













### III. Interconnection Facilities & Network Upgrades for GI-2010-19 Interconnection

Requirements for interconnection of new generation to the Xcel Energy Operating Companies' transmission system can be found in the *Interconnection Guidelines for Transmission Interconnected Producer-Owned Generation Greater than 20 MW – Version 3.0<sup>2</sup>*, last revised in December 2006. These guidelines describe the technical and protection requirements for generator interconnection and also require that the Interconnection Customer be in compliance with all applicable criteria, guidelines, standards, requirements, regulations, and procedures issued by the North American Electric Reliability Council, Public Utility Commission or the successor organizations.

#### A. FERC and/or NERC Compliance Requirements

##### Critical Infrastructure Protection (CIP) Asset

Comanche is an existing BES facility and is a Critical Asset station – this was verified on October 1, 2014.

##### Facility Ratings and Smart Outages

All transmission facilities in Comanche station are rated as per PSCo's current facility rating methodology. No special requirements due to altitude or contamination issues apply since Comanche station is 4844 feet above sea level.

#### B. Right of Way and Site Permitting

No land purchase or station expansion will be required. PSCo Engineering and Construction will be responsible for getting the required construction permits.

#### C. Critical Features

##### Current Carrying Capacity of Affected/Tapped/New Transmission Lines

The substation equipment ratings are adequate for this project.

##### Fault Current

The existing pre-project and the future post-project fault current values in Comanche 230 kV station are tabulated below.

<sup>2</sup> Interconnection Guidelines can be found at [www.xcelenergy.com](http://www.xcelenergy.com).



















