

UTILITY WORK PROCEDURE WP4901

Asset Type: Gas Transmission and Distribution

Effective Date: February 2008

Function: Maintenance, Construction

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Title: SCADA RTU Installation on Gas Facilities

Overview This work procedure standardizes the design and installation of Supervisory

Control and Data Acquisition (SCADA) Remote Terminal Unit (RTU)

equipment.

This document applies to new or replaced RTU installations in gas facilities.

A non-standard RTU installation could result in higher construction costs, as well as a higher maintenance expense associated with specialized training

and increased inventory of spare parts.

Governing Document

This is a stand-alone document.

Safety Conduct all work in accordance with all applicable safety rules, the <u>Code of</u>

Safe Practices, and Utility Standard Practice (USP) 22, "Safety and Health

Program."

Requirements

Engineer and install a Supervisory Control and Data Acquisition (SCADA) Remote Terminal Unit (RTU) according to the procedure in this document. Installations of SCADA RTU not performed in accordance with these procedures may result in an unreliable, untested installation, which could prevent remote monitoring and safe operation of the gas facility.

Detailed Procedures

- A. Before engineering the project, review all new or replaced SCADA RTU installations with the senior gas engineer in the SCADA and Controls section of Station Engineering within Gas Engineering.
- B. After obtaining an overview of the project, the senior gas engineer carries out the following actions:
 - 1. Reviews the appropriateness of the referenced drawing(s).
 - 2. Coordinates construction of the SCADA screens.
 - 3. Ensures that the appropriate departments are contacted.

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C. Unless otherwise specified by the senior gas engineer, design and install all new or replaced SCADA RTU installations in accordance with the drawings referenced in this document. Use the drawings as a template, with the actual field connections annotated on the drawings.

- D. After completing an RTU installation, keep one set of the "as-built" annotated drawings at each of the following locations:
 - 1. Equipment installation site.
 - 2. Local district/division office.

3. SCADA and Controls section within Gas Engineering.

Recision This work procedure cancels and supersedes Recommended Practice

(RP) 4251, "SCADA RTU Installation on CGT Facilities," issued

December 15, 1997.

Reference Engineering Drawing 3800128, Electrical – Arrangement, AMtec 8635 RTU

Documents (AC Version)

Engineering Drawing 3800129, Electrical – Arrangement, AMtec 8635 RTU

(DC Version)

Engineering Drawing 3800130, Connection – Diagram, AMtec 8635 RTU

(AC Version)

Engineering Drawing 3800131, Connection - Diagram, AMtec 8635 RTU

(DC Version)

Contact for More

Information Senior Gas Engineer

8-583-4103

Date Issued February 2008

Approved by

Manager, Station Engineering

Revision History

Chg No.	Date	Description	By (LAN ID)
01	July 2007	Deleted paragraph 3 in RP4251 and reformatted contents.	

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