

Tri-State Generation and Transmission Association 2014-2023 Transmission Plan

Plaza-Waverly 115kV Loop Project

Project Sponsor: Tri-State Generation and Transmission Association
Additional Project Participants: San Luis Valley Rural Electric Cooperative
Project Description: Project consists of upgrading approximately 30.5 miles of 69 kV transmission line to 115 kV within the existing Plaza/Waverly right-of-way. The existing Plaza, Zinzer (previously Switch Rack), Carmel, and Waverly substations/switchyards will be upgraded or rebuilt for 115 kV service.

Voltage Class: 115 kV
Facility Rating: 166 MVA
Point of Origin/Location: Plaza
Point of Termination: Waverly
Intermediate Points: Carmel, Zinzer
Length of Line (in Miles): 30.0
Type of Project: Distribution
Development Status: Under Construction
Routing:
Subregional Planning Group: CCPG

Purpose of Project: Provide improved transmission service during single contingency outages to those customers served from SLVREC's Carmel, Zinzer, Plaza, Stockade, and San Acacio substations.

Estimated Cost (in 2013 Dollars): \$10,873,000

Schedule:

Construction Date: 2012
Planned In-Service Date: 2014
Regulatory Info: CPCN Not Required: COPUC-C07-0553
Regulatory Date:
Permitting Info:
Permitting Date:

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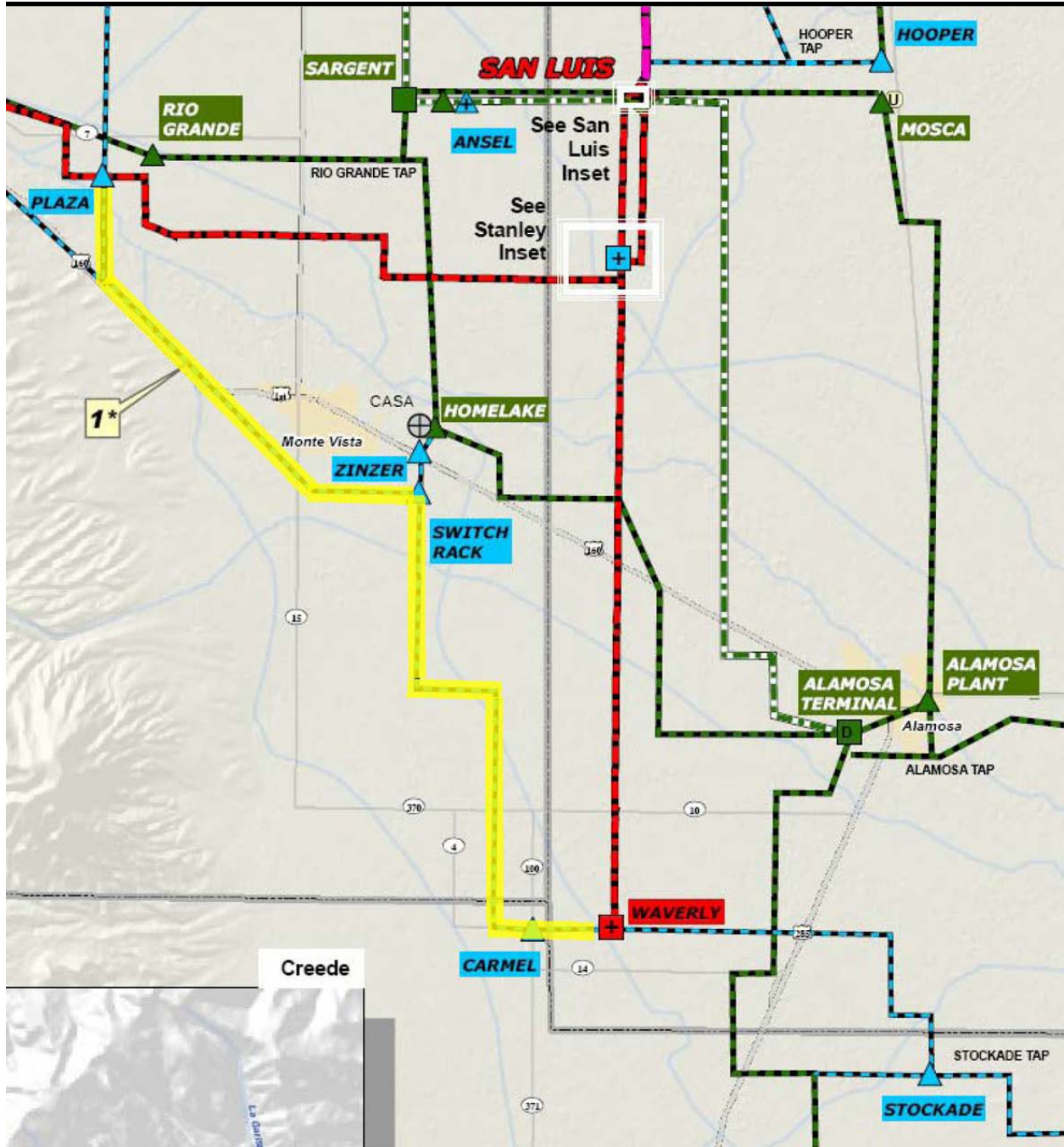


Figure 7: Plaza – Waverly 115 kV Loop Project Map

The Plaza – Waverly 115 kV Loop Project is intended to provide looped 115 kV transmission service to Tri-State’s member’s (San Luis Valley Rural Electric Cooperative, or SLVREC) customer load, through SLVREC’s Carmel, Zinzer, and Plaza substations, to prevent the loss of SLVREC’s customer load under single contingency outage conditions on Tri-State’s 115 kV system. SLVREC’s existing 69 kV Waverly – Carmel – Zinzer – Plaza line can no longer support its customer load at these substations during such outages, and must therefore be rebuilt for 115 kV operation.

At Plaza Substation, Tri-State will construct a new 115 kV ring bus and install the existing 115-69 kV transformer that is to be moved from Tri-State's 115-69 kV Waverly substation. Tri-State will also construct two new 115 kV line terminations on the ring bus to sectionalize its existing San Luis Valley-Ramon line. In the 69 kV yard, two 69 kV line breakers will be installed to protect SLVREC's line to South Fork, La Garita, and also a 69-12.5 kV distribution transformer. At Waverly, Tri-State will construct a new 115 kV switching station configured as a ring bus to terminate the existing 115 kV line from San Luis Valley, the new line to Plaza, and an upgraded line serving Stockade and San Acacio. In conjunction with the Plaza-Waverly Project, SLVREC will also upgrade its existing radial 69 kV line serving Stockade and San Acacio to 115 kV, along with those distribution substation facilities. This project is presently planned to be financed 50% by Tri-State and 50% by SLVREC with construction solely by Tri-State.