nationalgrid



Manhole incidents: Your key response strategies Manhole fires and explosions may be fueled by natural gas leaks or flammable vapors that migrate through underground utility conduits. Leaking gas can quickly build to a flammable concentration within these confined areas, and when ignited, may explode or burn. These incidents may place firefighters in proximity to underground utility lines that are compromised by fire conditions and atmospheres that are immediately dangerous to life and health (IDLH).

First and foremost: Do not enter! Manhole fires may involve utility equipment and lead to the formation of reactive gases uch as hydrogen, acetylene and ethylene. Regardless of its size, consider every manhole confined space containing potentially toxic gases, hazardous materials and an explosive tmosphere, and STAY OUT.



Treat a combustible gas fire in a manhole as you wou a natural gas fire: Let it burn and protect exposures while you wait for National Grid to arrive and shut off the gas and/or isolate the electric circuit. National Gri representatives can provide valuable situational awareness including the probable location and any hazards present in the manhole.

ou must enter a manhole to assist a victim, proceed according to your department's ndard operating procedures for confined space rescue. Use full PPE and SCBA and sider activating special resources such as a technical rescue team.

incident do's and don'ts

sck for flammable gas when responding to gas incidents in or around nholes. Always check for flammable gas concentrations, regardless of source dentify the level of hazard and to identify appropriate evacuation zones. manhow. to identify



- Do not remove manhole covers. If a flammable atmosphere cover could bring the atmosphere into the explosive range. osphere exists, opening the
- Never park over or near a manhole cover. An explosion in a manhole can prop the cover into the air with great force. If you detect combustible gas at flammable concentrations near a manhole, keep fire personnel and vehicles away, reroute traffic and evacuate the area.
- Work with National Grid to assess the extent of potential gas migration. Ta necessary steps to isolate the affected areas and evacuate potentially impacted structure
- Be alert for risks posed to nearby plastic gas pipes or cast iron mains. Underground fires or releases of high-pressure steam may compromise these pipes. In either case, combustible gas may accumulate underground at flammabl concentrations. Collaborate with National Grid emergency representatives to identify areas served by plastic pipes and cast iron mains.

Case in point: Smoking manhole holds hidden hazard

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_earn more gas and electrical utility response tips at irstresponder.ngridsafety.com.

National Grid's free First Responder Utility Safety Training Program has helped housands of emergency response personnel learn to operate safely during incidents nvolving utility hazards. This program, which includes gas and electric certification rainings, covers natural gas pipelines and electric power lines as well as other faciliti



certification programs are self-paced. Users who complete the gas and e rrams will earn personalized certificates of completion.

Keep yourself, your team and the public safe. Visit firstresponder.ngridsafety.com today to register and complete your utility safety training.





Smell Gas. Act Fast.

Rhode Island contacts Gas emergencies: 911 and 1-800-640-1595 Massachusetts contacts Gas emergencies: 911 and 1-800-233-5325 w York contacts g Island a kaways: and 1-80 Electric emergencies: 911 and 1-800-465-1212 Electric emergencies: 911 and 1-800-465-1212 Metro NY: 911 and 1-718-643 Upstate NY: 911 and 1-800-892-23 911 and 1-800-867-5222

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