

Draft SATS Meeting Notes
TEP's Offices
October 9, 2008

Attendees:

Bruce Evans, SWTC
Jim Tang, CAP
Ray Som, SWTC
John Kyei, PDS Consulting
Craig Hanson, Ft. Huachuca
Ron Belval, TEP
Mike Gazda, APA
Cary Patten, Western
Ken Bagley, SSVEC/Genesee
Gary Trent, TEP
Bobby Chavez, TEP

Agenda Items:

No formal agenda was provided for the meeting. The main item for discussion in today's meeting is to review and finalize the SATS Report and Executive Summary.

Ken asked a general question about what kind of a "tense" do we want to use in the Report; past tense or on-going? Ron replied that we will use the past tense when reporting on items that have been done and where work is on-going, the language will reflect that.

Mike Gazda stated that he will provide Ron with a write-up of the Arizona Power Authority for the Report.

The group worked through the Report, offering changes and suggestions which were either immediately incorporated by Ron or notes indicating what is to be done inserted into his working copy.

After discussing the first 15 Sections of the Report, Ron asked Bobby Chavez to give a Power Point presentation entitled "TEP 2008 Compliance Study Mitigation." Ron added that the presentation would provide relevant background information that would enhance our understanding of the technical aspects of the report. Bobby explained that the presentation would provide information on proposed projects in the TEP 5-year Capital Budget to mitigate NERC compliance issues. The presentation is a follow-up to the compliance report given by Gary Trent at the September 25th SATS meeting. Bobby also stated that there are some regional transmission issues that require mitigation which need to be addressed at SATS and that is another reason for the presentation today.

A copy of the presentation will be made available to the group after it has been “sanitized” to remove any references to critical infrastructure information.

After reviewing the assumptions, Bobby then discussed a clarification to the transformers that were modeled in the base cases for 2010, 2013 and 2018. These involved the addition of a larger transformer at SWTC’s Bicknell substation, moving the existing transformer at Bicknell to SWTC’s Greenlee substation and the addition of a second transformer at the Freeport-McMoRan (FMI) Copper Verde substation. Bobby asked SWTC to check the values of the transformer sizes to ensure that they were correct.

Revising the model to reflect installation of these transformers, which were not correctly modeled in the previous base cases for 2010, 2013, and 2018, resolved a lot of issues that were discussed by Gary Trent at the last SATS meeting.

In the 2010 base case studies, one regional issue that was discussed is an overload of the SWTC Apache to Butterfield 230 kV line in 2010 as a result of a category D outage on the EHV system. This will require further study and discussion between SWTC and TEP. There are also several 138 kV outages in 2010 that do not show up in the 2013 base case studies, due to the addition of projects in the TEP 5-year Capital Budget that mitigate the outages.

In the 2013 base case studies, there are several overloads of various SWTC elements due to category D outages. These will also require further study and discussion between SWTC and TEP. TEP added the proposed double-circuit 345 kV line between Winchester and Vail in the 2013 base case.

In the 2018 base case studies, similar issues are seen and Bobby encouraged SWTC to think about potential solutions for the overload of various SWTC elements.

After Bobby’s presentation, Ron continued a review of the Draft SATS Report and will be sending out version #11 to the participants in the meeting today for comments due back to him by e-mail as soon as possible. Draft 11 will be sent to the entire SATS distribution after comments for the October 9th meeting participants have been incorporated. He encouraged the participants to read the new Sections that have been added to the Report and to especially look over the information that has been added to Figures 29-41.

Ron also asked the participants to look over the Executive Summary that was done by Ken and also provide comments to it, in light of the information that was presented today. He then set a date of October 16th for the comments.

The date of the next meeting will be October 23rd, and will be held at TEP’s offices. The next SATS meeting was subsequently rescheduled to October 31st due to scheduling conflicts with other meetings.