

Excavator safety near underground natural gas pipelines

Use this poster for employee training

In a gas emergency, call National Grid and **911** 24 hours a day, 7 days a week

Upstate New York: 1-800-892-2345

Smell Gas. Act Fast.



Help protect natural gas pipelines

- ◆ National Grid pipelines deliver natural gas safely and reliably to homes and businesses across New York, Massachusetts and Rhode Island. We regularly inspect these pipelines for corrosion and defects, monitor for leaks and conduct routine maintenance.
- ◆ The greatest risk to gas pipelines is accidental damage during excavation.
- ◆ Hitting a natural gas pipeline has serious consequences. Even a tiny gouge, scrape, dent or crease to a gas pipe or its coating may cause a leak that could lead to a catastrophic fire or explosion.

Recognize and respond to gas leaks



A gas leak may have a distinctive, sulfur-like odor (but not always). Be alert for these other warning signs as well:

- ◆ a hissing, whistling or roaring sound
- ◆ dirt blowing into the air from a hole in the ground
- ◆ continuous bubbling in water
- ◆ a damaged connection to a gas appliance



If you contact a natural gas pipeline and/or suspect a gas leak, assume there's a danger:

- ◆ Warn others, leave the area quickly and stay away until utility personnel say it is safe to return.
- ◆ Do not use matches, lighters or anything electrical – even a phone.
- ◆ Leave the excavation open, and do not attempt to stop the flow of gas.
- ◆ From a safe location, call National Grid and **911**.

Notify 811, and dig with care

- ◆ State law requires you to call Dig Safely New York or make an online request at least two full working days before any excavation starts, excluding the day you call and weekends and legal holidays.
 - This free service will arrange for marking of buried natural gas lines and other utilities so you can work a safe distance away from them.
 - Call **811** or **1-800-962-7962** | digsafelynewyork.com.
- ◆ Before you call, pre-mark your proposed dig area with white paint, flags or stakes.
- ◆ Wait for utilities to locate and mark their lines before you dig.
- ◆ Physically locate marked natural gas pipelines by hand digging. If you cannot locate marked pipelines, STOP digging and contact National Grid immediately.
- ◆ Do not use mechanical excavation equipment within the “tolerance zone,” which spans the width of a marked utility plus **24 inches** from each indicated outside edge. Use **ONLY** hand tools or vacuum technology within this safety zone.
- ◆ If you are working near an exposed natural gas cast-iron pipe, contact National Grid.



Watch out around pipeline markers

- ◆ High-visibility markers with National Grid's 24-hour emergency phone number indicate the general location of our high-pressure natural gas pipelines.
- ◆ If you notice any type of suspicious activity near a pipeline marker or you see a marker has been damaged, call National Grid immediately at the number listed on the marker.
- ◆ For security purposes, these markers do not show the exact location, path, depth or number of gas pipelines in the area. In addition, pipelines may not follow a straight course between markers.
- ◆ Never use pipeline markers or maps as a substitute for contacting 811 to have all utility lines in your dig area located and marked.



Tear along perforated line.

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Respond safely to natural gas emergencies

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HERE WITH YOU. HERE FOR YOU.

Keep this card handy in your vehicle visor or glove box.

Gas leak signs: A gas leak may have a distinctive, sulfur-like odor (but not always). Other signs may include a hissing, whistling or roaring sound; dirt blowing into the air from a hole in the ground; continuous bubbling in water; or a damaged connection to a gas appliance.

If you contact a natural gas pipeline:

1. **Leave your equipment behind.** Warn others of the danger, and leave the area quickly. Stay away until utility personnel say it is safe to return.
2. **Do not use matches, lighters or anything electrical – even a phone.** A spark could ignite the gas.
3. **Do not operate underground pipeline valves or attempt to stop the flow of gas.** Never bury a contacted pipeline.
4. **From a safe location, call National Grid and 911 immediately.**
5. **Report the incident to your supervisor.**

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24 hours a day, 7 days a week

Upstate New York: 1-800-892-2345

Smell Gas. Act Fast.



Know what's below.
811 before you dig.

Call National Grid and **911** if you suspect a gas leak or if you make **ANY** contact with a natural gas line, even if you just nick the pipeline or damage its coating.

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Excavator Safety

Employee training materials on natural gas pipeline safety enclosed



Protect yourself, your crew and the public. Urge your employees to follow the enclosed safety tips when they work around underground natural gas lines.

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Visit nationalgridus.com and connect with us on



Know what's below.
811 before you dig.



Employee training materials on natural gas pipeline safety enclosed

104 Bridge Road
Salisbury, MA 01952

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Dear Excavator:

Excavator pre-digging requirements by New York state law

National Grid's natural gas pipeline operations would like to remind you about the company's underground facility Damage Prevention Program. New York State law (NYCRR 16 Part 753) requires excavators to contact Dig Safely New York, the association of registered public utilities, at least two full working days (excluding weekends and legal holidays) before commencing excavating activity. National Grid, as a member of Dig Safely New York, will be notified of your intent to excavate when you contact Dig Safely New York at either of the following toll-free numbers or website:

811 or 1-800-962-7962 | digsafelynewyork.com

National Grid protocol when pipelines are identified within excavation areas

If National Grid gas pipeline facilities are within the described or pre-marked excavation area, the company will mark the location within the required safety zone with yellow paint, flags or other physical means. For larger projects, a National Grid employee or representative may contact you to coordinate scheduling of work as required by state law. Facility depth information cannot be provided because of grade changes that may have occurred after the gas facilities were installed. Facility location marks will not reflect the existence of any protrusions, appurtenances, fittings or valves that are inherent to underground pipeline facilities.

Excavation procedures once gas utilities are marked

After such markings are provided, excavating personnel must determine the exact location of all underground facilities using safe and acceptable means. The law prevents powered or mechanized excavation within 24 inches on either side of underground facilities. If excavation is required within the 24-inch zone, such excavation should be performed very carefully with hand tools only and without damage to the facility. Damage includes but is not limited to nicks, dents, cuts, scrapes or gouges to the marker balls, tracer wire, pipe surface or coating; seemingly insignificant damage can lead to a future pipeline failure. Excavators must also exercise reasonable care to support gas pipelines during excavation and backfill activities to avoid pipes being damaged by their own weight or excavation compaction. Excavators should notify National Grid whenever cast-iron gas pipe is exposed or fails within an excavation trench's angle of repose.

Excavator information sessions and safety presentations

Excavator information sessions on topics such as Dig Safely New York, the Call Before You Dig Program, the Dig Safely New York law changes and excavation safety tips for excavating personnel can be scheduled by visiting digsafelynewyork.com and clicking on the "Schedule a Training" under the Safety & Training section.

Smell Gas. Act Fast.

Thank you.

Sincerely,

John Furne

Damage Prevention

UpstateDamagePrevention@nationalgrid.com

For additional safety information, please visit our Energy Safety website: nationalgridus.com/safety

Backfill for pipeline safety

- ◆ Remove sharp objects, trash, debris, wire and rocks from the trench.
- ◆ Backfill a six- (6-) inch radius of padding sand around natural gas pipelines.
- ◆ Remove rocks more than three (3) inches in diameter from the padding sand level to grade.
- ◆ Use only clean backfill materials – no paving materials, cinders, ash or flowable fill.
- ◆ Compact soil in 12-inch lifts up to six (6) inches above the pipe to a density comparable to the surrounding soil.
- ◆ Hand tamp around fittings where mechanical compaction cannot be used.
- ◆ Do not damage the copper wire that may be running near a plastic natural gas pipeline.
- ◆ Use special care to protect cast-iron pipelines from damage.



Please visit nationalgridus.com for more natural gas safety tips. Translations of important safety information and National Grid services are available by choosing the *Select Language* feature at nationalgridus.com.

This is an important notice. Please have it translated.

Este é um aviso importante. Queira mandá-lo traduzir.

Este es un aviso importante. Sírvase mandarlo traducir.

Avis important. Veuillez traduire immédiatement.

Questa é un'informazione importante, si prega di tradurla.

ĐÂY LÀ MỘT BÀN THÔNG CÁO QUAN TRỌNG

XIN VUI LÒNG CHO DỊCH LẠI THÔNG CÁO AV

Это очень важное сообщение. Пожалуйста, попросите, чтобы вам его перевели.

nationalgrid
HERE WITH YOU. HERE FOR YOU.

Have you notified 811 yet?

Call 811 or make an online request before you start digging. It's the law!

Five steps for safe excavation

1. Plan your job and pre-mark your dig area with white paint, flags and/or stakes.
2. Call 811 or make an online dig ticket request before any excavation starts: Dial 811 or 1-800-962-7962 | digsafelynewyork.com
3. Wait the required time for utilities to locate and mark their lines: At least two full working days excluding the day you call and weekends and legal holidays.
4. Respect the marks and maintain them while digging.
5. Dig with care and follow hand-excavating rules.

American Public Works Association color code for locator marks



- Electric power lines
- Gas, oil or steam
- Communications lines, cables or conduit
- Temporary survey markings
- Potable water
- Reclaimed water, irrigation and slurry lines
- Proposed excavation
- Sewer and drain lines

If you find an unmarked line, stop digging and call 811 immediately.

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