



SUBJECT: SCADA RTU Installation on CGT Facilities

Objective

The purpose of this Recommended Practice is to standardize the design and installation of SCADA Remote Terminal Unit (RTU) equipment.

Scope

This CGT Recommended Practice applies to new or replaced RTU installations in CGT gas facilities.

Rescission

All previous instructions, oral or written, that may be contrary to this Recommended Practice.

References

PG&E Drawing 3800128, Electrical - Arrangement, AMtec 8635 RTU (AC Version)
PG&E Drawing 3800129, Electrical - Arrangement, AMtec 8635 RTU (DC Version)
PG&E Drawing 3800130, Connection - Diagram, AMtec 8635 RTU (AC Version)
PG&E Drawing 3800131, Connection - Diagram, AMtec 8635 RTU (DC Version)

Originator

CGT Standards Technical Committee 23 on Instrumentation and Controls

Business Risk

SCADA RTU installations not engineered and installed according to this Recommended Practice may result in an unreliable, untested installation which could prevent remote monitoring and operation of the gas facility. A non-standard RTU installation could result in a higher construction cost, as well as a higher maintenance expense associated with specialized training and increased inventory of spare parts.

Requirements

1. Prior to engineering, all new or replaced SCADA RTU installations shall be reviewed with the Senior Engineer in the SCADA & Controls Section of Station Engineering, GSM. After obtaining an overview of the project, the Senior Engineer shall: (1) review the appropriateness of utilizing the referenced drawing(s), (2) coordinate construction of the SCADA screens, and (3) ensure that the appropriate departments are contacted.
2. Unless otherwise specified by the Senior Engineer, all new or replaced SCADA RTU installations should be designed and installed in accordance with the drawings referenced above. The referenced drawings should be used as a template with the actual field connections annotated on the drawings. After completion of the RTU installation, one set of the "as-built" annotated drawings shall be kept at the equipment installation site, one set shall be kept at the local district/ division office, and one set sent to the SCADA & Controls Section.
3. All new RTUs shall be sent to the Concord Test Lab for inspection and configuration prior to installation.

