



2009 SWAT CATS High Voltage Transmission Plan **Study Plan**

Background

The Central Arizona Transmission Study – High Voltage (CATS HV) technical work group is a subregional planning organization of transmission owners and interested stakeholders tasked with examining the near and long term high voltage transmission system (mostly 115kV and 230kV) requirements for the area between Phoenix and Tucson. The area is currently served by a number of Load Serving Entities (LSEs) and the work group is tasked with the development of a transmission plan that meets the requirements of the LSEs as well as the potential for new transmission customers (generation resources, etc.) to deliver energy across the CATS HV footprint.

Two key issues have been identified for review as a component of the 2009 CATS HV Transmission Plan. An assessment of the proposed facilities within the CATS HV footprint (including the detailed 69kV system) for the Ten-Year Transmission Plan (2019) as well as better coordination of the transmission plans with the jurisdictions land use plans located within the CATS HV area.

Study Plan

Task 1

Prepare a coordinated Ten-Year Transmission Plan (specifically 2019) for the CATS HV study area to be included in the 2009 SWAT Transmission Plan. The coordination of the 2009 CATS HV Transmission Plan will require the following (but not limited to):

- Coordinate 2019 base case development for the CATS HV region; including individual stakeholder ten-year transmission plans (to the subtransmission level) and the associated system representation. The development of this 2019 base case will be derived from the existing 2018 CATS HV Base Case.
- Conduct an assessment of the coordinated CATS HV Transmission Plan in accordance with NERC/WECC planning criteria.
- Provide input to SWAT to produce a single Ten-Year Transmission plan/document that addresses all the transmission needs across the entire CATS HV planning area.



Task 2

Coordination of the CATS HV regional transmission plans with the jurisdictional land use and comprehensive plans located within the CATS HV area. This coordination effort is expected to produce a common GIS based planning map that can be shared with multiple jurisdictions. Specifically the subtasks identified are (but not limited too):

- Hold a workshop with key transmission owners, municipal and county planners, and State Land Department to identify individual plans and common interests.
- Prepare a common GIS based map that encompasses the CATS HV area and mutual plans from all identified at the workshop.
- Establish a methodology for making data available on a common ftp site (password protected) and managed by Pinal County (for example).
- Document the process and summary of coordination efforts.

Task 3

Document in a Final Report to be included in the 2009 WestConnect Planning Report.

Study Timeline

The projected milestones and timetable for completion of the Tasks are:

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| • Draft Study Plan Distributed to CATS HV Members | December 17, 2008 |
| • Preliminary Comments to Study Plan (meeting) | January 6, 2009 |
| • Finalize Study Plan and Present to SWAT Steering | January 13, 2009 |
| • Initiate 2009 CATS HV transmission planning | February 1, 2009 |
| • Draft Report | July 31, 2009 |
| • Final Report | August 31, 2009 |