



## **QUALIFYING FACILITY DESIGN DATA REQUIREMENTS**

Southeast Colorado Power Association (SECPA), reviews all proposals for interconnection by a QF for compliance with SECPA guidelines and Colorado Public Utilities Commission Rules. SECPA attempts, insofar as is reasonable, to determine whether a design will create problems on SECPA's system but cannot comment or make assurances on the technical prudence or economic feasibility of a proposed project.

SECPA cannot review your facility design until a complete design package is submitted. Typically, a complete design package would include:

- (1) A complete site plan, detailing physical locations of all equipment to be installed from SECPA's supply line to the powerhouse. This plan should show sufficient detail to determine physical clearances between pieces of equipment and between any piece of equipment and an adjacent permanent structure. The site plan should show the location of proposed metering, disconnecting and circuit protective devices. Particular detail should be given to physical location of equipment in the powerhouse, and provisions for grounding of powerhouse equipment.
- (2) A system one-line diagram which states wire sizes and types, as well as ratings and types of circuit protective devices. This diagram should include all equipment which has been installed or which will be installed up to SECPA's connection.
- (3) A relay control diagram which clearly indicates relay contact arrangements, and which indicates functionally the operation of all relays, protective devices and interlocks.
- (4) Device types, sizes, model numbers, settings and manufacturer's data on all circuit protective devices and relays.
- (5) The location, ratings, impedances, time constants and manufacturer's data for the generator and all associated control equipment, including but not limited to exciters, governors, voltage regulators and synchronizers, where applicable.
- (6) The location, ratings and switching arrangement for power factor correction capacitors, if any.
- (7) Proposed operating procedures for startup, shutdown and restart functions. The procedures should include all operational parameters and appropriate limits of operation.
- (8) Anticipated peak power production and monthly energy production figures.

SECPA recommends not purchasing equipment or beginning construction of facilities until a design review is completed and SECPA gives final written design approval.