Supervisory Control and Data Acquisition (SCADA) Performance Criteria
Transmission Maintenance Procedure No. 6

Version 3
Effective Date 10/17/2017

Approved by:
Transmission Maintenance Coordination Committee 10/17/2017
## REVISION HISTORY

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<td>1.0</td>
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6.1 **PURPOSE**

This procedure outlines development, implementation, and performance expectations for the PTO’s SCADA systems.

6.2 **SCOPE**

This procedure encompasses SCADA systems that control and monitor critical Transmission Facilities, but does not constitute a requirement to add SCADA systems. This procedure applies to all critical Transmission Facilities with the stipulation that PTOs may submit written requests for exemption. Specific SCADA system operating needs covered by a Service Level Agreement between the ISO and a PTO, including revenue data systems, are not covered by this procedure.

6.3 **PERFORMANCE**

PTOs are expected to install, operate, maintain, and replace (if necessary) its SCADA systems according to prudent utility practice. PTO’s will preserve all SCADA system data associated with its critical Transmission Facilities for six (6) months. On a case by case basis the ISO may ask a PTO to provide specific performance information according to TCA Section 17.2. The ISO will notify a PTO if it recognizes inadequate performance. The PTO and the ISO will collaborate to determine a suitable course of action and time-frames necessary to correct identified inadequacies. Requests, notifications, or correspondence referenced in this procedure will be exchanged between the PTO and the ISO’s Grid Assets Department.

6.4 **RELIABILITY**

There are no redundancy requirements on specific SCADA components. If the PTO’s SCADA system utilizes AC as the primary power source, the system will also include a backup power source which can restore the SCADA system within five (5) minutes and continuously operate for at least eight (8) hours. SCADA systems will include self-checking capabilities (with alarm where practical) to minimize data losses. An alarm should be generated whenever a main power supply, communication path, or RTU fails.

6.5 **DEFINITIONS**

*Remote Terminal Unit (RTU)*: An electronic device that communicates SCADA information.
Supervisory Control and Data Acquisition (SCADA): A communication system that allows an electric system operator to remotely monitor and control elements of an electric system.

6.6 CONTACTS

For questions regarding subject matter covered in this procedure, please contact the Director of Grid Assets, California ISO.