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Arizona Corporation Commission
DOCKETED
SEP 18 2006
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BEFORE THE ARIZONA POWER PLANT AND TRANSMISSION LINE SITING COMMITTEE

IN THE MATTER OF THE APPLICATION OF SOUTHERN CALIFORNIA EDISON COMPANY AND ITS ASSIGNEES IN CONFORMANCE WITH THE REQUIREMENTS OF ARIZONA REVISED STATUTES SECTIONS 40-360.03 AND 40-360.06 FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AUTHORIZING CONSTRUCTION OF A 500kV ALTERNATING CURRENT TRANSMISSION LINE AND RELATED FACILITIES IN MARICOPA AND LA PAZ COUNTIES IN ARIZONA ORIGINATING AT THE HARQUAHALA GENERATING STATION SWITCHYARD IN WESTERN MARICOPA COUNTY AND TERMINATING AT THE DEVERS SUBSTATION IN RIVERSIDE COUNTY, CALIFORNIA	Docket No. L-00000A-06-0295-00130 Case No. 130

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DOCUMENT CONTROL

NOTICE OF FILING

Central Arizona Water Conservation District ("CAWCD") hereby provides notice of filing the slides regarding CAWCD witness Kenneth Bagley's forthcoming testimony, in the above-referenced matter. Mr. Bagley will be CAWCD's only witness.

RESPECTFULLY SUBMITTED this 18th day of September, 2006.

Thomas W. McCann

ORIGINAL and 25 COPIES of
the foregoing filed this 18th day
of September, 2006, with:

Docket Control
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

COPIES of the foregoing
mailed this 18th day of
September, 2006 to:

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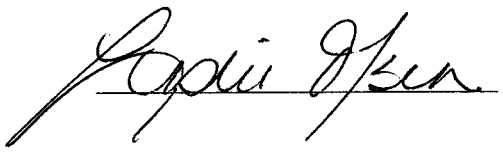

Central Arizona Water Conservation District

Testimony of
Kenneth Bagley

Before the Arizona Power Plant and Transmission Line Siting Committee

September 25, 2006

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Witness Background

- Education
  - B.S. in Engineering
  - M.A. in Economics
- Professional Experience
  - 23 Years in the Utility Industry Working as a Consultant or with a Regulatory Commission.
- Manager, Genesee Consulting Group, L.L.C

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Transmission Planning Experience

- CATS
- WATS
- SWAT and STEP Since Inception
- Chair, Joint SWAT/STEP CRT Committee

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Overview of Testimony

- Central Arizona Project overview
- TS-5 Project
- Harquahala Junction Switchyard
- Maximizing Benefit to Arizona

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Central Arizona Project

- 335 Miles of Canal
- More than 1.5 million acre-feet
- Total Water Lift of 3,394 Ft.
- Storage in Canal and Lake Pleasant
- 14 Pumping Plants, 1 Pump/Generator
- Electrical Load of ~500 MW

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Delivering Supply to Demand

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TS-5 Project

- **Project Description**
  - 500KV Line from PV Hub Looping Northwest Metro Phoenix
- **Participants**
  - APS (Sponsor)
  - CAWCD
  - SRP

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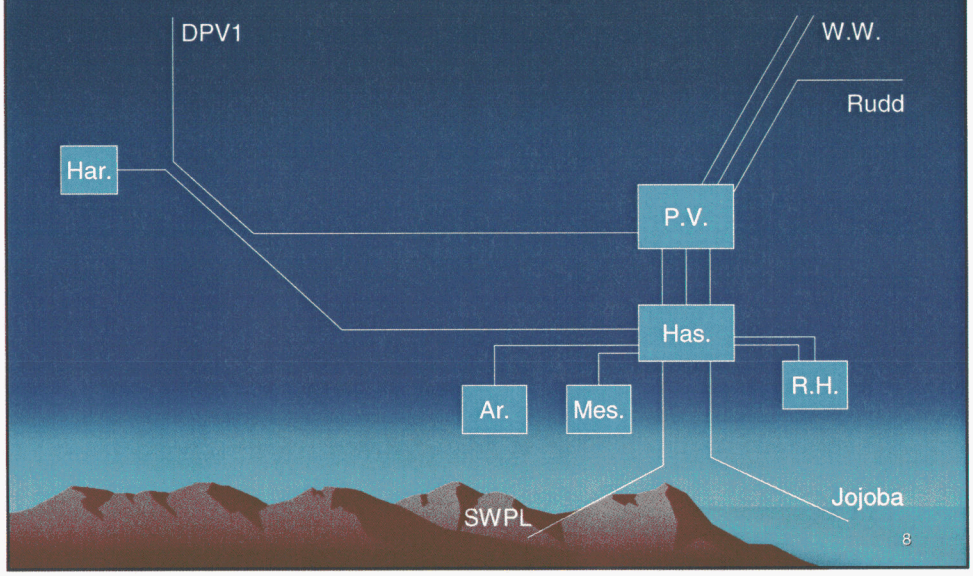
Palo Verde Hub Present Configuration



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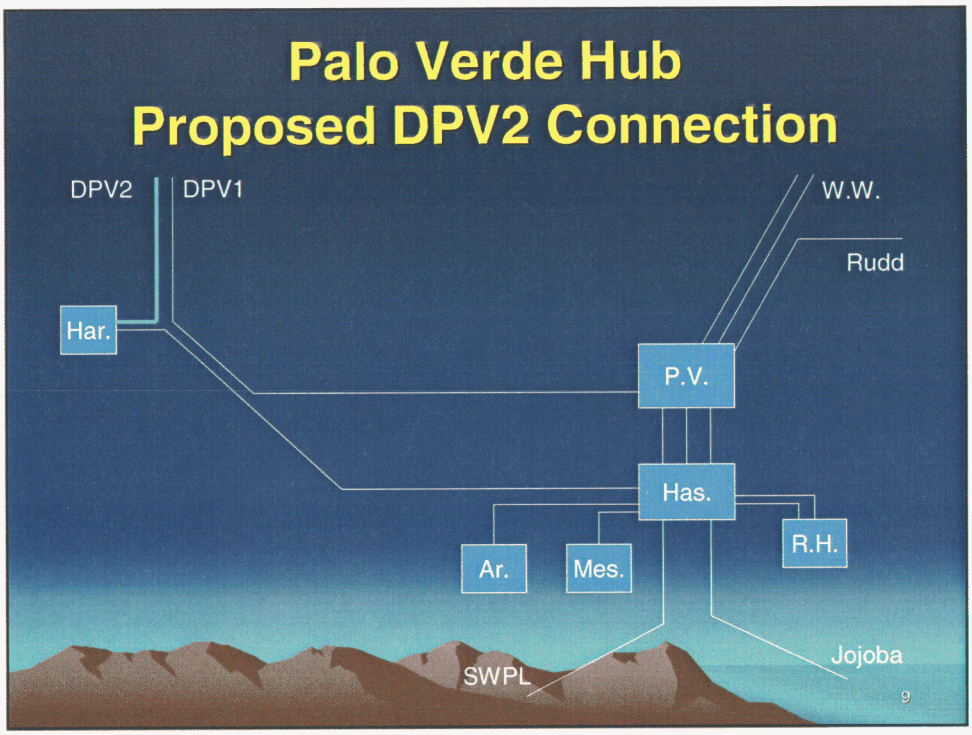
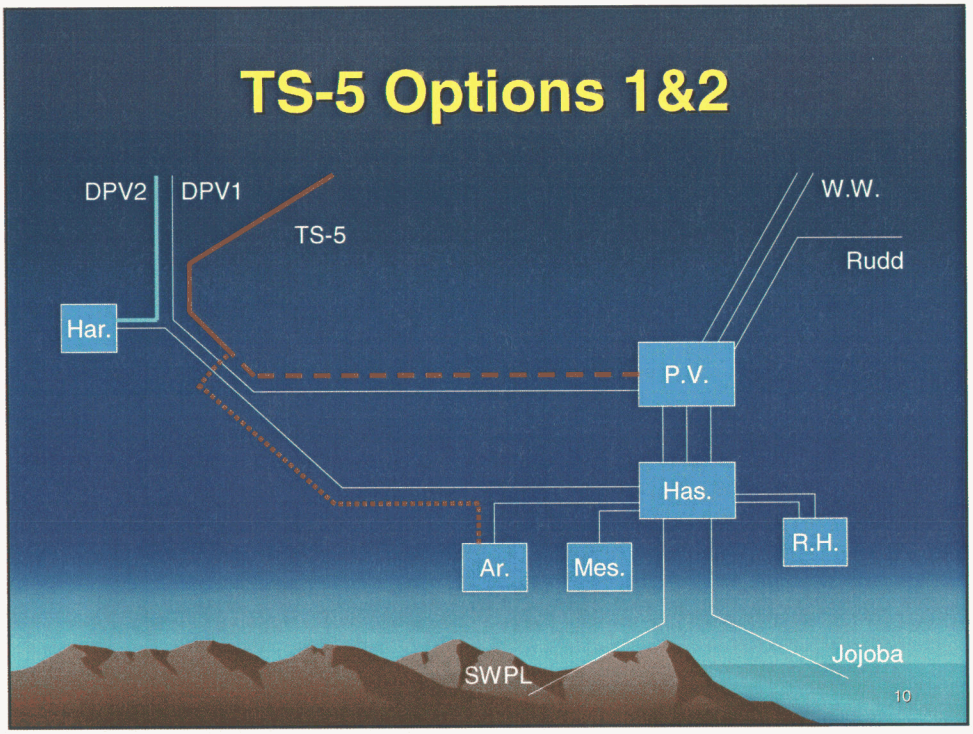
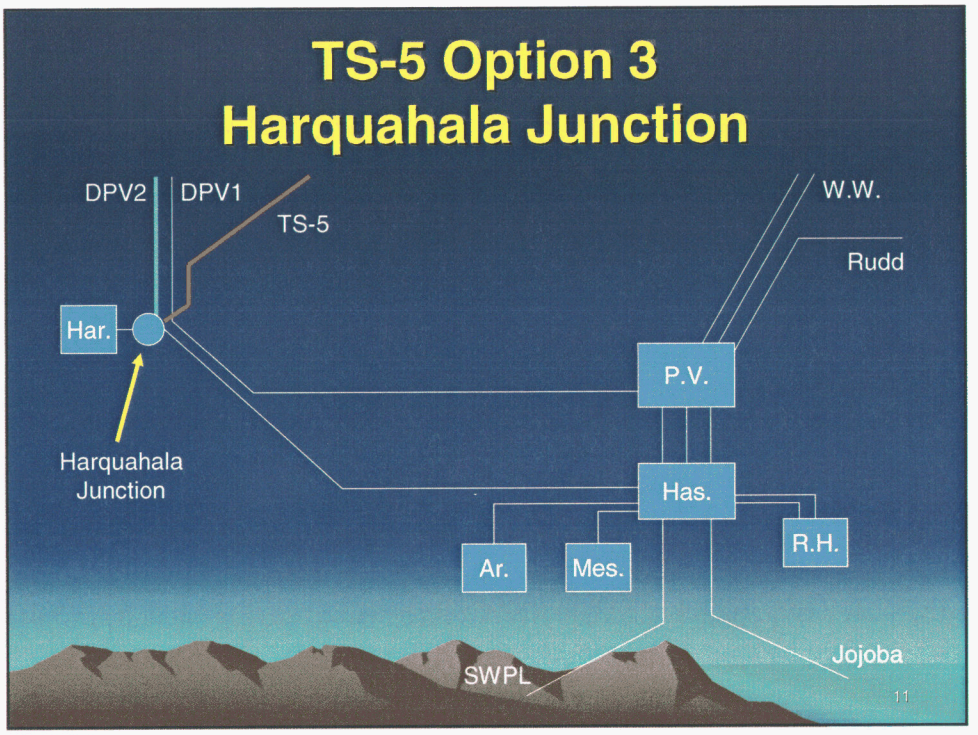

Palo Verde Hub
Proposed DPV2 Connection
DPV2
DPV1
W.W.
Rudd
Har.
P.V.
Has.
R.H.
Ar.
Mes.
Jojoba
SWPL
9


TS-5 Options 1&2
DPV2
DPV1
TS-5
W.W.
Rudd
Har.
P.V.
Has.
R.H.
Ar.
Mes.
Jojoba
SWPL
10



Benefits of Harquahala Junction

- Increased Utilization of Existing Facilities
  - Sharing of Harquahala-Hassayampa Circuit by:
    - Harquahala Generating Station
    - DPV2
    - TS-5
- Minimize Construction and Avoid Cost of Additional Facilities

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Hassayampa - Harquahala 500kV Line

- Existing Circuit Rating
- Current Use
  - Harquahala Generating Station
- Interest
  - DPV2
  - TS-5

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Additional Benefits of Harq. Junction

- Diversify PV Hub Risk
- Reduced Environmental Impacts

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Risks to Arizona

- Limited Access to Transmission Capacity on Harquahala-Hassayampa 500kV line
- CAISO fees

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Maximizing Benefit to Arizona

- Terminate DPV2 at Harquahala Junction
- Make Harquahala-Hassaympa 500kV Line Tariff Free

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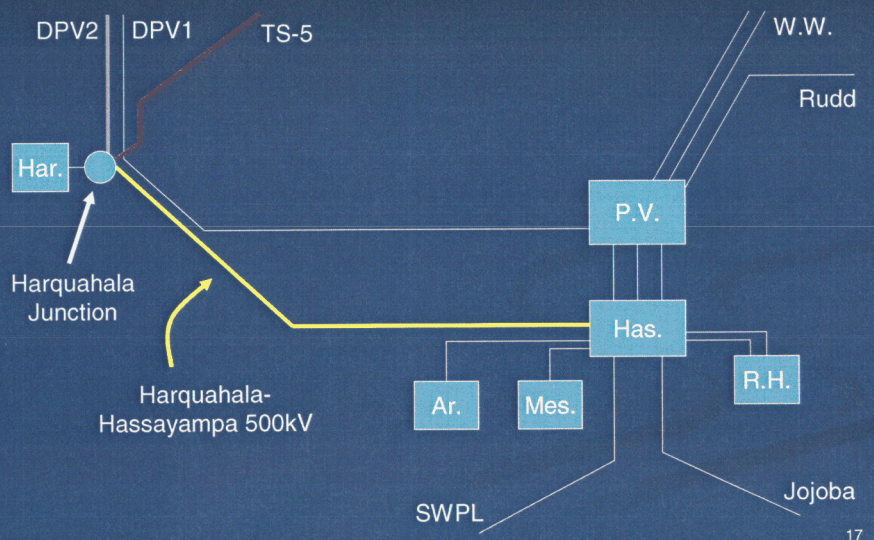
Tariff-Free Line



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Benefits of Tariff-Free Line

- Take Advantage of Seasonal Diversity
- Facilitate Expansion of the Hub
- Increase Market Liquidity

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