

<b>Purpose</b>	<p>The Central Arizona Transmission System (CATS) is a task force of the Southwest Area Transmission (SWAT)<sup>1</sup> subregional planning group. The CATS purpose is to serve as a transmission planning forum for identifying long-term local and subregional transmission needs and facilitating reliability in joint planning, development and operation of the transmission system in Central Arizona. The CATS study area is generally defined as the developable land between Phoenix and Tucson, the bulk of it within the Pinal County borders.</p> <p>Pinal County is one of the fastest growing counties in Arizona. Both residential and large industrial loads are attracted to the area causing load to continually grow at a faster rate than other parts of the state. Along with load growth, large transmission and generation projects have been proposed in the CATS study area. Further complicating Pinal County is the large amount of transmission providers and load serving entities serving customers within the small footprint. Having a collaborative forum with all Pinal transmission providers and load serving entities together will ensure efforts have been taken to provide a robust, reliable, and cost-effective transmission system maximizing the benefits to the end-use customers.</p> <p>The task force proposes an open stakeholder process to include, at a minimum, the participation of Arizona Electric Power Cooperative, Arizona Public Service, Electrical District 2, Electrical District 3, Electrical District 4, Gila River Indian Community Utility Authority, Salt River Project, San Carlos Irrigation District, Tucson Electric, Western Area Power Administration as well as other interested stakeholders. Several of these stakeholders have ownership interests in the Palo Verde-Pinal Central 500kV Transmission Project participation Agreement and have an interest in best use of their existing and future rights/developments especially in Pinal County.</p>
<b>Objectives</b>	<p>Ensure the smaller load serving entities are being modeled correctly and transmission provider's future plans are consistent with Palo Verde-Pinal Central Project expansion and incorporate the correct load serving entities' projected growth.</p> <p>Determine if there is a future need for a transmission project(s) in Pinal County and if partnerships can be formed if such need is revealed.</p> <p>Develop a high-level transmission plan of the Pinal County while maximizing regional benefits and making more efficient use of the existing transmission system. Consideration of a variety of alternatives to allow for a wide range of options and flexibility of alternatives.</p>
<b>Assumptions and performance criteria</b>	It would be assumed that Pinal county will continue to see record load growth. CATS studies will ensure there is enough transmission available to reliably serve 5, 10, and 15-year load projections.
<b>Development of base case.</b>	Start with approved Arizona 5-year and 10-year summer peak "study cases" and coordinate the existence or addition of all local/subregional CATS' transmission providers and load serving entities 69kV and up facilities in the base cases.
<b>Contingencies to be examined</b>	All transmission facilities in Arizona with voltage greater than or equal to 115 kV will be monitored against thermal and voltage violations during any P0, P1 or P2 contingency.
<b>Schedule</b>	Meet monthly on the 2 <sup>nd</sup> Wednesday of every month starting March 11 <sup>th</sup> , 2020 until the study work is completed. Expected completion: Spring of 2021
<b>Allocation of study work</b>	K.R. Saline and Associates plan on doing the bulk of the study work with help from the TPVs on developing the base cases and contingency list. Additionally, load projections and local transmission projects in the planning stages should be provided by all transmission providers and load serving entities in the CATS footprint.
<b>Revision History</b>	February 2020 Second Draft

<sup>1</sup> As such, to avoid duplication in this Scope, CATS would follow the SWAT Charter in coordinating and performing these local and subregional planning efforts.