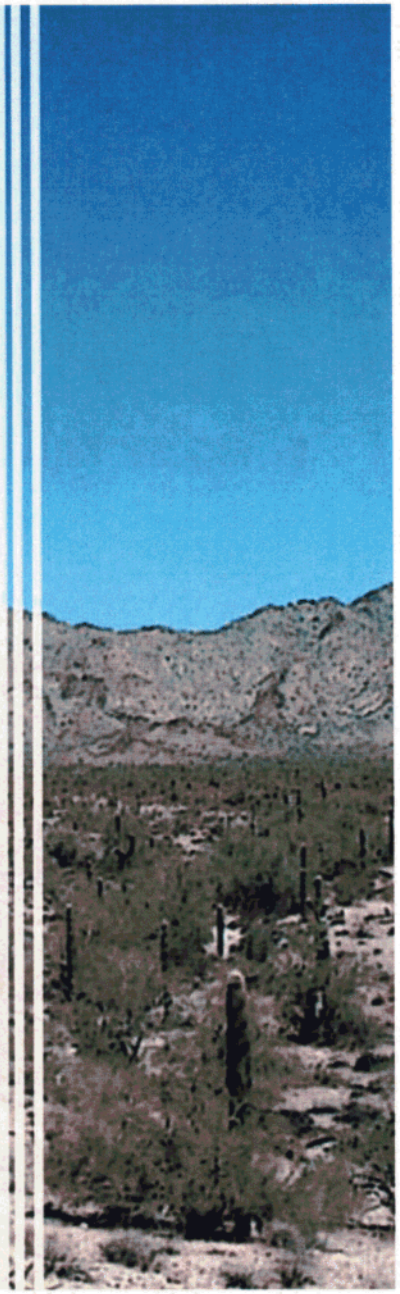
WITNESSES

MARCO AHUMADA

MICHAEL SIEGEL

DANA CABBELL

JOHANNES PFEIFENBERGER



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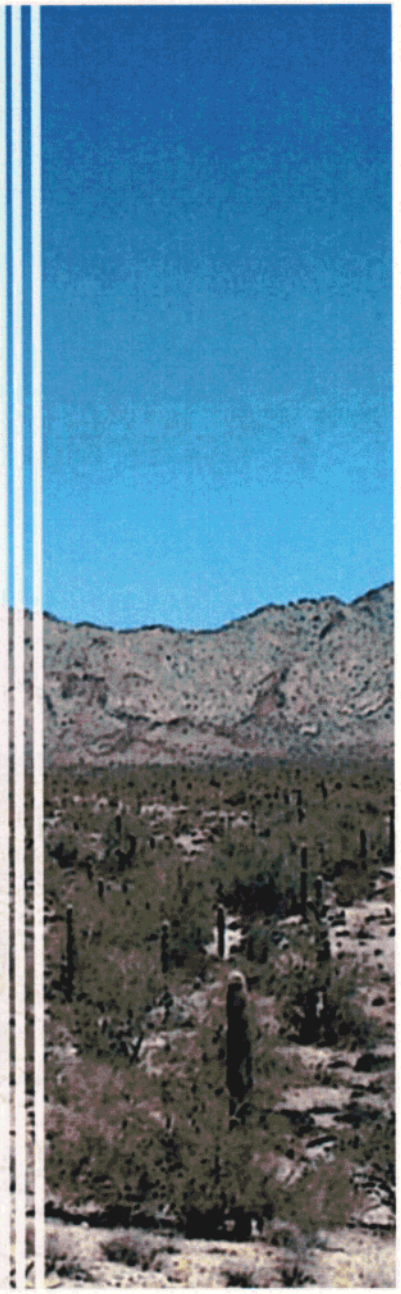
EXHIBITS

A-1 APPLICATION

A-2 SUPPLEMENT

A-3 DRAFT EIR/EIS



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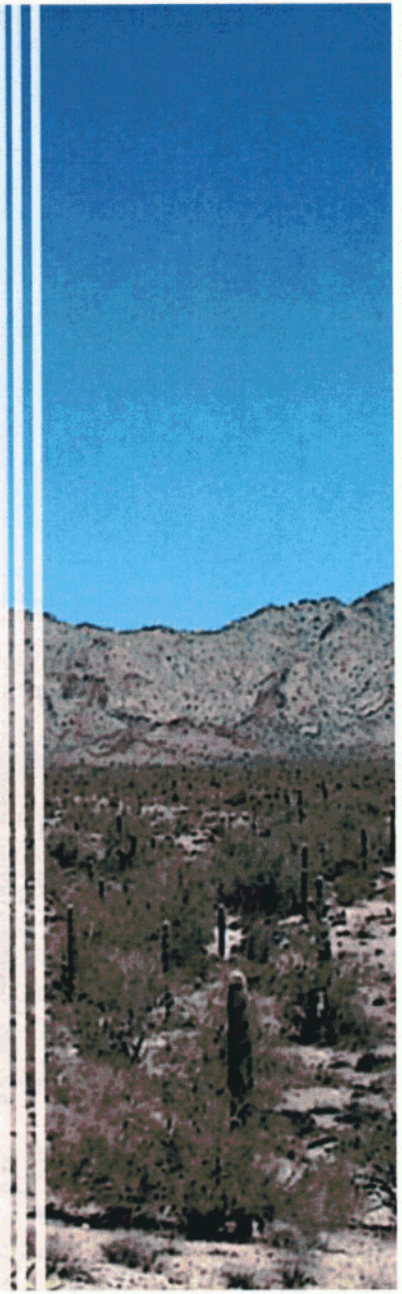

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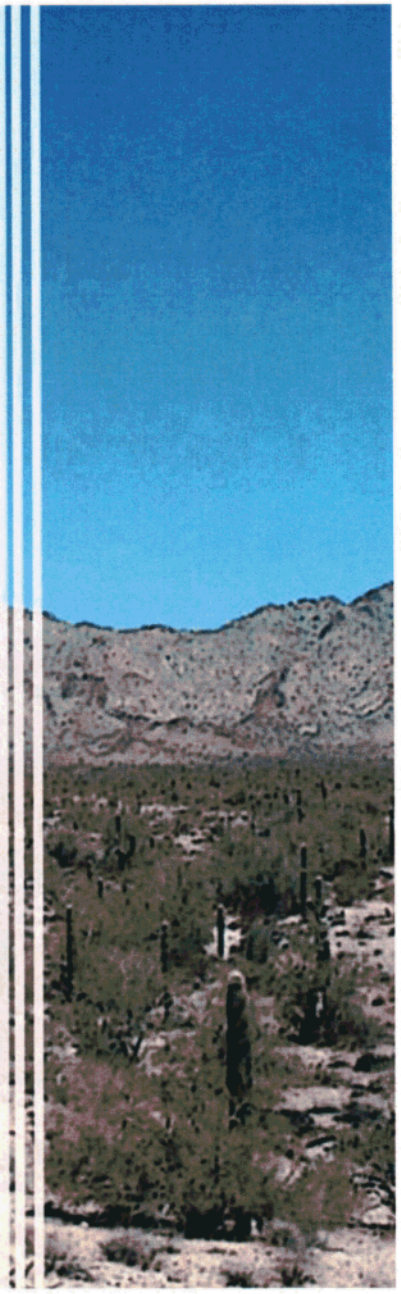
MARCO AHUMADA

Southern California Edison
Project Manager
Project Management
Organization



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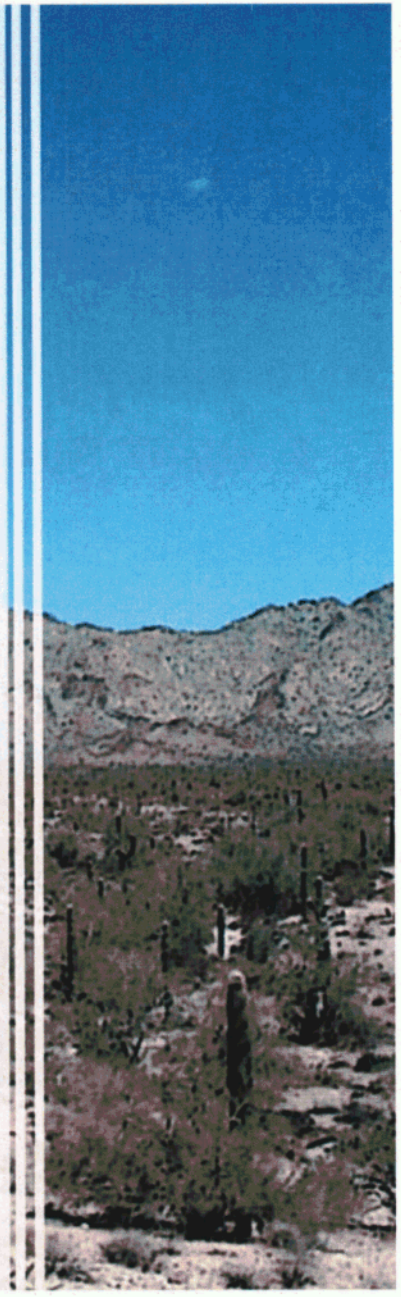
WITNESS BACKGROUND

- SCE Project Manager
  - Responsible for transmission and substation projects
- Education
  - Bachelor of Science in Systems Engineering from University of Arizona



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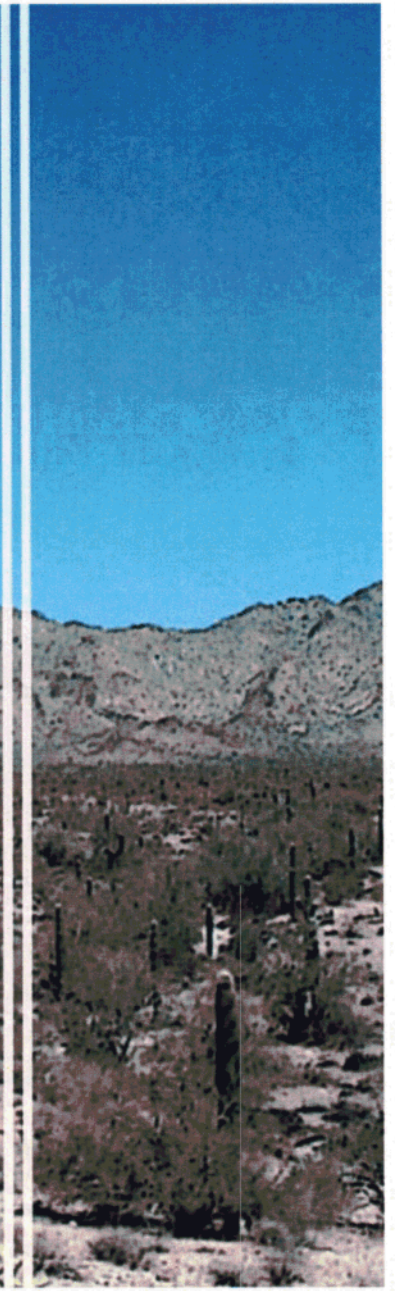
WITNESS BACKGROUND
(continued)

- Professional Background
  - SCE Project Manager – 6 years. Transmission, substation, and distribution projects
  - SCE Engineer – 10 years. Nuclear and electric distribution engineering
  - Houston Lighting & Power Engineer – South Texas Nuclear Generating Station
  - U.S. Naval Officer – Nuclear submarines



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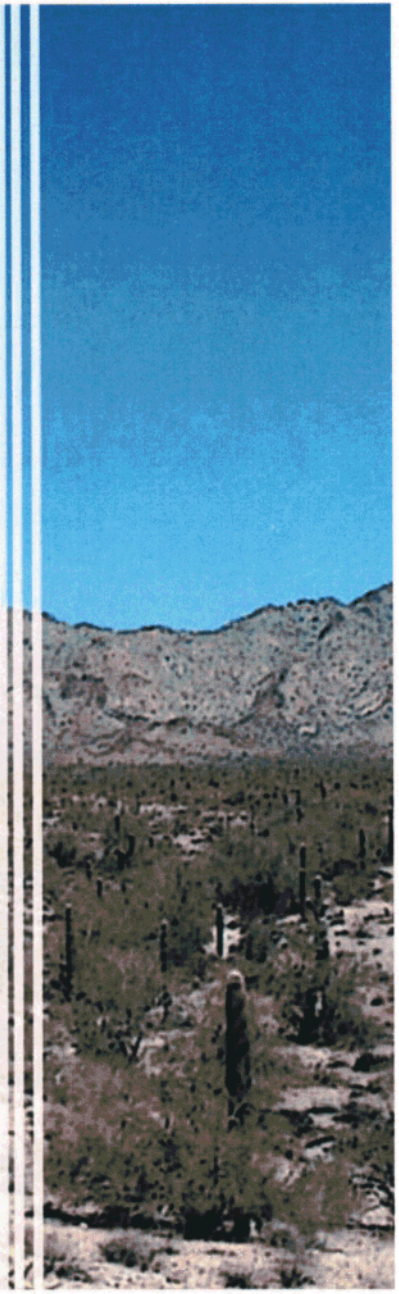
OUTLINE OF TESTIMONY

- Project description
- Public outreach
- Project need and benefits



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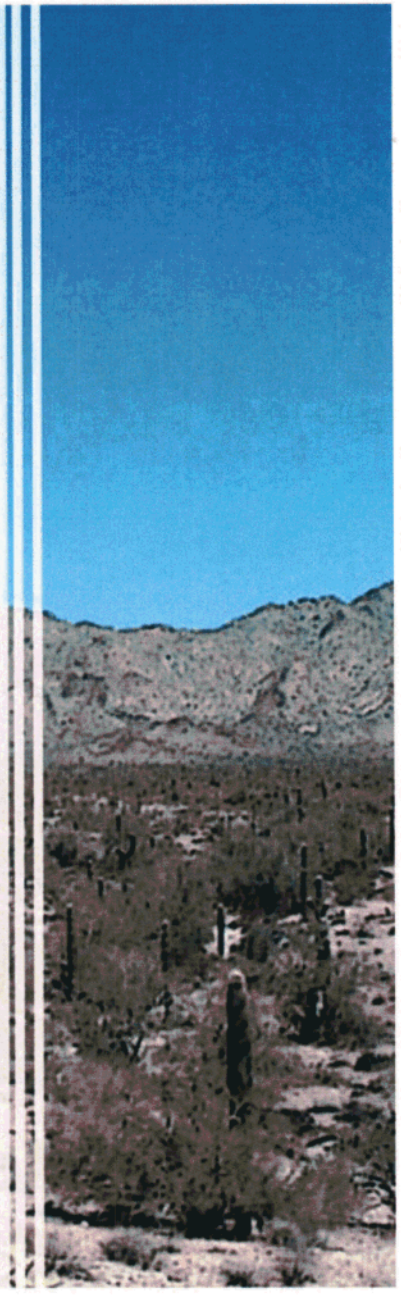
SOUTHERN CALIFORNIA EDISON

- SCE serves a population of more than 13 million in a 50,000-square-mile service area.

- SCE owns 16% of the Palo Verde Nuclear Generating Station.

- SCE paid $10.3 million in Arizona property taxes in 2005.



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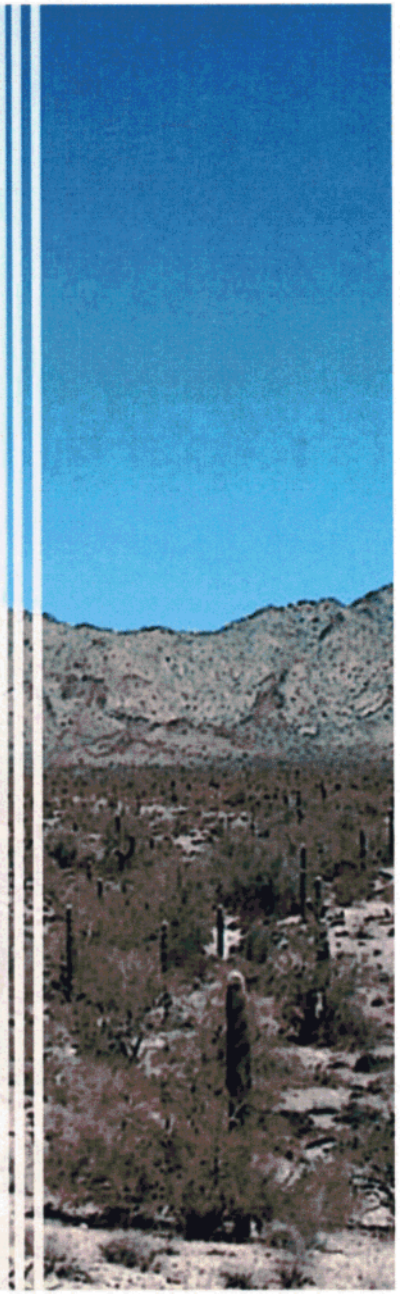
INTEGRATED PLANNING

- SCE estimates that between 16% and 17% of the power it purchases and delivers to customers in 2006 will be from renewable sources

- Between 2006 and 2008, SCE will spend over $1 billion on energy efficiency programs, self-generation incentives, and solar energy programs

- Recent and planned California generation



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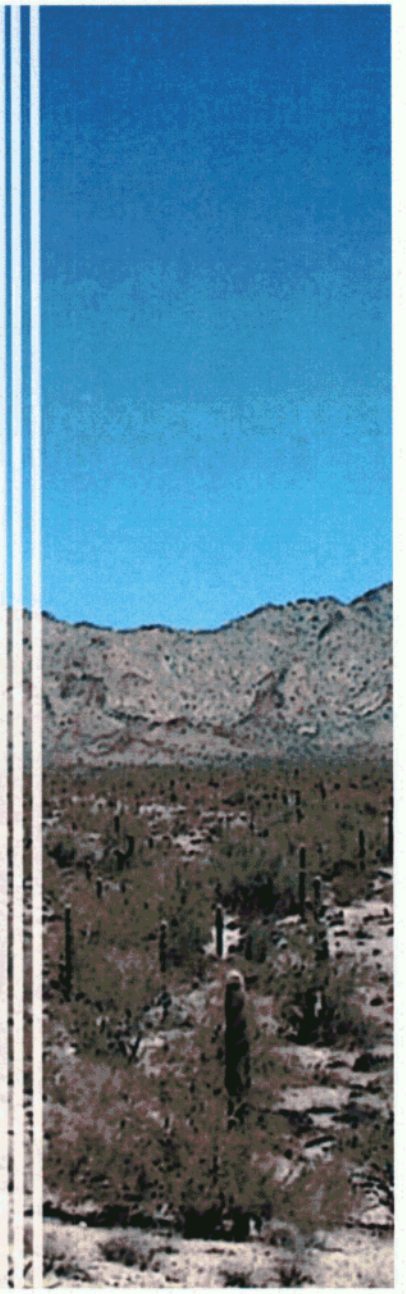
PROJECT HISTORY

- DPV1 - CEC issued 1978, Operational in 1982
- DPV2 line proposed in early 1980s
  - BLM granted Right-of-Way in 1989
  - USFWS issued Right-of-Way Compatibility in 1989 (for KOFA)
  - Arizona CEC application withdrawn due to California regulatory uncertainty



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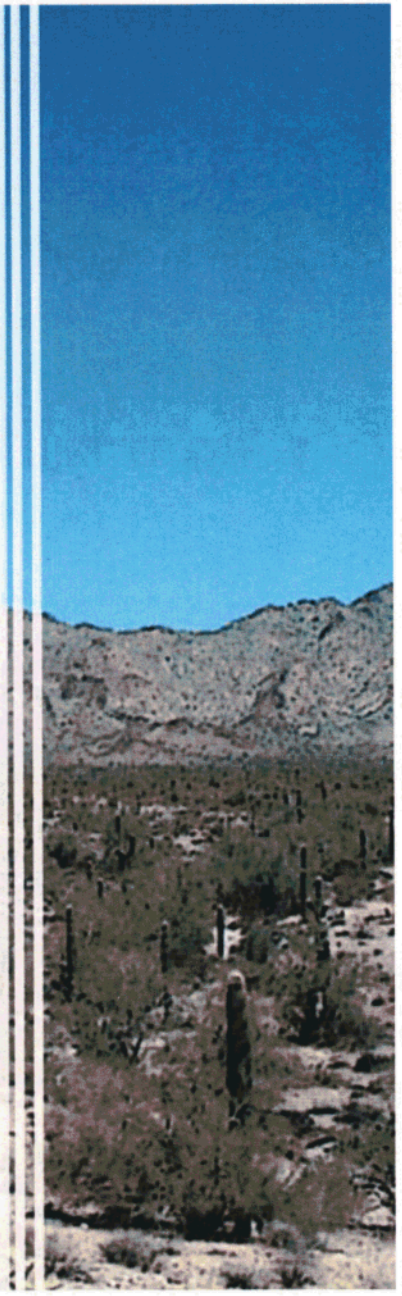
PROJECT HISTORY
(continued)

- Project included in ACC 10 year plans
- Utility corridor designated in BLM land management plans



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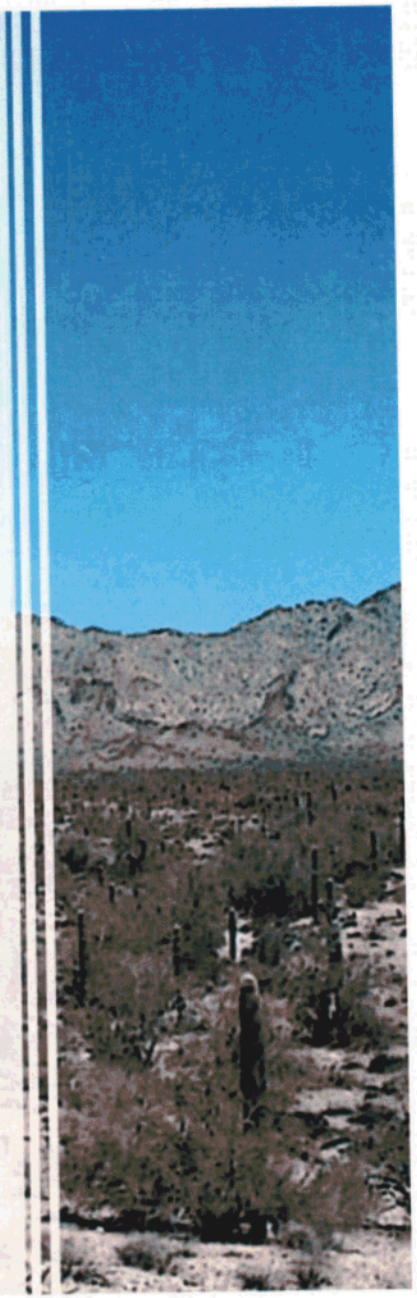
CURRENT STATUS

- February 24, 2005 CAISO Report
- April 11, 2005 CPUC Application
- May 20, 2005 BLM Right-of-Way Grant Amendment Application
- July 25, 2005 WATS approval
- August 25, 2005 WECC approval
- May 1, 2006 ACC Application
- May 4, 2006 Draft EIR/EIS



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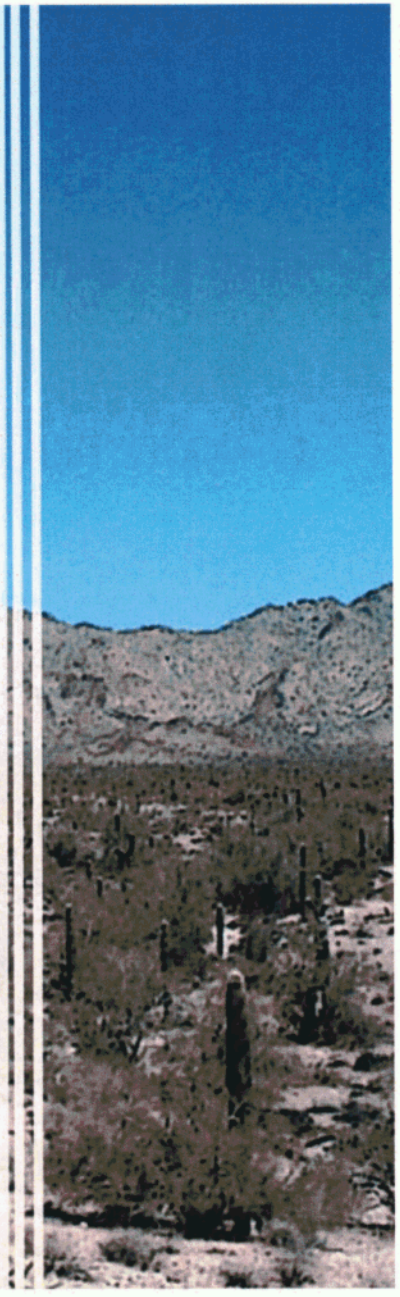
PROJECT DESCRIPTION
PROPOSED ROUTE

- Devers Palo Verde No. 1
- BLM Utility Corridor
- Harquahala Generating Station Switchyard
- Harquahala Junction Switchyard
- I-10



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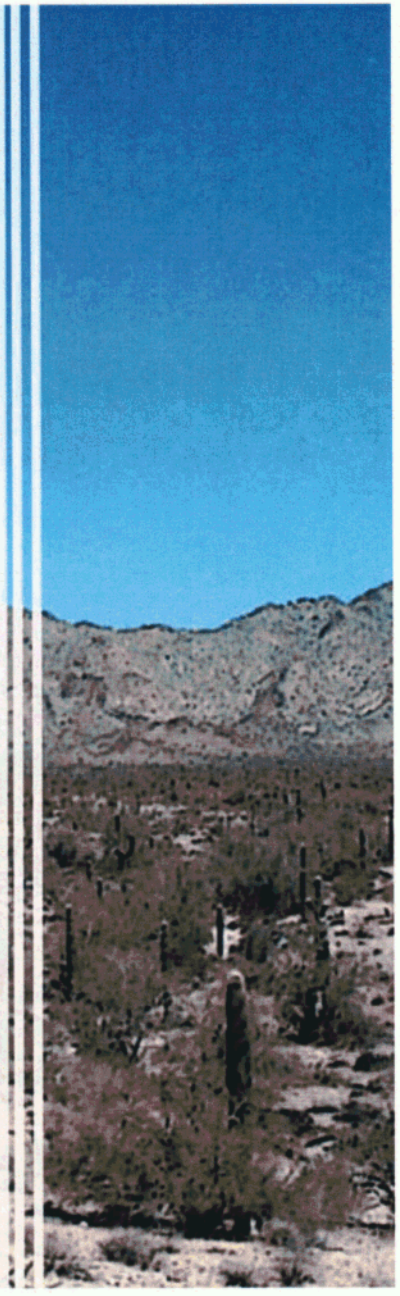
PROJECT DESCRIPTION
PROPOSED ROUTE
(continued)

- CAP
- El Paso Natural Gas Pipeline
- KOFA
- Copper Bottom Pass
- Colorado River



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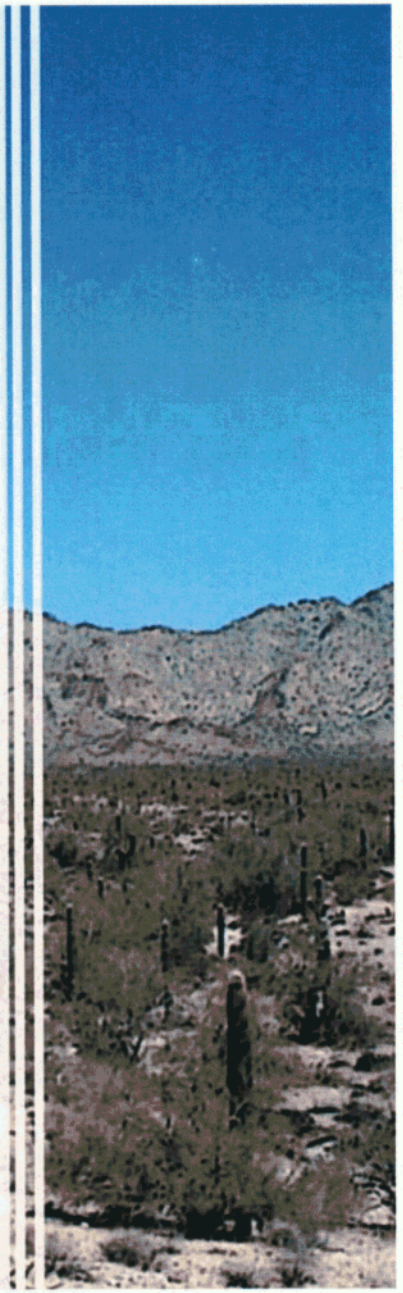
SUBALTERNATE ROUTES

- Harquahala-West subalternate
- Palo Verde subalternate



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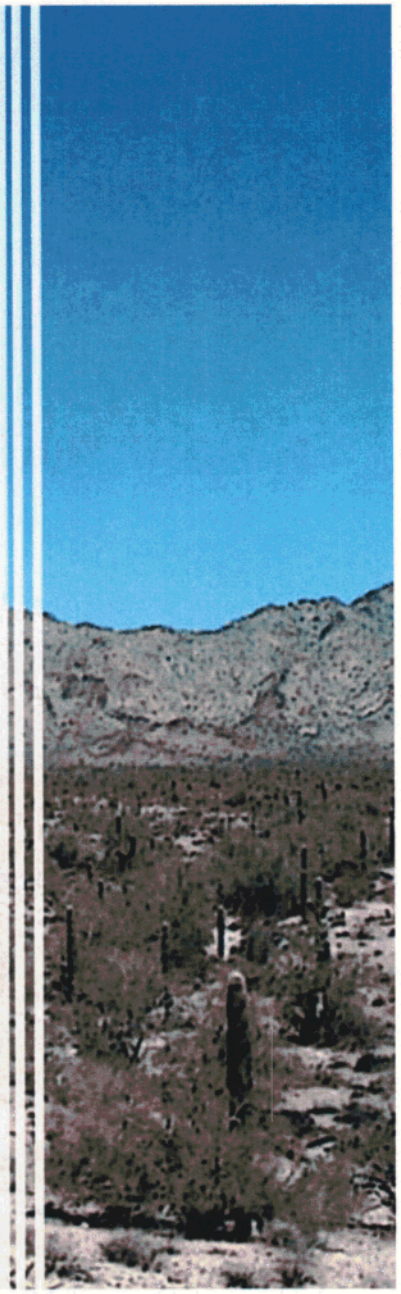
PROJECT DESCRIPTION
FACILITIES

- Transmission Structures
  - Monopole (TSP) and lattice steel structures
  - Existing double-circuit structures
  - Typical heights
  - Typical spans
  - Materials
- Additional Facilities
  - Modifications to Harquahala Generating Station Switchyard
  - Series capacitor bank



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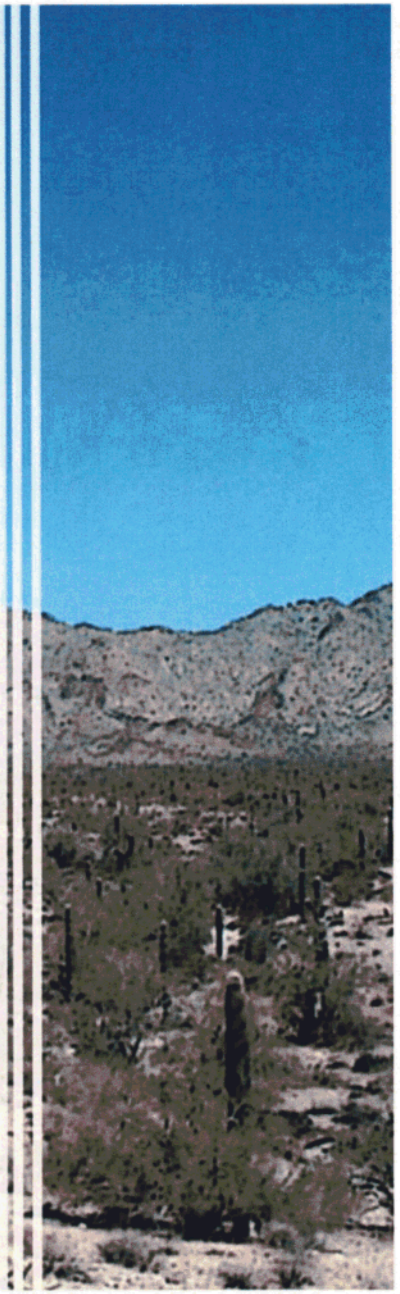
SCHEDULE

- Regulatory approvals: late 2006
- Right-of-Way acquisition: 2007-2008
- Begin construction: 2007
- Complete construction: 2009



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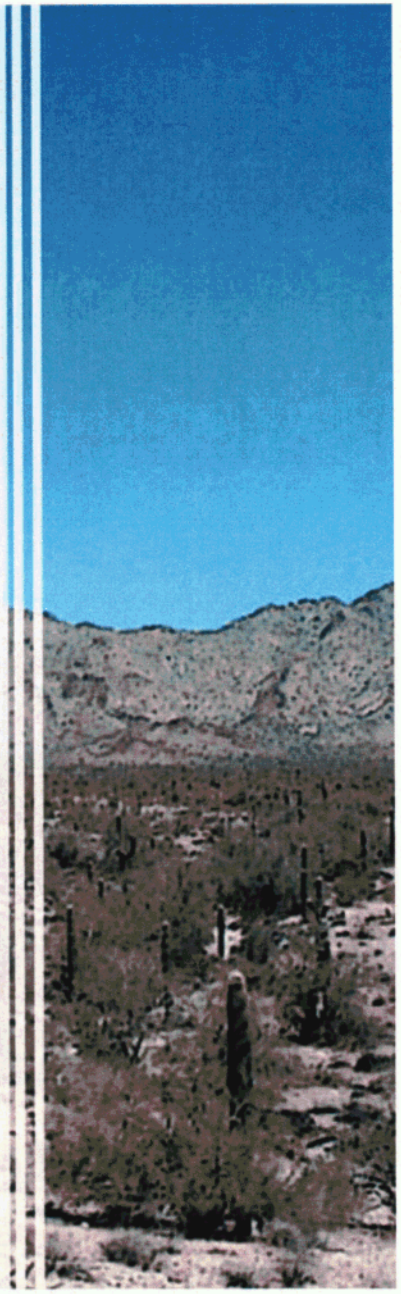
PROJECT COST ESTIMATES
JUNE 2006

Route Description	Length of Route in Arizona (miles)	Construction Cost (millions)	Right-of-Way Cost (millions)	Total Cost (millions)
Proposed Devers-Harquahala Route	102	$135	$3	$138
Harquahala-West Subalternate Route	88	$122	$3	$125
Palo Verde Subalternate Route	112	$146	$2	$148



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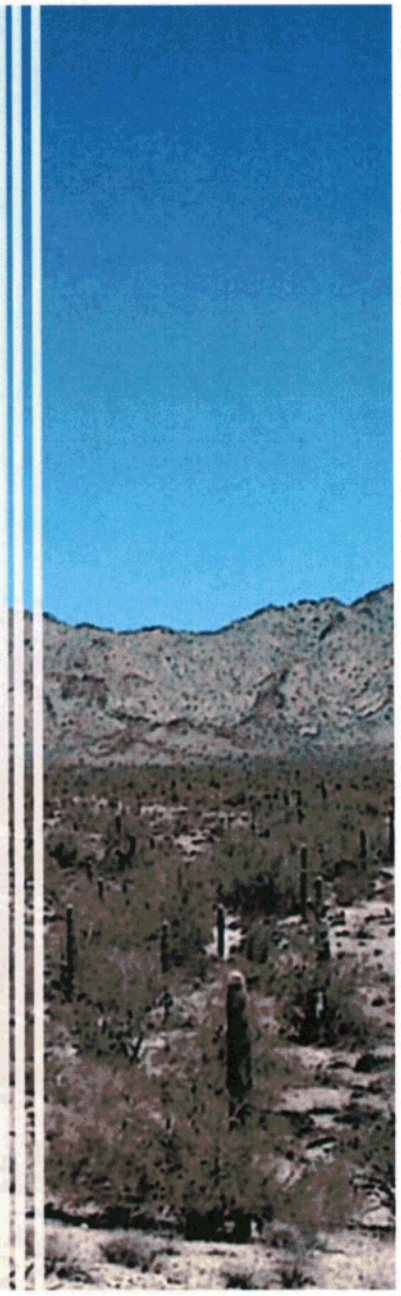
PUBLIC OUTREACH

- Fact sheets
  - October 2003
  - August 2004
  - April 2006
- Public and private stakeholder meetings
- Print media
- Public open house



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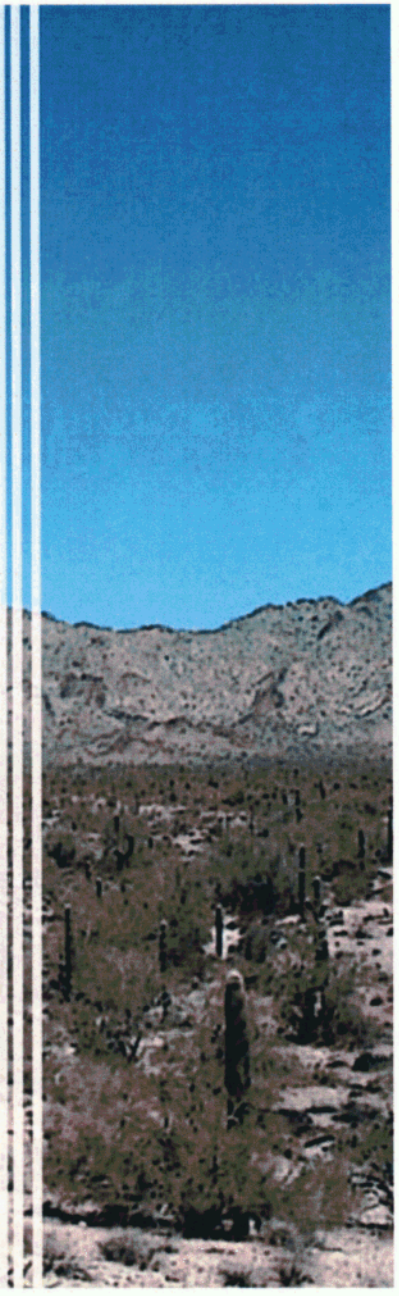
PUBLIC OUTREACH
(continued)

- Websites
- Telephone information line
- BLM notices and public meetings
- Exhibit H letters
- Publication of the Notice of Hearing
- Signs



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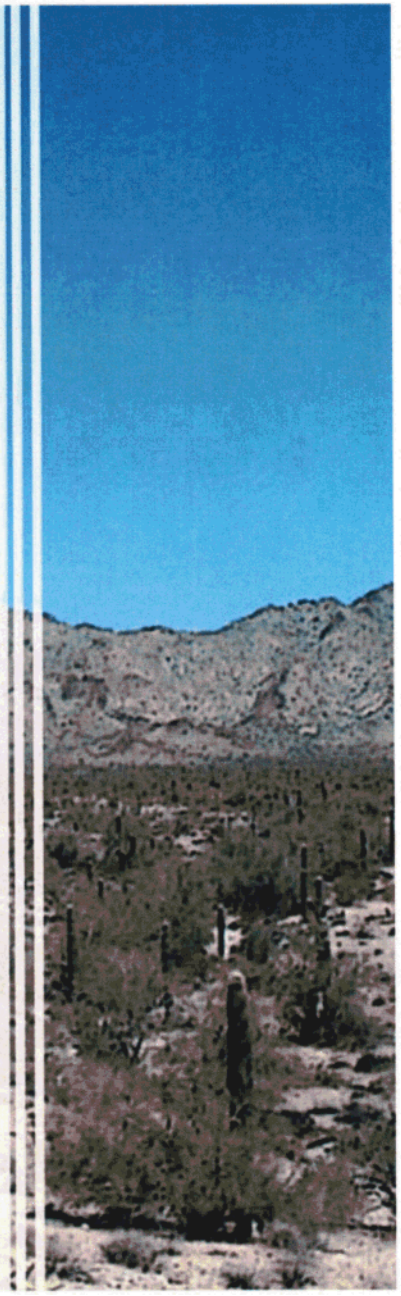
PROJECT NEED

- Brings needed cost-effective power to California citizens
- Strengthens the southwestern transmission system



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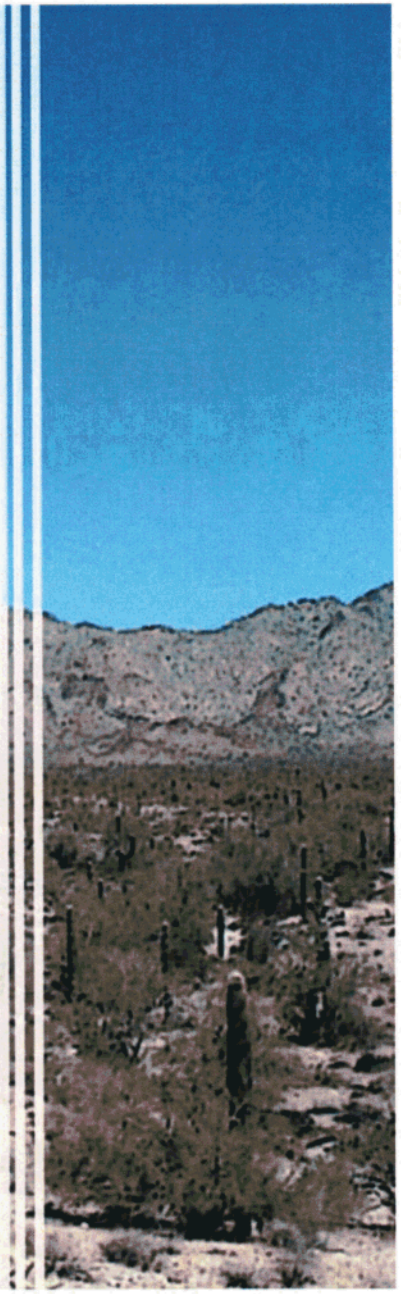
ARIZONA BENEFITS

- Operational Benefits
  - Dana Cabbell
- Economic Benefits
  - Johannes Pfeifenberger



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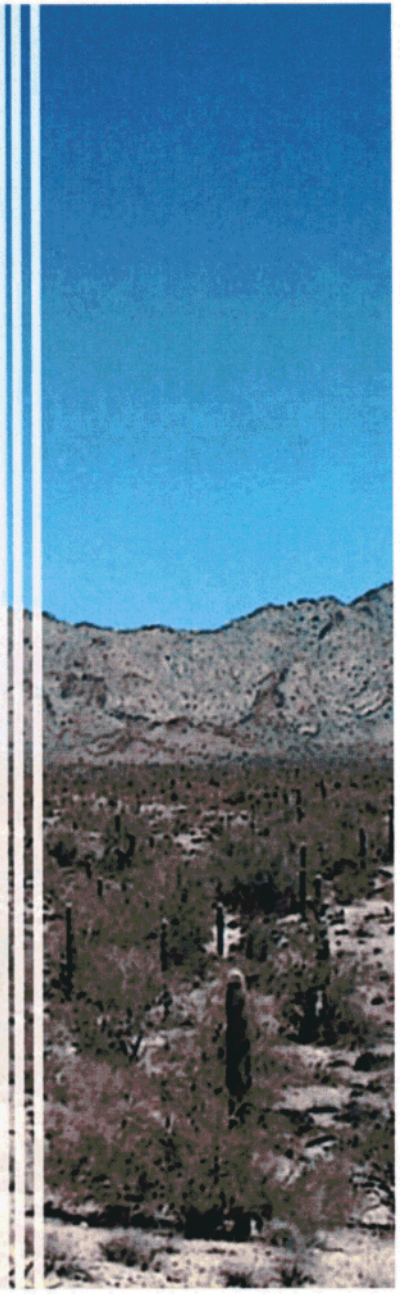

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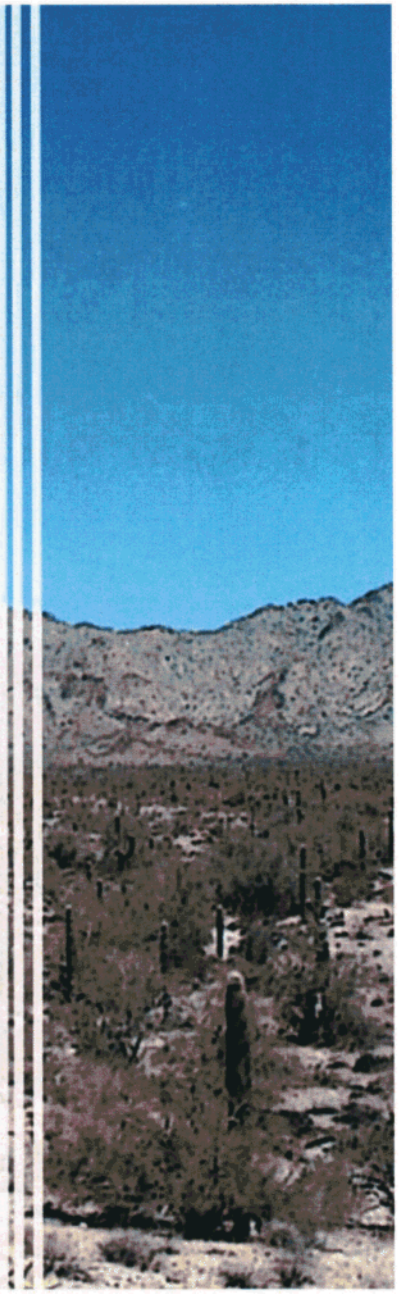
MICHAEL S. SIEGEL, AICP

Environmental Planning Group (EPG)
Project Manager



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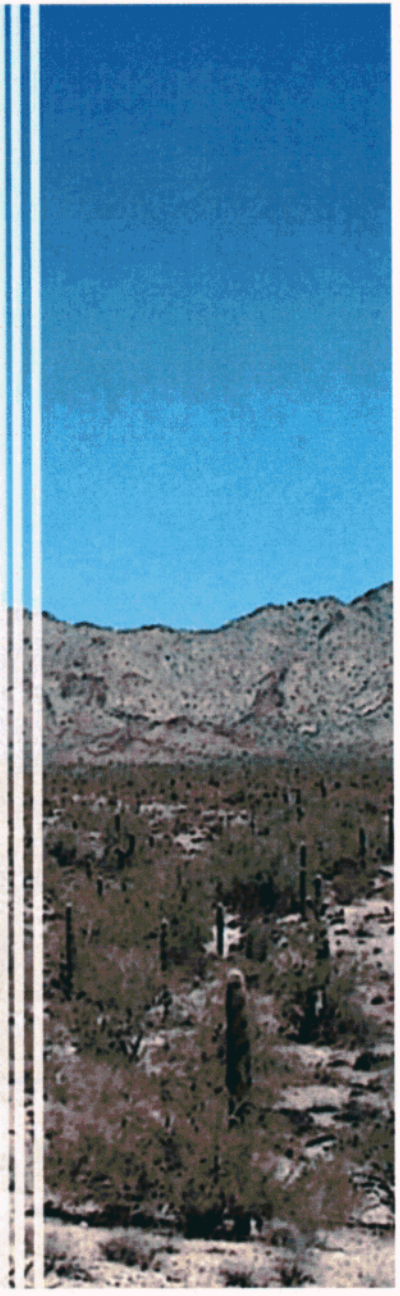
WITNESS BACKGROUND

- Education
  - Masters in City and Regional Planning, Illinois Institute of Technology
  - BA, University of California, Los Angeles
- 28 years of experience in environmental planning and electrical facility siting
- Principal of EPG since 1999
- Previously testified before the Siting Committee in 10 cases
  - Case Nos. 88, 92, 95, 102, 108, 110, 111, 112, 113, 118



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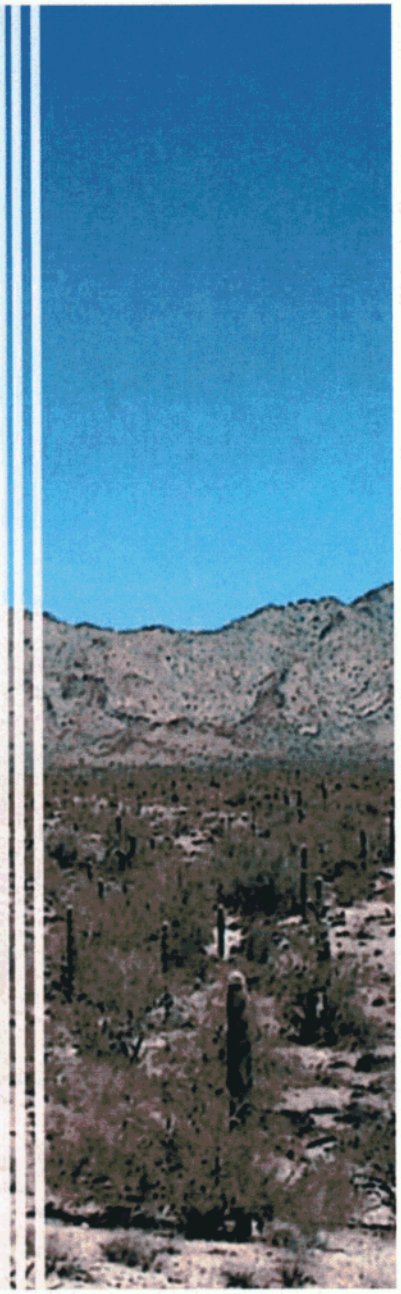
ROLE IN DPV2 PROJECT

- EPG's project manager
- EPG's lead consultant for preparation of CEC application



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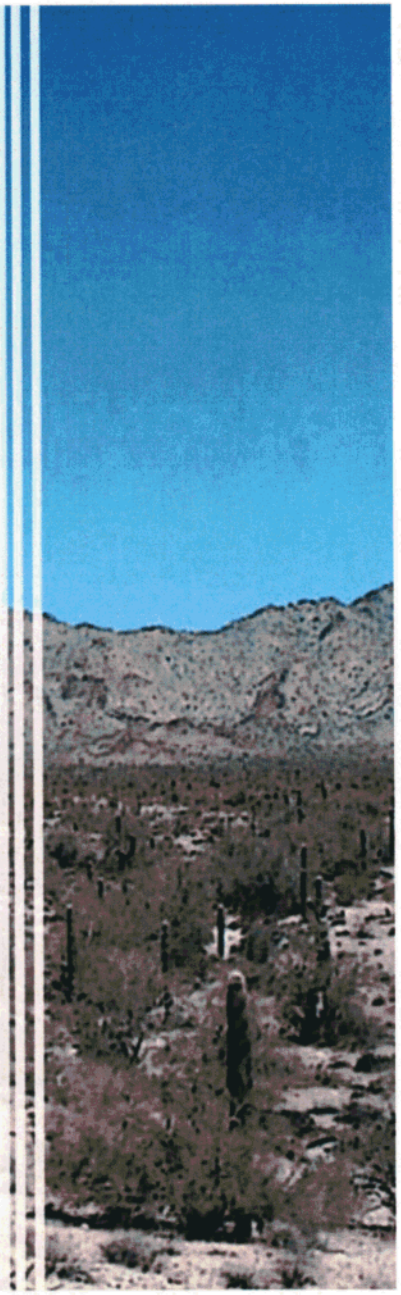
SCOPE OF TESTIMONY

- Overview of the environmental studies
- Virtual tour of proposed and alternative routes
- Results of environmental studies and opinion of environmental compatibility



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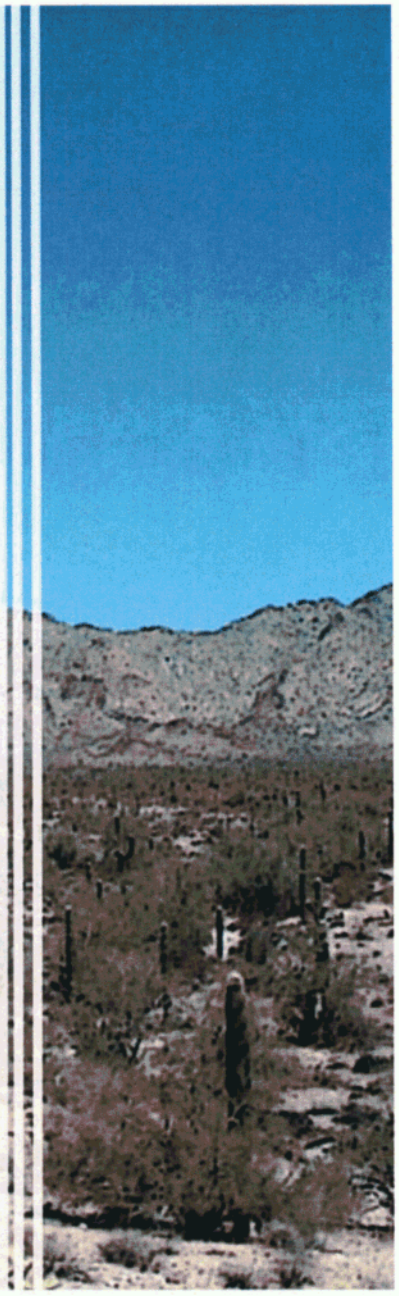
OVERVIEW OF ENVIRONMENTAL STUDIES

- Reviewed previous studies
- Collected data; contacted agencies and public
- Conducted field surveys for biological, cultural, land use, and visual resources
- Conducted studies for proposed and alternate routes
- Assisted SCE to prepare the Proponent's Environmental Assessment (PEA)



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PREVIOUS ENVIRONMENTAL IMPACT STATEMENTS (EIS)

- Devers-Palo Verde No. 1 (DPV1) EIS – 1977
- Supplemental EIS for DPV2 – 1988
- Record of Decision and ROW Granted for DPV2 – 1989

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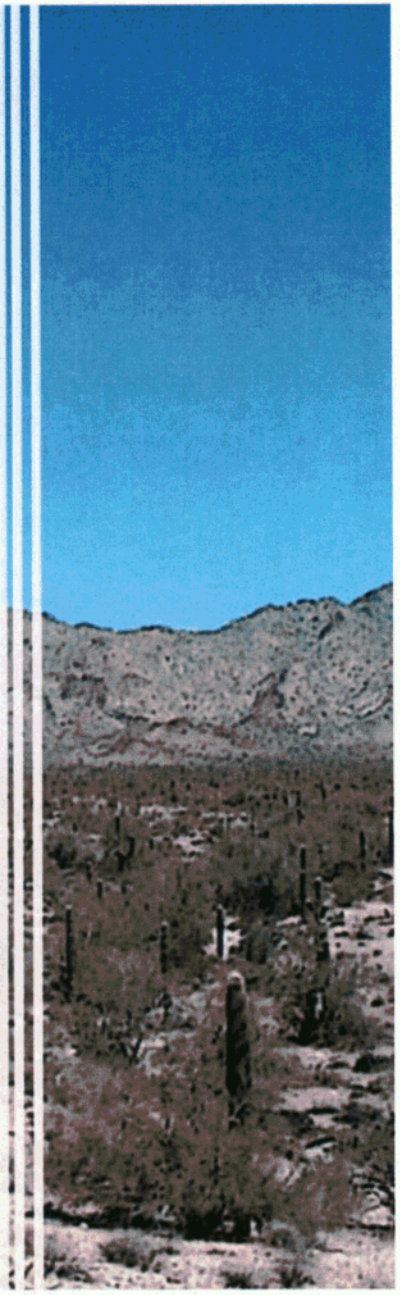
DRAFT ENVIRONMENTAL IMPACT REPORT/ENVIRONMENTAL IMPACT STATEMENT (EIR/EIS) – May 4, 2006

- Joint state (EIR) and federal (EIS) environmental review process

- EIR: CPUC is lead agency for CEQA; grants Certificate of Public Convenience and Necessity (CPCN) for State of California



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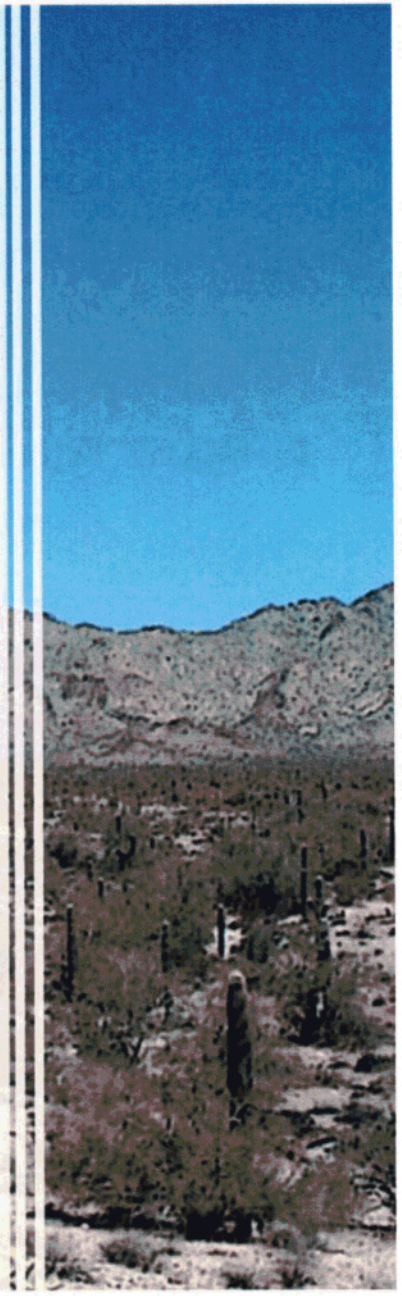
DRAFT EIR/EIS – May 4, 2006
(continued)

- EIS: BLM is lead federal agency for National Environmental Policy Act (NEPA); issues Record of Decision and Amended Right-of-Way Grant (Arizona and California)



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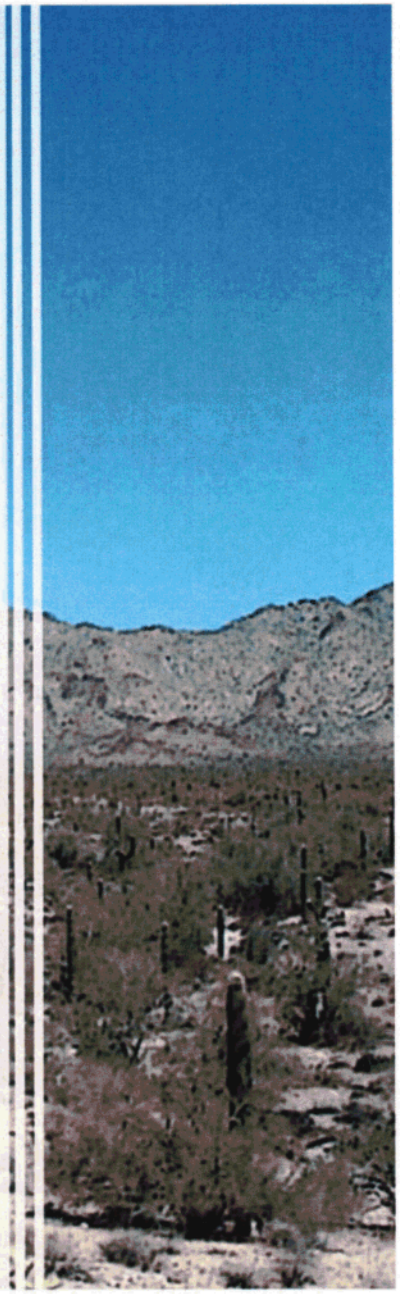
DEIR/EIS CONCLUSIONS: DEVERS-HARQUAHALA Arizona Segment

- Applicant's proposed Devers-Harquahala 500kV route, with Harquahala Junction Switchyard, is agency preferred and environmentally preferred
- Palo Verde Alternative: added length, no other significant impacts
- Harquahala-West: highest impacts



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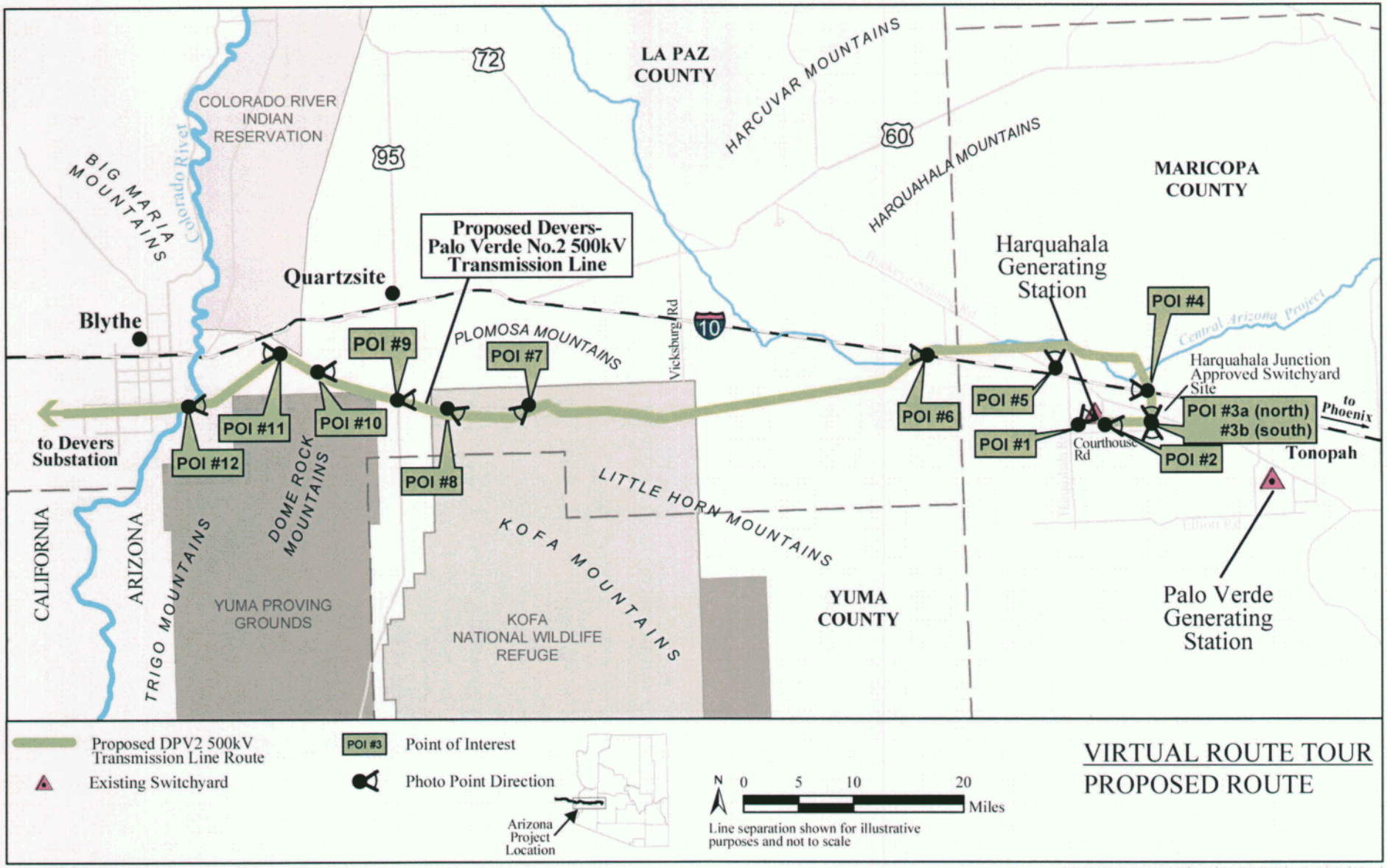

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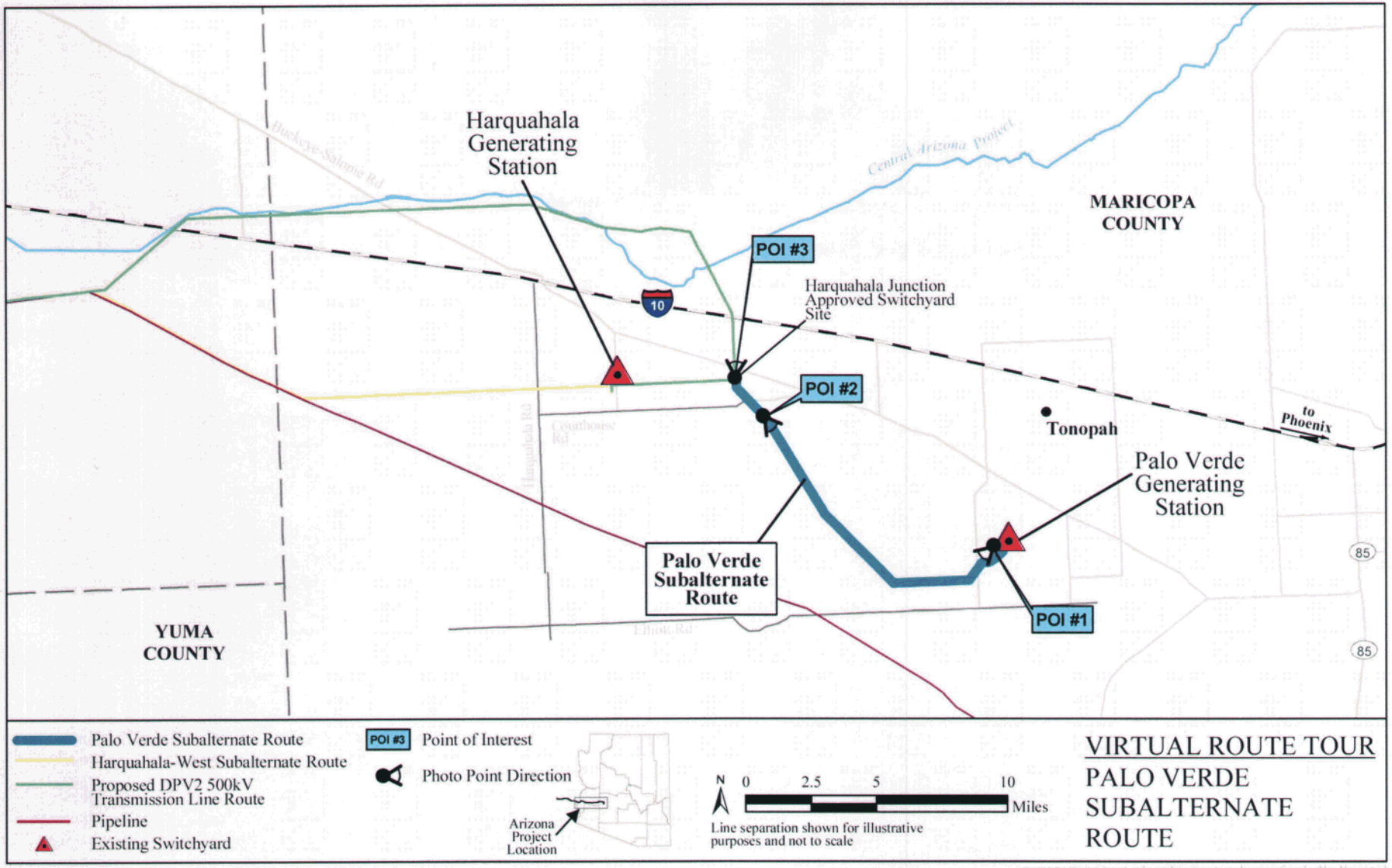

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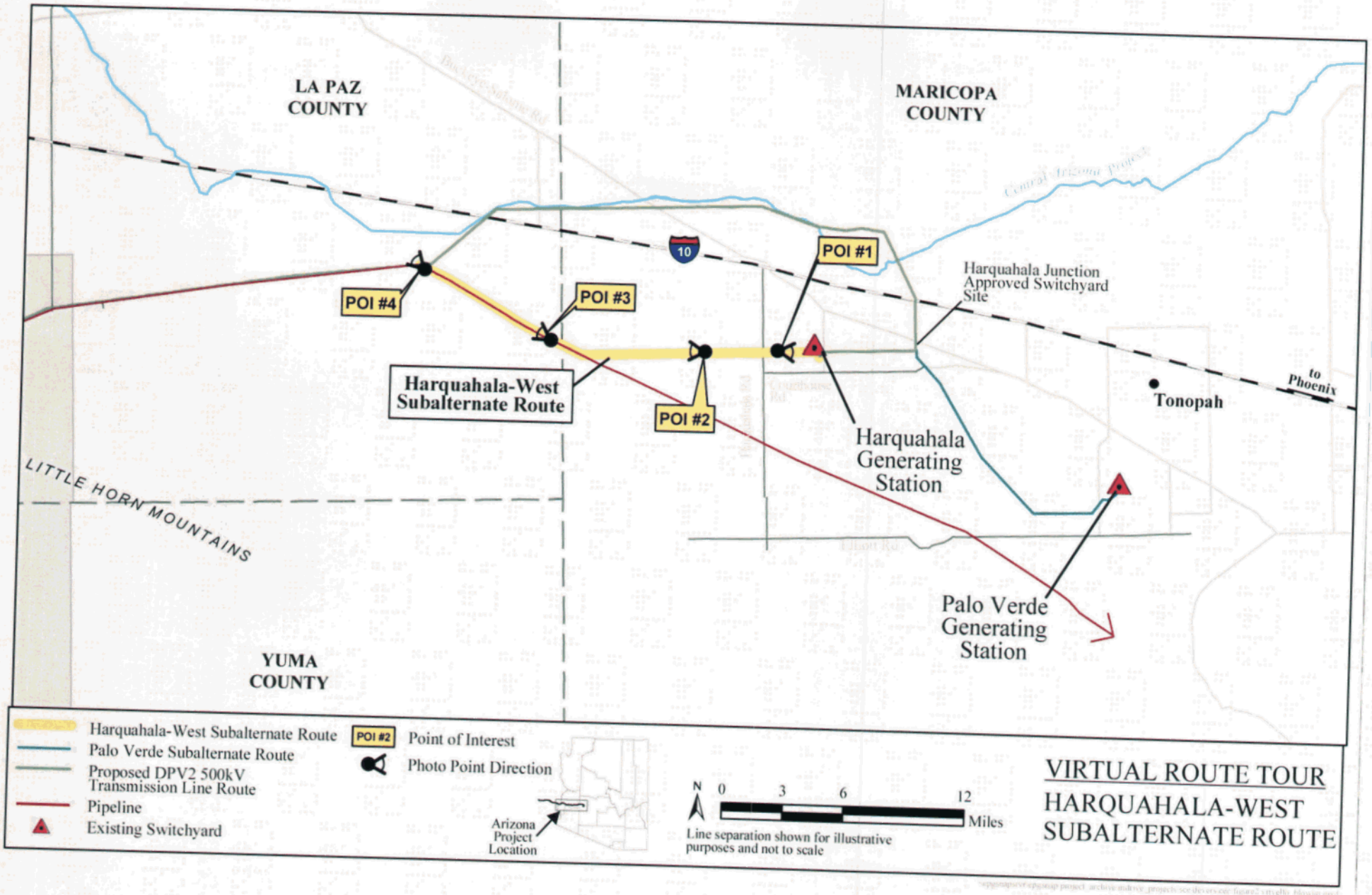

VIRTUAL ROUTE TOUR
HARQUAHALA-WEST SUBALTERNATE ROUTE

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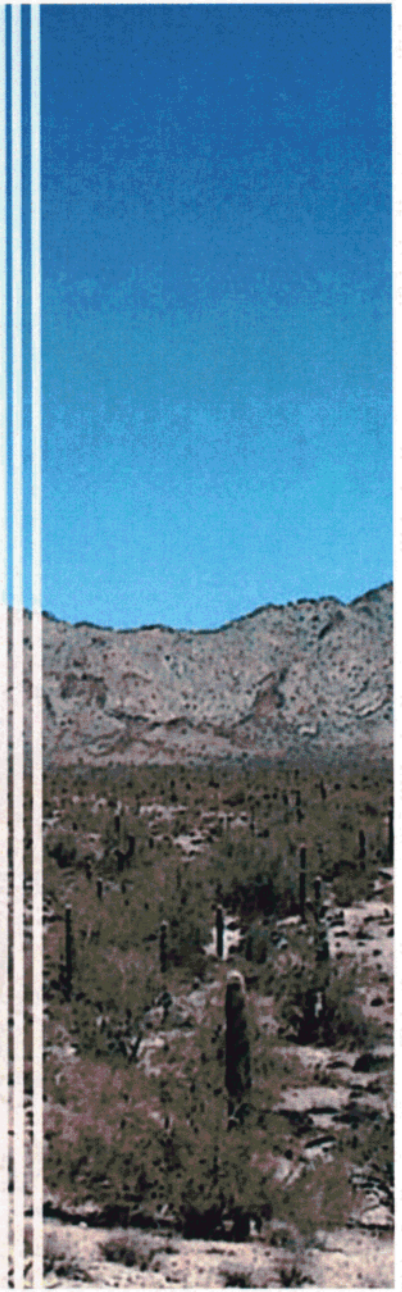
ENVIRONMENTAL RESOURCES

- Land use and recreation
- Biological resources
- Cultural resources
- Visual resources



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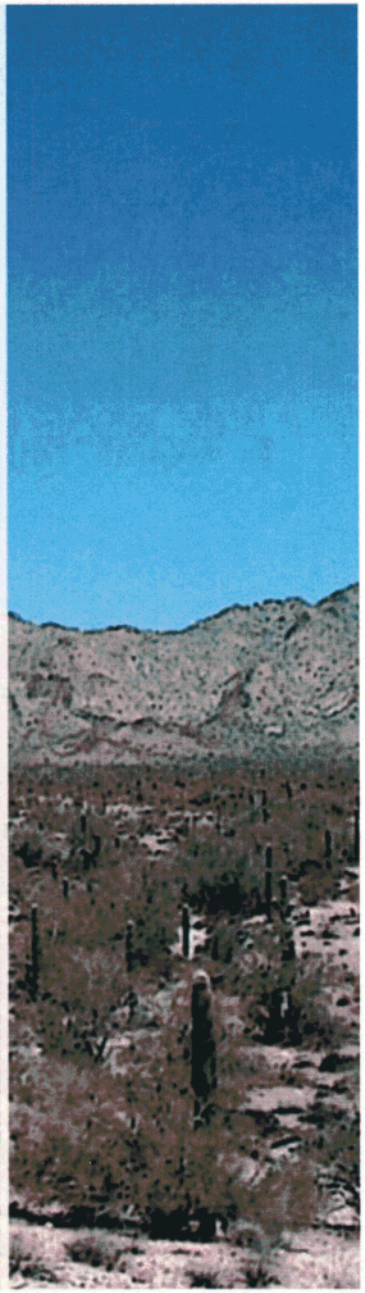
LAND USE JURISDICTIONS AND LAND OWNERSHIP

DEVERS-HARQUAHALA 500kV TRANSMISSION LINE Arizona Segment	
Proposed Route	**Miles**
Bureau of Land Management	55.4
U.S. Fish and Wildlife Service (KOFA)	23.8
Department of Defense	0.1
Arizona State Trust Land	10.8
Private Land	12.1
Total	**102.2**



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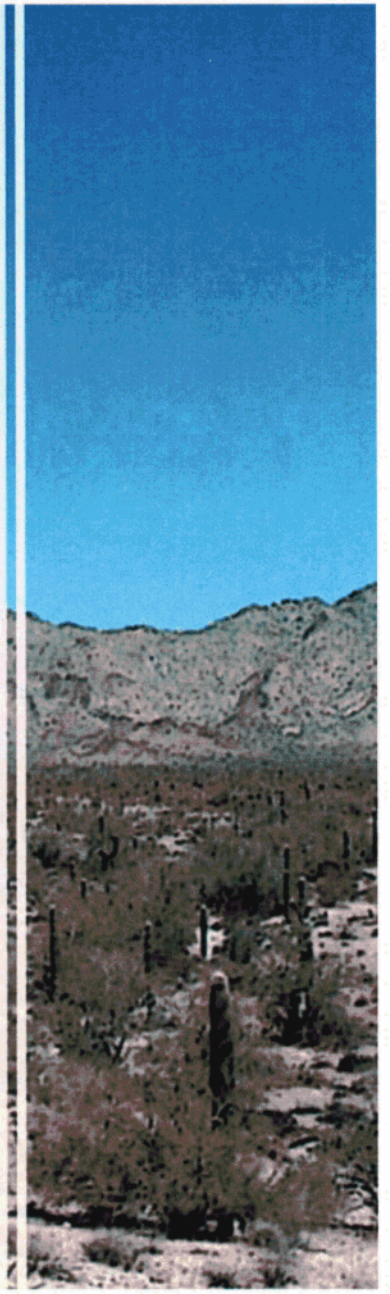
LAND USE: EXISTING AND PLANNED USES

- Proposed route crosses undeveloped lands within Utility Corridors designated in Resource Management plans administered by BLM Phoenix and Yuma Field Offices
- Parallel and adjacent to DPV1 – uses existing access roads
- No conflicts with proposed development plans within corridors for the proposed route



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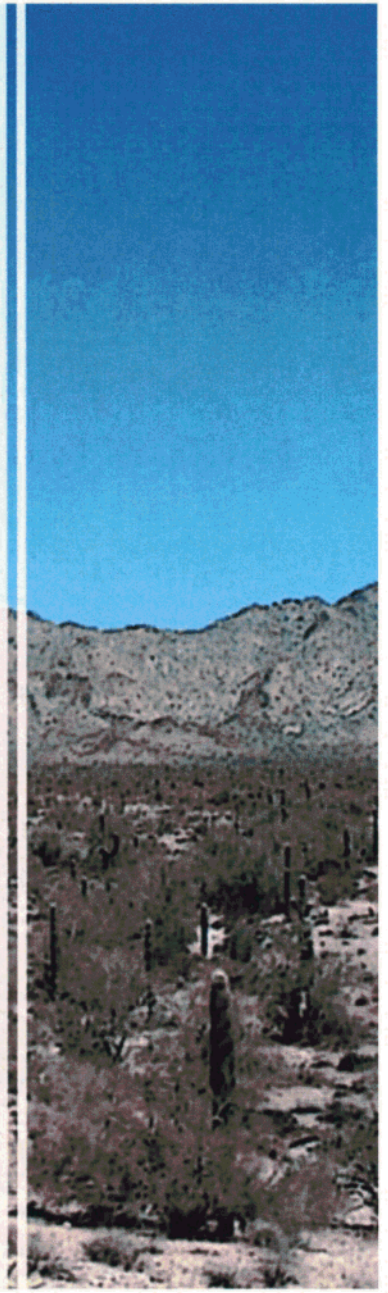
LAND USE: EXISTING AND PLANNED USES
(continued)

- Recreation use – minimal conflicts with dispersed uses: e.g., hiking, hunting, horseback riding, off-highway vehicle use on existing roads
- Other land uses – agriculture, other utilities
- Mitigation measures
- Minimal impact to land uses



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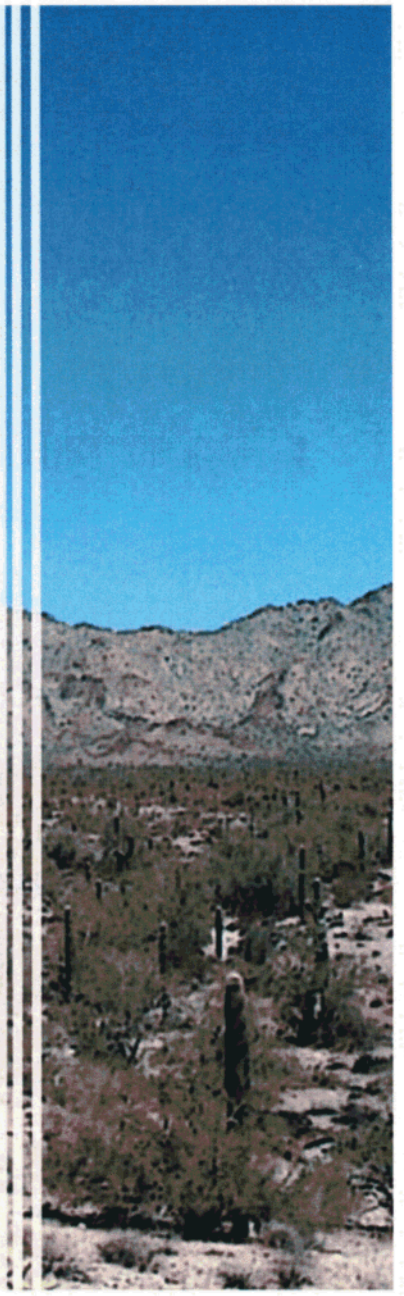
BIOLOGICAL RESOURCES

- Contacted BLM, AGFD, USFWS, and Arizona Department of Agriculture

- Surveys were conducted to identify biologically sensitive species



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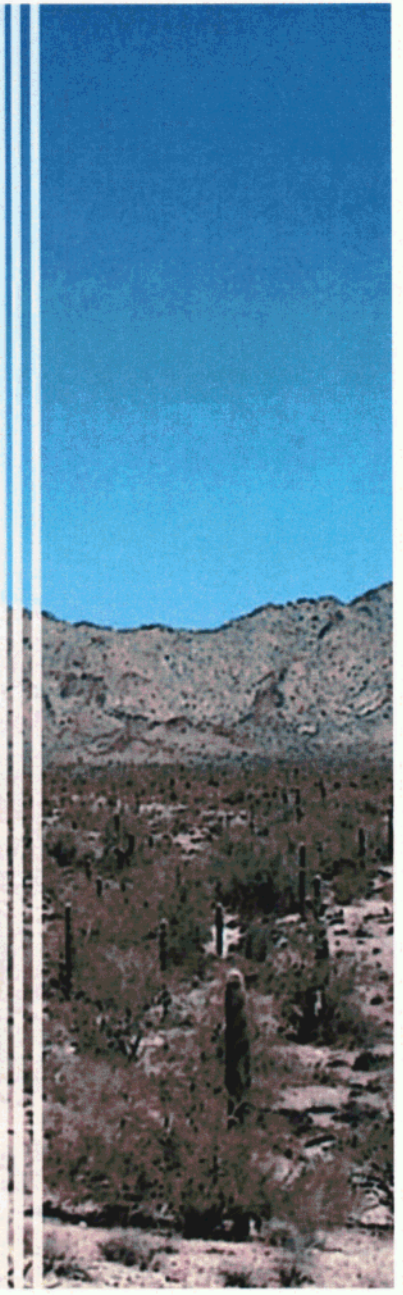
BIOLOGICAL RESOURCES
(continued)

- Desert bighorn sheep are found in the KOFA National Wildlife Refuge and surrounding mountains, and are monitored by the Arizona Game and Fish Department as a big game species

- No federally listed species have been documented within the Arizona portion of the proposed Devers-Harquahala 500kV line route



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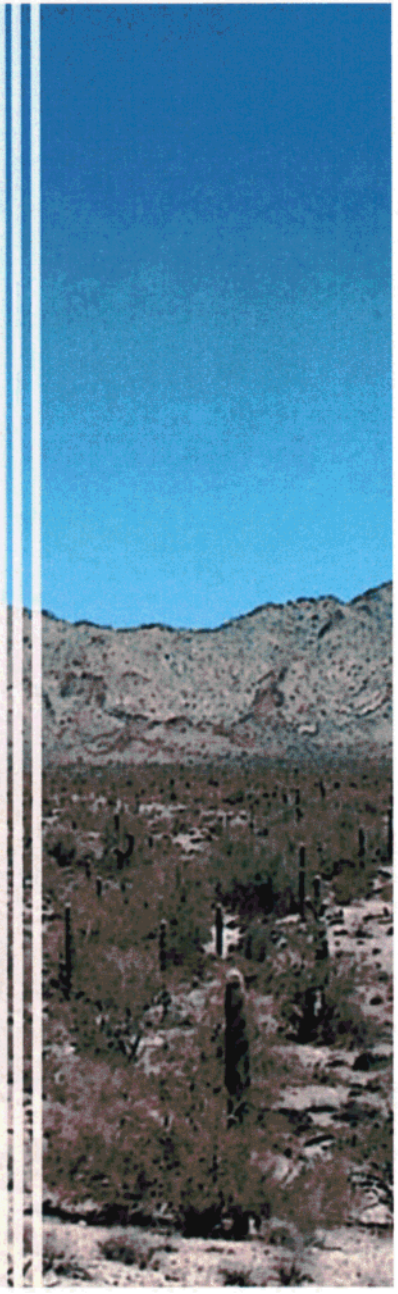
BIOLOGICAL RESOURCES

(continued)

- Mitigation measures to be implemented:
  - Project will comply with current BLM tortoise policy
  - Scheduling construction to avoid critical life-cycles for certain species
  - Native plant survey to be conducted on BLM and state lands prior to construction
  - Use construction techniques that minimize sensitive habitat disturbance



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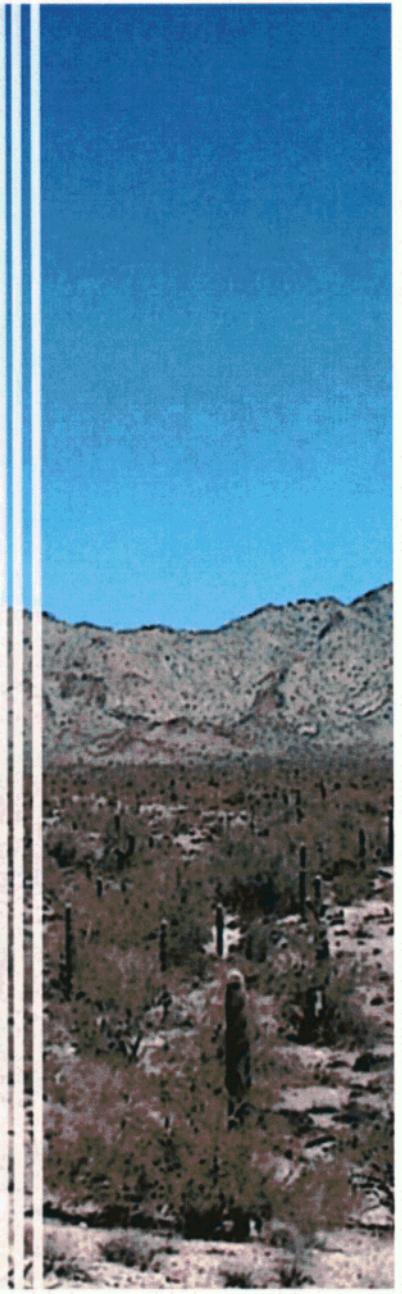
CULTURAL RESOURCES

- Class I records search at SHPO, AZSITE, and BLM was conducted to identify previous studies and recorded sites within 1 mile of project ROW
- Cultural resource surveys conducted for DPV1 – mitigation of archaeological sites was performed in 1980s
- Class III archeological survey was conducted for the proposed route Area of Potential Effect (APE) – one NRHP-eligible site was found



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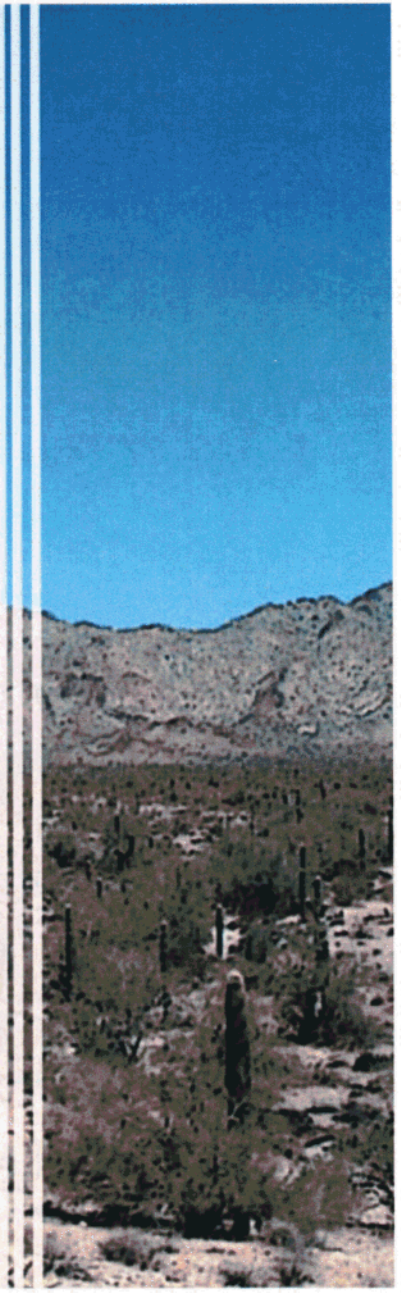
CULTURAL RESOURCES
(continued)

- Survey reports submitted and reviewed by BLM, USFWS, and ASLD

- Consultation with SHPO and Native Americans initiated by BLM



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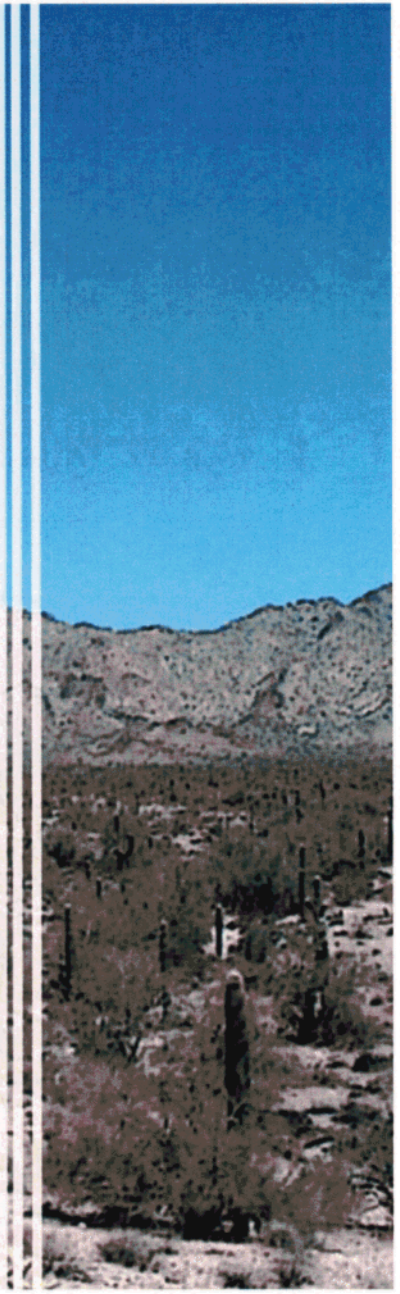
CULTURAL RESOURCES
(continued)

- Mitigation
  - All register-eligible sites have been previously mitigated
  - Construction monitoring as required by BLM
- Minimal impacts to cultural resources



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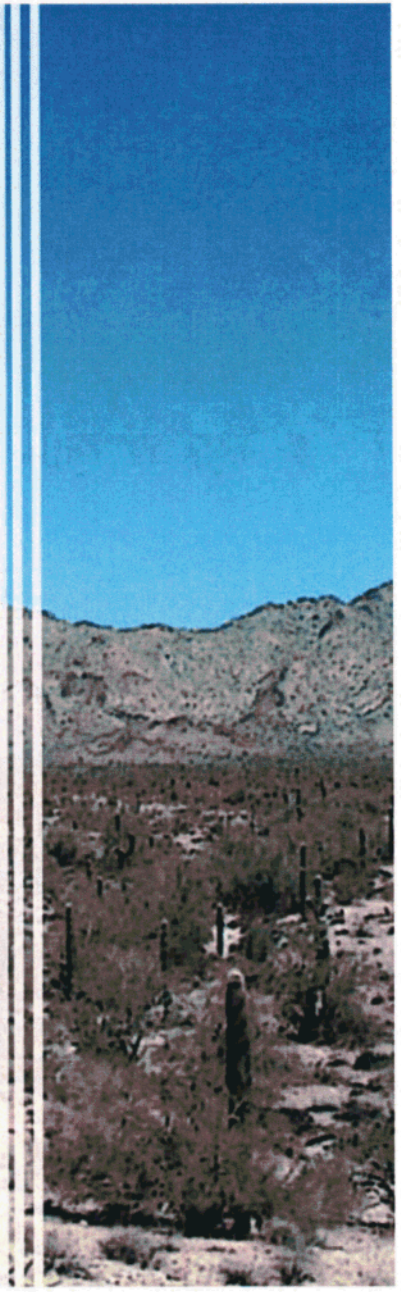
VISUAL RESOURCES

- The proposed route parallels existing 500kV lines (modified setting) for the entire length of the route, thereby reducing visual contrast and minimizing impacts

- Majority of proposed route is located within BLM-designated utility corridors

- Utilized BLM Visual Resource Management (VRM) System method



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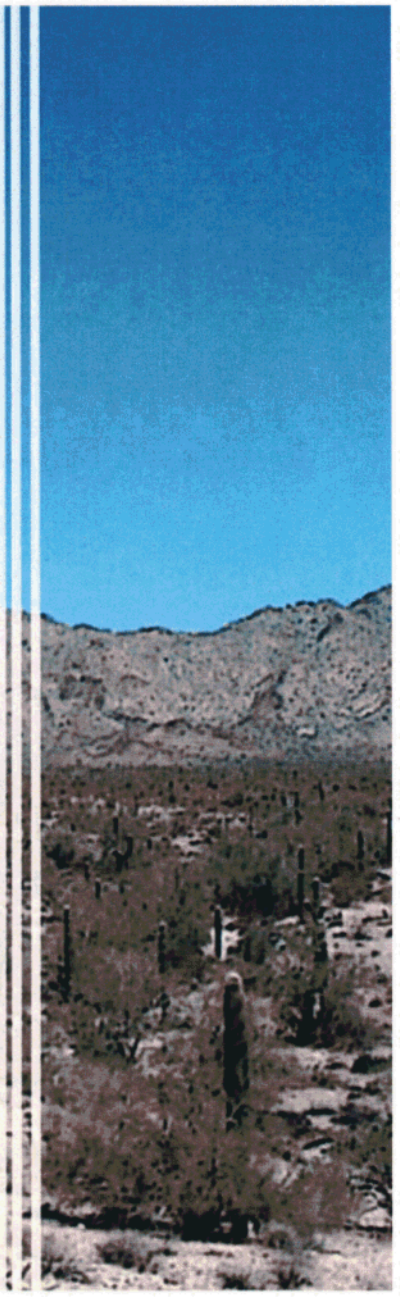
VISUAL RESOURCES
(continued)

- Mitigation measures
  - Match existing structure types
  - Match spans and tower heights to the extent practical
  - Use dulled steel structures and non-specular conductors
  - Use existing access roads



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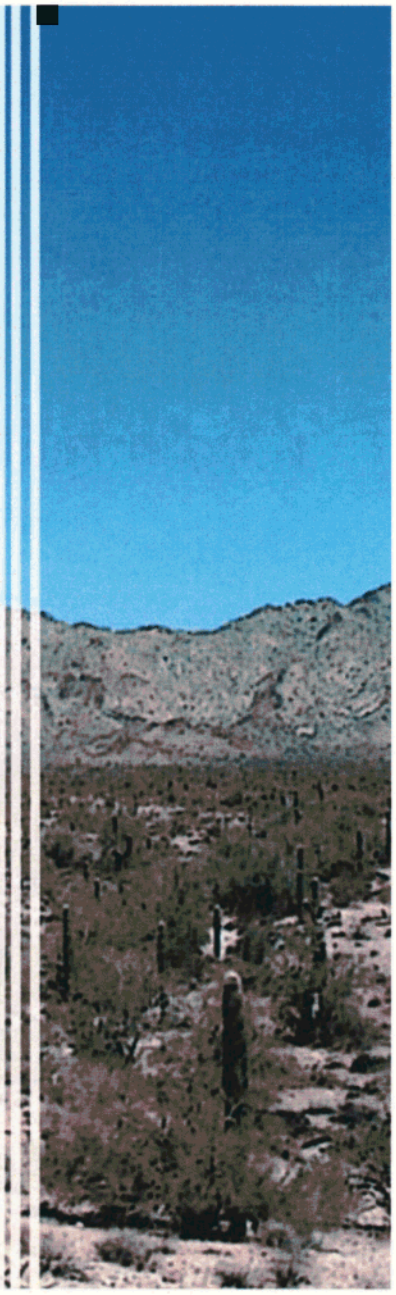
VISUAL RESOURCES
(continued)

- Conclusion: The location of the proposed transmission line in a previously modified corridor, combined with project design and mitigation, effectively reduces impacts to visual resources



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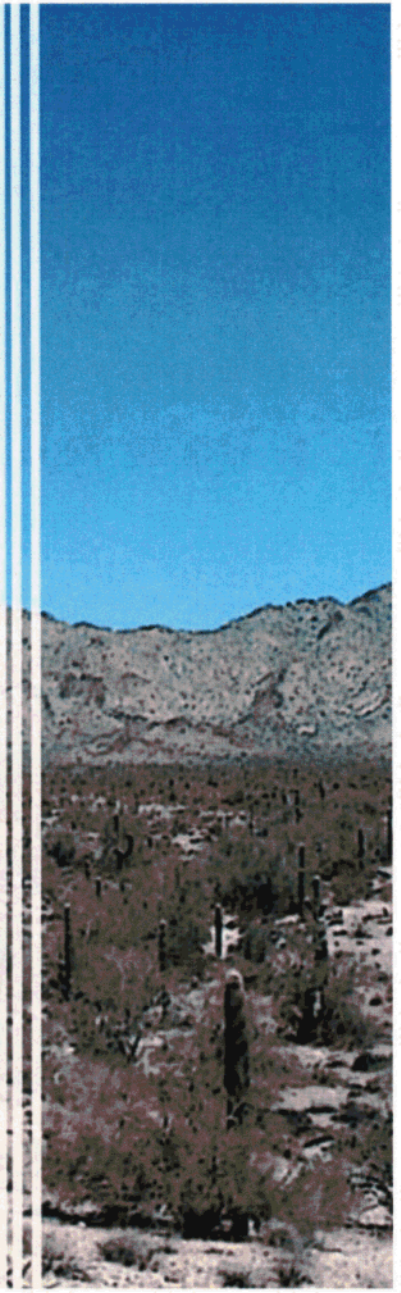
CONCLUSION

- Parallels existing 500kV transmission lines, within BLM-designated utility corridors on public lands
- Uses structure types that match existing transmission structures: lattice steel towers and tubular steel poles
- Uses existing main access roads
- Construction and operation of the DPV2 Project would be environmentally compatible



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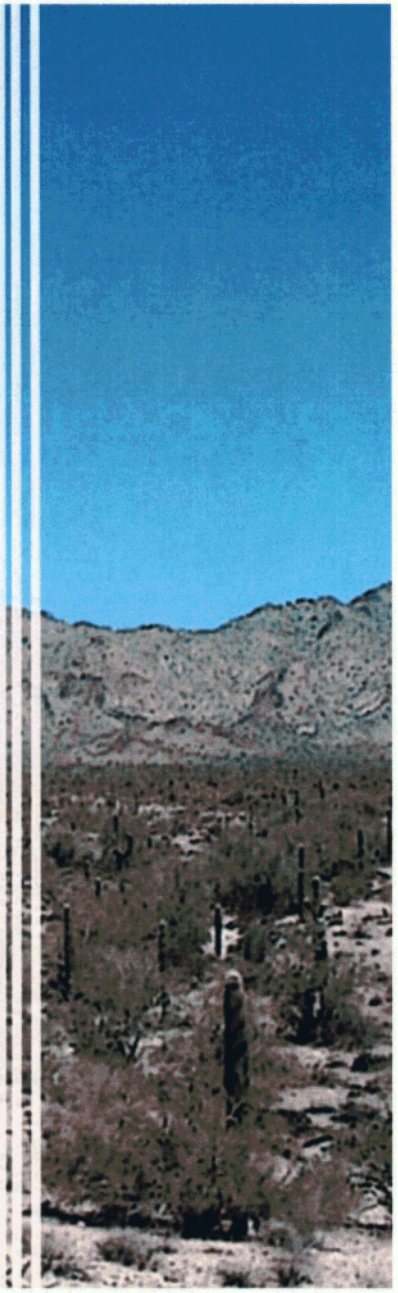
Devers-Palo Verde No. 2
Transmission Line Project

Application for a Certificate Of Environmental Compatibility Case No. 130

Prepared for

Arizona Power Plant and Transmission Line Siting Committee

June 26 and 27, 2006



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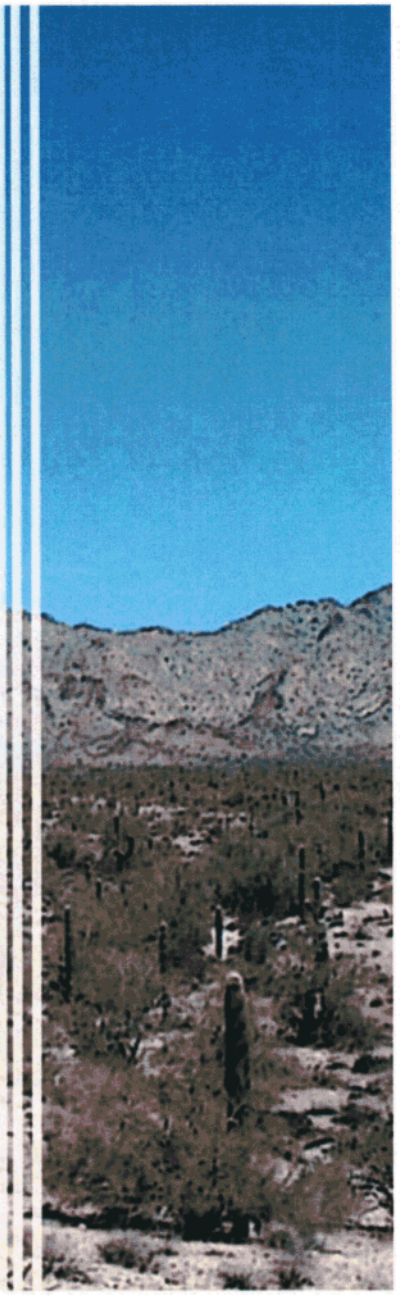
DANA CABBELL, P.E.

Southern California Edison

Manager of Regional Transmission

Planning Group



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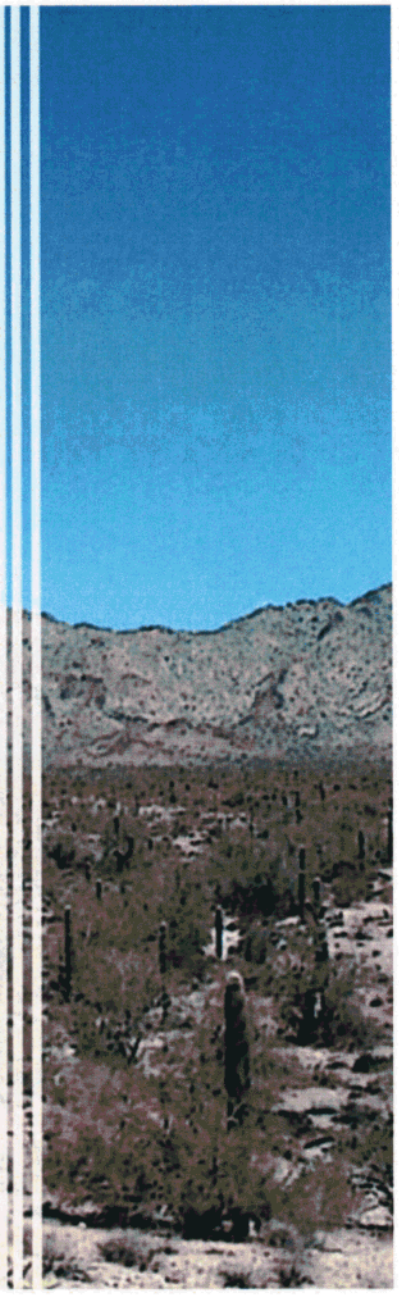
WITNESS BACKGROUND

- Education
  - Bachelor of Science in Electrical Engineering, 1982
  - Registered Professional Electrical Engineer with the State of California, 1989
- Professional
  - Manager of Regional Transmission Planning Group
  - 23 years with SCE in transmission planning



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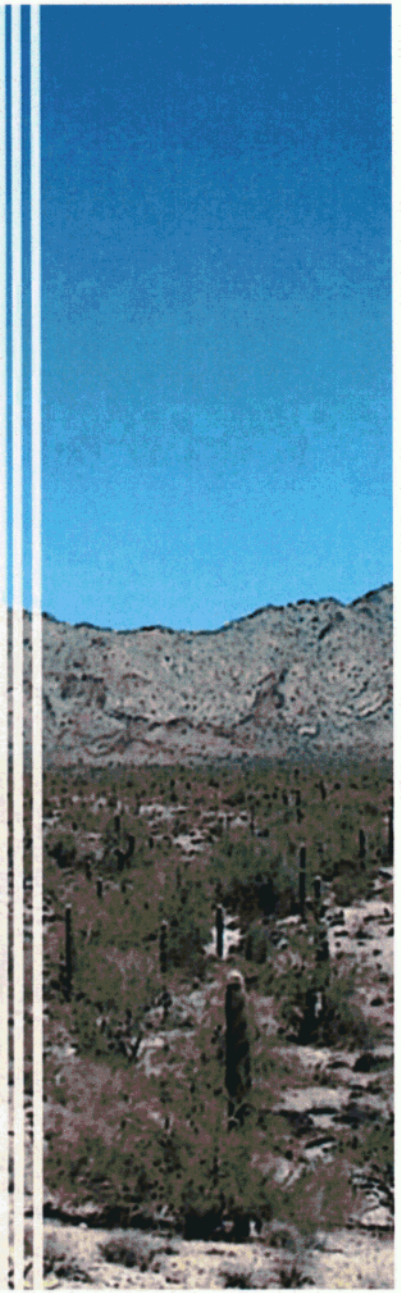
CURRENT POSITION

- Manager of Regional Transmission Planning Group
- Planning and evaluation of new transmission projects
- SCE representative to WECC, STEP, SWAT, and WATS
- Directed technical studies for the DPV2 Project



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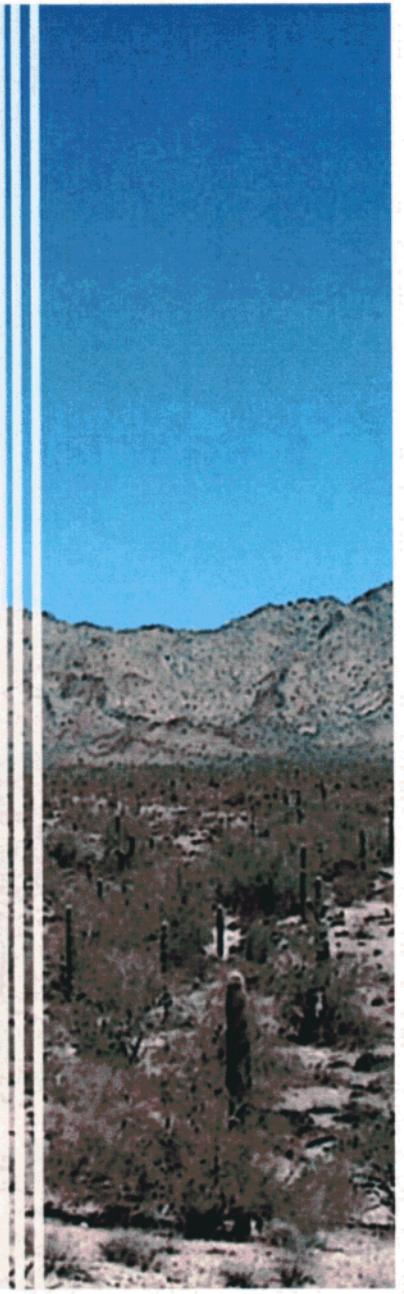
THE WESTERN STATES ELECTRIC GRID

- 14 states in the western U.S.
- 2 Canadian provinces and northern Mexico
- 118,000 circuit miles of EHV transmission lines
- Integrated and interdependent system
- Planned interstate transmission projects



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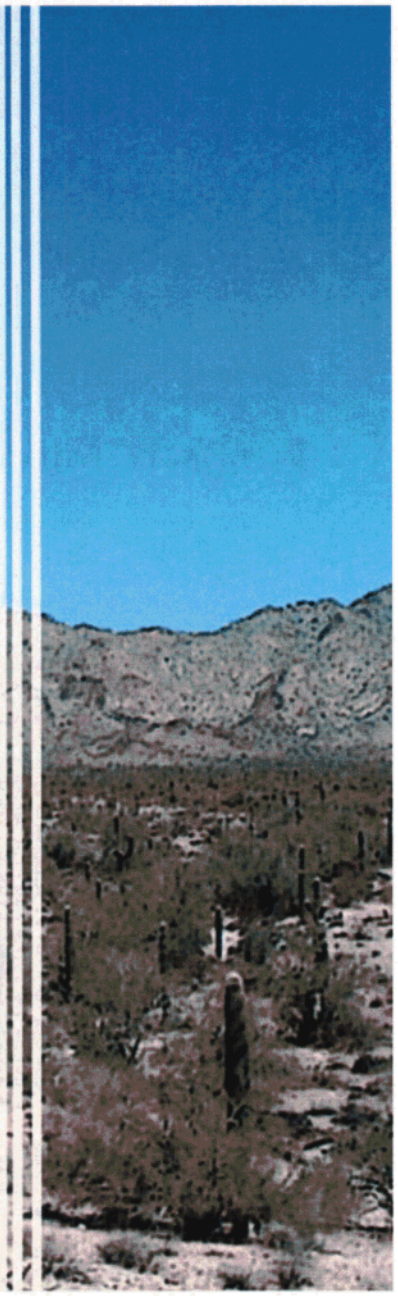
REGIONAL REVIEW OF DPV2

- WECC
  - Western Electricity Coordinating Council
- STEP
  - Southwest Transmission Expansion Plan
- WATS
  - Western Arizona Transmission System
- PV E&O
  - Palo Verde Engineering and Operating Committee



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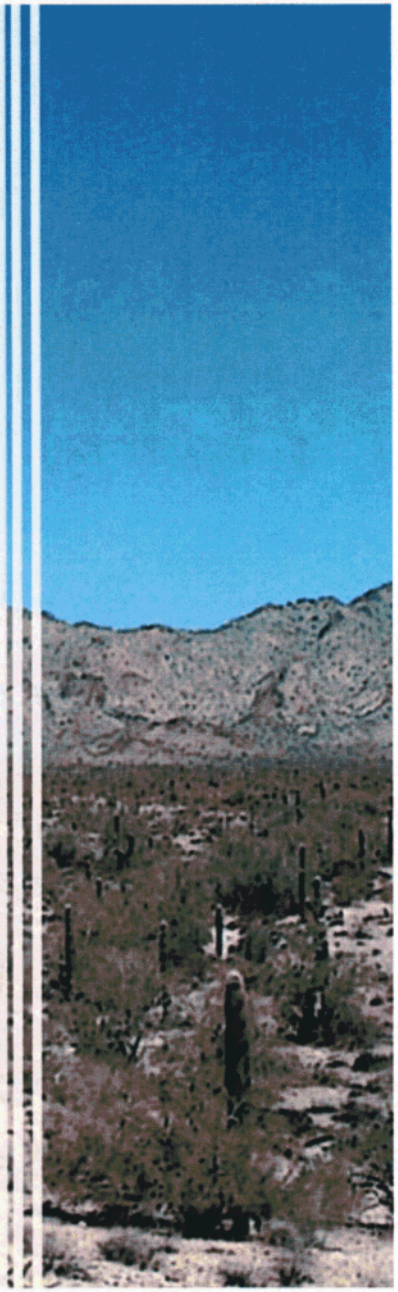
ARIZONA OPERATIONAL BENEFITS

- Enhance power pooling opportunities
- Increase emergency interconnection support
- Complements TransWest Express



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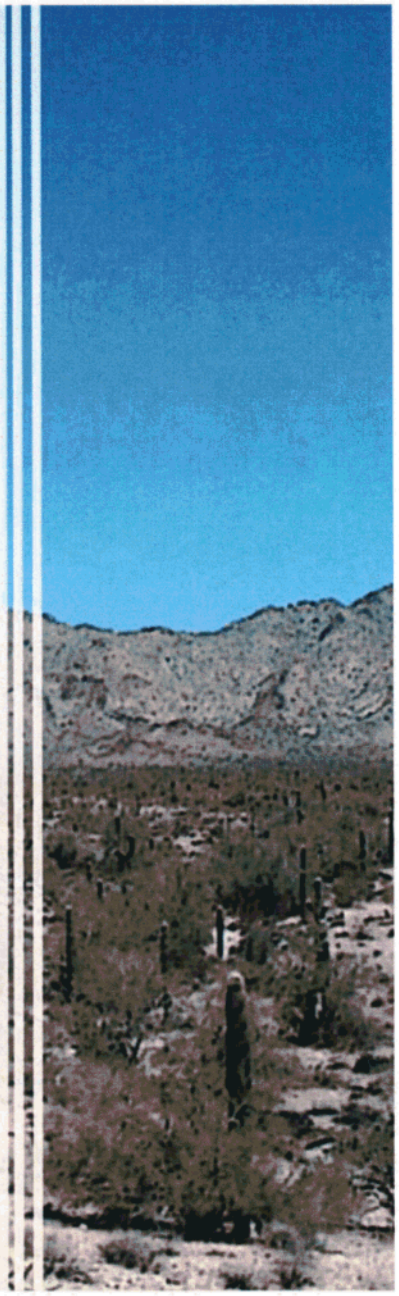

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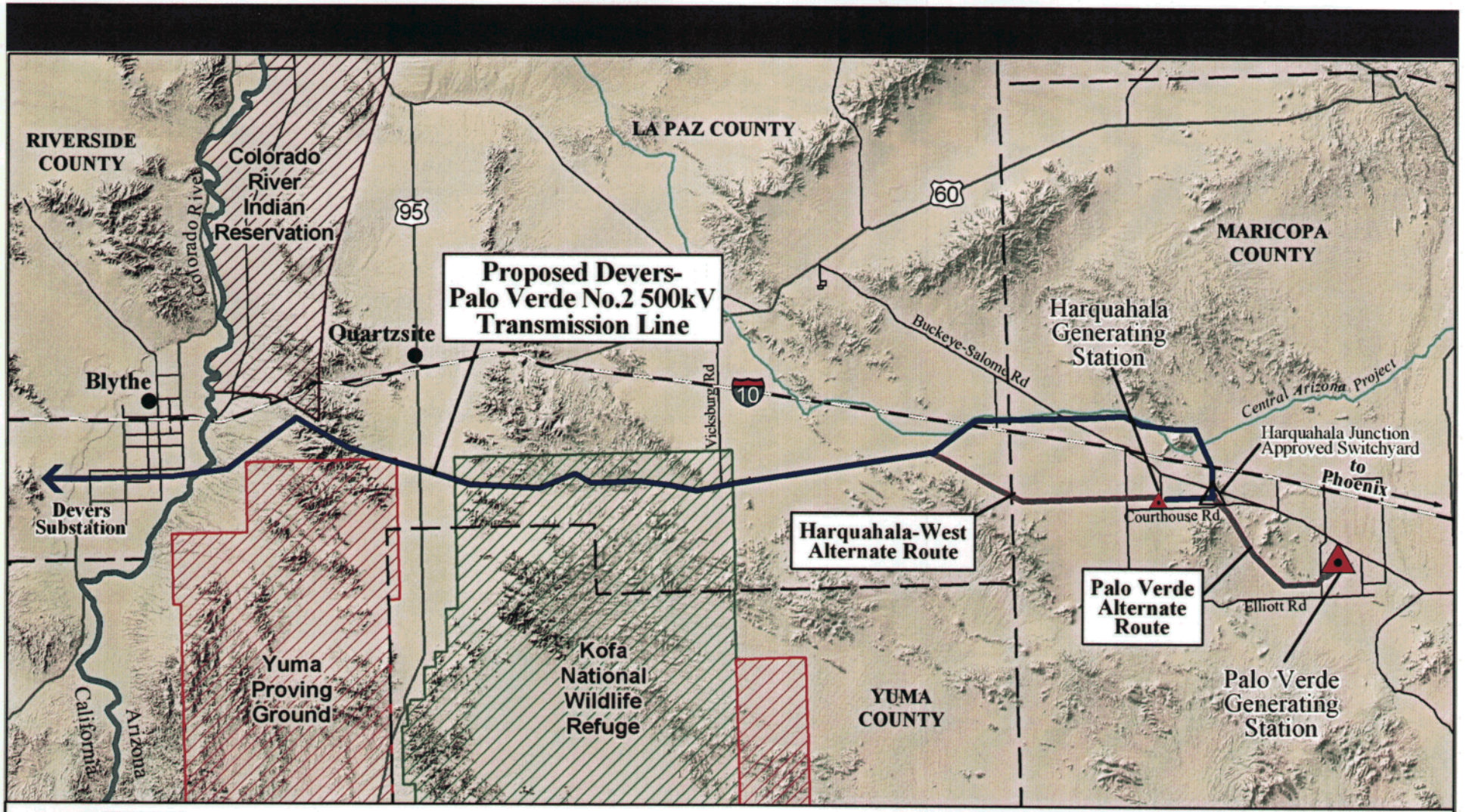
2

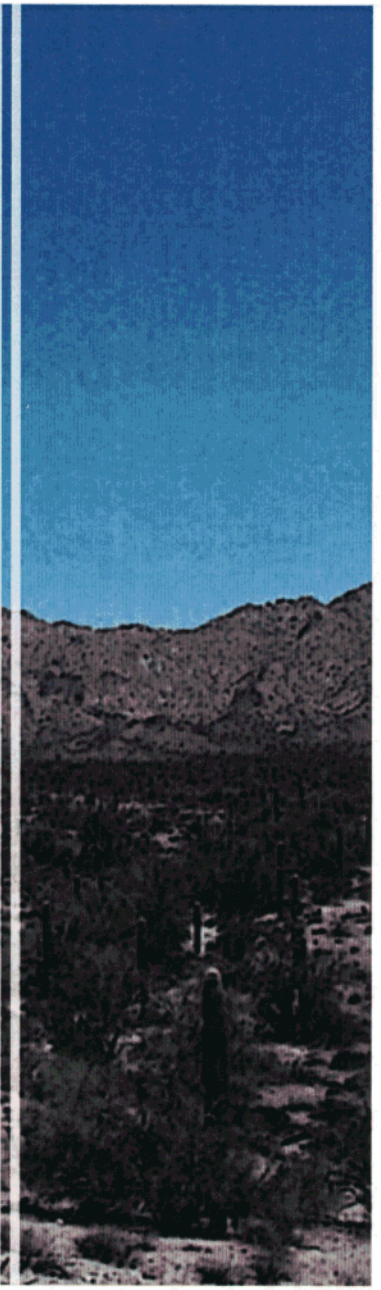


PROPOSED AND SUBALTERNATE ROUTES IN ARIZONA

A

ARIZONA REVISED STATUTE §40-360.07

"the Commission. . . shall balance, in the broad public interest, the need for an adequate, economical and reliable supply of electric power with the desire to minimize effect thereof on the environment and ecology of this state"



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GRAND CANYON TRUST v. ARIZONA CORPORATION COMMISSION
210 Ariz. 30 (App. 2005), 107 P.3rd 356

"... The statute itself does not require that the need for power be determined based solely on the power needs of instate consumers." (Page 38)

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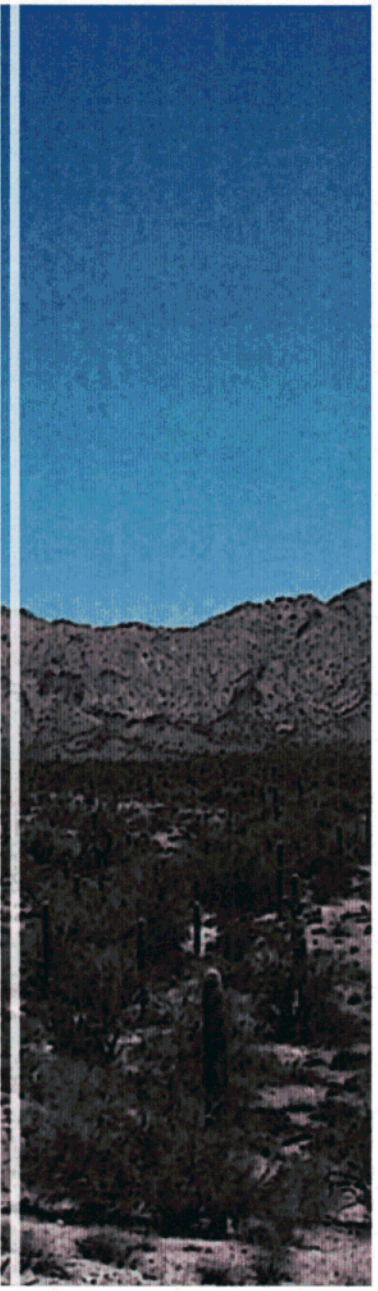
ARIZONA BENEFITS

- Strengthen the southwestern transmission grid in a manner supported by industry and regional planning groups
- Increase power pooling capacity
- Improve emergency interconnection
- Generate economic and fiscal benefits to Arizona



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ARIZONA BENEFITS
(continued)

- Facilitate other Arizona transmission projects such as TransWest Express
- Improve generation investment incentives
- Improve resource utilization and reduce production costs
- Greater liquidity and competition
- Greater fuel and load diversity, including improved access to renewable resources

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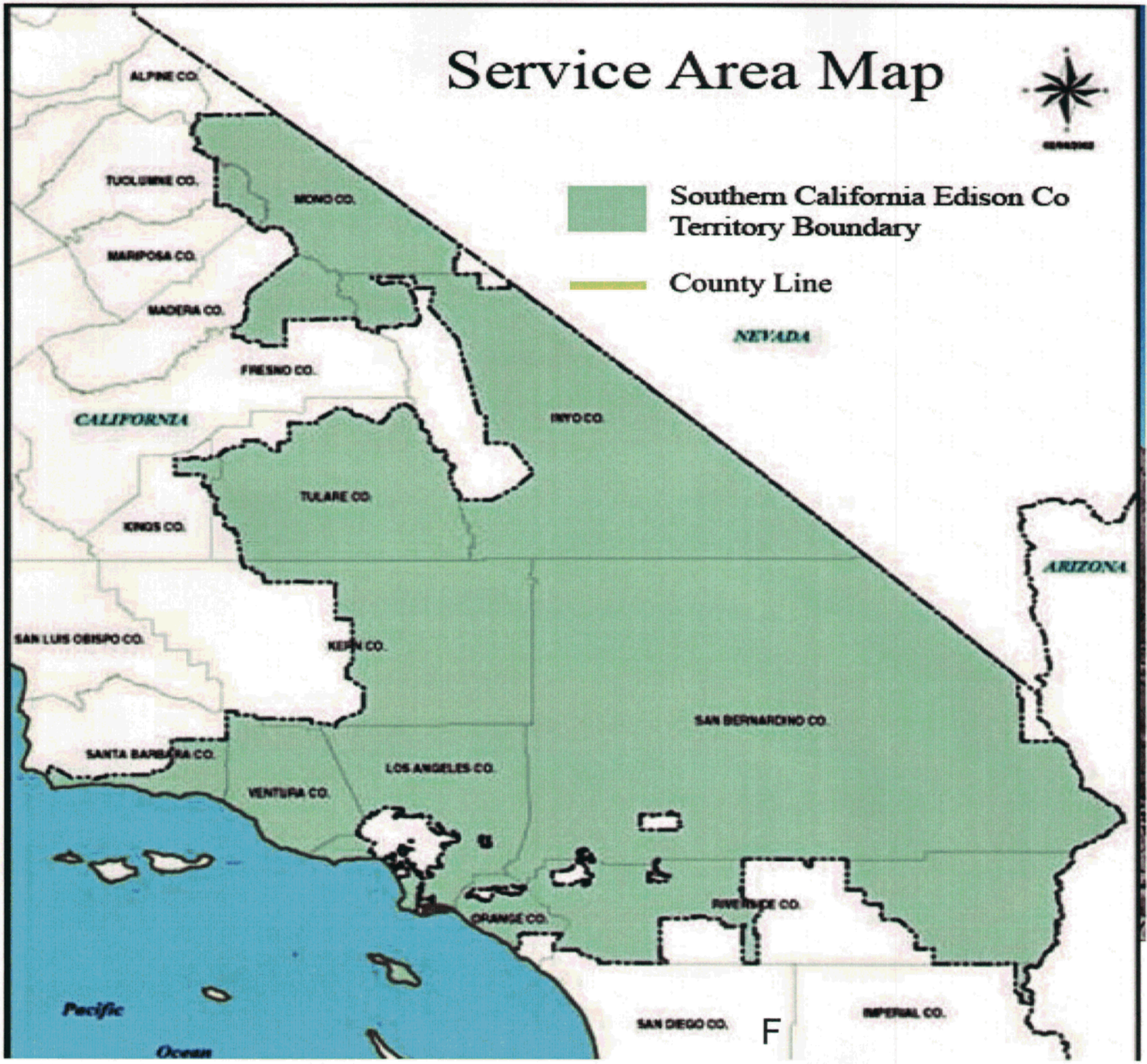
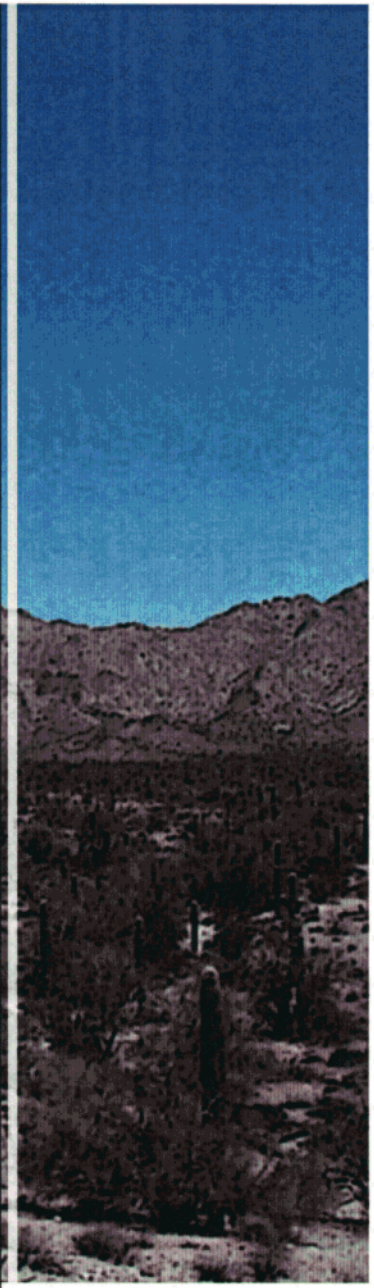
Service Area Map





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F

NEW RESOURCES IN CALIFORNIA

- 13,000 MW of new generation constructed since 2001
- 8,400 MW of new generation approved but not yet constructed
- 8,000 additional MW announced or under review

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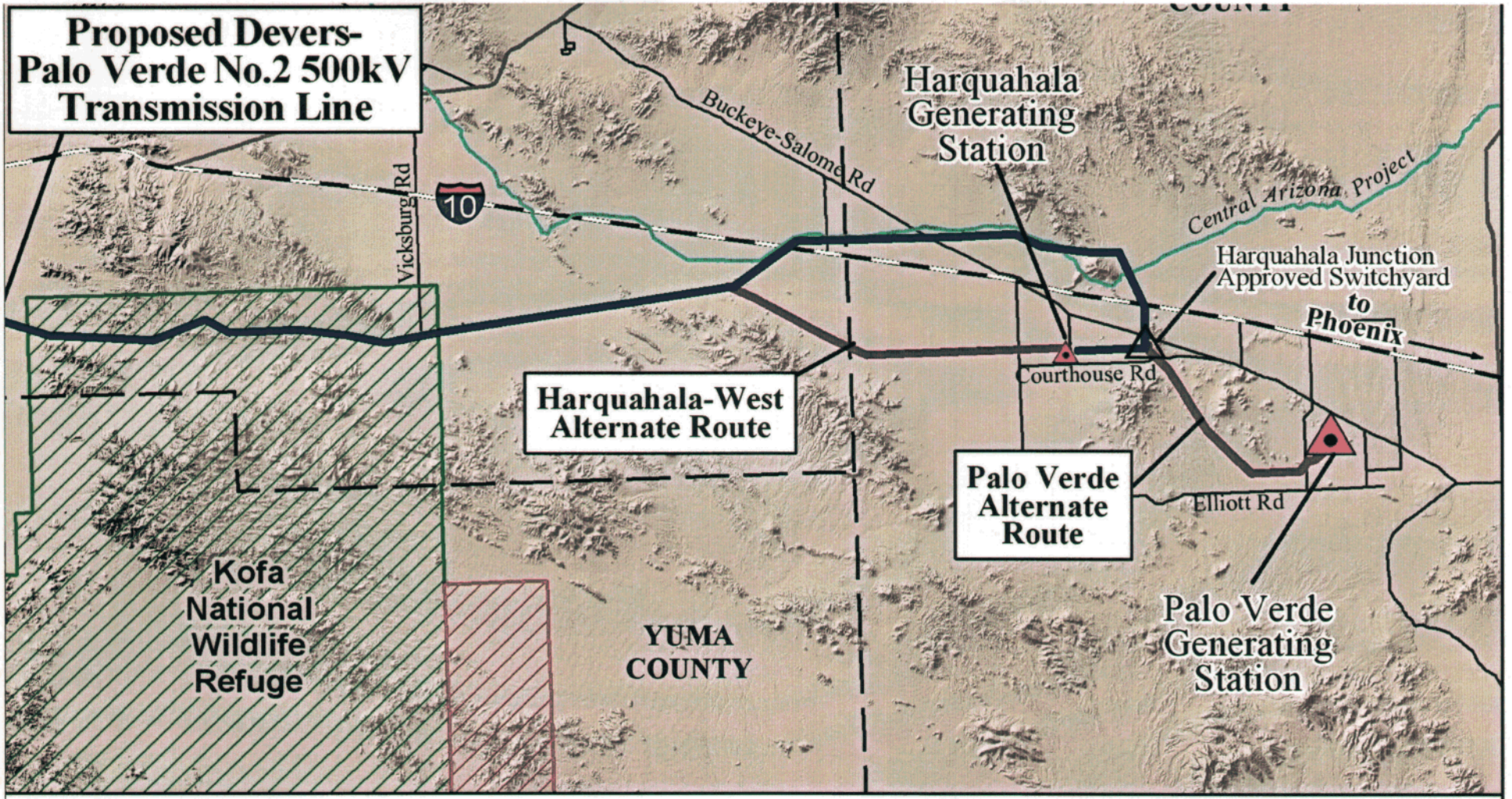

PROPOSED AND SUBALTERNATE ROUTES IN ARIZONA

H

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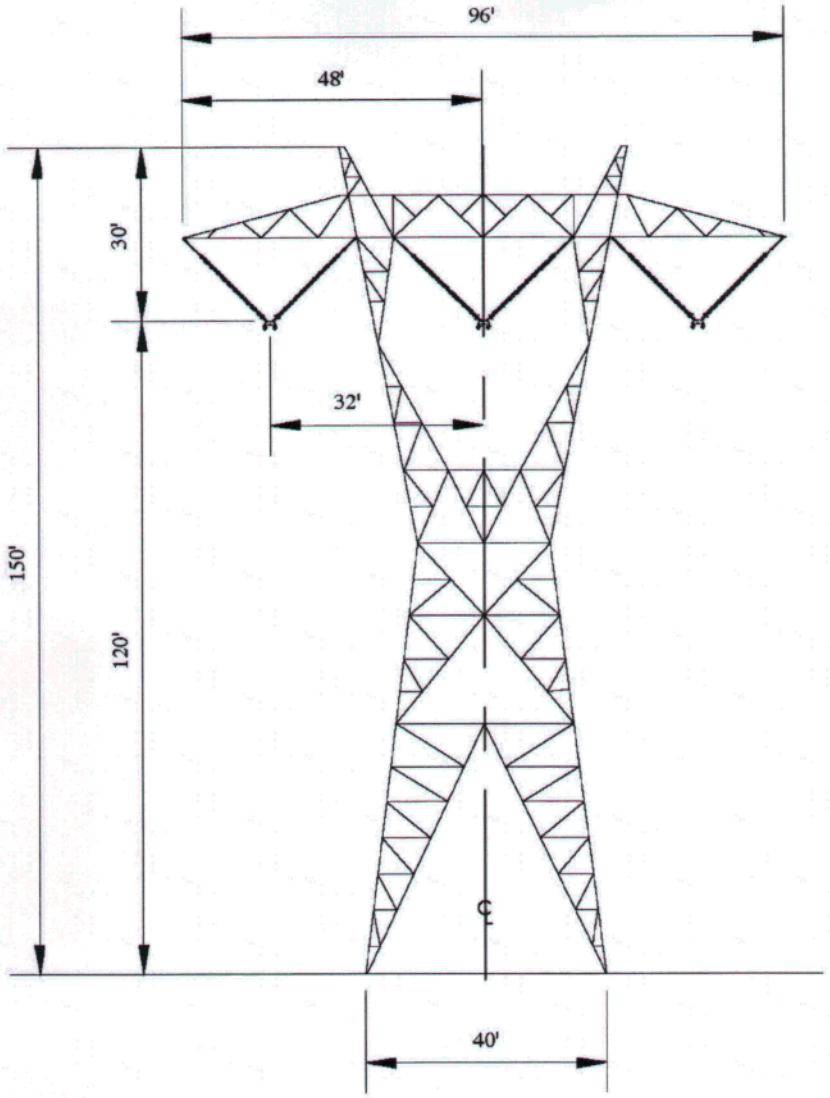

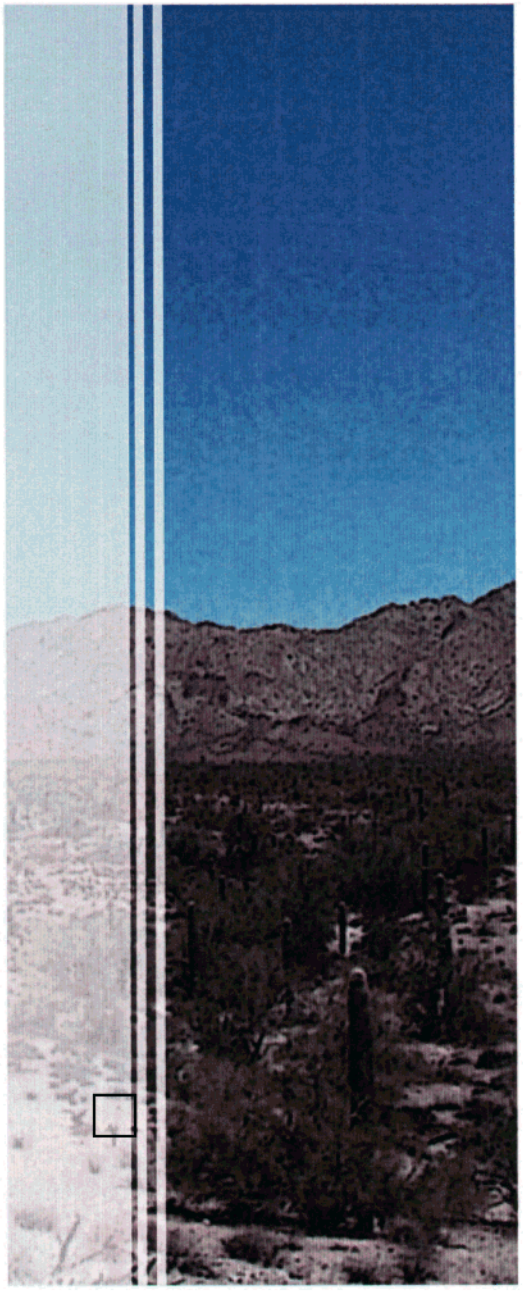

Note:
Dimensions are approximate and may vary with site conditions.

Exhibit G-1
Proposed 500kV Single-Circuit
Lattice Steel Tower

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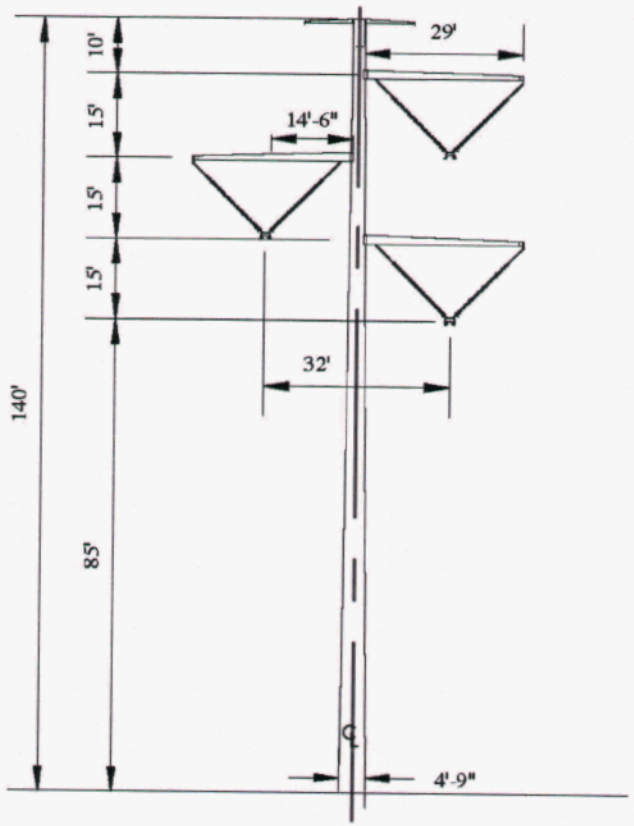

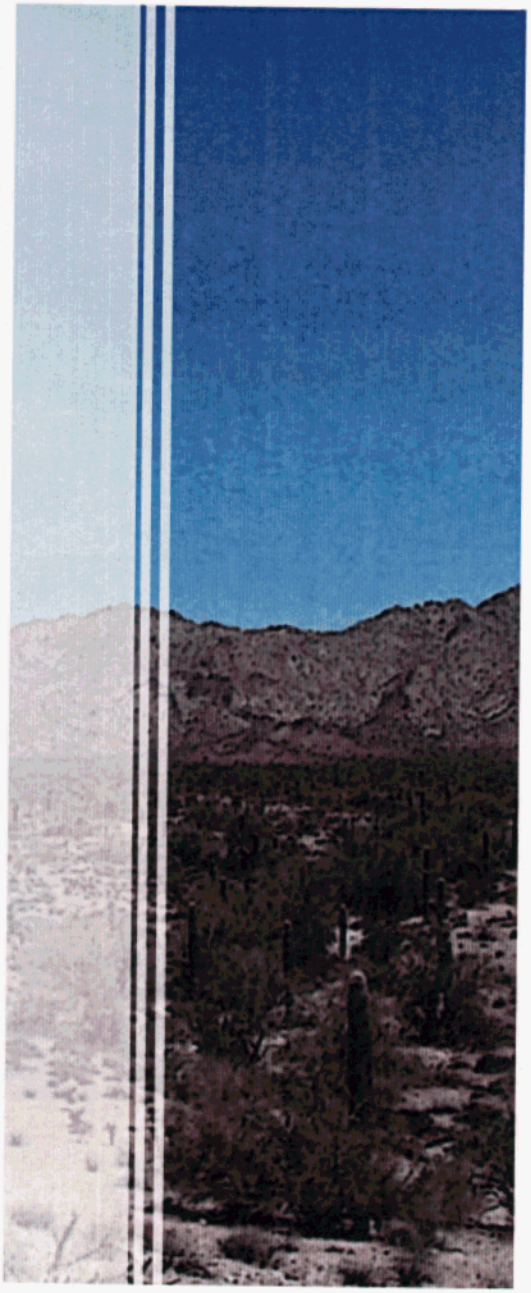

Note:
Dimensions are approximate and may vary with site conditions.

Exhibit G-2
Proposed 500kV Single-Circuit
Tubular Steel Pole

J

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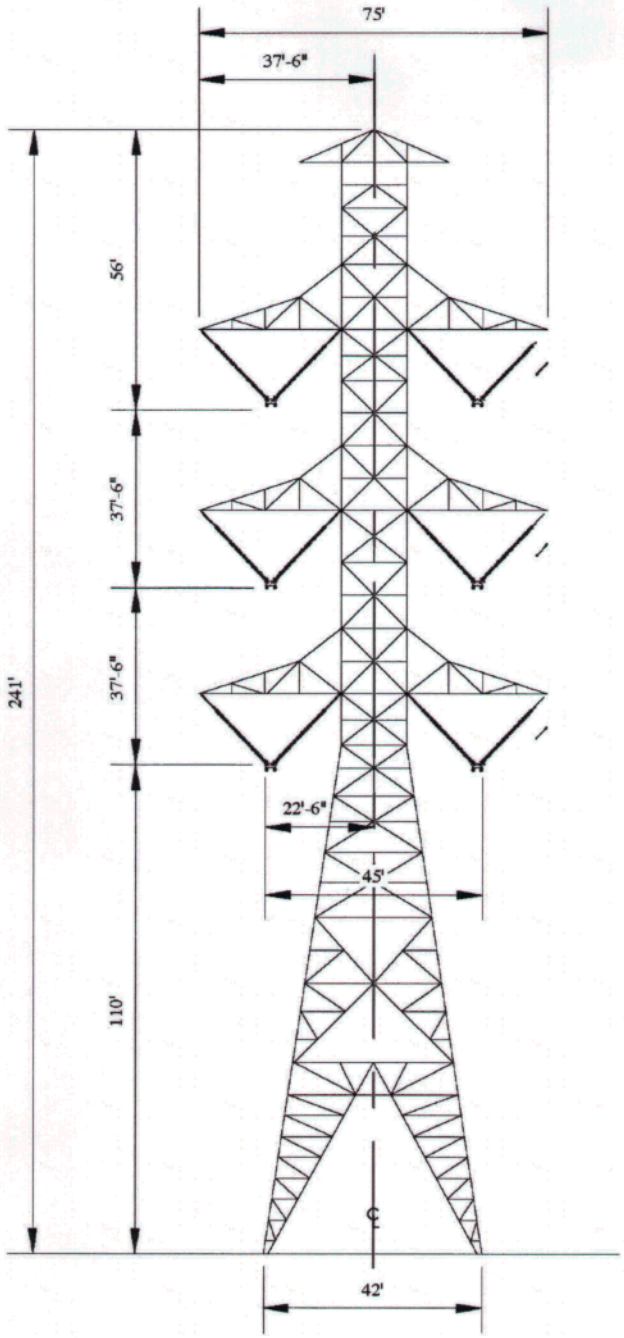

Note:
Dimensions are approximate and may vary with site conditions.

Exhibit G-3
Existing 500kV Double-Circuit
Lattice Steel Tower

K

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Fact Sheet

Devers – Palo Verde No. 2

April 2006

Important information concerning a proposed Southern California Edison transmission line project in Arizona.

Southern California Edison Company (SCE) is proposing to construct a new 230-mile-long, high-voltage electric transmission line between California and Arizona. The project is called Devers-Palo Verde No. 2 (DPV2) and will be paid for by the customers of California electric utilities.

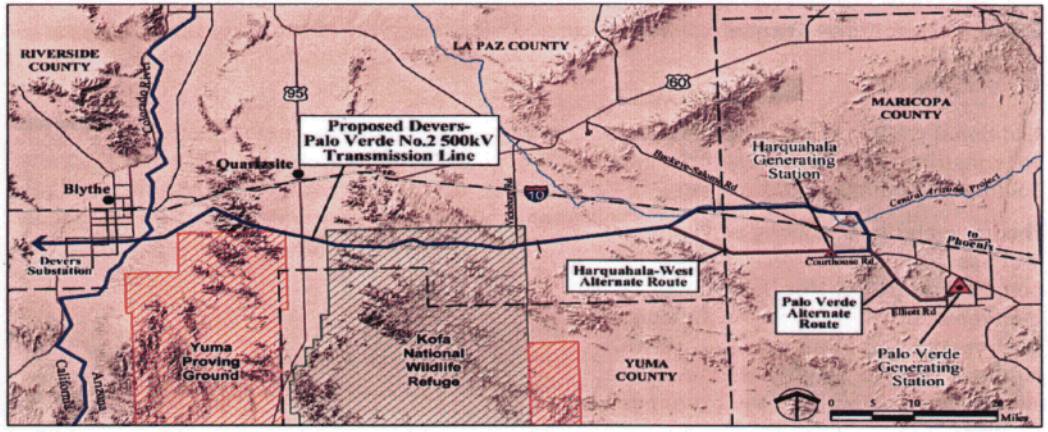

Figure 1

PROJECT DESCRIPTION

SCE proposes to build a new 500 kilovolt (500 kV) transmission line connecting the Harquahala Switchyard, located approximately 40 miles west of Phoenix, Arizona, to SCE's existing Devers Substation located approximately 10 miles north of Palm Springs, California. The majority of the transmission line will be constructed within existing SCE rights-of-way and designated utility corridors (see Figure 1).

The proposed transmission line is approximately 230 miles long, of which approximately 102 miles are in Arizona. The majority of the proposed transmission line would parallel the existing Devers-Palo Verde No. 1 (DPV1) 500 kV transmission line. SCE proposes to construct this segment using lattice steel towers similar to the existing DPV1 towers (see Figure 2). Approximately five miles of the proposed line would parallel an existing transmission line between the DPV1 right-of-way and the Harquahala Switchyard. This segment would be constructed using tubular steel poles.

Continued on next page

L

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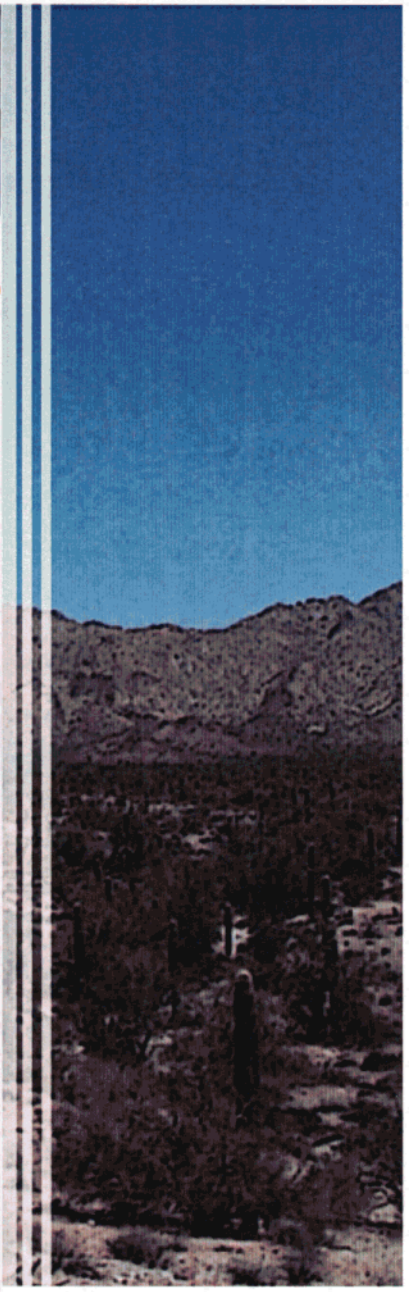

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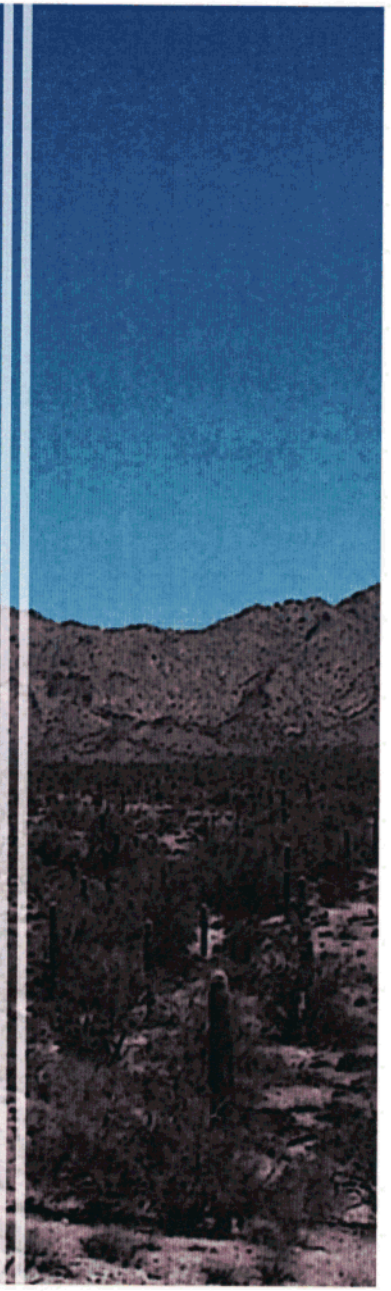
STAKEHOLDER LIST

- Senator Kyl
- Congressman Franks
- Congressman Hayworth
- Congressman Flake
- Congressman Renzi
- Congressman Grijalva
- State Representative – Manuel Alvarez
- State Representative – Jennifer Burns
- Office of the Governor, Regulatory Affairs, Policy Advisor – Lynette Evans



M

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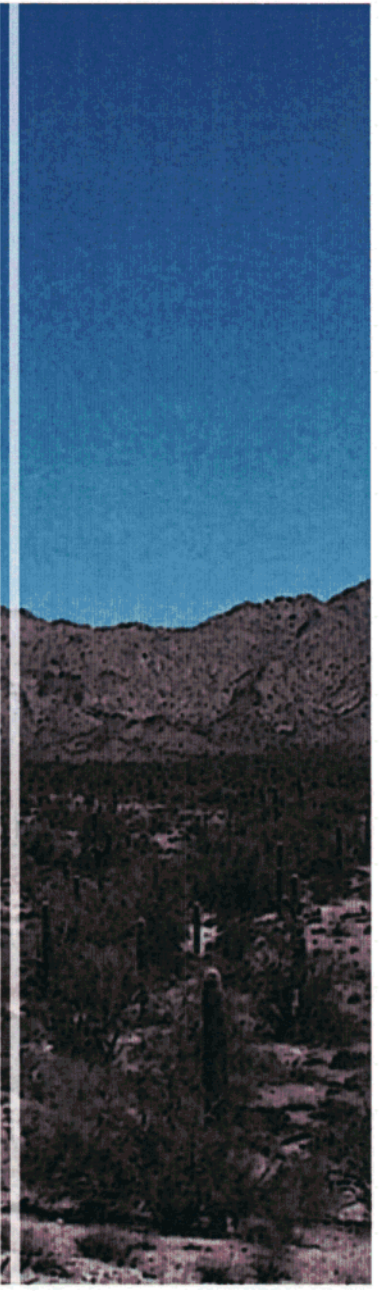
STAKEHOLDER LIST

- Central Arizona Project, Deputy General Manager – Larry Dozier
- Town of Quartzsite, Mayor – Verlyn Michel
- Town of Quartzsite, Vice Mayor – Chuck Busby
- Town of Quartzsite, Town Manager – Dan Fields
- La Paz County, Supervisor – Gene Fisher
- La Paz County, Supervisor – Mary Scott
- La Paz County, Supervisor – Clifford Eddy
- La Paz County, District 3 Board of Supervisors – Jay Howe
- La Paz County, County Administrator – Huey P. Long



N

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STAKEHOLDER LIST

- Maricopa County Supervisor – Mary Rose Wilcox
- Maricopa County Supervisor – Max Wilson
- Maricopa County District 4 Supervisor, Chief of Staff – Scott Isham, County of La Paz Board of Supervisors special meeting
- Tonopah Valley Association, Project Director – Doris Heisler
- Tonopah Valley Community Council, President – Bob Hathaway
- Saddle Mountain Unified School District, Superintendent – Roxanne Morris
- Sierra Club
- Harquahala Valley Irrigation District
- Harquahala Valley Power District

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MEDIA

- East Valley Tribune
- Arizona Republic
- Arizona Daily Star
- Parker Pioneer
- Phoenix Business Journal
- West Valley View
- Southwest Valley Sun
- Associated Press

P

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OPEN HOUSE INVITATION

Southern California Edison Company (SCE) SCE proposes to build a new 500 kilovolt (500kV) transmission line connecting the Harquahala Switchyard, located approximately 40 miles west of Phoenix, Arizona, to SCE's existing Devers Substation located approximately 10 miles north of Palm Springs, California. The project is called the Devers Palo Verde No. 2 Project (DPV2).

The proposed transmission line is approximately 230 miles long, of which approximately 102 miles would be built in Arizona. The majority of the transmission line will be constructed within existing SCE rights of ways and designated utility corridors parallel to the existing Devers-Palo Verde No. 1 (DPV1) 500kV transmission line. SCE proposes to construct this segment using lattice steel towers similar to the existing DPV1 towers. Approximately five miles of the proposed line would parallel an existing transmission line between the DPV1 right of way and the Harquahala Switchyard. This segment would be constructed using tubular steel poles. Additional transmission facilities would be constructed west of Palm Springs, California to complete this project.

Alternatives to SCE's proposed route include the Harquahala West alternate, which would extend directly west from the Harquahala Generating station to the DPV1 right-of- way, and the Palo Verde alternate that would connect to the Palo Verde Generating Station Switchyard. SCE's evaluation of these routes determined that they are not environmentally or technically preferred over the proposed route.

SCE invites you to join the DPV2 Project Team at an open house in your community. The purpose of the open house is to provide information to property owners, area residents and other interested parties about the proposed project, and answer your questions. The Project Team will have project maps and photo simulations available for viewing. SCE welcomes your attendance at any one of the open houses listed below.

Tuesday, April 11
4:00 p.m. – 8:00 p.m.
Quartzsite Elementary School – Cafeteria
930 W. Quail
Quartzsite AZ, 85346

Wednesday, April 12
9:00 a.m. – 12:00 noon
Best Western Central Phoenix Inn – Classic Room
1100 North Central Ave
Phoenix, AZ 85004

Wednesday, April 12
4:00 p.m. – 8:00 p.m.
Ruth Fisher Elementary School – Cafeteria
38201 W. Indian School Road
Tonopah, AZ 85354

For more information please call (602) 499-9888
or visit *www.sce.com/dpv2*

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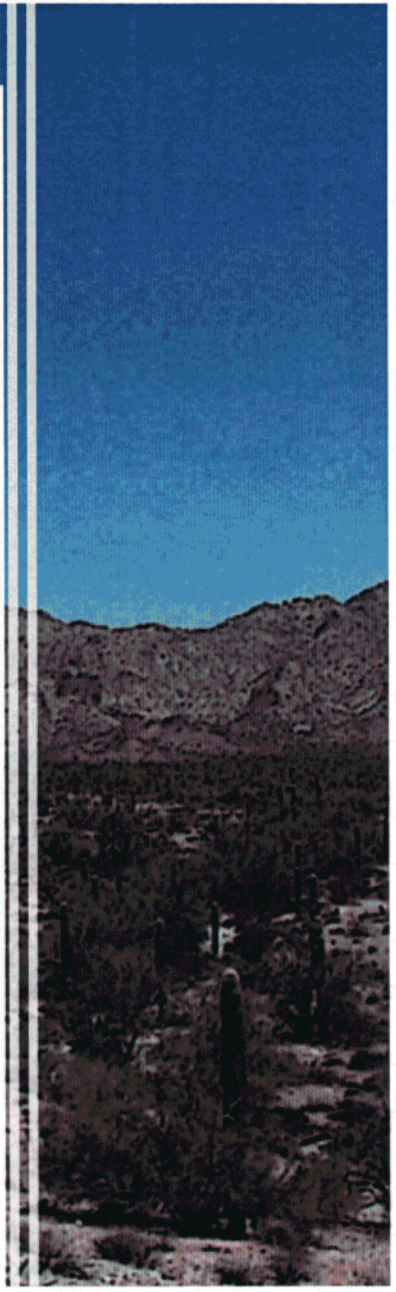

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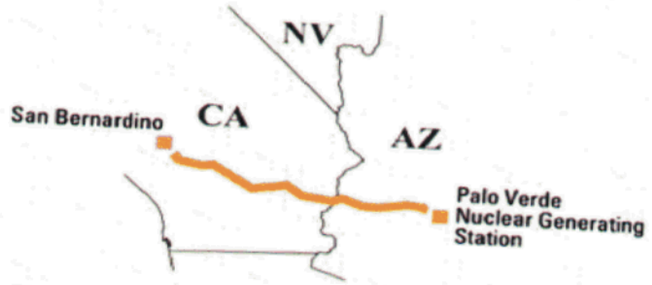
- Power Generation
- Environmental Commitment
- Electric Transportation
- Goals & Improvement Projects
  - Overview of Projects
  - Devers - Palo Verde No. 2
    - Project Description
    - Project Review Process
    - Current Project Status
    - Public Outreach and Communication
    - Project Contact Information
  - Antelope Valley
  - Auld-Moraga
  - Riverway
- Bettering Energy Efficiency and Power Sources
- Environmental Education
- Advanced Metering Infrastructure

Expand All | Collapse All

Goals & Improvement Projects

Devers - Palo Verde No. 2

Southern California Edison Company (SCE) is proposing to construct a new 230-mile, high-voltage electric transmission line between California and Arizona, within SCE's existing transmission corridor, parallel to an existing transmission line. The new line would also require upgrades to some of SCE's existing electrical transmission facilities in California. The project is known as Devers-Palo Verde No. 2 (DPV2).



To view a more detailed map of the proposed route click here.

Additional Documents

- SCE invites you to join the DPV2 Project Team at an **open house** in your community.
- A complete Project Update document is available **here** for your review
- This **Frequently Asked Questions mailer** and insert was mailed to residents of Banning, Beaumont, San Bernardino County, Colton, Grand Terrace, Calimesa, Loma Linda, Redlands and Yucaipa
- This **Frequently Asked Questions** mailer and insert was mailed to residents of Coachella, Indian Wells, Indio, La Quinta, Palm Desert, Rancho Mirage, Cathedral City, Desert Hot Springs, Palm Springs, Riverside County, and Blythe
- You can view the **documents** SCE filed at the California Public Utilities Commission, including the Application.

Tools & Resources

To view PDF files, download **Adobe® Reader®**

DPV2 Open House Fact Sheet

Related Links

Utility Glossary

Have Questions?

Click **here** for project contact information.

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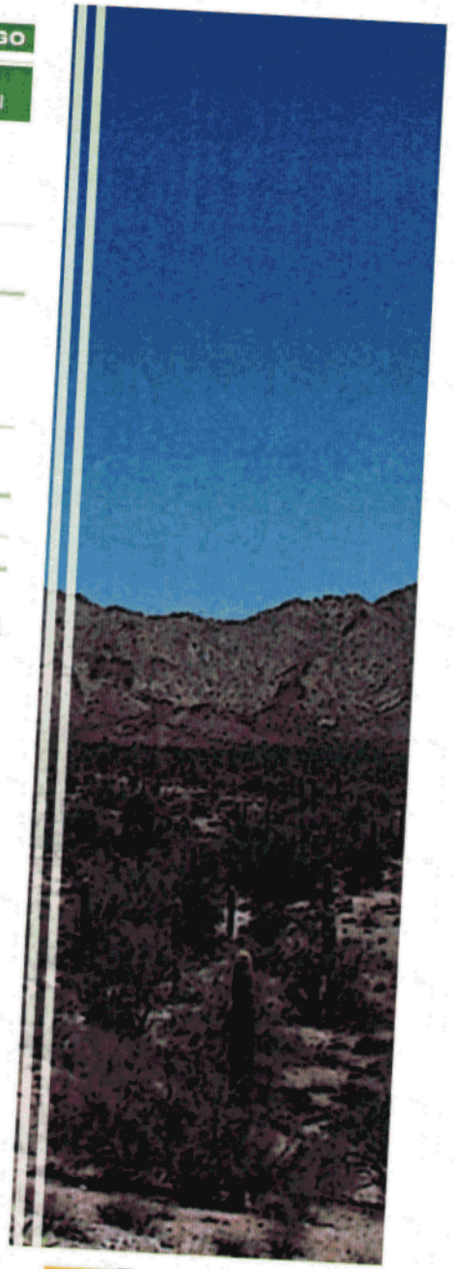

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SOUTHERN CALIFORNIA EDISON®
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Date: March 29, 2006

RE: SCE Devers-Palo Verde No. 2 500kV Transmission Project

Dear

SCE proposes to build a new 500-kilovolt (500kV) transmission line connecting the Harquahala Switchyard, located approximately 40 miles west of Phoenix, Arizona, to SCE's existing Devers Substation located approximately 10 miles north of Palm Springs, California. The majority of the transmission line will be constructed within existing SCE rights-of-ways and designated utility corridors. (see enclosed fact sheet).

The proposed transmission line is approximately 230 miles long, of which approximately 102 miles are in Arizona. The majority of the proposed transmission line would parallel the existing Devers-Palo Verde No. 1 (DPV1) 500kV transmission line. SCE proposes to construct this segment using lattice steel towers similar to the existing DPV1 towers. Approximately five miles of the proposed line would parallel an existing transmission line between the DPV1 right-of-way and the Harquahala Switchyard. This segment would be constructed using tubular steel poles. Additional transmission facilities would be constructed west of Palm Springs, California to complete this project.

Alternatives to SCE's proposed route include the Harquahala-West alternate, which would extend directly west from the Harquahala Generating station to the DPV1 right-of- way, and the Palo Verde alternate that would require construction of 10 miles of new transmission line that would connect to the Palo Verde Generating Station Switchyard. Project construction is scheduled to begin in 2007 and be completed in 2009.

The purpose of this letter is to request information regarding development plans in the vicinity of the proposed transmission line route in Arizona. Your response will be included in Exhibit H of the Application for a Certificate of Environmental Compatibility. Submittal of this application to the Arizona Power Plant and Transmission Line Siting Committee of the Arizona Corporation Commission is in compliance with Arizona Revised Statute 40-360 (Article 6.2).

We respectfully request your response in writing as to whether or not you are aware of any planned developments or activities in the vicinity of the proposed transmission line that should be brought to our attention.

We would appreciate your response by April 14, 2006 so that we can evaluate the information prior to the submittal of the application. Thank you in advance for your reply. Should you have any questions, please do not hesitate to call the DPV2 project office at 714-626-4666

Sincerely,

Fred Salzmann
Project Manager

Enclosure

SOUTHERN CALIFORNIA EDISON
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S

P.O. Box 800
2131 Walnut Grove Ave.
Rosemead, CA 91770

PUBLIC HEARING
SOUTHERN CALIFORNIA EDISON (SCE)

PALO VERDE HUB TO DEVERS No. 2 TRANSMISSION PROJECT

ARIZONA CORPORATION COMMISSION DOCKET No.
L-00000A-06-0295-00130

The Public is invited to participate at a public hearing before the Arizona Power Plant and Transmission Line Siting Committee

Commencing on:

June 26, 2006 at 9:30 a.m. at
The Wigwam Resort
300 Wigwam Blvd.
Litchfield Park, Arizona

SCE INFO: www.sce.com/powerandenvironment/goalsandimprovements/dpv2
ACC INFO: www.cc.state.az.us

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T

BLM RECORD OF DECISION
BLM - 1989

"The route alignment proposed by SCE is the preferred route of the Bureau of Land Management. It is also the environmentally preferred alternative for the following reasons. The route is utilized for interstate pipelines and transmission lines; impacts are confined to a utility corridor where environmental disturbances have already taken place. The original decision to route Devers-Palo Verde (DPV) No. 1 transmission line, which DPV No. 2 parallels, through the Kofa NWR was based on the greater potential for significant impact to bighorn sheep along the other alternatives. Detailed studies before, during and after construction of DPV No. 1 have not identified any significant adverse effect, and DPV No. 2 is expected to result in a similar negligible effects."

U

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VIRTUAL TOURS

- Virtual tour of proposed route
- Virtual tour of Palo Verde alternate route
- Virtual tour of Harquahala- West alternate route

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Exhibit A-2
LAND OWNERSHIP AND JURSIDICTION
Devers - Palo Verde No. 2 Transmission Line Project

Sources

United States Geological Survey (USGS), Phoenix, AZ (1969), Salton Sea, AZ (1969), 1:250,000-scale topographic maps. Arizona land ownership, EPG, Inc. 2000. Arizona land jurisdiction, Town of Quartzsite, 2003. KOFA, U.S. Fish and Wildlife Service. U.S. Bureau of Land Management, California State Office, June 1998. U.S. Department of the Interior, Bureau of Land Management. BLM Arizona Access Guide (La Posa), October 1999. Devers to Palo Verde No.2 PEA (1988), SEIS (1988).

Prepared By: Environmental Planning Group, Inc. May 2, 2006

Ownership

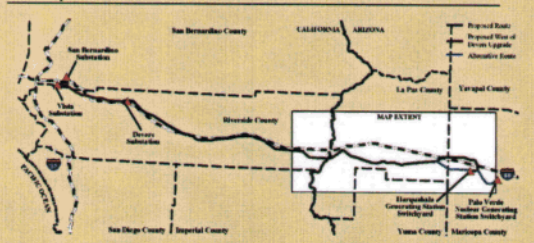
- Bureau of Land Management
- Bureau of Reclamation
- U.S. Fish and Wildlife Service
- Native American Tribe
- Yuma Proving Ground
- State
- Private

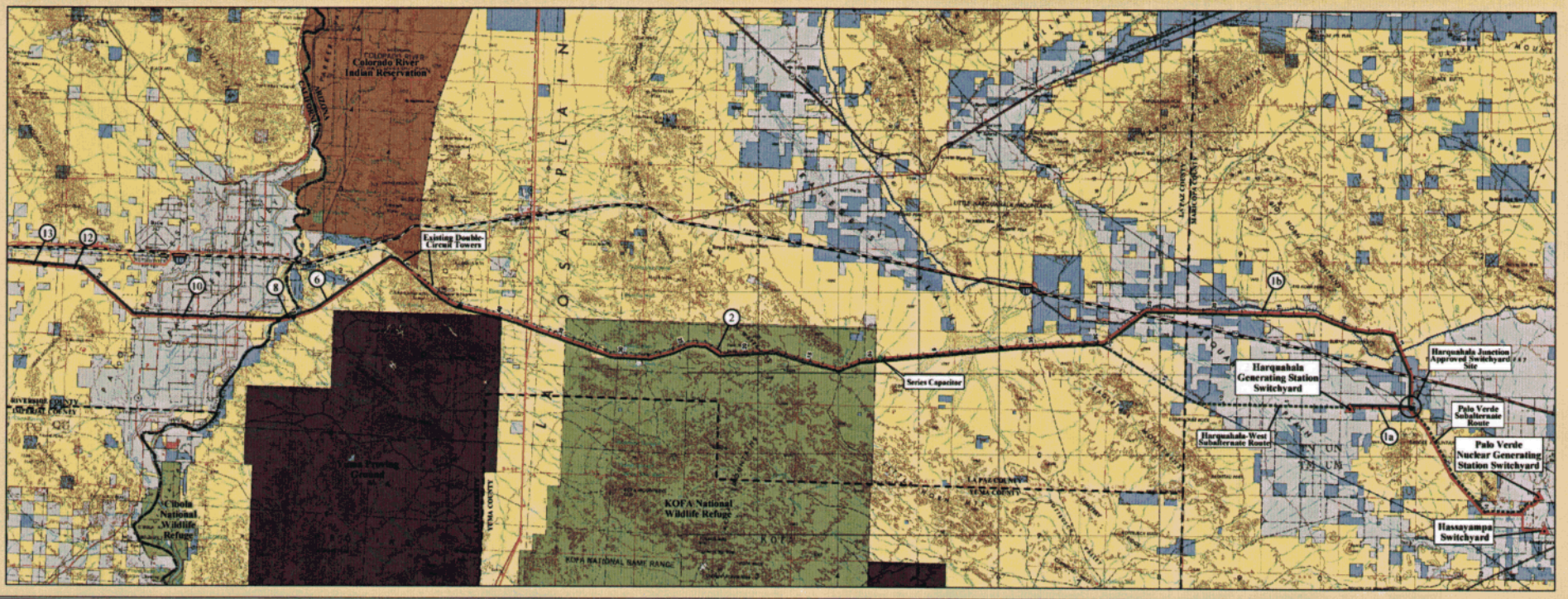
General Reference Features

- Proposed 500kV Transmission Line Route
- Alternative 500kV Transmission Line Route
- Existing 500kV Transmission Line
- Existing 230kV Transmission Line
- Existing 161kV Transmission Line
- Natural Gas Pipeline
- Central Arizona Project Canal (USBR)
- State Boundary
- County Boundary
- Substation/Switchyard
- Series Capacitor

Link Identifier
Reference Centerline
Milepost Identifier
Link Node

Index Map





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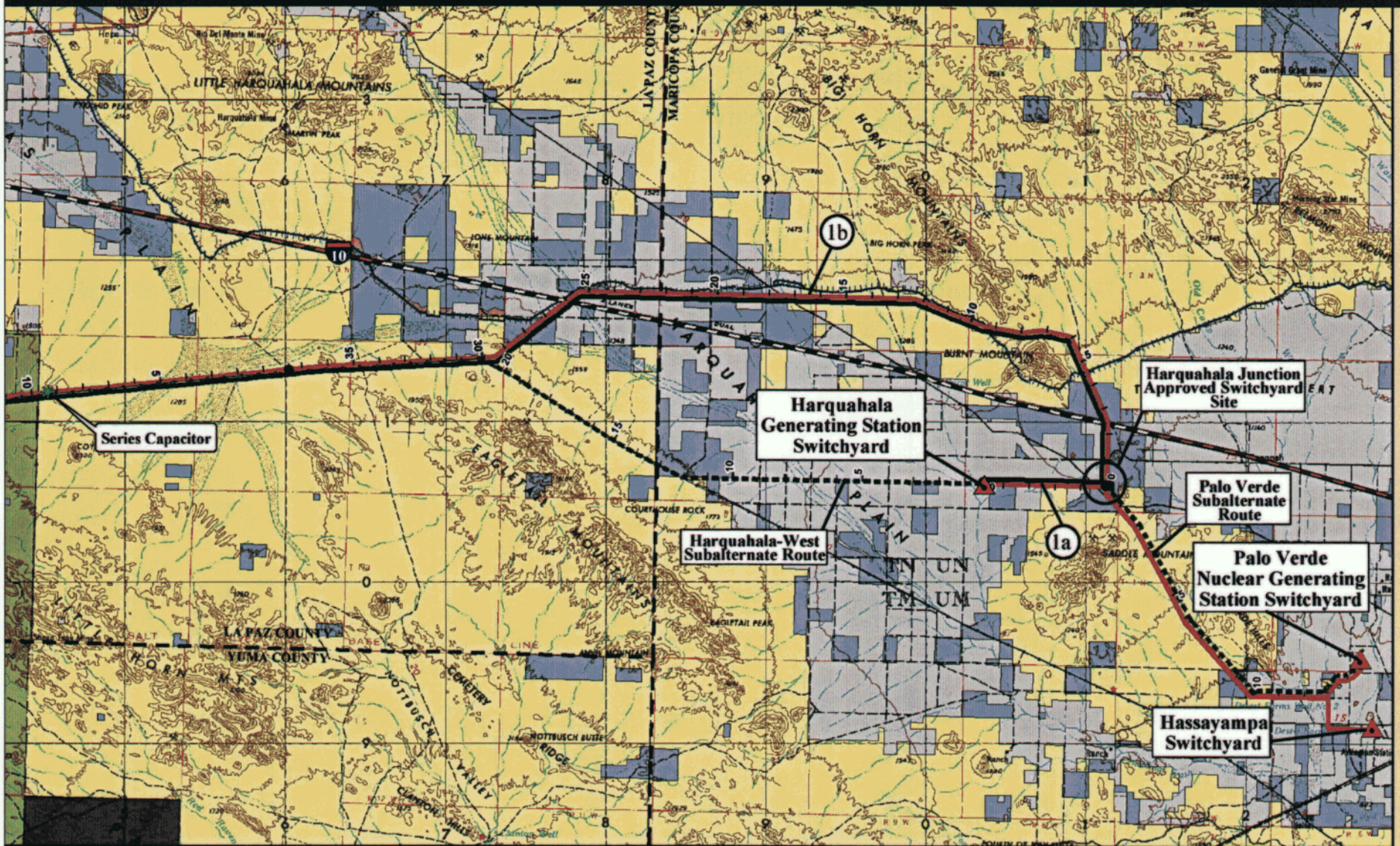

Series Capacitor
Harquahala Generating Station Switchyard
Harquahala Junction Approved Switchyard Site
Palo Verde Subalternate Route
Harquahala-West Subalternate Route
Palo Verde Nuclear Generating Station Switchyard
Hassayampa Switchyard
1a
1b
LITTLE HARQUAHALA MOUNTAINS
BIG HORN MOUNTAINS
LA PAZ COUNTY
YUMA COUNTY
MARICOPA COUNTY
EAGLETAIL MOUNTAINS
COURTHOUSE ROCK
BURNT MOUNTAIN
NOTTBUSCH VALLEY
CEMETERY RIDGE
NOTTBUSCH BUTTE
CLANTON HILLS
EAGLETAIL PEAK
SADDLE MOUNTAIN
TN UN
TM UM

X

EXISTING AND PLANNED LAND USE

Devers - Palo Verde No. 2 Transmission Line Project

Panel 1 of 2

Sources

United States Geological Survey (USGS), hillshade derived from USGS 30-meter Digital Elevation Models. Planned Land Use, Maricopa County, 2002 & La Paz County Land Use Plan, 2003. Land use data, EPG, Inc. 2003.

Prepared By: Environmental Planning Group, Inc. June 13, 2006

Land Use

EXISTING LAND USE

- Wilderness
- Residential - Low Density
- Single Family Dwelling Unit
- Industrial
- Agriculture
- Agriculture - Outstructure
- Communication Facility
- Abandoned Building
- Rest Area
- Airstrip

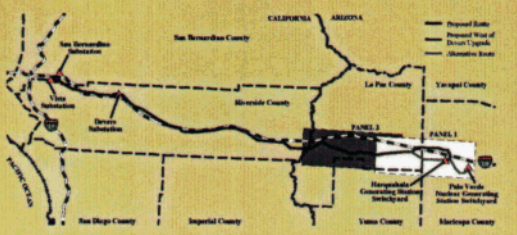
PLANNED LAND USE

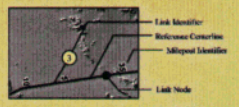
- Rural Residential
- Utility
- Employment
- Undesignated
- Platted Subdivision
- BLM Designated Utility Corridor

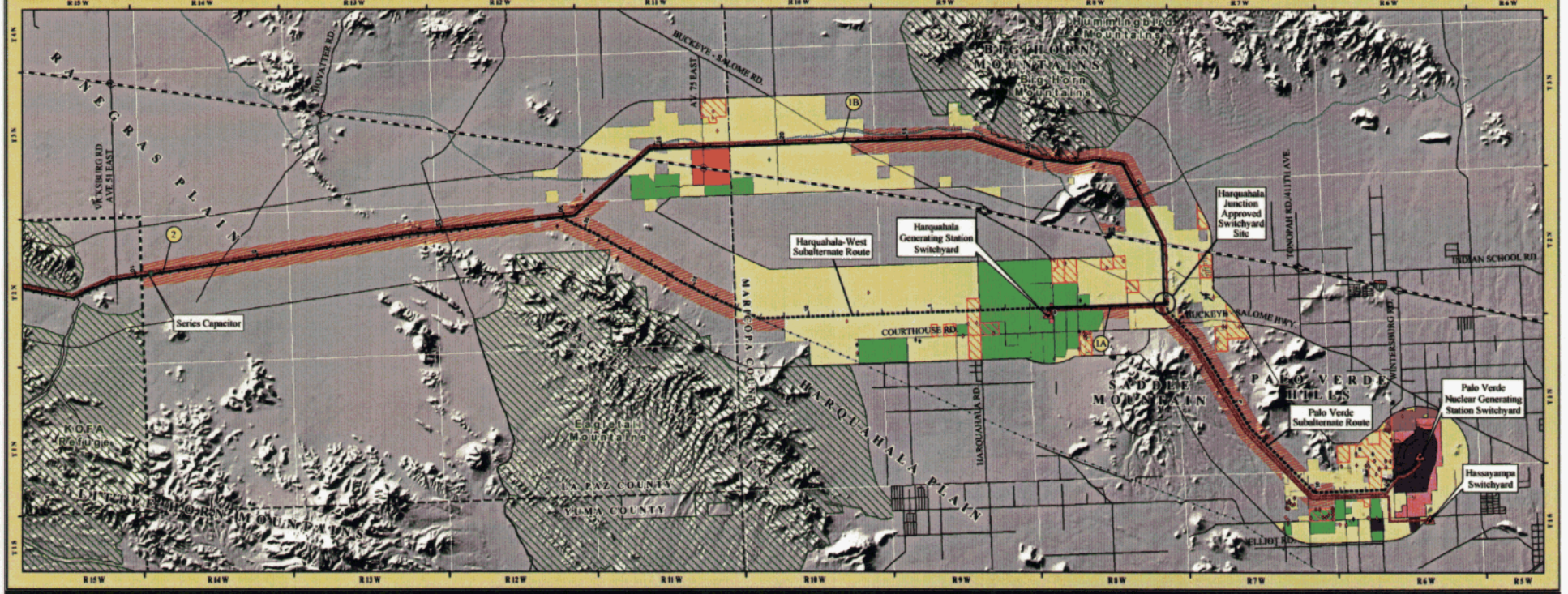
General Reference Features

- Proposed 500kV Transmission Line Route
- Subalternate Route
- Existing 500kV Transmission Line
- County Boundary
- Substation/Switchyard
- Interstate/Highway
- Central Arizona Project Canal
- Natural Gas Pipeline
- Roads
- Township and Range
- KOFA National Wildlife Refuge
- Series Capacitor

Panel Index Map







Y

EXISTING AND PLANNED LAND USE

Devers - Palo Verde No. 2 Transmission Line Project

Panel 2 of 2

Sources

United States Geological Survey (USGS), hillshade derived from USGS 30-meter Digital Elevation Models. Land use data, EPG, Inc. 2003.

Prepared By: Environmental Planning Group, Inc. June 13, 2006

Land Use

EXISTING LAND USE
- Wilderness
- Residential - Low Density
- Single Family Dwelling Unit
- Communication Facility

PLANNED LAND USE
- Undesignated
- BLM Designated Utility Corridor

General Reference Features
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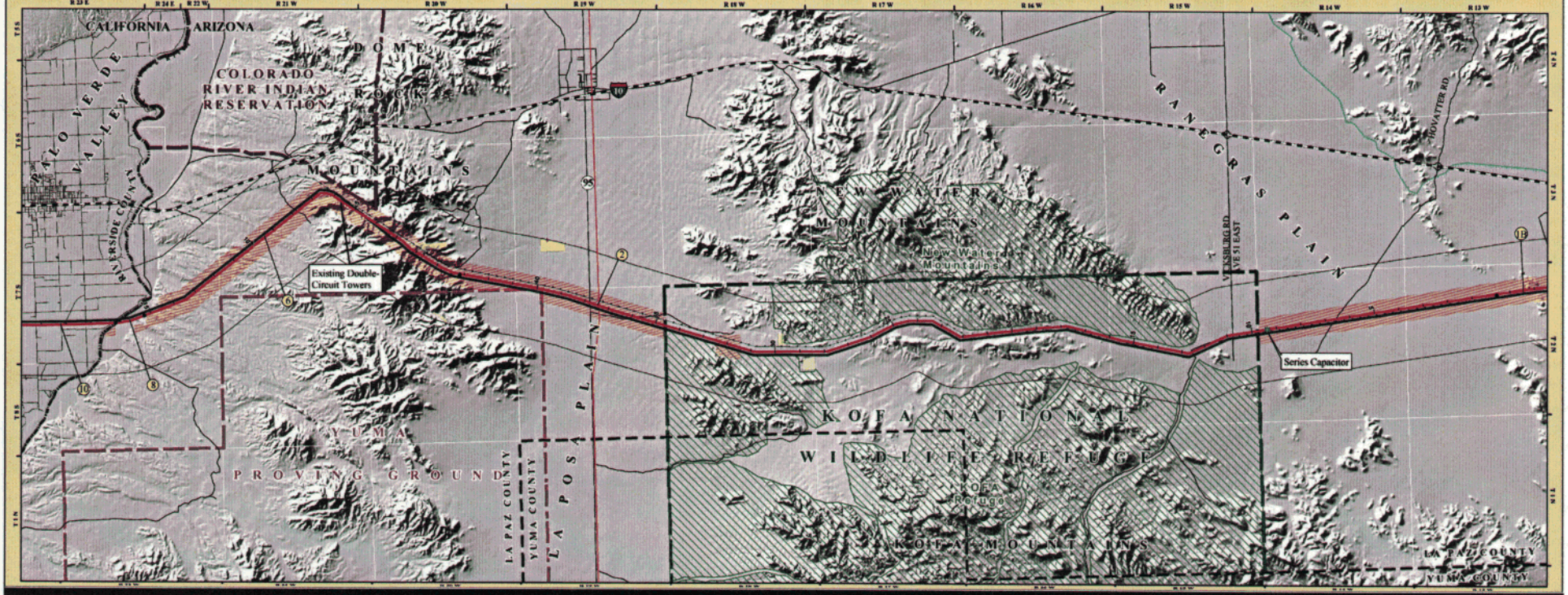
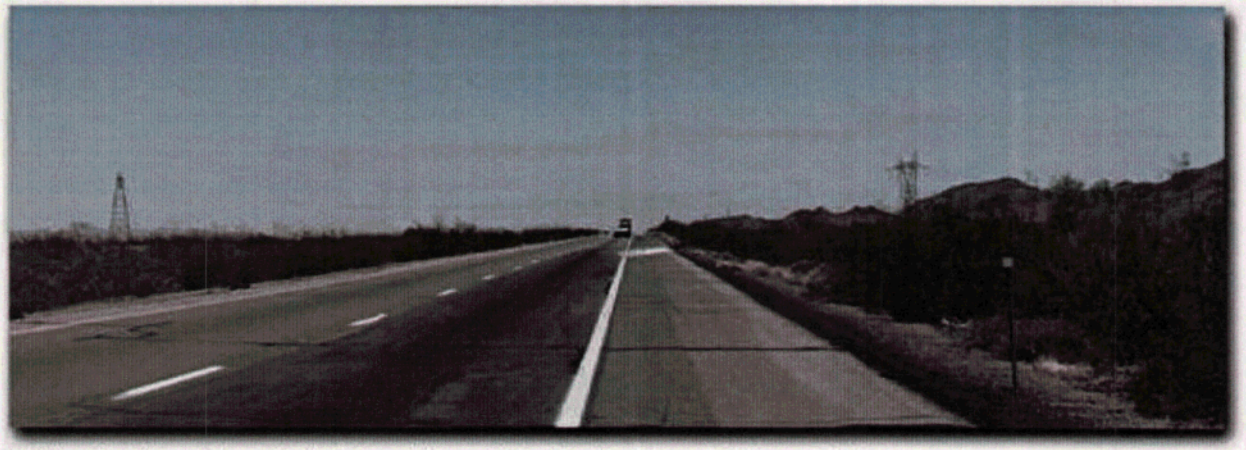
- Existing 500kV Transmission Line
- Existing 161kV Transmission Line
- State Boundary
- County Boundary
- Interstate/Highway
- Central Arizona Project Canal
- Natural Gas Pipeline
- Roads
- Township and Range
- Series Capacitor

Link Identifier
Reference Centerline
Milepost Identifier
Link Node

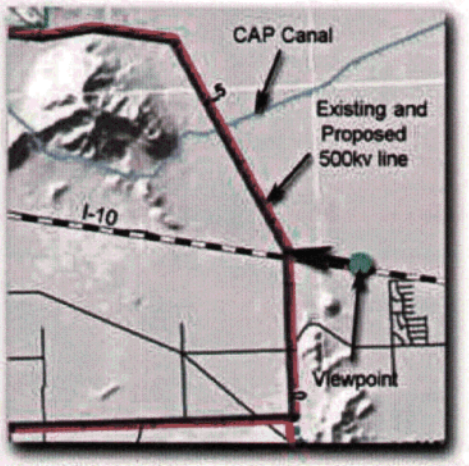
Panel Index Map



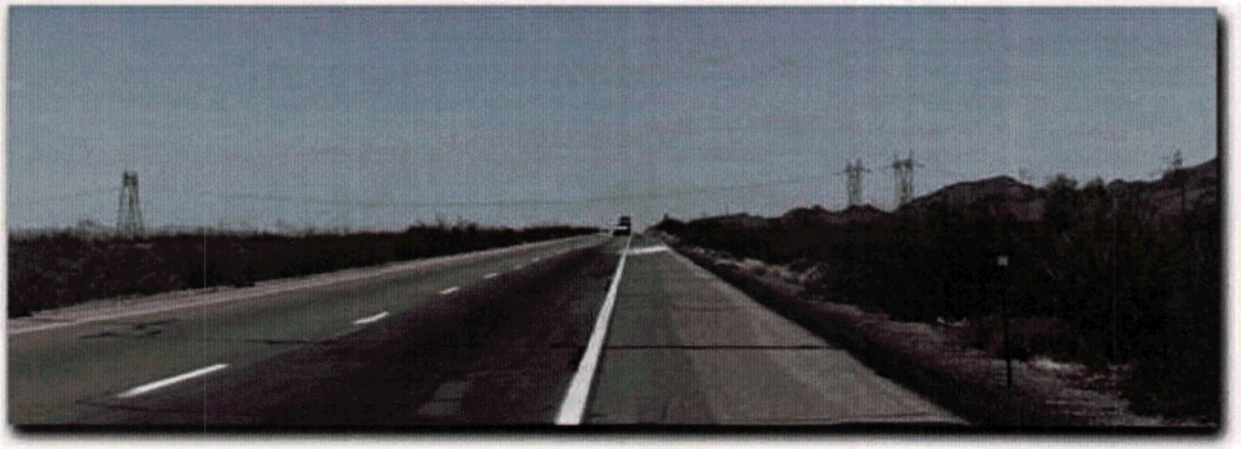
Z



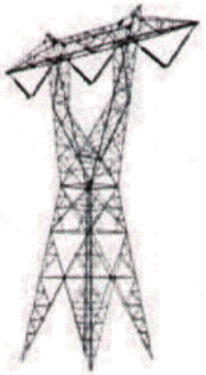
Existing Conditions - Transmission line corridor crossing Interstate 10 west of Tonopah, Arizona.
Photograph taken 7/26/04 at 12:26 p.m. using a 50mm focal length.



Viewpoint located along Interstate 10 west of Phoenix, Arizona looking west across the proposed project, approximately 0.6 mile from route crossing.

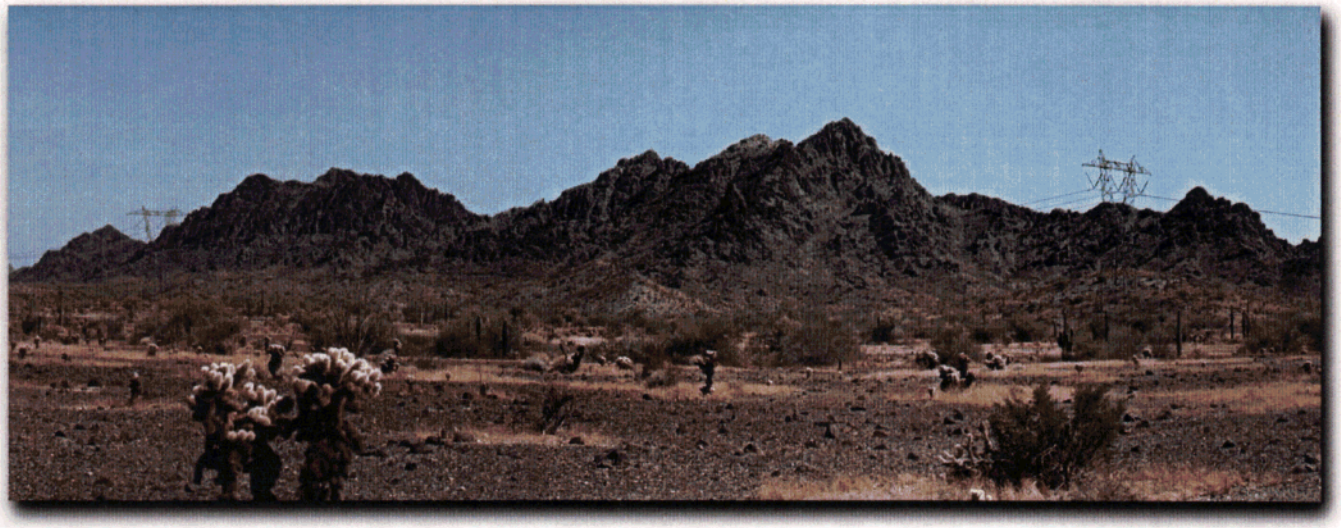


Simulation - Transmission line corridor crossing Interstate 10 west of Tonopah, Arizona with proposed Devers-Palo Verde No. 2 500kV lattice steel structure transmission line.
This image is most accurately viewed at a distance of approximately 11 inches from the page to match the actual field of view.

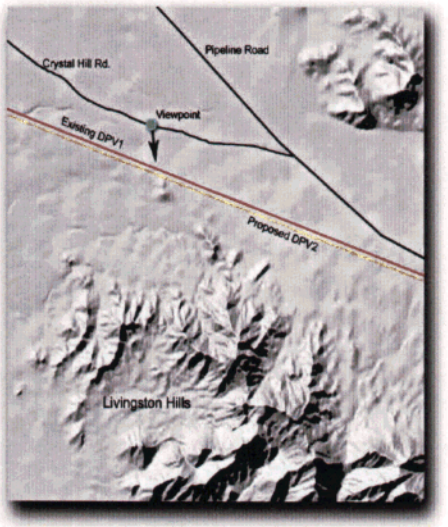


Typical 500kV single-circuit lattice steel tower used in simulations.
Proposed towers are simulated to match existing tower heights and spans.

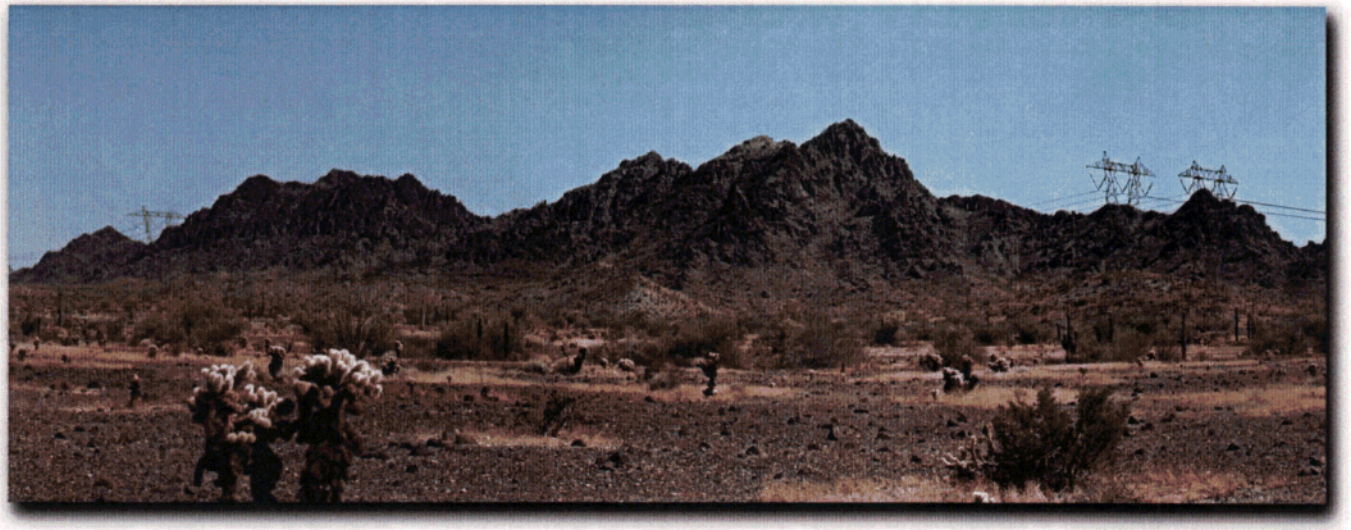
AA



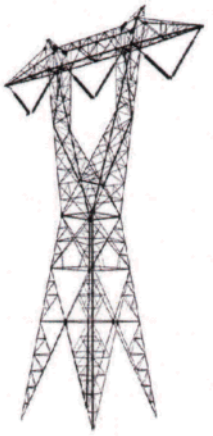
Existing Conditions – Looking southeast toward the Livingston Hills approximately 4.8 miles east of US 95, in the Kofa National Wildlife Refuge. Photograph taken 5/10/06 at 4:35pm using a 50mm focal length.



Viewpoint looking southeast from Crystal Hill Road toward the Livingston Hills, approximately 1/8 mile north of DPV1.



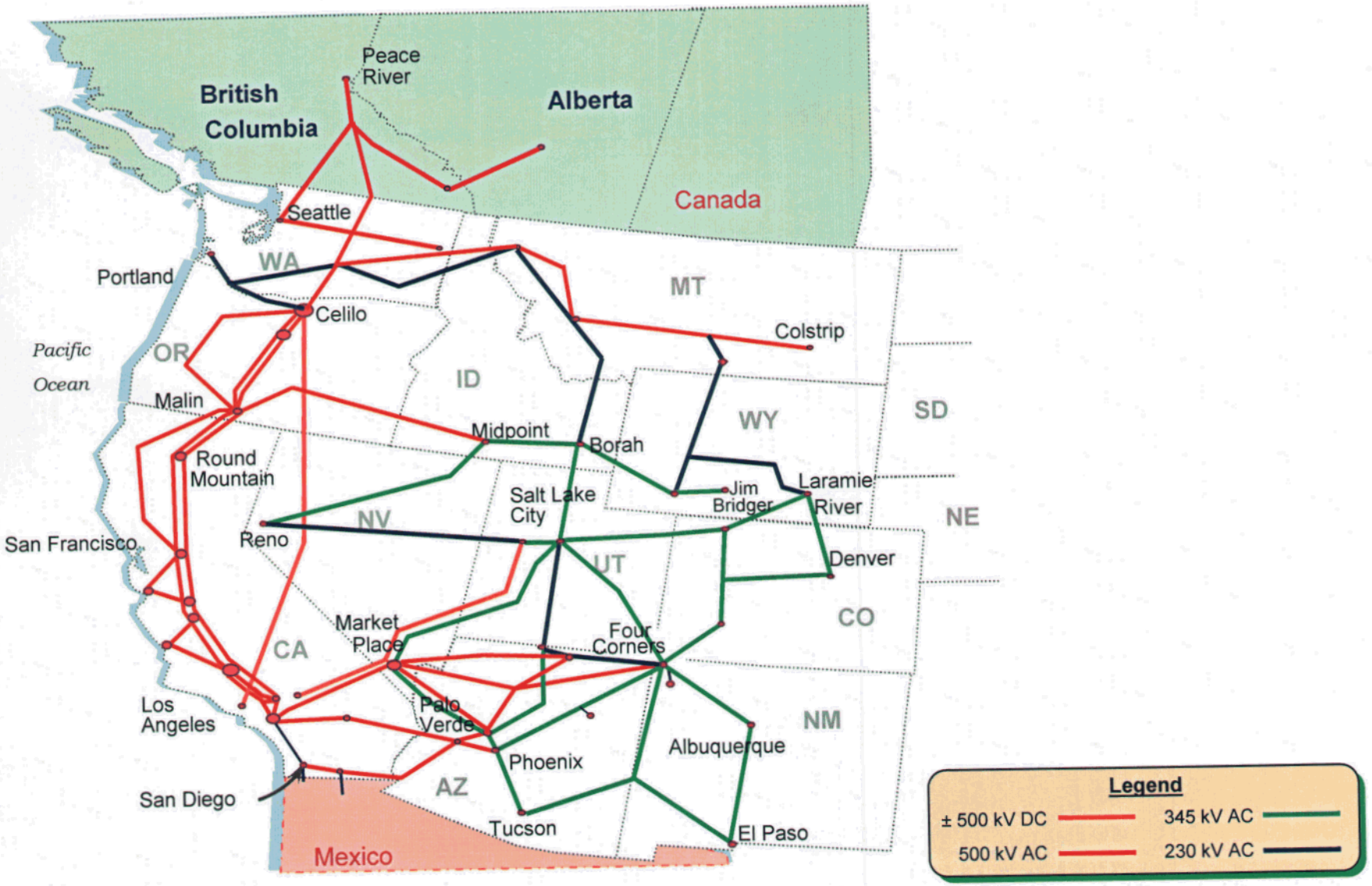
Simulation – Devers-Palo Verde No. 2, 500kV steel-lattice structure transmission line running adjacent to DPV1, north of the Livingston Hills. The proposed DPV2 line is offset 130 feet to the south of the DPV1 line.



Typical 500kV single-circuit steel lattice tower used in simulations. Tower/structure design has been provided by SCE engineering and is conceptual.

BB

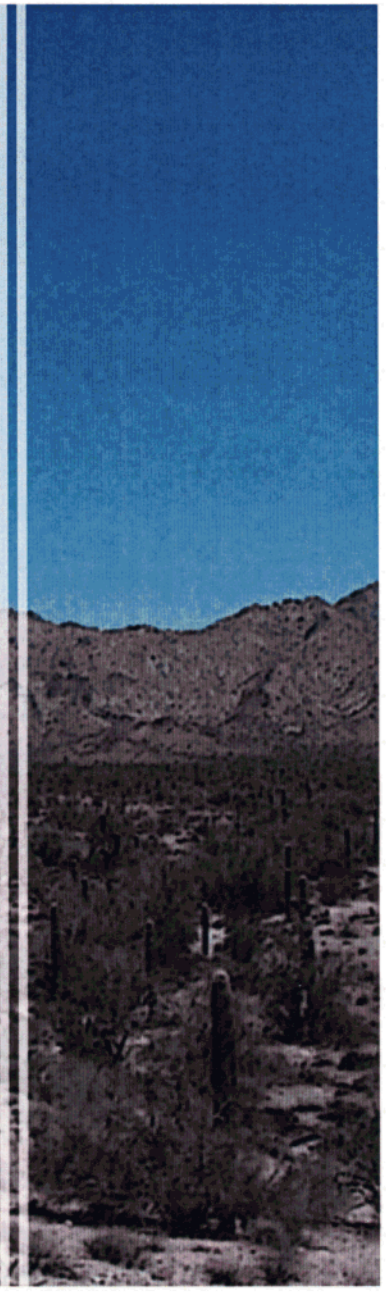
WESTERN TRANSMISSION GRID



CC

REGIONAL PLANNING ORGANIZATIONS: WECC

- Regional Reliability Organization for the Western Interconnection
- Mission:
  - Maintain a reliable electric power system in the Western Interconnection to support efficient competitive power markets
  - Act as the coordinating entity for activities of regional organizations with responsibilities for reliability and market functions



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REGIONAL PLANNING ORGANIZATIONS: STEP

- Ad-hoc voluntary organization whose membership is open to all interested stakeholders
- Provide a forum to plan, coordinate, and implement a robust southwest transmission system capable of supporting a competitive, efficient, and seamless west-wide wholesale electricity market while meeting established reliability standards

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REGIONAL PLANNING ORGANIZATIONS: SWAT

- Comprised of transmission regulators/governmental entities, transmission users, transmission owners, transmission operators, and environmental entities

- Promotes regional planning in the Desert Southwest

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REGIONAL PLANNING ORGANIZATIONS: WATS

- Task Force's primary responsibilities
  - Act as the planning analysis and operating technical study group used for consultation to Transmission E & O Committees:
    - Mead – Phoenix
    - ANPP
    - Navajo System
  - Provide planning and operating technical consultation for the East of River Transmission Path, WECC East of the River (Path 49)

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DPV2 TECHNICAL STUDIES

- East of the River (EOR) Rating Studies
  - WECC approved Aug '05
- West of the River (WOR) Rating Studies
  - WECC approved May '06
- Palo Verde Hub Extreme Contingency Analysis
  - WATS and PV E&O approved April '06
- Short Circuit Duty Analysis
  - WATS and PV E&O approved April '06

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DPV2 TECHNICAL STUDIES
(continued)

- Sub Synchronous Resonance Analysis
  - WATS and PV E&O approved April '06
- Special Protection Scheme Phase 1 Analysis
  - WATS and PV E&O approved April '06
  - Mead-Phoenix Project E&O endorsed on April '06

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PROPOSED REGIONAL TRANSMISSION PROJECTS

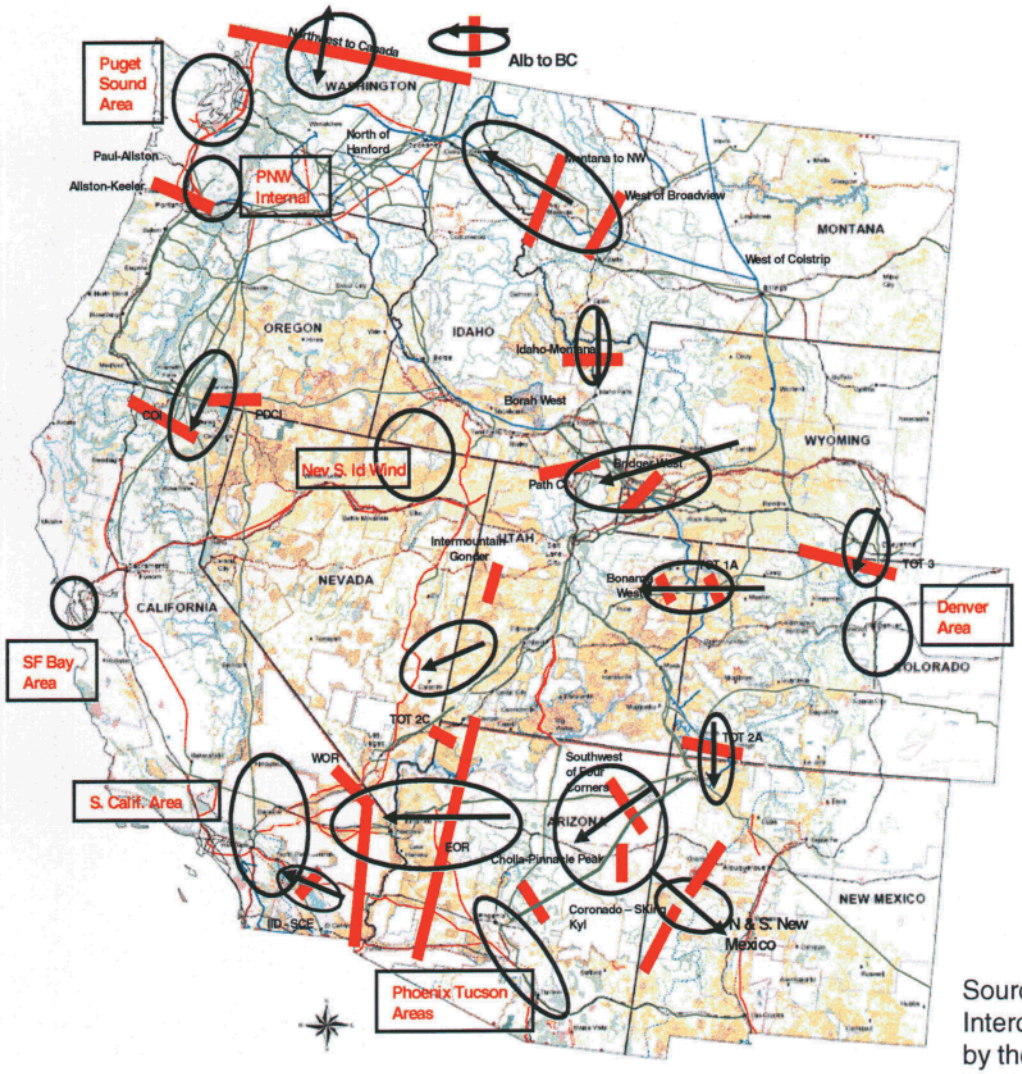
	Project Name	Transfer Capability	Planned Operating Year
A.	DPV2	1,200 MW	2009
B.	TransWest Express	3,000 MW	2013
C.	Frontier	3,000 MW	2015
D.	Navajo Transmission Project	1,500 MW	2010
E.	Palo Verde-North Gila	1,500 MW	2012
F.	Ely Energy Center	2,000/ 1,000 MW	2011
G.	Great Basin	1,430 MW	2008
H.	Northern Lights – Celilo Project	3,000 MW	2011
I.	Northern Lights – Inland Project Phase 1 & 2	3,000 MW	2011

Legend

New 500 kV AC

JJ

IDENTIFIED CONGESTED CORRIDORS

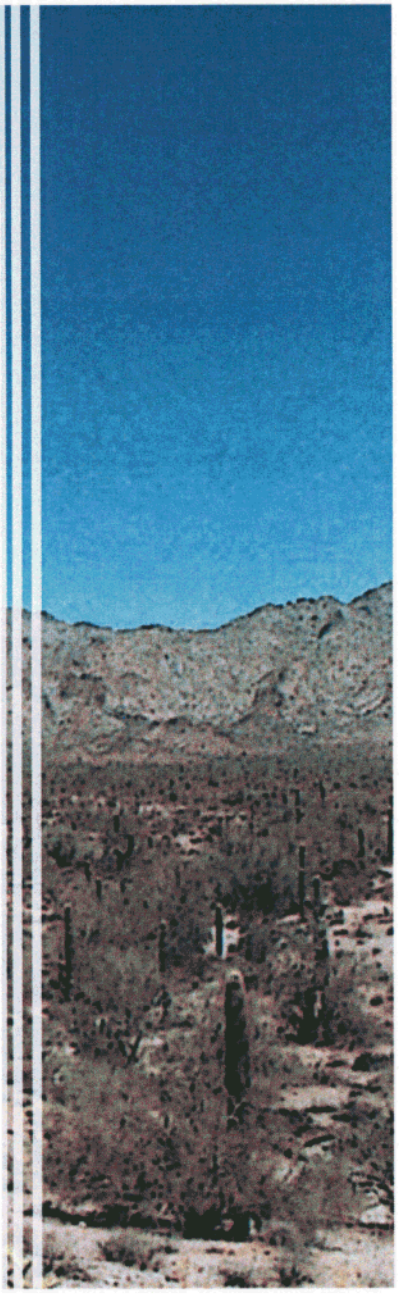


Congested WECC Path

Congestion Area

Direction of Congestion

Source: DOE Report on Western Interconnect Congestion Areas prepared by the Western Congestion Assessment Task Force (WCATF), dated May 8, 2006



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REGIONAL REVIEW: STEP

- Evaluated six alternatives
- DPV2 included in three of six alternatives
- Analyses led STEP to develop a preferred sequence of upgrades to expand the southwest transmission system
- DPV2 was included in this sequence as the preferred new 500kV line between Arizona and California

LL

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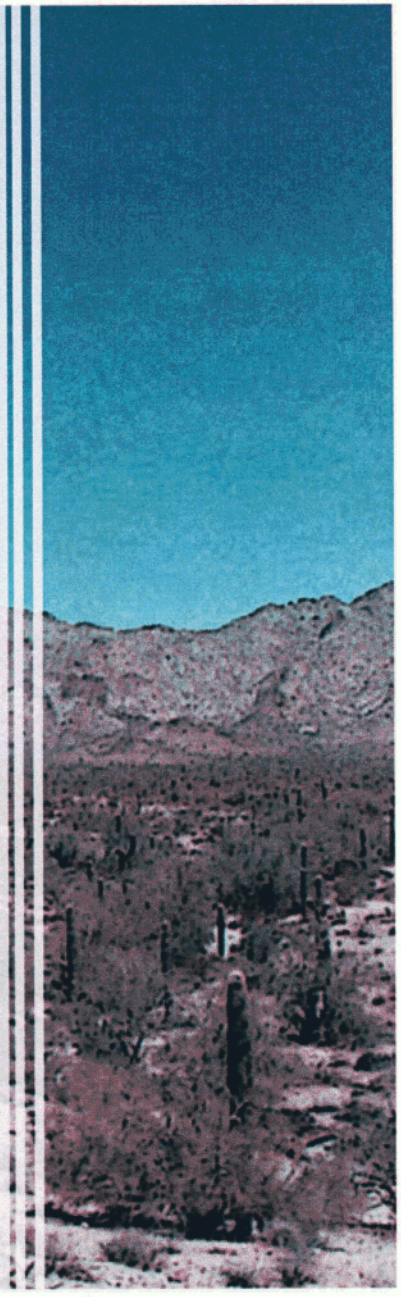
EXCERPT FROM EIR/EIS FOR DPV2 SECTION A. INTRODUCTION

"DPV2 would improve the reliability of the regional transmission system, providing insurance against major outages such as loss of a major generating facility or of another high-voltage transmission line; i.e., DPV2 will provide a hedge against low-probability, high-severity events such as short- and long-term outages of generating facilities, substations, and transmission lines." (Page A-9)



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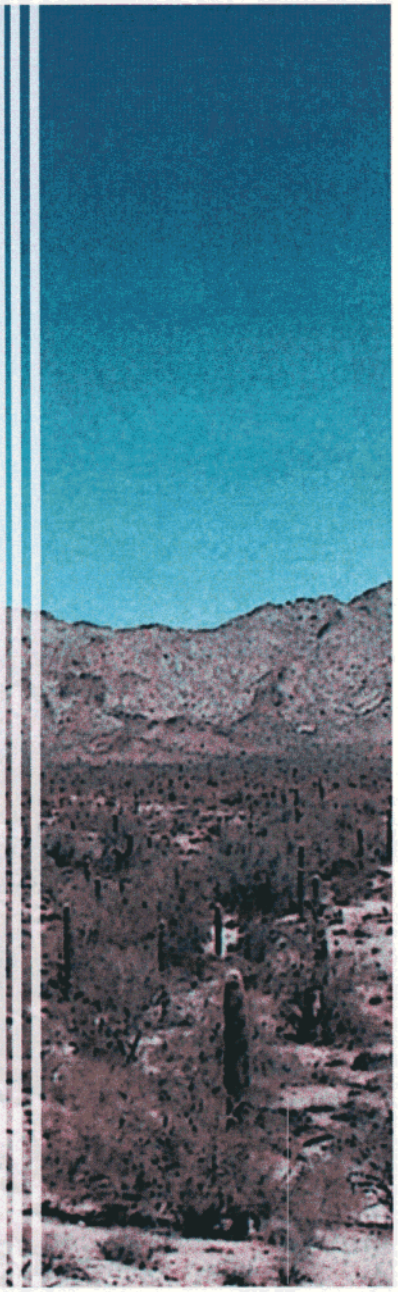
Excerpts from June 2, 2006 Letter to Commissioner Mayes from Jack Davis, APS President & CEO

"APS generally believes that the Western Electric Coordinating Council (WECC) region will benefit from the addition of interstate transmission such as the DPV2 project. The DPV2 line has been part of the regional planning efforts for many years because of the belief that its addition will increase the grid reliability throughout the region."



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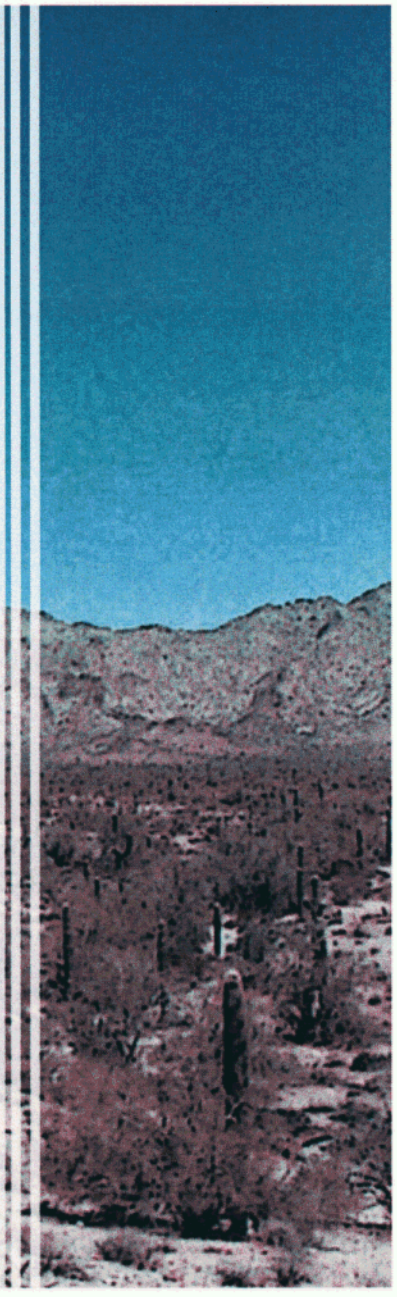
EXCERPTS (continued)

"Another interstate transmission project that could benefit overall grid reliability and is presently under study is the TransWest Express Project (TransWest) that APS has proposed. In addition to improving grid reliability, TransWest would allow APS, SRP and other southwest utilities to access the significant wind and coal resources located in Wyoming."

"The addition of DPV2 also could facilitate interest in the TransWest project by Southern California utilities, thus increasing the feasibility, and viability, of the project. APS will need to seek siting approval from other states for the TransWest line and hopes that those other states consider the regional value of the project when evaluating APS's request for siting approval."



SOUTHERN CALIFORNIA EDISON
An EDISON INTERNATIONAL® Company

3

THE STATE OF ARIZONA
GAME AND FISH DEPARTMENT
2221 WEST GREENWAY ROAD
PHOENIX, AZ 85023-4399
(602) 942-3000 • AZGFD.GOV
Yuma Office, 9140 E 28th Street, Yuma, AZ 85365-3596 (928) 342-0091

GOVERNOR
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COMMISSIONERS
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MICHAEL M. GOLIGHTLY, FLAGSTAFF
WILLIAM H. McLEAN, GOLD CANYON
BOB HERNBRODE, TUCSON
W. HAYS GILSTRAP, PHOENIX
DIRECTOR
DUANE L. SHROUFE
DEPUTY DIRECTOR
STEVE K. FERRELL

June 2, 2006

Fred Salzmann
Project Manager
DPV2 Project Office
1321 State College Blvd.
Fullerton CA 92831

Re: Application for Certificate of Compatibility for Devers Palo Verde No. 2 Transmission Line Project

Dear Mr. Salzmann:

The Arizona Game and Fish Department (Department) has reviewed the above-referenced Application for Certificate of Compatibility for the Devers-Palo Verde No. 2 Transmission Line Project (DPV2). The following comments are provided for your consideration.

The Department understands that the Southern California Edison (SCE) proposes to construct a 500 kV electrical transmission line from the Harquahala Generating Station Switchyard to the Devers Substation. The proposed route exits the Switchyard, parallels the existing Harquahala-Hassayampa 500 kV line to the existing Palo Verde Devers Transmission Right of Way (ROW). The route continues within the existing ROW and adjacent to the existing Palo Verde-Devers Transmission Line No. 1 to the California border.

The Department notes that proposed route is within an existing ROW and Bureau of Land Management utility corridor, is adjacent to the existing Palo Verde-Devers Transmission Line No. 1 and that existing access roads will be used to maximum extent possible. We further note that the application includes best management practices and mitigation to minimize potential impacts to biological resources. For these reasons the Department does not anticipate that the proposed route will result in significant adverse impacts to wildlife and wildlife habitats.

Thank you for the opportunity to provide comments on this application. The Department appreciates the opportunity to participate in this process and would appreciate an opportunity to review the draft EIR/EIS when it becomes available. If you have any questions, please contact me at 928-341-4047.

Arizona Pioneer Award for Quality
2005 Recipient

Sincerely,

William C. Knowles
Habitat Specialist
Region IV, Yuma

Attachment

cc: Russell Engel, Habitat Program Manager, Region IV
Rebecca Davidson, Proj. Eval. Prog. Supervisor, Habitat Branch

AGFD 05/25/06 (A)

Maricopa County
Planning & Development Department

501 North 44th Street, Suite 100
Phoenix, Arizona 85008
Phone: (602) 506-3301
Fax: (602) 506-3601
www.maricopa.gov/planning

May 22, 2006

Southern California Edison
Attention: Fred Salzmann
Devers – Palo Verde No. 2 Project Office
1321 State College Boulevard
Fullerton, CA 92831

SUBJECT: SCE Devers – Palo Verde No. 2 500kV Transmission Project

Dear Mr. Salzmann:

Thank you for the opportunity to provide information regarding development plans in the vicinity of the above referenced transmission project in western Maricopa County. While there are no applications for large developments currently being processed through our office in this vicinity, we know that this will likely change in the near future. There are several large master planned communities already in progress in the Tonopah region, and a continuation of this growth pattern is expected in the Harquahala region where this transmission project is located.

Given the anticipated growth and development in the Harquahala region, coupled with the significant impact that large transmission projects such as this have on development, Maricopa County reiterates its position that a new transmission line in this area would have a devastating effect on the Harquahala community and its future. Therefore, Maricopa County restates its recommendation for the transmission route that parallels the existing Devers-Palo Verde No. 1 route north of Interstate 10 and along the CAP Canal. This will help mitigate impacts to the Harquahala community by placing these transmission lines along a route where similar transmission lines already exist.

Thank you again for the opportunity to provide this information to you. Please feel free to contact me if you have any questions regarding my comments.

Sincerely,

Matthew Holm, AICP
Principal Planner

DEPARTMENT OF THE ARMY
UNITED STATES ARMY GARRISON YUMA
301 C. STREET
YUMA, ARIZONA 85365-9498

May 17, 2006

Directorate of Public Works

Fred Salzmann
Southern California Edison
DPV2 Project Office
1321 State College Blvd.
Fullerton, CA 92331

Dear Mr. Salzmann:

This responds to your letter of March 31, 2006. There is no planned development in the vicinity of that portion of the proposed Devers-Palo Verde No. 2 500kV transmission line which may enchroach upon Yuma Proving Ground at the northeast corner of Section 6, Range 19 West, Township 2 North, Gila and Salt River Meridian.

Point of contact for this action is the undersigned, telephone (928) 328-3137. A copy of this letter is furnished to the Garrison Manager, U. S. Army Garrison Yuma.

Sincerely,

James R. Marler
Realty Officer
U. S. Army Garrison Yuma

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
ARIZONA-NEVADA AREA OFFICE
3636 NORTH CENTRAL AVENUE, SUITE 900
PHOENIX, ARIZONA 85012-1939

REPLY TO
ATTENTION OF

April 27, 2006

Office of the Chief
Regulatory Branch

Fred Salzmann
Southern California Edison
One North Central Ave, Suite 1120
Phoenix, Arizona 85004

File Number: 2006-00957-SDM

Dear Mr. Salzmann:

It has come to our attention that you plan to construct a new 500kV transmission line connecting the Harquahala Switchyard west of Phoenix, Arizona, to the Devers Substation near Palm Springs, California.

This activity may require a Department of the Army permit issued under Section 404 of the Clean Water Act. A Section 404 permit is required for the discharge of dredged or fill material into the "waters of the United States," including adjacent wetlands. Examples of activities requiring a permit are placing bank protection, temporary or permanent stock-piling of excavated material, grading roads, grading (including vegetative clearing operations) that involves the filling of low areas or leveling the land, constructing weirs or diversion dikes, constructing approach fills, and discharging dredged or fill material as part of any other activity.

For more information, please access our website at www.spl.usace.army.mil/regulatory.

If you have questions, please contact Sallie D. McGuire at (602) 640-5385 x 221. Please refer to file number 2006-00957-SDM in your reply.

Sincerely,

Cindy Lester P.E.
Chief, Arizona Section
Regulatory Branch

Janet Napolitano
Governor

Mark Winkleman
State Land
Commissioner

Arizona
State Land Department

1616 West Adams Street Phoenix, AZ 85007 www.land.state.az.us

April 24, 2006

Southern California Edison
Attn: Fred Salzmann, Project Manager
DPV2 Project Office
1321 State College Blvd.
Fullerton, CA 92831

Re: Your Letter Of March 31, 2006
SCE Devers-Palo Verde No. 2 500kV Transmission Project

Dear Mr. Salzmann:

We are responding to your request for information on planned developments in the vicinity of the proposed transmission line routes in Arizona. We have been aware of the original route for some time. Given the lead time our development and planning activities have taken the possibility of a parallel second 500 kV line into consideration and we do not anticipate alignment conflicts..

Regretfully this is not true regarding the Harquahala-West Alternate Route. This is a relatively recent proposal and we have been unable to incorporate the alignment in our planning activities. While specific development plans for the effected parcels have not been completed, our long term conceptual plans indicate the possibility of significant negative impact. As a result we are advising that right of way across our land, for this alternative alignment, would be problematic.

We appreciate the chance to once again respond to the proposed alignments. We were unable to make the April 14, 2006, deadline given the short time period from when we received your request on April 6, 2006. If we can be of further assistance please contact me at 602-542-4041.

Sincerely,

James E. Gross
Project Leader II

Cc: Arizona Power Plant and Transmission Line Siting Committee of the Arizona Corporation Commission

DEPARTMENT OF THE AIR FORCE
AIR EDUCATION AND TRAINING COMMAND

11 April 2006

Mr. James R. Mitchell
Director, Community Initiatives Team
56th Fighter Wing
14185 West Falcon Street
Luke AFB AZ 85309-1629

Mr. Fred Salzmann, Project Manager
DPV2 Project Office
1321 State College Boulevard
Fullerton CA 92831

Re: SCE Devers-Palo Verde No. 2 500kV Transmission Project

Dear Mr. Salzmann

Thank you for the opportunity to provide comments on the proposed SCE Devers-Palo Verde No. 2 500kV Transmission Project. The project is proposing to build a new 500-kilovolt transmission line connecting the Harquahala Switchyard, located approximately 40 miles west of Phoenix, Arizona to SCE's existing Devers Substation located approximately 10 miles north of Palm Springs, California. The proposed line will be approximately 230 miles long, extending west, generally south of the Interstate 10.

Although this project is outside the area affecting Luke AFB flying operations, it may affect Military Training Routes (MTR) throughout Arizona. To ensure compatibility with the MTRs, please review the following web site: http://www.re.state.az.us/militaryairport1.html . We also recommend a review of the Luke AFB web site at http://www.luke.af.mil, Community Interests and Community Initiatives links, for further information.

If there are any questions, please contact my Community Planner, Mr. Bob Dubsky, at (623) 856-6195.

Sincerely

JAMES R. MITCHELL

cc:
Colonel David L. Orr, Vice Commander, 56th Fighter Wing

From: Mike Sabatini - MCDOTX [mailto:MikeSabatini@mail.maricopa.gov]
Sent: Wednesday, June 07, 2006 1:59 PM
To: Frederick.Salzmann@SCE.com
Cc: Mickey Siegel
Subject: RE: SCE letter response

Fred Salzmann, Project Manager
DPV2 Project Office
1321 State College Blvd.
Fullerton, CA 92831

RE: SCE Devers-Palo Verde No. 2 500kV Transmission Project

Mr. Salzmann,

I have reviewed the attached letter and maps against the capital improvements program for the Maricopa County Department of Transportation (MCDOT). MCDOT does not have any capital improvements scheduled in the next five years in the SCE Devers-Palo Verde No. 2 500kV Transmission Project corridor. We do conduct regular maintenance activities on the roads we maintain in the vicinity. Feel free to visit our website where we have an electronic copy of our capital improvement program (http://mcdot.maricopa.gov/tip/home.htm).

You should be aware of a subarea road study underway by the Maricopa Association of Governments (MAG). Bob Hazelett is the project lead at MAG. The western limits of the study extend to approximately the Tonopah Road vicinity. It is not likely there will be any imminent capital projects derived from the planning effort.

Feel free to e-mail me or call me at 602-506-8628 if you have any questions.

Sincerely,

Michael W. Sabatini

Michael W. Sabatini, P.E.
Division Manager
Transportation Planning Division
Maricopa County Department of Transportation
2901 W. Durango
Phoenix, AZ 85009
P: 602-506-8628
F: 602-506-4882

4

The Arizona Republic

May. 19, 2006

Ariz.-Calif. power line mulled

Palo Verde plan could raise prices here

Ken Alltucker

State regulators worry that a proposed high-voltage electricity line from Palo Verde Nuclear Generating Station to California could significantly raise electricity costs for Arizonans and divert needed power away from Arizona.

One study estimates that Southern California Edison Co.'s 230-mile transmission line from Palo Verde to the Palm Springs, Calif., area would cost Arizona consumers more than $230 million from 2009 through 2014.

The reason: The transmission line would give Californians access to Arizona's less-expensive electricity.

"The consumer impact is a real concern," Arizona Corporation Commissioner Kris Mayes said. "Is this going to drain Arizona of much-needed energy, and is this going to drain the pocketbooks of consumers?"

Southern California Edison needs the Corporation Commission's approval to build the $581 million transmission line, which would link an electrical switchyard near Palo Verde to the Devers substation near Palm Springs.

The proposed line would run parallel to an existing transmission line that already is full of electricity zapped from Palo Verde to southern California.

Southern California Edison wants to build the second line to get Arizona's excess electricity, including power from several independently owned natural-gas plants ringing the Palo Verde nuclear plant.

Southern California Edison representatives say the line would be a boon for Arizona because it would bolster the reliability of the state's electricity supply, generate nearly 500 construction jobs over two years and provide about $2 million in annual property taxes for Maricopa and La Paz counties.

But Arizona regulators say they will scrutinize the project's impact on Arizona ratepayers, the state's electricity grid and the environment. The project also needs approval from the California Public Utilities Commission and the Bureau of Land Management.

Both Mayes and Corporation Commission Chairman Jeff Hatch-Miller have written letters questioning the project's costs, benefits and impact.

"There is no doubt that California wants the cheaper power," Hatch-Miller said. "California is not building (many new power plants) inside their state."

Southern California Edison representatives said they soon will answer specific questions raised by Mayes and Hatch-Miller.

In a written statement, SCE said the line would be paid for by California consumers and would benefit Arizona's electrical grid.

SCE declined to discuss its economic report submitted last year to the California Independent System Operator, which oversees California's electricity grid. The report shows the transmission line would cost Arizona consumers more than $230 million from 2009 through 2014.

The same report shows that Arizona power plants would get a $164 million boost through sales to California customers. The plants around Palo Verde have struggled, being unable to sell excess power due to a lack of demand in Arizona and insufficient transmission capability to send the power to California.

SCE's report also showed that Californians would greatly benefit from access to Arizona's cheaper electricity. The report estimated that California consumers would get a net benefit of nearly $970 million from 2009 though 2014.

There are other factors, however, that state regulators must consider.

Arizona Public Service could use the line to sell its excess electricity.

During the company's annual meeting on Wednesday, Chairman Bill Post said the line has the potential to "expand our wholesale power markets."

"I believe California's electric prices will always exceed ours and, therefore, the California market offers important business opportunities," Post said.

"Greater access to those markets will give us the opportunity to reduce our customers' costs with additional sales while increasing our own profitability."

Associated Press Newswires
May 19, 2006

New power line could lead to higher Arizona rates

PHOENIX (AP) - An Arizona-to-California power line proposed by Southern California Edison could cost Arizona ratepayers more than $230 million in its first five years of operation, the utility said in a report filed with California's grid operator.

But it could save California customers $970 million in the same period, provide a boost to some underused power plants in Arizona and help the state's largest utility when it has extra power to sell, the Edison report shows.

Edison hopes to build the high-voltage transmission line from the Palo Verde Nuclear Generating Station outside Phoenix west to Palm Springs, Calif. The intent: tap into cheaper power available here and ship it to California.

The $581 million transmission line would run parallel to an existing line already sending Palo Verde power to California, but its added capacity would also allow the utility to tap into power from several new private gas-fired generating plants in the area.

More demand for Arizona power would likely lead to an estimated $230 million in higher prices for local utility customers between 2009 and 2014, according to Edison's economic impact report to the California Independent System Operator, the overseer of the power supply there.

"The consumer impact is a real concern," said Kris Mayes, who sits on the utility-regulating Arizona Corporation Commission. "Is this going to drain Arizona of much-needed energy, and is this going to drain the pocketbooks of consumers?"

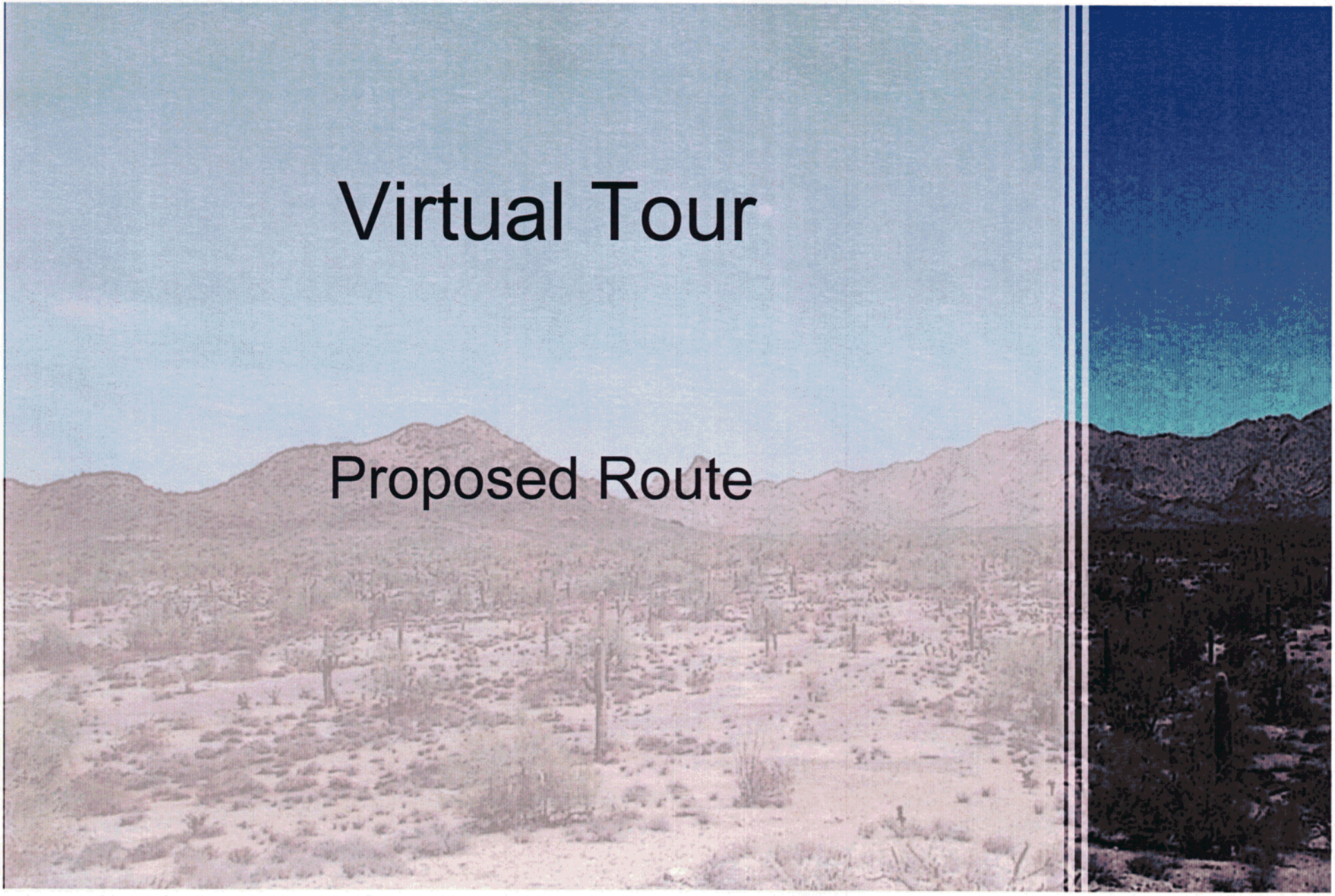
Edison needs approval from the Arizona regulators, the California Public Utilities Commission and the Bureau of Land Management to build the line.

Edison officials say the line would benefit Arizona by improving the state grid's reliability, creating 500 jobs during the two-year construction period and paying $2 million a year in property taxes in Maricopa and La Paz counties.
Both Mayes and Jeff Hatch-Miller, the Corporation Commission's chairman, have written letters questioning the project's costs, benefits and impact. Edison representatives said they will answer specific questions by June 26.

5

Virtual Tour

Proposed Route



SOUTHERN CALIFORNIA EDISON

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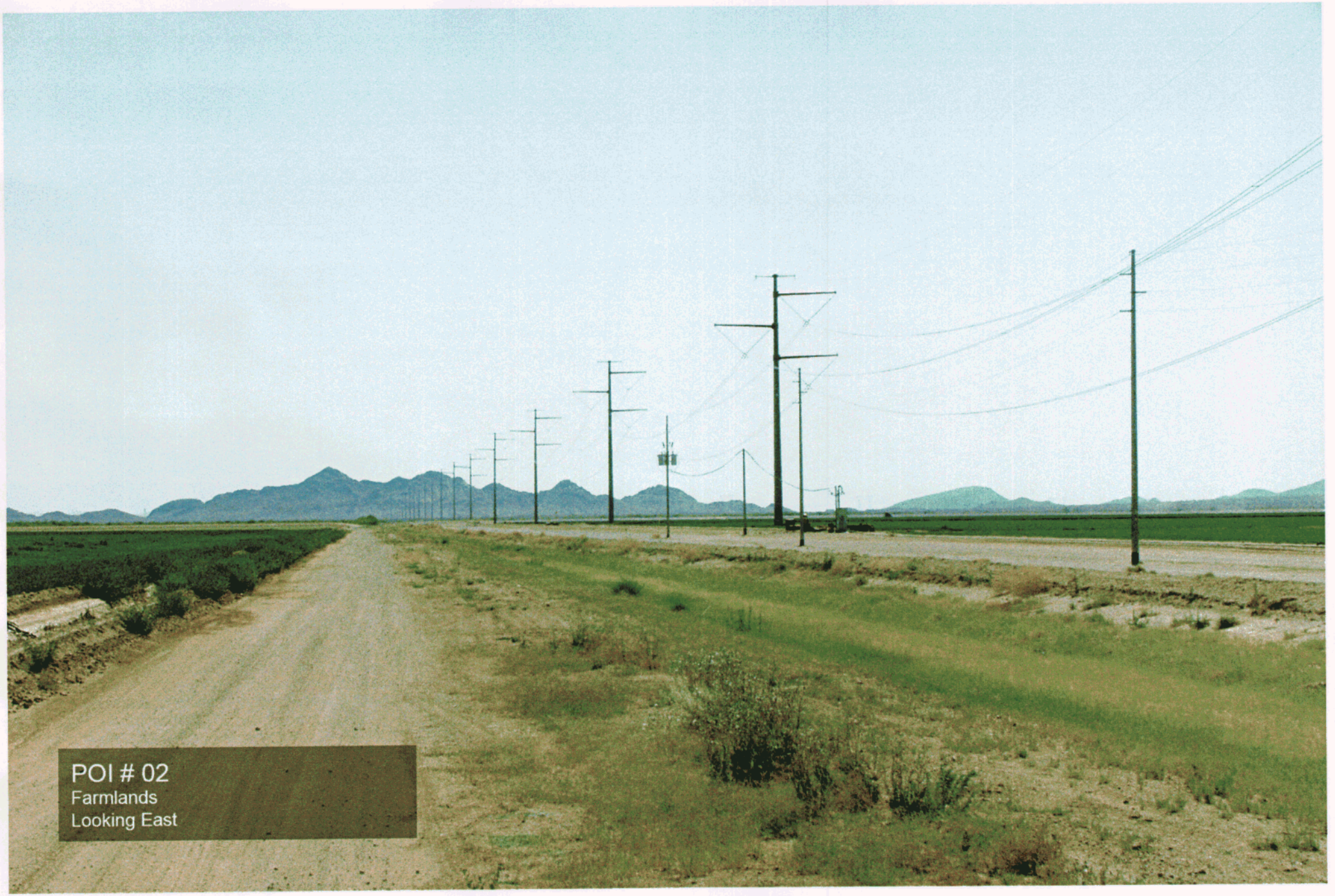
POI # 01
Harquahala Generating Station
Looking Northeast


POI # 02
Farmlands
Looking East

POI # 3a
Harquahala Junction
Looking North

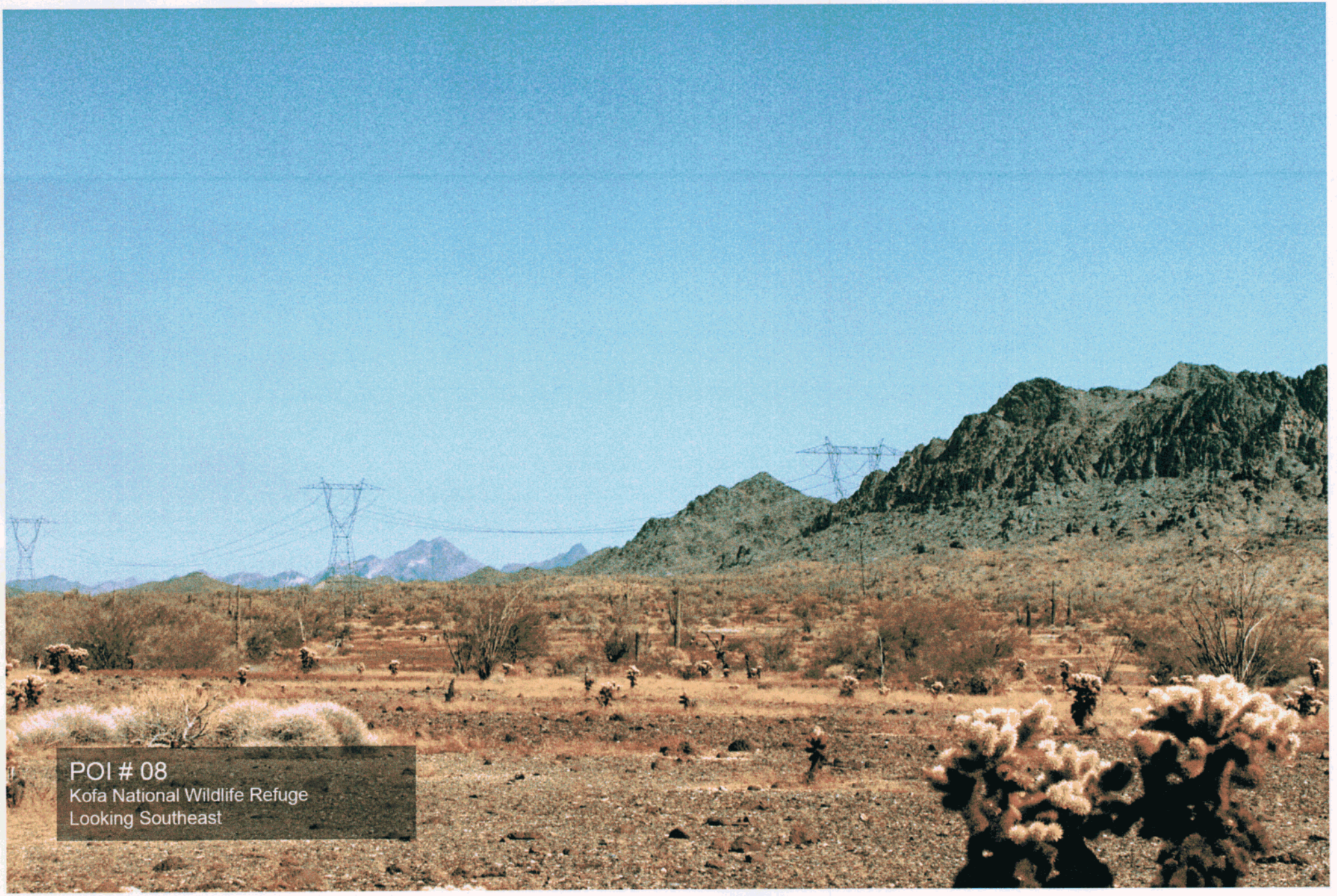
POI # 3b
Harquahala Junction
Looking South

POI # 04
Interstate 10
Looking West

POI # 05
Big Horn Mountains
Looking North

POI # 06
Interstate 10
Looking West

POI # 07
Kofa National Wildlife Refuge
Looking West - Southwest

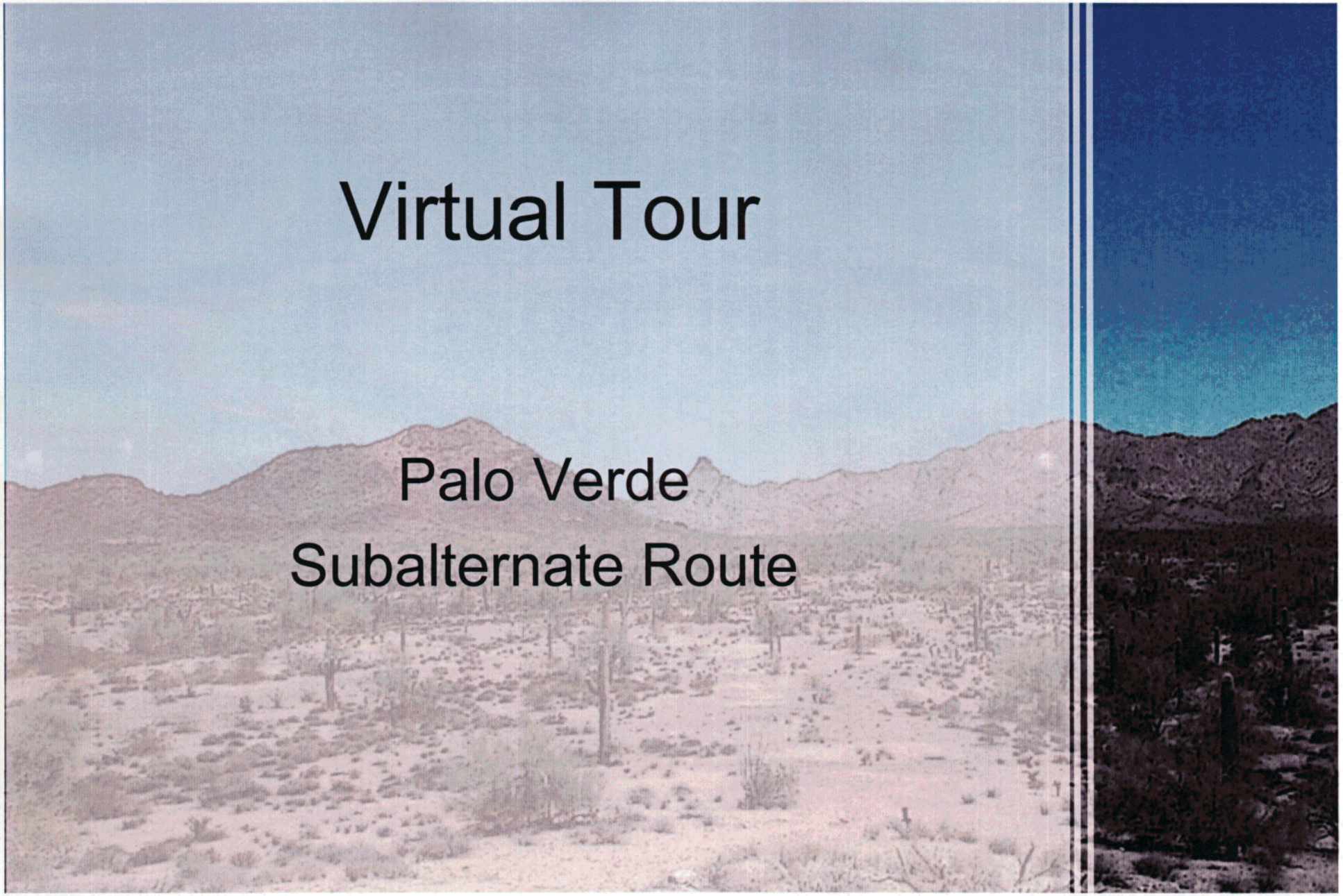

POI # 08
Kofa National Wildlife Refuge
Looking Southeast

POI # 09
U.S. Highway 95
Looking East

POI # 10
Copper Bottom Pass Road
Looking East

POI # 11
Copper Bottom Pass
Looking West

POI # 12
Colorado River
Looking East



Virtual Tour

Palo Verde
Subalternate Route

SOUTHERN CALIFORNIA
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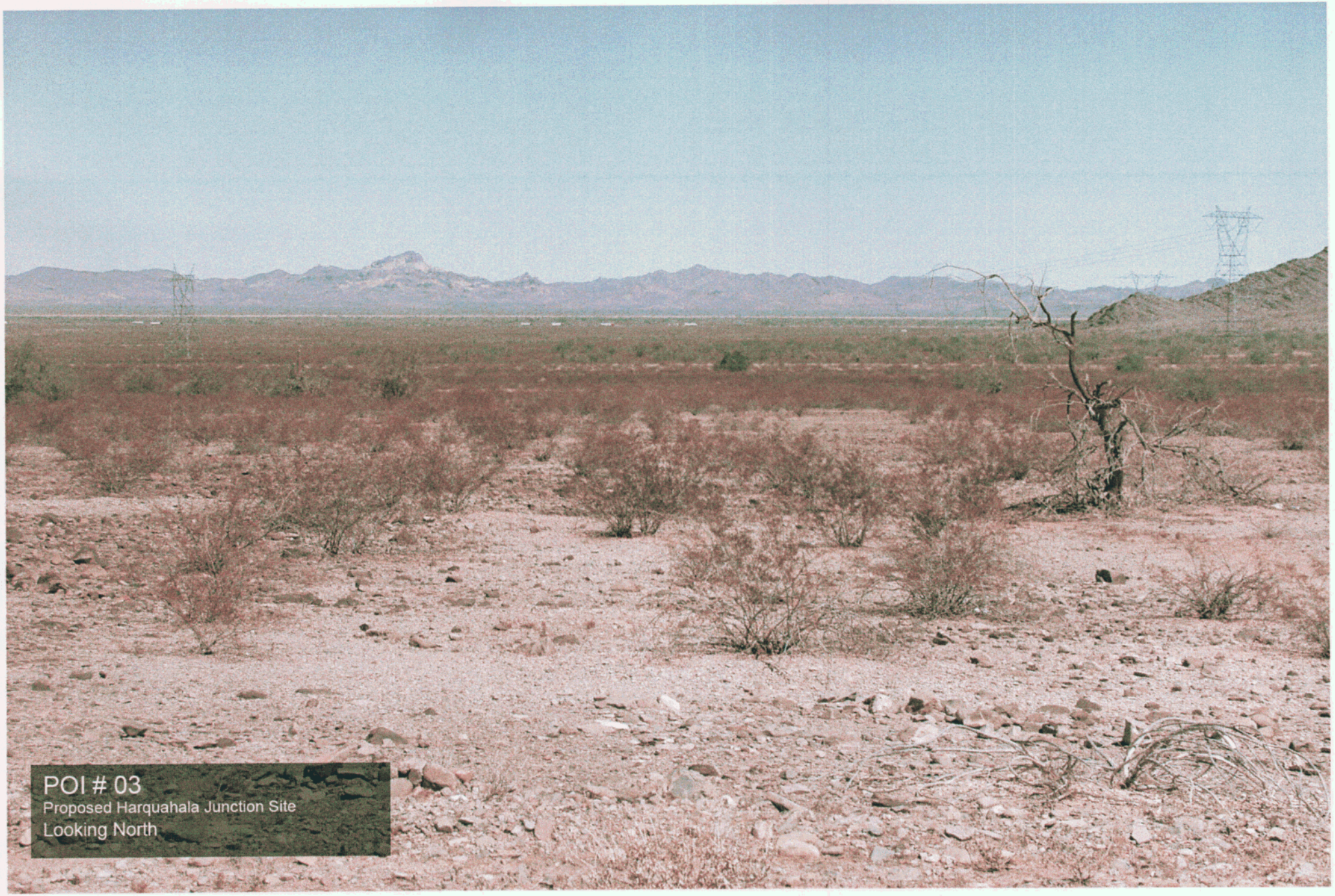
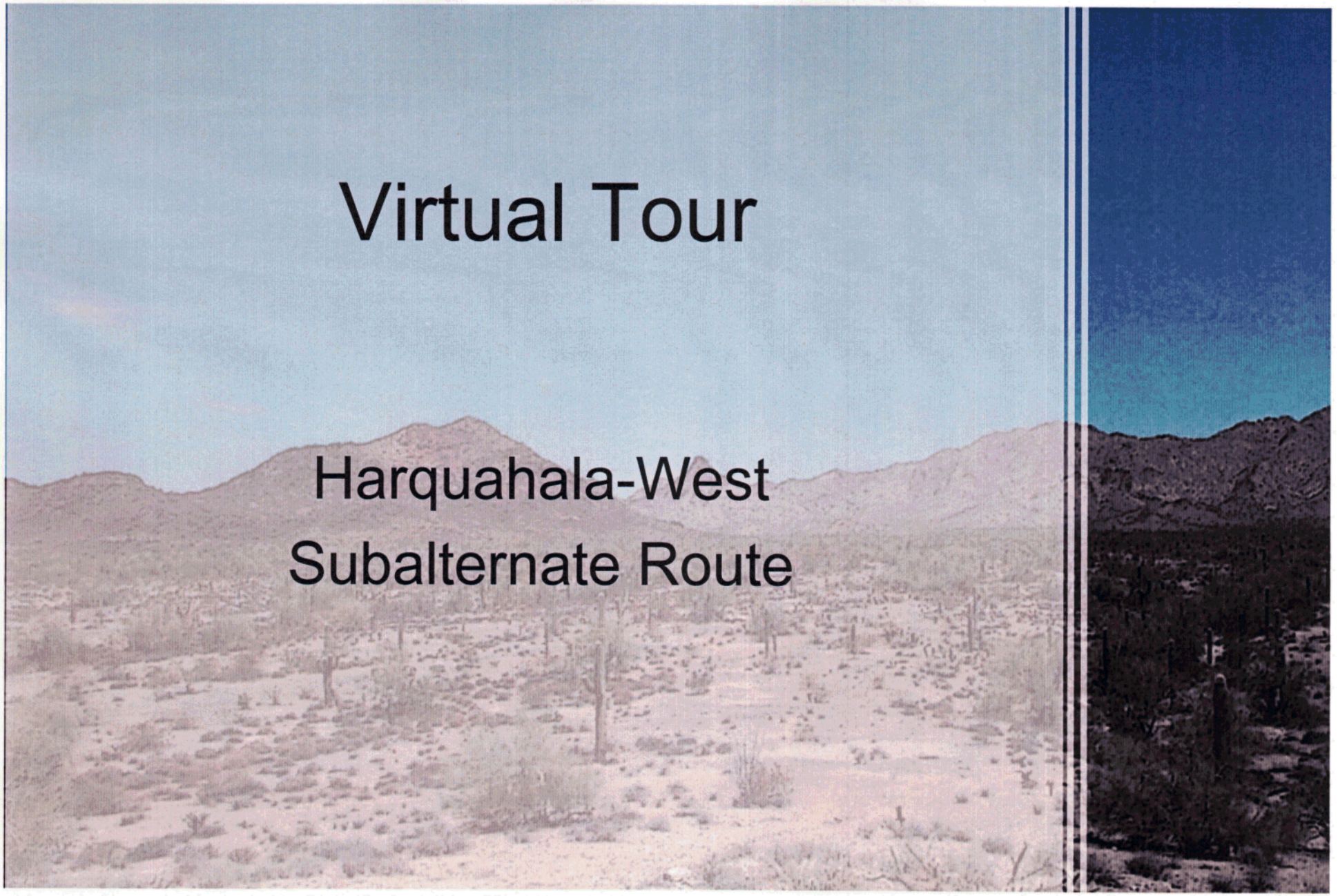
POI # 01
Wintersburg Road
Looking Southwest

POI # 02
Saddle Mountain
Looking South


POI # 03
Proposed Harquahala Junction Site
Looking North



Virtual Tour

Harquahala-West Subalternate Route

SOUTHERN CALIFORNIA EDISON

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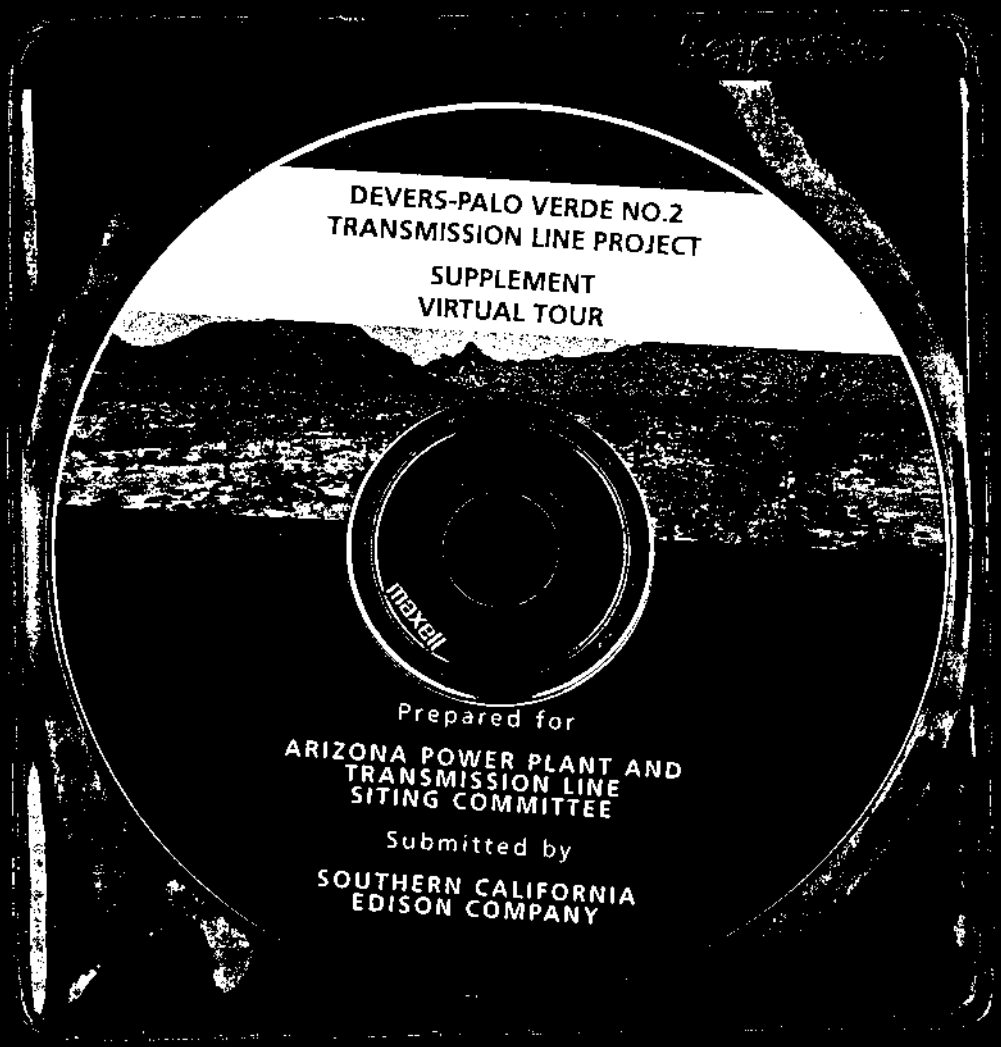
POI # 01
Harquahala Generating Station
Looking East

POI # 02
Fallow Farmland
Looking West

POI # 03
Pipeline Road, adjacent to the Eagletail Mountains
Looking West - Northwest

POI # 04
Connection with Proposed Route
Looking West - Northwest


DEVERS-PALO VERDE NO.2
TRANSMISSION LINE PROJECT
SUPPLEMENT
VIRTUAL TOUR
maxell
Prepared for
ARIZONA POWER PLANT AND
TRANSMISSION LINE
SITING COMMITTEE
Submitted by
SOUTHERN CALIFORNIA
EDISON COMPANY