



Standard Operating Guideline

Flammable Gas Response Operations



Scope: Sacramento Regional Fire Departments

Policy Contact

Sacramento Regional Operations Group

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References

- Regional Standard
- Emergency Response Guidebook 2024 (ERG)
- FOG Manual 2022: CH.21 Protective Action Guidelines

01. Guideline:

This document is intended to establish basic standard operating guidelines and procedures for flammable gas response operations.

02. Definitions:

- 2.1 Natural Gas:** An odorless, colorless gas that is lighter than air and will tend to rise and dissipate. It has odorant added to warn of its presence.
- 2.2 Propane:** An odorless, colorless gas that is slightly heavier than air and will tend to move to low-lying places. It has odorant added to warn of its presence.

03. Resources:

3.1 Flammable Gas Leak Outside

- One (1) - Engine
- Utility company (PG&E)

3.2 Flammable Gas Leak Inside a Structure

- One (1) – Engine

- One (1) – Truck
- One (1) – Battalion chief

04. Procedure

4.1 Flammable Gas Leak Outside

4.1.1 Considerations:

- Consider an isolation distance of 330 feet, and/or based on incident needs.
- Identify and locate the source.
- Where feasible, control ignition sources.
- Minimum of 1 ¾” hose line deployed to protect structure.
- Evacuate adjacent structures as necessary.

4.2 Flammable Gas Leak Inside a Structure

4.2.1 First Engine

Provide initial radio report and communicate initial actions based on incident priorities. Full structural turnouts with SCBA.

4.2.1.1 Considerations:

- Consider apparatus placement on-scene (outside the exclusion zone).
- Evacuate structure, if not already evacuated.
- Minimum of 1 ¾” hose line deployed inside structure.
- Secure utilities service to the structure and isolate all ignition sources.
- If fire occurs, focus should be placed on fire suppression over investigating and controlling the source.
- Establish air monitoring, check around doors and windows.
- If any LEL reading, ventilate the structure (natural or non-gas-powered fan).
- Evacuate adjacent structures as necessary.
- Fire personnel should not restore gas service to structure (utility company responsibility).

4.2.2 First Truck

Provide initial air monitoring or support air monitoring. Full structural turnouts with SCBA.

4.2.2.1 Considerations:

- Assist with ventilation (natural or non-gas-powered fan).
- Evacuate adjacent structures as necessary if not already completed.

- Assist with identifying and locating the source.
- Secure utilities to structure.

4.2.3 First Chief Officer

Establish/assume command, if not already established.

4.2.3.1 Considerations:

- Request additional resources, as needed.
- Establish appropriate command structure.
- Establish personnel accountability.
- Confirm utility company response.

4.3 Flammable Gas Leak Outside with Fire

4.3.1 First Engine

Provide initial radio report and communicate initial actions based on incident priorities. Full structural turnouts with SCBA.

4.3.1.1 Considerations:

- Assume a defensive posture and do not extinguish pressure-fed flammable gas fires until the fuel supply can be controlled.
- Establish exclusion zone and isolate, and deny entry.
- Establish a water supply and deploy hose lines to protect exposures.
- Work with utility company to stop the flow of gas.
- If fire is impinging on storage tanks, rail cars, or cargo tanks and immediate cooling measures (at least 500 GPM) cannot be implemented, evacuate the area for up to one (1) mile.
- If fire extends into a structure, request additional resources as necessary.

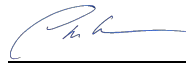
SIGNATURES

The undersigned approve the contents of this document.



Troy Bair (Dec 2, 2024 07:31 PST)

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Flammable Gas Operations


Final Audit Report


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