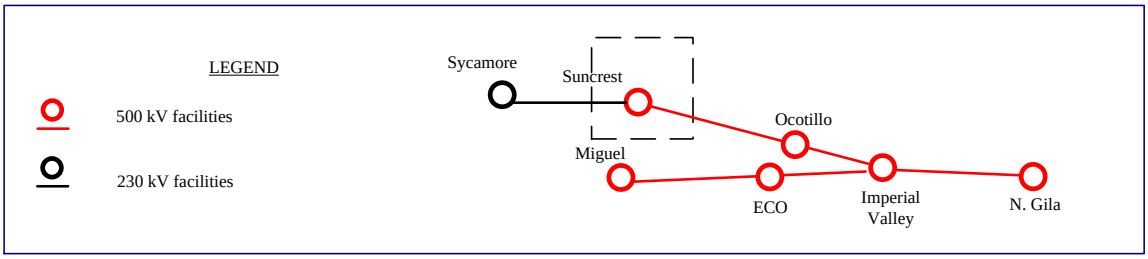
Suncrest 230 kV 300 MVAr Dynamic Reactive Power Support Description and Functional Specifications for Competitive Solicitation

1. Description

In the 2013-2014 Transmission Plan, the ISO has identified a policy-driven need for a 300 MVAr dynamic reactive power support connecting to the Suncrest 230 kV bus as depicted below:



The dynamic reactive power support is required to provide continuous or quasi-continuous reactive power response following system disturbances. It needs to be one of the following types of devices: SVC (Static VAR Compensator), STATCOM (Static Synchronous Compensator), or Synchronous Condenser. The ISO estimates that the cost of the proposed dynamic reactive power support will approximately cost $50 to 75 million.

SDG&E will design, engineer, install, own, operate, and maintain the necessary equipment additions within Suncrest substation. The substation terminations and line drops into the substations are not part of the scope of work included in the competitive solicitation.

A 230 kV tie-line from the dynamic reactive power support project to Suncrest Substation will be the responsibility of the project sponsor. The ISO is working with SDG&E to identify a general area (e.g. the northwest corner, south side, etc.) of the Suncrest Substation where the terminal line structure for the tie-line should be located. The approved project sponsor will own, operate and maintain all transmission facilities from the reactive support up to and including the terminal line structure. SDG&E will own, operate and maintain the transmission facilities from the terminal structure into Suncrest substation.

2. Functional Specifications

Dynamic Reactive Power Support Functional Specification

Point of Interconnection: Suncrest 230 kV bus

Rated Real Power Output: 0 MW

Rated MVAR: +300/-100 at the Suncrest 230 kV bus

Nominal Terminal Voltage: 230 kV

Latest in Service Date: June 1, 2017