

Sunnyvale City Council Presentation

February 25, 2014



Pipeline Pathways

Keeping Safety on the Map



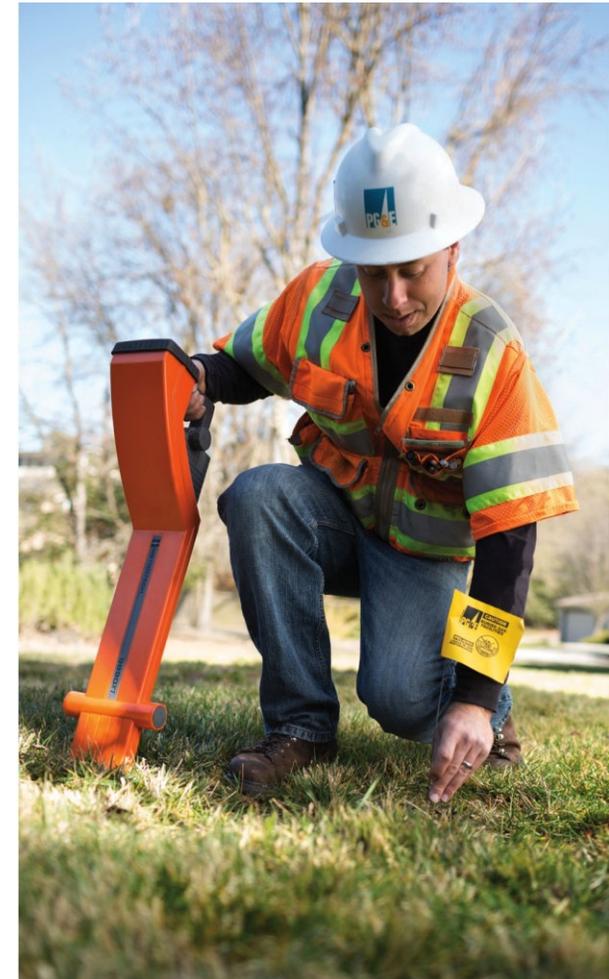
Gas Transmission Background

- Since San Bruno, PG&E has implemented important changes in its gas safety operations, including the maintenance and inspection of its pipeline.
- The company is making significant investments to maintain and operate a safe system.
- PG&E needs access to the land above the pipeline in order to quickly respond in emergency situations and perform necessary safety inspection and maintenance activities.



Pipeline Safety in Your Community

- PG&E is building a safer, stronger natural gas system
- In 2013, we launched a multi-year program aimed at improving access to our 6,750-mile natural gas transmission pipeline system
 - Comprehensive survey
 - Identification of incompatible structures and vegetation
 - Removal and replacement of trees and other vegetation
 - PG&E and Shareholder funded program



Step-by-Step Guide to Pipeline Pathways

1 High-precision Mapping



We've conducted a comprehensive survey of our 6,750-mile natural gas transmission pipeline system using GPS mapping technology. The result is a more precise pipeline map, which means better service and enhanced pipeline safety.

2 Marking for Safety



Pipeline markers indicate the location of the underground pipe and are a reminder to use extra care around gas transmission pipelines. We're replacing or installing new pipeline markers throughout our service area.

Step-by-Step Guide to Pipeline Pathways

3 Checking the Area Above Our Pipelines



We're checking the area above our gas pipeline (also known as the right-of-way) for items like sheds, patios, trees and certain vegetation, which can interfere with our ability to maintain, inspect and safely operate the system.

4 Reaching Out to Local Governments



We're meeting with state, federal and local officials to discuss our program. When structures or trees are located above the pipeline on franchise or city-owned property, we're working with local officials to remove the items and restore the area.

Step-by-Step Guide to Pipeline Pathways

5 Communicating with the Neighborhood



When work is taking place along city streets or public areas, we're reaching out to neighbors in advance and ensuring they're aware of the project. We're contacting property owners directly and working together throughout every step of the process.

6 Working Cooperatively



When structures, trees or certain vegetation are located in the area above the pipeline, we're working cooperatively with the property owner to discuss necessary removals and restoration options.

Step-by-Step Guide to Pipeline Pathways

7 Restoring the Area Above Our Pipeline



We know how important trees are to residents, the community and the environment. When a tree must be removed for safety reasons, we're working with the owner to restore the area with compatible landscaping.

8 Improving Pipeline Safety



Going forward, as part of our regular inspections, we'll be sharing information with property owners, providing ongoing education and partnering with communities to help build awareness around safe uses near critical infrastructure.



Oversight

PG&E operates under the oversight of regulatory agencies.



California Public Utilities Commission (CPUC)

The CPUC regulates privately owned electric, natural gas, telecommunications, water, railroad, rail transit, and passenger transportation companies. The CPUC serves the public interest by protecting consumers and ensuring the provision of safe, reliable utility service and infrastructure at reasonable rates, with a commitment to environmental enhancement and a healthy California economy. For more information, visit www.cpuc.ca.gov/puc.



Pipeline and Hazardous Materials Safety Administration

U.S. DOT Pipeline and Hazardous Materials National Transportation Safety Board Safety Administration

The Office of Pipeline Safety is the Federal safety authority for the nation's 2.3 million miles of natural gas and hazardous liquid pipelines. For more information, visit www.phmsa.dot.gov.



National Transportation Safety Board

The NTSB is an independent U.S. Federal agency that investigates every civil aviation accident in the United States and significant accidents in the other modes of transportation, conducts special investigations and safety studies, and issues safety recommendations to prevent future accidents. NTSB investigators are on call 24 hours a day, 365 days a year. For more information, visit www.nts.gov.

The NTSB is investigating the San Bruno accident and has issued safety recommendations for PG&E, the CPUC and PHMSA related to pipelines. The final results of the NTSB investigation are pending.



Maintaining a Clear Right-of-Way

- PG&E's right-of-way standard is based on industry best practices for safe operation
- Provides greater access to the pipe in the event of an emergency
- Allows crews to conduct both on-the-ground and aerial patrols to identify any leaks



Easements & Franchise

- Ensures PG&E's access to an area to maintain, inspect and safely operate the pipeline
- Restricts certain uses within the right-of-way
- Creates a shared responsibility between PG&E and the city or private property owners to maintain the area and ensure its easily accessible



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Pipeline Pathways Project Vegetation Management City of Sunnyvale



Information based on data available as of Nov. 05, 2013.
Date Saved: 11/5/2013 2:56:32 PM

	Gas Transmission Pipeline
	Vegetation Cleared as of 10/25/2013
	Vegetation Projects
	City Boundary
18	Projects
146	Trees > 15" DBH
77	Trees < 15" DBH
154	Brush Units





Replacement and Restoration

- As part of Pipeline Pathways, PG&E is offering the City replacement trees to be planted in an area outside of the right-of-way.
- PG&E is working cooperatively with the City and private property owners to restore the area disturbed by the removal work and offer a variety of landscaping options.
- Some types of low-lying vegetation do work well in the area above the pipeline, including flower beds, an assortment of lawns, grasses, mosses, low-growing herbaceous shrubs and other plants.



Private Property Action Plan



Pacific Gas and Electric Company
Pipeline Pathways Program
6111 Bollinger Canyon Rd., 3rd Floor
San Ramon, CA 94583

January 22, 2014

Recently Pacific Gas and Electric Company's (PG&E's) representative met with you to discuss incompatible vegetation that is located within a PG&E gas transmission franchise area on your property. After conducting a field inspection and/or survey, of your property, we determined that the encroachments identified below are impairing PG&E's ability to perform inspections, leak surveys, patrols and maintenance of this gas pipeline and must be removed and/or modified.

The following items will require removal and/or modification:

1. 3 Redwood trees (55 ft tall, 36" DBH)

PG&E or its authorized representatives or contractors will perform the following work, at no cost to you:

1. Remove 3 Redwood trees and grind stumps.
2. Provide compensation in the amount of \$450 (\$150 per tree).
3. Install sod at locations where trees are removed.

PG&E will perform the foregoing work in a workmanlike manner and in accordance with all applicable laws, ordinances and regulations. PG&E will obtain any permits or approvals that may be required (by the City of Sunnyvale) associated with the activities described in this Action Plan. We will keep the work area safe and remove any debris related to our activities from the property, including any limbs, trunks and stumps of trees that have been removed from the easement area.

Following the full removal of the tree, PG&E may need to perform additional excavation work.

In connection with PG&E's agreement to perform the foregoing work, you agree to do the following:

- A. Provide (unrestricted or pre-approved or agreed upon) access to your property to PG&E and/or their representatives, contractors and sub-contractors during normal business hours, and if necessary, on Saturdays in order to accomplish necessary work (in accordance with City of Sunnyvale Ordinances).
- B. Keep clear of the work area, and keep any children and pets away from the work area so as not to pose any safety risks or hazards while construction is taking place.
- C. Cooperate in the execution of any documents that may be required to perform the work, such as permit applications and related documents that may be required (by the City of Sunnyvale) to complete the activities described in this Action Plan.

After we have completed the work, we will meet with you to review the improvements and confirm in writing that the tasks identified in this Action Plan have been completed satisfactorily.

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This Action Plan is being carried out to ensure the easement will be clear of any obstructions, allowing PG&E access to the gas pipeline to perform regular maintenance, testing, and monitoring required to safely operate the pipeline and provide customers with reliable service. After this work is completed, you will be required to keep the easement area clear of any obstructions that may hinder PG&E's operation and maintenance of the gas line, including any incompatible vegetation that exceeds 18 inches in height.

If the foregoing is acceptable to you, we ask that you countersign this Action Plan in the space provided below and return it by mail to the address listed above or by email to JGG@pge.com. After we receive your concurrence, we will schedule the work and access your property at a mutually agreed upon date and time.

Sincerely,

Jamie Guillen
Land Consultant (Contractor)
925-328-5072

ACKNOWLEDGED AND AGREED:

By: _____ Date: _____

By: _____ Date: _____

PG&E Land Rep: _____ Date: _____



Landscape Restoration Options

PG&E will soon be in your neighborhood removing trees and incompatible vegetation from above the natural gas transmission pipeline located near your property. Following the vegetation removal work, PG&E will be working with property owners to restore the area. This work is one of many PG&E pipeline safety initiatives and will improve our ability to maintain, inspect and safely operate the pipeline.

What to Expect

PG&E will grind tree stumps to below grade and remove any debris from onsite. All property owners will be provided a low-maintenance soil restoration option. For those property owners who are interested in additional landscaping options, PG&E offers several alternatives. **To be eligible for one of the landscaping options detailed below, please contact us by January 27, 2014.** Lizz Williams, your local PG&E representative, can be reached by phone at 408-282-7640 or by email at lizz.williams@pge.com.



▲ Soil landscape option (standard)

Interested in other landscaping options? Contact PG&E today.

Landscape Alternatives

PG&E's landscape restoration options complement the local landscape and provide for compatible uses near the gas pipeline. Property owners may choose from the following options: small river rock, bark mulch or native drought-tolerant plants. When making your selection, please keep in mind that residents will continue to be responsible for maintaining the landscaping once the restoration work is complete.



▲ Small river rock option



▲ Bark mulch option



▲ Bark mulch with grasses option



▲ Compatible plantings option

The above photos are sample representations only. Please note plants have been shown at full maturity and are only examples of plants that may be used.



Use of Herbicides to Prevent Regrowth

- When necessary, after a tree is removed, we apply limited use of herbicides to prevent regrowth and minimize further customer disruption
- At the request of the customer, PG&E will not use herbicides on the property
- Environmental Protection Agency (EPA)-approved herbicides
- Managed by a California EPA-licensed Pest Control Advisor



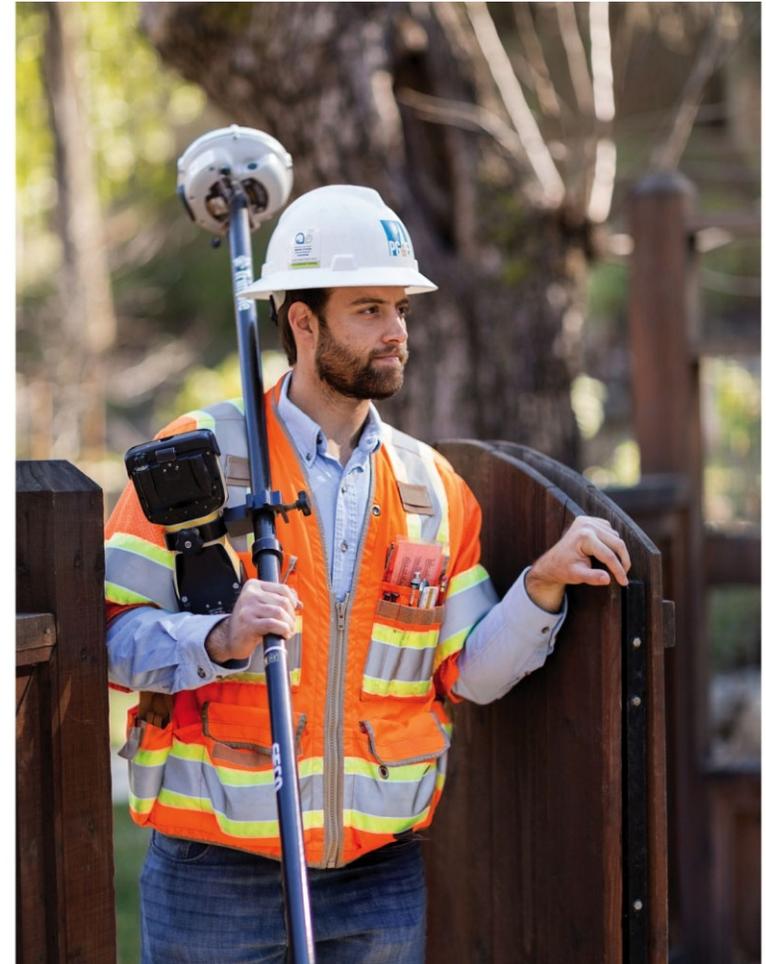
Moving Forward

- PG&E will conduct regular safety inspections of the pipeline
- Ensure pipeline markers remain visible and in good condition
- Continue and enhance customer education about pipeline safety, including calling 811 before any digging



Learn More

- To view an online map of PG&E's natural gas transmission pipelines, please go to www.pge.com/pipelinelocations
- To learn more about PG&E's comprehensive survey and our efforts to maintain ready access to the pipeline, please visit us at www.pge.com/pipelineaccess or call the Land Management Department at **1-877-259-8314**



Thank You

