

**DCS/GTS STANDARD**

|                     |                                |                 |                      |
|---------------------|--------------------------------|-----------------|----------------------|
| ISSUING DEPARTMENT: | <u>Technical Services/GSTS</u> | DCS STANDARD:   | <u>D-S0352</u>       |
| DCS OFFICER:        | <u>VP – DE&amp;P</u>           | GTS STANDARD:   | <u>S4111</u>         |
| GTS OFFICER:        | <u>VP – G&amp;ET</u>           | PAGE NO.:       | <u>1</u> OF <u>5</u> |
|                     |                                | EFFECTIVE DATE: | <u>01-98</u>         |
|                     |                                | REVIEW DATE:    | <u>01-02</u>         |

**TITLE:** Patrolling Pipelines and Mains

**Purpose:**

To establish a uniform procedure for patrolling company facilities for the purpose of:

1. Complying with the requirements of 49 CFR 192.605 (b), 49 CFR 192.705, and 49 CFR 192.721.
2. Observing conditions on and adjacent to the right-of-way or route that could be expected to affect the operation and safety of company facilities.

**Business Benefits and Risks**

**Benefit:** This standard ensures PG&E is in compliance with federal gas safety regulations: 49 CFR 192.605(b), 49 CFR 192.705 and 49 CFR 192.721.

**Risk:** Failure to provide this standard could expose the company to possible government regulatory sanctions, increased inspections, warning letters, hearings, penalties, compliance orders, and civil and criminal fines as administered by the CPUC and DOT RSPA.

**Standard Sponsor**

The Vice President, Distribution Engineering & Planning (DE&P) and the Vice President, Gas & Electric Transmission are responsible for authorizing, approving, and revising this standard.

**Implementation Responsibility:**

Responsibility for patrolling company facilities shall rest with the line organization managers/superintendents who direct the maintenance and operation of those facilities. Performance includes determining specific scope and any special considerations, assigning patrolling frequency, reviewing and maintaining patrol records, and initiating action to correct conditions found during patrols.

**Compliance**

Implementation and effectiveness are measured by responsible managers/superintendents. In addition, periodic audits can be conducted by internal company departments. The CPUC also conducts compliance reviews on the requirements in this standard. Patrol reports revealing the need for corrective actions will be reviewed and acted upon by responsible supervisors.

**TITLE:** Patrolling Pipelines and Mains**Procedures****Facilities to be Patrolled:**

1. All gathering lines.
2. All transmission lines operating at or over 20% SMYS.
3. Any distribution, transmission, or gathering lines in places or on structures where anticipated physical movement or external loading could cause leakage or failure.
4. Locations requiring special attention including pipelines at highway or railroad crossings, on bridges, expansion joints in pipelines, or in areas subject to atmospheric corrosion, or to any other condition where routine patrols may be inadequate.

**Points to Observe and Report:**

1. Landslides or threatened slides.
2. Erosion by streams, wave action, rain, etc.
3. Land subsidence.
4. Construction or maintenance work being performed by others.
5. Encroachments on the right-of-way by buildings or structures or construction of levees, roads, wells, etc., for which no prior permission has been granted by the company.
6. Evidence of gas leakage.
7. Needed repairs to company-owned facilities including fences, pipeline markers, exposed crossings, etc.
8. Needed repairs to highway structures and other facilities not owned by the company where public safety is a factor.
9. Presence of survey parties or other indications of possible future work that might jeopardize company facilities or cause a change in its class location.
10. Any other factors affecting the operation or safety of the pipeline or main or other company facilities such as slope erosion, blocked culverts, casing vents, and access road washouts.
11. Evidence of atmospheric corrosion. Atmospheric corrosion areas are designated in Electric Construction Document 032911.
12. Access roads occasionally used by others or in areas visible to the general public that may be impassible.
13. Any activity which could create an unsightly condition in aesthetically sensitive areas.
14. Signs of severe seismic displacement (fault zones).

**Patrolling Methods:**

1. All patrols may be made on the ground or by aerial observation. Aerial patrols shall be supplemented by ground patrols whenever any of the conditions listed above cannot adequately be observed by aerial patrol and as required by paragraph 4 below.
2. Ground patrols may be performed in conjunction with other work as long as the necessary functions of patrolling, including reporting, are accomplished.



**TITLE:** Patrolling Pipelines and Mains

recording the corrective action. Each report shall be signed or initialed by the patroller and by the reviewing supervisor. Form 62-4648 is available for ground patrols and supplementary investigations to aerial patrols. Form 11-038 is available for aerial patrols.

2. Ground and aerial patrol reports for transmission and gathering facilities shall be kept for the life of the facility. Patrol reports for distribution facilities shall be kept for a minimum of three years.
3. Any conditions found during the patrol, which require immediate attention and cannot be corrected by the patrol, shall be reported to the responsible supervisor as soon as possible.
4. Evidence of construction activity or other signs of possible encroachments on rights-of-way shall be immediately reported to the operating department head who will in turn report it to the Land Department.
5. A roster of facilities patrolled and those locations requiring special attention shall be maintained and updated as changes occur.
6. Documentation for periodic reviews shall include the date of the review, the name of the reviewer, and indicate the material reviewed.

**Definition of Terms:**

**Class location:** The density of buildings as defined in 49 CFR 192.5.

**CPUC:** California Public Utilities Commission.

**DOT:** Department of Transportation

**Distribution line:** A pipeline that serves as a common source of supply for more than two service lines.

**Gathering line:** A pipeline that transports gas from a current production facility to a transmission line or main. This term shall include collection lines taking gas from wells.

**RSPA:** Research and Special Programs Administration.

**Transmission line:** All lines operating over 60 PSIG that are not gathering lines. This term shall include gas underground storage field injection and withdrawal lines and lines that transport gas within a storage field.

**Date Issued/Updated:**

Effective Date: **January 1, 1998**

Review Date: **January 1, 2002**

Signed,

Signed,

Shan Bhattacharya  
Vice President,  
Distribution Engineering & Planning

William R. Mazotti  
Vice President  
Gas & Electric Transmission

**Distribution:**

Gas Services and Operations Superintendents

**TITLE:** Patrolling Pipelines and Mains

DCS Managers

G&ET Managers

Division Capital Investment Directors

Division Operation, Maintenance and Construction Directors

**Reference Documents:**

DCS Standard D-S0350/S4110, "Periodic Leakage Surveys of Gas Transmission and Distribution Facilities"

DCS/GTS Standard D-S0353/S4112, "Physical Inspection of Pipelines, Mains and Services"

GS Interim Standard 460-1, "Class Location – Pipelines Operating Over 40 SMYS"

DCS/GTS, D-S040/S4122 "Pipeline Markers"

49 CFR Part 190, 192

CPUC General Order 112E

GS&S O-16, "Corrosion Control of Gas Facilities"

Electric Construction Document 032911, "Corrosion Areas – Overhead Lines"

**For Further Information:**

For additional information or copies of this standard please contact the Gas Distribution Section of the Technical and Construction Services Department.