

Mitigation	Project/Program
Maintenance	Bridge & Span Inspections
Maintenance	Meter Inspections & Maintenance
Maintenance	Valve Maintenance and Installation (Transmission)
Maintenance	Valve Maintenance and Installation (Distribution High Pressure)
Maintenance	Regulator Station Inspection and Maintenance
Maintenance	Pipeline Patrol/Leak Survey
Maintenance	Maintenance of High Pressure Storage Lines
Maintenance	Condition Based Maximo Work Orders
Qualifications of Pipeline Personnel	Transmission Pipeline Technician Training
Qualifications of Pipeline Personnel	Transmission Pipeline Specialist Training
Qualifications of Pipeline Personnel	Transmission Welding Specialist Training
Qualifications of Pipeline Personnel	Transmission Cathodic Protection Specialist Training (and Senior)
Qualifications of Pipeline Personnel	Welding Non-Labor
Qualifications of Pipeline Personnel	Distribution Construction Technician Training
Qualifications of Pipeline Personnel	Distribution Energy Technician Distribution Training
Qualifications of Pipeline Personnel	Distribution Lead Construction Technician Training
Qualifications of Pipeline Personnel	Distribution System Protection Specialist Training
Qualifications of Pipeline Personnel	Distribution Lead System Protection Specialist Training
Requirements for Corrosion Control	Internal Corrosion Consultants
Requirements for Corrosion Control	Internal Corrosion Monitoring Equipment
Requirements for Corrosion Control	Transmission Cathodic Protection
Operations	High Pressure Transmission Line Watch Dog

Operations	Right of Way
Operations	High Consequence Area (HCA) Class Location
Operations	Utility Conflict Review
Operations	Operations Emergency Preparedness
Operations	Quality Assurance Quality Control (QAQC)
Operations	Odorization
Gas Transmission Pipeline Integrity Management	In-Line Inspection (ILI)
Gas Transmission Pipeline Integrity Management	External Corrosion Direct Assessment (ECDA)
Gas Transmission Pipeline Integrity Management	Threat and Risk Assessment
Gas Transmission Pipeline Integrity Management	Integrity Assessments
Gas Transmission Pipeline Integrity Management	Preventative and Mitigation Measures
Gas Transmission Pipeline Integrity Management	High Pressure Pipeline Record Search
Gas Transmission Pipeline Integrity Management	Data Integration - High Pressure Pipeline Database
Pipeline Safety Enhancement Program (PSEP): High Pressure Testing and Replacement, Valve Automation and Replacement	High Pressure Pipeline Replacement
Pipeline Safety Enhancement Program (PSEP): High Pressure Testing and Replacement, Valve Automation and Replacement	High Pressure Pipeline Hydrotesting
Pipeline Safety Enhancement Program (PSEP): High Pressure Testing and Replacement, Valve Automation and Replacement	Transmission Valve Automation and Replacement

Project/Program Description	Mandated
Inspect pipelines on bridges and spans for issues	Yes
Inspect high pressure meters for corrosion, leaks, or other potential issues	Yes
Maintain valves with lubrication and servicing, and replace or install valves required for compliance	Yes
Maintain valves with lubrication and servicing, and replace or install valves required for compliance	Yes
Inspect regulators to confirm overpressure protection is in place and maintained	Yes
Patrol pipelines for leaks on the ground	Yes
Maintenance of high pressure storage lines	Yes
Maintain compliance through maximo work order tracking	Yes
Certification and training that is required for all transmission employees to work on company assets. This is mandated by the Federal Code of Regulation (CFR) 49 Part 192 Subpart N	Yes
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Certification and training that is required for all distribution employees to work on company assets. This is mandated by CFR 49 Part 192 Subpart N	Yes
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Internal corrosion enhancement	Yes
Monitor internal corrosion conditions	Yes
Install cathodic protection (anodes, rectifiers, etc.) to protect high pressure pipelines	Yes
This remote monitoring unit (RMU) is designed primarily for monitoring of Cathodic Protection (CP) rectifiers and additional inputs of corrosion monitoring transmitters	Yes

Maintenance of access roads and pipeline right of ways is critical so that compliance is maintained, pipelines can be accessed in a timely manner, third party pipeline damages can be minimized, wildfire damage can be prevented, and the safety of employees and the public are maintained	Yes
When a pipeline is operating "out of class" it needs to be remediated by either replacement or hydro-test because new pipeline installation has different testing requirements depending on the class location. HCAs for natural gas pipelines focus on populated areas which affects class location. HCA identification relies on pipeline-specific information regarding the location, size, and operating characteristics of the line, as well as the identification of structures, specified sites, and their intended usage along the pipeline right-of-way	Yes
Review of right of way and other conflicts and resolve such matters	Yes
Operations emergency manual is reviewed yearly to provide quick response in emergency situations	Yes
Material inspection and quality control	Yes
Engineering Analysis Center (EAC) develops odorant techniques for system	Yes
Assessment of transmission pipelines	Yes
Assessment of transmission pipelines	Yes
Prioritizing and determining pipelines for the Transmission Integrity Management Program (TIMP)	Yes
Assessing the integrity of current high pressure pipelines through ILI data	Yes
Post assessment mitigation of transmission pipelines	Yes
Record search for high-pressure pipelines subject to PSEP replacement/hydrostatic testing	Yes
Pipeline database which encompasses all pipelines in the system	Yes
Replacement of HCA pipelines	Yes
Hydrostatic pressure testing of HCA pipelines	Yes
High pressure pipeline valve automation to help improve response of valve shut-ins	Yes

Regulatory Requirement and Asset Type
§192.613 Continuing surveillance.
§192.739 Pressure limiting and regulating stations: Inspection and testing.
§192.745 Valve maintenance: Transmission lines.
§192.747 Valve maintenance: Distribution systems.
§192.739 Pressure limiting and regulating stations: Inspection and testing.
§192.705 Transmission lines: Patrolling.
§192.706 Transmission lines: Leakage surveys.
§192.735 Compressor stations: Storage of combustible materials.
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§192.805 Qualification program.
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§192.475 Internal corrosion control: General.
§192.477 Internal corrosion control: Monitoring.
§192.463 External corrosion control: Cathodic protection.
§192.463 External corrosion control: Cathodic protection.

§192.613 Continuing surveillance.

§192.613 Continuing surveillance.
§192.611 Change in class location: Confirmation or revision of maximum allowable operating pressure.

§192.613 Continuing surveillance.

§192.615 Emergency plans.

§192.503(e)(2) General requirements.

§192.625 Odorization of gas.

§192.921 How is the baseline assessment to be conducted?

§192.921 How is the baseline assessment to be conducted?

§192.911(c)

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§192.911(c)

§192.917(b) Data Gathering and Integration.

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California Public Utility Code 958.

California Public Utility Code 958.

California Public Utility Code 957.