Intertie & Parker-Davis Project
Active Construction Projects Update

March 31, 2021

Desert Southwest Region
Phoenix, AZ
Agenda

• Welcome
• Recent Accomplishments
• Active Construction Projects Update
• Seed Project Update
• Analysis of Alternatives Studies
• Southline Transmission Project Update
• Next Steps
Welcome

Welcome to the Active Construction Projects Update Meeting

• Teresita Amaro, Acting VP Transmission System Asset Management

Leadership Changes at WAPA

• Mark Gabriel has retired from Federal service
• Tracey LeBeau is the Interim Administrator and CEO
• Jack Murray is the Acting Senior VP and Regional Manager for DSW
Transmission Business Unit Manager:
John Steward

Project
White Hills 345-kV Switching Station

Contact Info
Steward@wapa.gov
(602) 605-2774
Recent Accomplishments

White Hills Switching Station
White Hills 345-kV Switching Station

Project Description

• Located approximately 40 miles northwest of Kingman, AZ, and completed in December 2020; this Large Generator Interconnection Project connected the White Hills Wind Generating Facility to the Mead – Peacock 345-kV transmission line

Project Highlights

• Project fully funded by NextEra

• Constructed a new 345-kV three-breaker ring bus interconnection switching station

• Replaced a 50-year-old 345/230-kV 600 MVA transformer with a new 345/230-kV transformer at Mead Substation

• Increase of 250 MW of transmission service (totaling 350 MW) with the capability of 425 MW in the future
Dome Tap - Gila
Active Construction Projects Update

**Project Manager: Roger Wright**
- Coolidge-Valley Farms 115-kV Rebuild
- Liberty Series Capacitor Bank Replacement

**Project Manager: Kalani Ellis**
- Kofa-Dome Tap 161-kV Rebuild
Active Construction Projects Update

Project Manager: Tony Gagajewski
- Dome Tap-Gila 161-kV Rebuild
- Gila Substation 161-kV Rebuild
- Bouse-Kofa 161-kV Rebuild

Project Manager: Shawn Berkram
- Parker-Blythe 161-kV #2 Rebuild Phase-1
- Yuma Maintenance Building
Project Manager: Roger Wright

Projects

Coolidge-Valley Farms 115-kV Rebuild
Liberty Series Capacitor Bank Replacement

Contact Info
RWright@wapa.gov
(602) 605-2498
Coolidge-Valley Farms

Project Description
• Reconductor and rehabilitate 6.1 miles of transmission line to increase capacity from 88-MVA to 180-MVA to mitigate overload issues

Project Update
• As-Built drawings have been completed
• Estimated closeout March 2021

Project Schedule

<table>
<thead>
<tr>
<th>PROJECT MILESTONE</th>
<th>STATUS</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seed Funded</td>
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<td>Financial Closeout</td>
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</table>
## Coolidge-Valley Farms

*Cost = All Executions, Obligations, & Commitments Through 02/20/2021

<table>
<thead>
<tr>
<th>FUNDING TYPE</th>
<th>ORIGINAL BUDGET</th>
<th>BUDGET ADJUSTMENTS</th>
<th>CURRENT BUDGET</th>
<th>COST TO DATE</th>
<th>REMAINING FUNDS</th>
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<tbody>
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Note: $393,500 shifted to Gila 161-kV in 2020.
Liberty Series Capacitor Bank

Project Description

• Furnish and install a new 345-kV series capacitor bank to replace the existing vintage Westinghouse series capacitor bank

Project Update

• As-Built drawings have been completed
• Estimated closeout March 2021

Project Schedule

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<thead>
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<th>PROJECT MILESTONE</th>
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Liberty Series Capacitor Bank

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*Cost = All Executions, Obligations, & Commitments Through 02/20/2021

Note: $393,500 shifted to Gila 161-kV in 2020. Project is anticipated to be completed under budget.
Project Manager: Kalani Ellis

**Projects**

*Kofa-Dome Tap 161-kV Rebuild*

**Contact Info**

KEllis@wapa.gov

(602) 605-2451
Kofa-Dome Tap 161-kV Rebuild

Legend

- Transmission Work
- Substation Work
- Communication Work
Kofa-Dome Tap 161-kV Rebuild

Project Description

• Replace 7.3 miles of conductor and remaining wood structures with light-duty steel to increase reliability and remediate existing phase to ground clearance violations

Project Update

• Contractor was not able to fulfill contract due to COVID-19 delays
• Project will be resolicited once contractor materials are accounted for and specifications are updated to reflect purchased material

Project Schedule

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## Kofa-Dome Tap 161-kV Rebuild

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*Cost = All Executions, Obligations, & Commitments Through 02/20/2021*
Project Manager: Tony Gagajewski

Projects

Dome Tap-Gila 161-kV Rebuild
Gila Substation 161-kV Rebuild
Bouse-Kofa 161-kV Rebuild

Contact Info

Gagajewski@wapa.gov
(602) 605-2429
Dome Tap-Gila 161-kV Rebuild

Legend
- Transmission Work
- Substation Work
- Communication Work
Dome Tap-Gila 161-kV Rebuild

Project Description

• Replace 7.6 miles of conductor and remaining wood structures with light-duty steel to increase reliability and remediate existing phase to ground clearance violations

Project Update

• Majority of construction is complete
• Only two structures remain to be installed as well as stringing of conductor

Project Schedule

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### Dome Tap-Gila 161-kV Rebuild

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*Cost = All Executions, Obligations, & Commitments Through 02/20/2021

Note: $170,000 in appropriations was recently added to the project. That amount was reduced from the prepayment budget.
Gila Substation 161-kV Rebuild

Project Description

• Construct a new 161-kV yard to 230-kV standards, construct a control building, free up space for a future 69-kV yard, and upgrade interconnected substation's protection and communication equipment

Project Update

• Construction, grading, and testing are complete

Project Schedule

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## Gila Substation 161-kV Rebuild

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<td>$ 23,850,010</td>
<td>$ 1,220,848</td>
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*Cost = All Executions, Obligations, & Commitments Through 02/20/2021*

Note: $393,500 was reprogramed from Coolidge-Valley Farms and Liberty Capacitor Bank in December 2020
Bouse-Kofa 161-kV Rebuild

Legend
- Transmission Work
- Substation Work
- Communication Work
Bouse-Kofa 161-kV Rebuild

**Project Description**

- Replacement of 82 remaining wood structures along the 84-mile transmission line between Bouse and Kofa substations to increase reliability and remediate phase to ground clearance violations

**Project Update**

- Design is complete and will be going to procurement beginning of Fiscal Year 2022
- Environmental and Lands work is progressing

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<td>Financial Closeout</td>
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Bouse-Kofa 161-kV Rebuild

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<td>$ 26,520,000</td>
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<td>$ 25,620,128</td>
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*Cost = All Executions, Obligations, & Commitments Through 02/20/2021*

Note: $183,569 in appropriations were added to project which reduced the prepayment amount.
Project Manager: Shawn Berkram

Projects

Parker-Blythe 161-kV #2 Rebuild Phase-1
Yuma Maintenance Building

Contact Info
Berkram@wapa.gov
(602) 605-2613
Parker-Blythe 161-kV #2 Rebuild Phase-1

Legend
- Transmission Work
- Substation Work
- Communication Work
Parker-Blythe 161-kV #2 Rebuild Phase-1

Project Description

• Replacement of degraded wood structures along the 64-mile transmission line between Parker and Blythe substations to increase reliability and remediate phase to ground clearance violations

Project Update

• Design is progressing with consideration to the challenging terrain
• Environmental and Lands coordination is underway

Project Schedule

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<th>PROJECT MILESTONE</th>
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<tr>
<td>Financial Closeout</td>
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Note:

- December 2020, prepayment vote funded $41,961,000 for the project
- Project moved into active construction phase in December 2020, and is in preliminary phase of revalidating scope, schedule, and budget
- A detailed analysis of budget will be presented at the 10-Year Plan Preview Meeting
Yuma Maintenance Building

Project Description

• Yuma Maintenance building will provide additional space for personnel stationed at the Gila Substation

Project Update

• Acquisition of property is complete. Scoping is ongoing with focus on health/safety, security, and code compliance requirements.
• Facility will fill short-term equipment and materials storage needs

Project Schedule

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### Yuma Maintenance Building

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<th>ORIGINAL BUDGET</th>
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<tr>
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<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
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<tr>
<td>TOTAL</td>
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<td>$ -</td>
<td>$ 6,100,000</td>
<td>$ 3,644,767</td>
<td>$ 2,455,233</td>
</tr>
</tbody>
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Note: Building has been purchased at cost of ~$3.7M not including Federal labor
Seed Funding Process

• In collaboration with customers, DSW has implemented a seed funding process for construction projects

• Initial seed funding is used to begin engineering design with the goal of minimizing risk and identifying constraints to construction prior to voting for prepayment funding

• The seed funding process has proven to be an effective method of producing more accurate estimates of construction costs

• As an example, Gila-Welton Mohawk I-8 Crossing Rebuild Project was within 5% of the estimate after going through the seed funding process
Seed Funding Process

Bouse Upgrade

- Rebuild the Bouse-Headgate Rock transmission line to 230-kV standards. Work will include the addition of fiber OPGW.
- Outreach with regional stakeholders continues and design is advancing where possible

Gila 69-kV

- Rebuild the 69-kV switchyard in a breaker-and-a-half configuration and construct new 69-kV yard in the footprint of previous 161-kV yard
- Project was turned over to active construction in December 2020, and is still in the preliminary design phase

Seed Projects Funding Update

- Updates and financials will be made available in the Draft 10-Year Plan Meeting, tentatively scheduled for June 30, 2021
Analysis of Alternative Studies

Dome Tap - Gila
Analysis of Alternative Studies

- DSW has several studies in the preliminary stages of the Analysis of Alternatives process
- Preliminary alternatives to be studied have been identified internally
- DSW is asking for feedback into these proposed alternatives as well as suggestions for additional alternatives to be studied
- Please submit any additional alternatives for consideration to: DSW_Ten_Year_Plan@wapa.gov
Oracle-Tucson Study

Legend
- Transmission Work
- Substation Work
- Communication Work
Oracle-Tucson Mission Need

- Oracle-Tucson (ORA-TUC) 115-kV transmission line has been identified as a potential overload and an AOA has been requested for a reconductor/rebuild
- Approximately half of the ORA-TUC transmission line is still supported by wooden structures
- The southern half of the total 25.7 miles has already been rebuilt using steel support structures
- The objective of this project is to increase the reliability of service on the ORA-TUC transmission line, improve safety, and reduce maintenance cost by decreasing the possibility of the line experiencing failure
Oracle-Tucson Alternatives

• Alternative 1 – Status quo, continue routine maintenance
• Alternative 2 – Reconductor the #4/0 Copper and 795 ACSR portions of transmission line with 954 ACSR
• Alternative 3 – Rebuild transmission line (Reconductor with 954 ACSR)
Crossman Peak Microwave Facility Study
Crossman Peak Mission Need

- WAPA’s microwave system operates within a specific frequency band regulated by the Federal Communications Commission
- Legislation was passed in 2010 that reallocates this frequency band to a higher bandwidth range
- Analysis has determined that when the microwave path between Christmas Tree Pass and Metal Mountain is upgraded to the higher frequency band an interruption in the signal will occur from the mountainous terrain in the area, severing the microwave path between these two communication sites
- Alternative locations have been explored with no viable options identified to date
Crossman Peak Alternatives

• Alternative 1 - Renewable energy with battery storage
• Alternative 2 - Propane generator
• Alternative 3 - Distribution line (DSW funded)
• Alternative 4 - Distribution line (partner with other regional stakeholders)
• Alternative 5 - New location (Additional site details are being researched and estimates are in progress)

Note: A detailed analysis of the AOA will be presented at the 10-Year Plan Preview Meeting
Southline Transmission Project Update

Marana - Saguaro
Southline Transmission Project

• Southline Transmission has sold its development of a portion of the Southline Transmission Project to Tucson Electric Power (TEP)

• WAPA is working with TEP on the development of this portion of the Southline Transmission Project

• Now named the Vail-Tortolita Project

• As with Southline Transmission Project, provides the opportunity to rebuild a portion of Parker-Davis Project (PDP) at significant capital savings
Vail-Tortolita Project – Route

- Encompasses 64 miles or approximately ½ of the “upgrade” section of Southline Transmission Project
- From Saguaro/Tortolita Substation to Nogales/Vail Substation
- Reroutes for airports and Tumamoc Hill
Vail-Tortolita Project – Build

• Rebuild PDP’s 115-kV single circuit and H-frame wood structures with:
  • Steel monopoles
  • 230-kV double circuit
  • Optical ground wire

• TEP and WAPA will each own a 230-kV circuit with WAPA’s circuit operated at 115-kV

• Design, O&M, and other project details are still being determined
Vail-Tortolita Project – Status

• TEP has completed public scoping for the project and has approval from the Arizona Corporation Commission

• TEP and WAPA are developing the project and a participation agreement – development costs are being funded by TEP

• Further details to be shared at an upcoming meeting, likely the 10-Year Plan Meeting in June 2021
Next Steps

Kofa - Dome Tap
Next Steps

March 31st
Active Projects
Meeting

Meeting Focus
- Active Construction Projects Update

AOA Feedback Opportunity
- DSW Identified Alternatives
- Additional Alternatives

June 30th
Draft Plan
Meeting

Meeting Focus
- Draft 10-Year Plan Presented
- Estimated Rate Impacts Presented
- RRADs Projects Update

AOA Feedback Opportunity
- WIP Study Materials

November 10th
Formal Plan
Meeting

Meeting Focus
- Formal 10-Year Plan Presented
- Estimated Rate Impacts Presented

AOA Feedback Opportunity
- Preferred Alternative Selection

December 8th
Prepayment Vote
Meeting

Meeting Focus
- Prepayment Vote
- Financial Reporting

AOA Feedback Opportunity
- AOA Look Ahead

We are here
Contacts

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