



Asset Type: **Gas Transmission and Distribution**

Effective Date: **August 2009**

Function: **Maintenance and Construction**

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Title: Gas Pressure Regulation Maintenance Requirements

Purpose This standard describes the maintenance requirements for Pacific Gas and Electric Company (Company) district regulator stations. Gas maintenance and construction employees shall perform work in compliance with this standard.

Safety Failure to perform the required maintenance could pose a risk to public safety and employees in the event of equipment failure.

All work on gas facilities shall be performed safely and in accordance with applicable safety rules, the Code of Safe Practices, and Utility Standard Practice (USP) 22, "Safety and Health Program."

Requirements Inspection, Testing, and Maintenance

Inspection, testing, and maintenance of district regulator stations must be performed in accordance with Work Procedure WP4540-01, "District Regulator Station Maintenance."

1. Inspection Types

Inspections are divided into two categories: Class A (diagnostic) and Class B (internal). See WP4540-01 for specific information and requirements for these inspections.

2. Inspection Frequency

Perform Class A and Class B inspections for district regulator stations in accordance with the schedules in Table 1, "Maintenance Schedule."

Table 1. Maintenance Schedule

Facility Type (Applicable Form)	Class A (Diagnostic) ¹ Inspection Schedule	Class B (Internal) Inspection Schedule
HPR-type District Regulator Stations (Form 62-6321A)	Periodic inspections: <ul style="list-style-type: none"> At least once each calendar year at intervals not to exceed 15 months to the date from the previous Class A or Class B inspection. 	Inspection "for cause:" <ul style="list-style-type: none"> Only when corrective work is necessary
District Regulator Stations, Non-HPR- type (Form 62-6321)	Periodic inspections: <ul style="list-style-type: none"> At least once each calendar year at intervals not to exceed 15 months to the date from the previous Class A or Class B inspection. 	First inspection following installation: <ul style="list-style-type: none"> Within one calendar year not to exceed 15 months to the date after placing in service. Inspection after cutting and welding: <ul style="list-style-type: none"> Within one calendar year not to exceed 15 months to the date after any work involving cutting and welding downstream of the station filter and upstream of regulation or overpressure protection equipment Periodic inspections: <ul style="list-style-type: none"> At least once every 8 calendar years from the previous Class B inspection not to exceed 15 months to the date from the previous Class A inspection. Inspection "for cause:" <ul style="list-style-type: none"> As necessary.

Approved by Glen E. Carter
Sr. Director

Implementation Responsibilities The senior director in charge of gas engineering is responsible for approving, revising, and distributing this standard.

Directors in charge of maintenance and construction (M&C) are responsible for implementing this standard within their respective organizations.

M&C superintendents are responsible for ensuring that district regulator stations are maintained in accordance with this standard.

¹ Performance of a complete Class B inspection satisfies the requirements of a Class A inspection.

Definition of Terms

District regulator station: A pressure regulation station (including both single and multiple stages of pressure regulation) that controls pressure to a high or low-pressure distribution main serving more than two services.

HPR-type district regulator station: A district regulator station that uses non-pilot-operated regulators, specifically: Fisher 621, Fisher 627, Fisher 630, Reliance Model HPR 10, Reliance Model HPR 20, Reliance Model HPR 268, Rockwell 141, Rockwell 141A, and Sprague 041 regulators.

For cause: When the equipment is suspected of not being in good operating condition.

Recision

This standard cancels and supersedes the following documents:

1. Utility Standard S5351, "District Regulator Station Maintenance."
2. Gas Information Bulletin 279, "Set Point Limits For District Regulator Stations"

Reference Documents

1. The following Sections of Code of Federal Regulations 49 CFR, Part 192, CFR Title 49, Part 192, "Transportation of Natural and Other Gas by Pipeline: Minimum Federal Safety Standards:"
 - a. Section 192.201, "Required capacity of pressure relieving and limiting stations"
 - b. Section 192.605, "Procedural manual for operations, maintenance, and emergencies"
 - c. Section 192.739, "Pressure limiting and regulating stations: Inspection and testing"
 - d. Section 192.743, "Pressure limiting and regulating stations: capacity of relief devices"
2. California Public Utilities Commission (CPUC) General Order 112-E, "Rules Governing Design, Construction, Testing, Maintenance and Operation of Utility Gas Gathering, Transmission and Distribution Piping Systems"