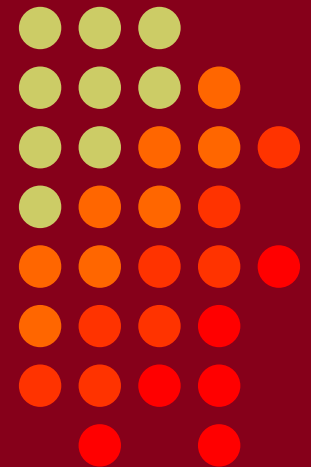


Final CATS HV Saturated Load Study

October 18, 2006



Final Saturated Load Study



- Refresher – The saturated load study was a:
 - Study to determine potential electric demand in study region between Phoenix and Tucson based on available General Plans
 - Study to determine one way to serve the potential demand

Final Saturated Load Study



- Findings:
 - 10,400MW of load calculated when land is fully utilized per the general plans
 - 16 new 230kV substations
 - Upgraded 115kV lines to 230kV lines
 - New 230kV & 500kV lines

Final Saturated Load Study



- Interim Report Deficiencies:
 - Missing Pinnacle Peak-Four Corners 500kV line
 - Tribal Land assumptions
 - Gila River, Ak-Chin, Tohono O'odham, San Carlos
 - State Land assumptions
 - Providing study results to jurisdictional entities

Final Saturated Load Study



- Transmission Lines Added (Pinnacle Peak-Four Corners 500kV and Coolidge-CATSHV07 230kV)
 - Slightly Lowered VAR requirements
 - Overloads remained external to study region, N0 & N1
 - Cholla-Sagurao 500kV line
 - Jojoba-Kyrene 500kV lines
 - 230kV line addition reduced the overload noted on the Coolidge-Sundance 230kV line loss of parallel line (50% reduction)

Final Saturated Load Study



- State Land Department Meeting
 - Verbally agreed with the conversion of state land to developable lands
 - Asked to be engaged earlier in the process
 - Added Contacts to the e-mail distribution list

Final Saturated Load Study



- Arizona Tribal Energy Association Meeting
 - Membership: Gila River, Ak-Chin, Tohono O'odham
 - Received confidential load data from GRICUA
 - Study underestimated load of GRICUA
 - Load deficiency less than 1% of the 10,400MW study load

Final Saturated Load Study



- Jurisdictional Entity Meeting
 - Presented study results to the Pinal County Governmental Alliance

Final Saturated Load Study



- Completed Interim Report Tasks
- Final Report published
- Final Report Accepted by CATS HV
- Acceptance of report by SWAT