

DEEP SUB-COMMITTEE

2010 STUDY PLAN

APPROVED BY CCPG OVERSIGHT COMMITTEE 4/22/2010

The DEEP Sub-Committee (DEEP SC) of the CCPG focuses on a regional transmission planning approach of the load serving transmission system in the general geographic area of Douglas, Elbert, El Paso and Pueblo Counties in the Southern Front Range of Colorado. Within this scope, and in accordance with the CCPG Charter, the DEEP SC submits this 2010 Study Plan to the CCPG Oversight Committee for approval.

GENERAL CONSTRUCT OF THE DEEP SUB-COMMITTEE

The DEEP SC is open to participation from all stakeholders. Meeting announcements, minutes, and other pertinent materials will be posted to the WestConnect web site under CCPG – DEEP Sub-Committee (www.westconnect.com). Stakeholders may obtain direct notification by submitting their contact information to the DEEP SC sub-committee chair:

Chuck Sisk
Colorado Springs Utilities
P.O. Box 1103, Mail Code 1821
Colorado Springs, CO 80947
(719) 668-8025
csisk@csu.org

The following Transmission Planning organizations are participants in the DEEP SC:

- Colorado Springs Utilities
- Black Hills Corporation
- Public Service Company of Colorado
- Tri-State Generation and Transmission Association
- Western Area Power Administration

The focus of the DEEP SC does not include generator interconnection. The FERC Large Generator Interconnection Procedures govern this process, and parties interested in interconnection are referred to this process.

2010 STUDY PLAN

PURPOSE AND NEED

Colorado Springs Utilities has identified area overloads in the 5-10 year planning horizon. These overloads affect facilities in northern El Paso County. Other overloads were identified at Colorado Springs Utilities interties at Midway Substation. Colorado Springs Utilities has identified alternative solutions to the overloads on its system, but these do not appear to mitigate all area overloads. This 2010 Study Plan seeks to explore regional/multi-utility alternatives to resolve these projected overloads.

OBJECTIVES

The objective of the 2010 Study Plan is to explore and develop alternatives to mitigating projected overloads described above within the scope and footprint of the DEEP SC. Progress reports will be made at the regularly scheduled meetings of the CCPG.

ASSUMPTIONS AND STUDY PERFORMANCE CRITERIA

Studies will be conducted utilizing expected heavy summer loads and resources. A base case will be developed representing the year 2020 for initial studies and development of alternatives. Studies will focus on N-0 and N-1 performance, and will apply the same performance criteria used by the CCPG NERC Compliance Sub-Committee in their studies.

DEVELOPMENT OF BASE CASES AND OTHER DATA

The 2020 base case developed for the High Plains Express studies without the High Plains Express project will be examined as a starting point. Once a suitable base case is identified, the data contained therein (loads, resources, topology, etc.) pertinent to the scope of the 2010 Study Plan will be examined and refined by study participants.

METHODOLOGY & DESCRIPTION OF CONTINGENCIES TO BE EXAMINED

Once a base case is selected, study participants may refine data as appropriate within the focus of this study. Studies will be conducted with models in the PTI format and will be shared in this format only. Area overloads will be identified through an automated N-0 and N-1 analysis on model zones 757, 700, 704, 712, 791. Alternatives will be developed to relieve the overloads identified. These alternatives will be presented to the CCPG and form the basis for additional study efforts.

SCHEDULE

The DEEP SC will have as a goal to present initial alternatives for mitigation of identified overloads at the August CCPG meeting. A final report will be completed by December 30, 2010.

ASSIGNMENT/ALLOCATION OF STUDY WORK

Colorado Springs Utilities has agreed to perform the load-flow analysis necessary for these studies.