

DSW Projects

Accomplishments in FY15

- Glen Canyon Stage 09
 - Install new 230/69KV 50 MVA transformer, two 230Kv breakers and one 69KV breaker and associated equipment.
 - Transformer Energized June, 2015
 - Cost to date: \$4,875,585 (estimated \$6.1 million)
 - Project in Close out

Accomplishments in FY15

- Pinnacle Peak Substation(PPK)
 - Replace disconnect 2193
 - In-service date: May 2015
 - Total Cost: \$98,347 (estimated \$82,000)
 - Project in Close out

Integrated Vegetation Management

- September 3, 2014 – Contract Awarded
 - Phillips and Jordan
- Five Task Orders Issued
 - 83 Miles of Right of Way Cleared
 - Total Cost \$2,096,158 (estimated \$2.8 million)
- Mexican Spotted Owl Habitats
 - Surveys Completed, Trees being Removed

Flagstaff - Pinnacle Peak Before Clearing Began



Structure 118/1 looking North



Cleared Area looking into Vegetation





Integrated Vegetation Management Next Steps

- Two Task Orders Issued, Tonto National Forest
- Corridor Management Plan
 - Estimated to begin on November, 2015
 - Last Forty Miles and \$1.5 million estimated
 - Harder Terrain (hand clearing)
- Contract for Substation is in procurement
- Agreement with APS
 - Estimated to begin January 2016 - Share 18 Substation (3 are with CRSP)
- Southwest Ground Control
 - Estimated completion November 2015
- Begin Maintenance Phase
 - Herbicide and Road Access

Projects in FY16

- Pinnacle Peak KU1A Gasket Replacement
 - Estimated Procurement contract award Dec. 2015
 - Estimated work completed March 2016
 - Minimal Reduction Flagstaff to Pinnacle Peak
 - Estimated Cost \$160,000
- Pinnacle Peak 230kV Disconnect Replacements Bays 23 & 33
 - Switches purchased FY14
 - FY16 Assemble switches
 - FY17 Install switches (Outage Coordination)
 - Estimated Cost \$460,000

Projects in FY16

- Pinnacle Peak Replace FX Capacitor Maintenance Breakers Switches
 - Design Completed August 2015
 - Single Pole Motor Operated
 - FY16 Purchase two for Pinnacle Peak and two for Flagstaff
 - Estimated Cost \$1.0 million

Projects in FY16

- Facility Rating Mitigation Year 3 – PPK- RGS
 - Repair all deficiencies identified in Year 3 LiDAR survey
 - SRP re-conductor study of 2 conductors
 - Risk: De-rate line
 - NERC Issue - Steel Pole estimated FY16 replace
 - Estimated Cost: \$500,000 (cost will be split with Parker Davis)
- Study the Glen Canyon to Shiprock four 60 MVAR Shunt Reactors

Projects in FY16

- Glen Canyon Substation Access
 - Description: Repave road between yards and repair site drainage
 - Final design completion scheduled May 2016
 - Risk: No access to the substation after heavy rain
 - Est. in-service date: January 2017
 - Original Estimate \$125,000 FY15
 - Scope Changed to include Erosion issue, needs culverts and proper Drainage
 - Estimated Cost \$363,000
- Physical Security Enhancement Program
 - Install cameras at Parker Davis, Flagstaff, Pinnacle Peak
 - Estimated Cost \$1.3 million

Projects in FY16

- Pinnacle Peak Relay Replacement
 - Scheduled to be completed in FY16
 - Estimated Cost \$322,700
- Glen Canyon Remedial Action Scheme
 - Design & Dual Comm. Path schemes completed
 - Western Study per NERC completed
 - Install and Commission Path A - Feb. 27, 2016
 - Install and Commission Path B – April 30, 2016
 - Estimated Cost \$400,000

Projects in FY16

- Communication Building Replacement
 - Mingus Mountain
 - Analyzing to repurpose existing ED5 shelter owned by DSW. Estimated cost savings of \$250,000
 - Specification into Procurement April 2016
 - Construction Completion December 2016
 - Estimated Cost \$400,000
- Microwave System Upgrade (Preston Mesa – Jacks Peak – Glen Canyon)
 - DSW negotiated use of tower space at Jack's Peak
 - Very Large cost savings
 - Estimated Cost \$50,000

APS (Jacks Peak) Site



Proposed Projects FY17

- Fiber Optic Installation Program (FY17–FY25)
 - (Full Path, 22 Miles) Pinnacle Peak to Prescott
 - Conceptual Estimate \$880,000 per FY
- Relay Replacement Program (FY17-FY25)
 - Glen Canyon
 - Conceptual Estimate \$300,000 per FY
- Communication Digital Monitoring Equipment Upgrades (FY17-FY25)
 - Glen Canyon / Pinnacle Peak
 - Conceptual Estimate \$200,000 per FY
- Meter Program (FY17-25)
 - Conceptual Estimate \$100,000 per FY
- RTU Replacement Program (FY17-FY25)
 - Pinnacle Peak
 - Conceptual Estimate \$85,000 per FY

Questions for DSW Office



WESTERN AREA POWER ADMINISTRATION