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June 27, 2008

Arizona Corporation Commission

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JUN 30 2008

Docket Control  
Arizona Corporation Commission  
1200 W. Washington  
Phoenix AZ 85007

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RE: ACC Docket No. E-00000D-07-0376  
Wellton-Mohawk Irrigation and Drainage District & Santa Cruz Water and Power  
Districts presentations

Attached are copies of the presentations by Dennis L. Delaney on behalf of the above  
named entities at the May 22-23, 2008 Fifth Biennial Transmission Assessment Workshop.

Sincerely,

*Sharen A. Husa*

Sharen A. Husa  
Attachment  
Original and 13 copies of the foregoing filed with Docket Control

cc: Dennis L. Delaney  
Brett Benedict  
Ron McEachern  
Kenneth Baughman



## BTA Workshop May 22, 2008

Ten-Year Transmission Plan for the Wellton-Mohawk Irrigation and Drainage District  
("Wellton-Mohawk")

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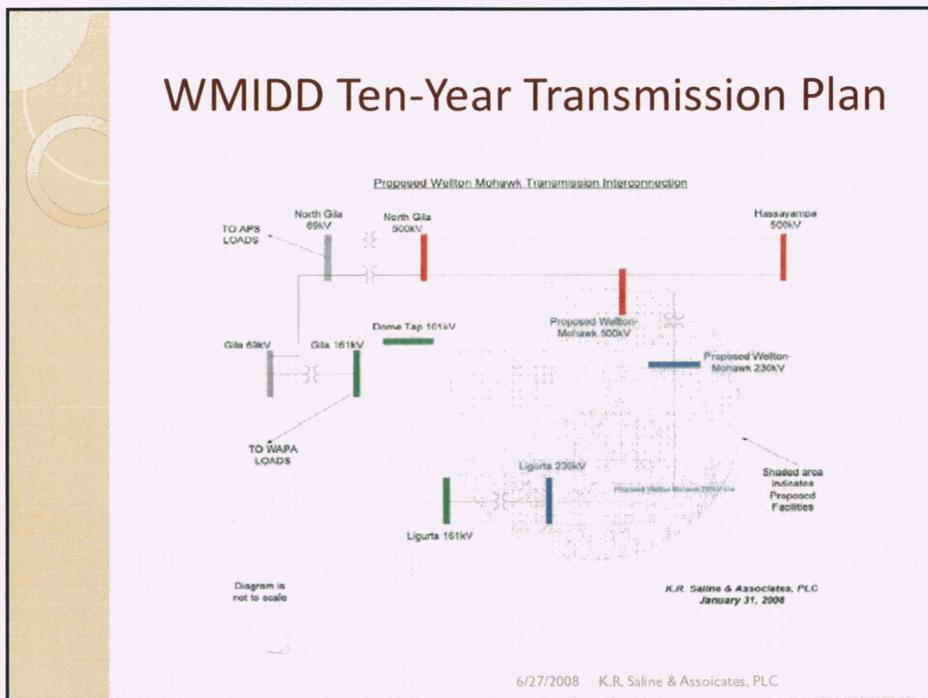


### Wellton-Mohawk Ten-Year Transmission Plan

- January 31, 2008 filing included:
  - A planned 500 kV transmission line from the Palo Verde Switchyard (or vicinity) to the North Gila 500/69 kV substation ("PV-Yuma #2 Project").
  - A planned 230 kV transmission line from a new 500/230 kV receiving station (interconnected to the proposed PV-Yuma #2 500 kV Project) and terminating at the Western Ligurta 161/69 kV substation.

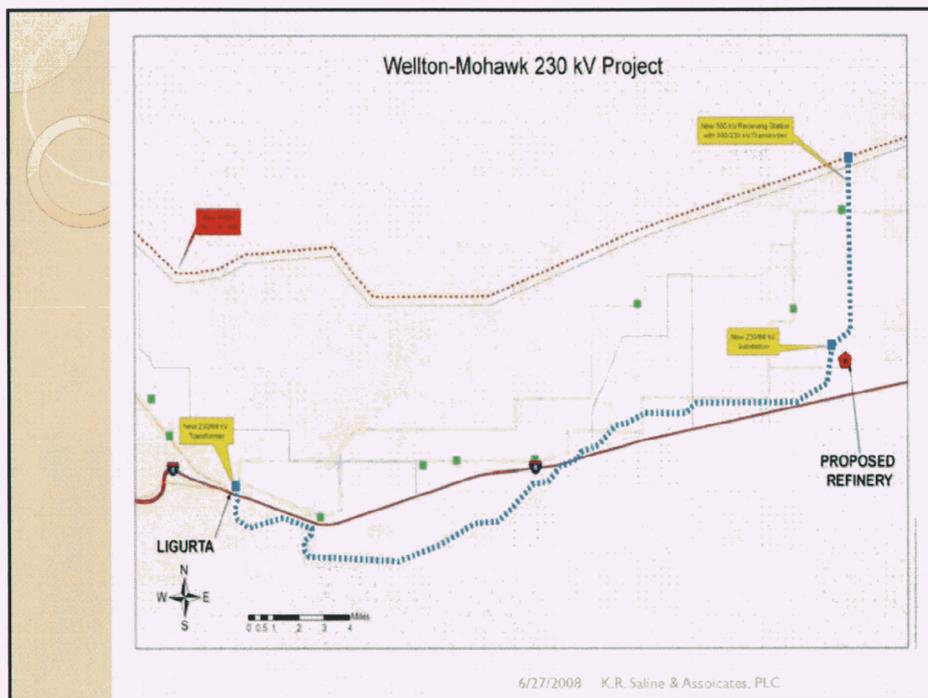
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# WMIDD Ten-Year Transmission Plan



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## Wellton-Mohawk 230 kV Project



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## PV-Yuma #2 Project

- This is same facility that APS addressed in their Ten-Year Transmission Plan.
- Wellton-Mohawk is currently a 20% participant in the proposed project.
  - APS is the Project Manager.
  - Participation Agreements are currently under development.
- Wellton-Mohawk supports the APS presentation with respect to the PV-Yuma #2 Project and Wellton-Mohawk intends to participate in any future study efforts related to PV-Yuma #2 Project.

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## Wellton-Mohawk 230 kV Project

- Wellton-Mohawk plans on interconnecting to the PV-Yuma #2 Project by developing a 500/230 kV Receiving Station approximately 40 miles east of the North Gila Substation.
- From that Receiving Station Wellton-Mohawk plans on constructing a 230 kV transmission line through the Wellton-Mohawk service area interconnecting to the existing Western Ligurta Substation.
- In addition to the 230 kV transmission line Wellton-Mohawk plans on constructing a new 230/69 kV substation to provide additional load serving capability to the eastern side of the Wellton-Mohawk electric service territory.
- The facilities are needed to provide reliable electric service to a proposed oil refinery locating within the Wellton-Mohawk electric service territory.

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## Wellton-Mohawk Ten-Year Transmission Plan

- To date only preliminary feasibility power flow analysis has been performed and no formal reports have yet to be completed.
- The detailed power flow and stability analysis will be performed once a better understanding of the load characteristics (oil refinery and associated ancillary loads) is are defined.
- To date stakeholder input has been limited to the refinery developers, potential resource suppliers and the participants in the PV-Yuma #2 Project.
- WMIDD has yet to initiate any construction activities related to the 230 kV transmission facilities or the interconnection.

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## BTA Workshop May 22, 2008

### Ten-Year Transmission Plan for the Santa Cruz Water & Power Districts Association ("Santa Cruz")

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## Santa Cruz Ten-Year Transmission Plan

- January 31, 2008 filing included:
  - Projects in others' ten-year plans:
    - Hassayampa – Pinal West 500 kV (SRP plan)
    - Pinal West – Pinal Central 500 kV (SRP plan)
    - Western Parker-Davis ("P-D") Project 115 kV Upgrades to 230 kV (Western plan)
  - Projects in SPPR Group's Three Terminal Plan (TTP):
    - Santa Rosa/Test Track – ED5 (new substation) 230 kV (TTP)
    - ED5 – Pinal Central 230 kV (TTP)
    - ED5 – Marana 230 kV (TTP)

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## Santa Cruz Ten-Year Transmission Plan (cont.)

- January 31, 2008 filing also included potential SPPR generation site transmission interconnection facilities:
  - The “Randolph” site
    - Pinal Central – Randolph 230 kV Ckt. 1 (SPPR)
    - Pinal Central – Randolph 230 kV Ckt. 2 (SPPR)
  - Other potential sites in close proximity to SPPR TTP
    - Minimal transmission requirements to interconnect with TTP

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## The Three Terminal Plan (TTP) - Need

- The Three Terminal Plan is needed to deliver power from SPPR Project No. 1 ( an approx. 620 MW 2-on-1 combined cycle gas-fired generating plant) to a diverse group of Participants who are widely spread across Pinal County and other locations in Arizona.
- SPPR Project No. 1 is not expected to fully satisfy the members’ incremental load requirements by the time it becomes commercially available in 2013.

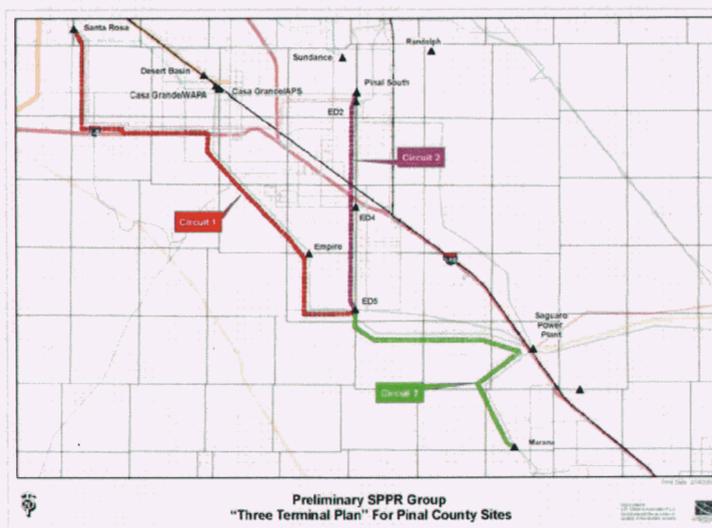
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## The Three Terminal Plan - Studies

- To date, extensive resource planning studies have been conducted, including several purchased power solicitations.
- A comprehensive siting study has been completed including site-specific evaluations of transmission feasibility.
- For three short-listed sites (areas), detailed power flow analysis have been performed.
  - For two of the potential sites preliminary short circuit and stability analyses (for two sites only) have been performed.
- Results of all studies remain confidential, pending final site selection.
- SPPR Group members who are also participants in the SEV Project have requested that SRP perform a “cluster study” of new generation in the general proximity of Pinal Central and their transmission plans (including the TTP).

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## The Three Terminal Plan - Map



## The Three Terminal Plan - Description

- **Santa Rosa/Test Track – ED5 (new substation) 230 kV (TTP)**
  - From Santa Rosa to Thornton Road, a second circuit will be added on the SEV 500 kV line at 230 kV.
  - From Thornton Road to ED5, a portion of Western's Casa Grande to Empire to Saguaro 115 kV line will be converted to a double circuit 230 kV line. Western's circuit will continue to operate at 115 kV.
- **ED5 – Pinal Central 230 kV (TTP)**
  - Western's ED5 to ED4 to ED2 115 kV line will be converted to a double circuit 230 kV line. Western's circuit will continue to operate at 115 kV.
- **ED5 – Marana 230 kV (TTP)**
  - The remaining portion of Western's 115 kV line from Empire to Saguaro and its 115 kV line from Saguaro to Marana Tap will be converted to a double circuit 230 kV line. Western's circuit will continue to operate at 115 kV.

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## Santa Cruz Ten-Year Plan

- To date stakeholder input has been limited to the SPPR members and SEV participants.
  - Presentations have been made to the CATS HV and SATS study groups.
- Santa Cruz has yet to initiate any construction activities related to the TTP transmission facilities or the interconnection facilities.

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