Gas Leak Technician Pocket Field Guide

GRADE 2+:

- BF: Any leak located within a school zone- MA only
- BZ: Judgement: Warrants action in a few days

<u>inaex</u>

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Grade 2 Leaks:

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Survey Steps:

<u>GRADE 2</u>:

- CA: =/> 2% gas under sidewalk in a wall-to-wall paved area that does not qualify as GR 1
- **CB:** =/> 5% under the street in a wall-to-wall paved area that does not qualify as GR 1
- **CC:** Leakage on both sides of paved driveway and/or indicates migration along driveway to building
- CD: Sustained readings on both sides of a street or corners of an intersection
- CE: <4% gas in a small non-gas substructure with likely migration and probable future hazard

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ABBREVIATIONS:

BKBKB: Back of back building

BS: Bare stealCB: Curb box

Comp. SL: From curb valve to mainCust. SL: From meter set to curve valve

CV: Curve valve
EFV: Efficient flow valve
FFB: Front of front building
HP: High pressure

• IP: Intermediate pressure

• ML: Main line

• MP: Medium pressure

GRADE 3:

- DA: Any sustained reading of less than 4% gas in small gas associated substructure
- DB: Under street area without wall-to-wall paving , unlikely migration to outside building wall
- **DC:** Above ground leak, not caused by corrosion. Judgement- expected to remain non-hazard

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ABBREVIATIONS CONTINUED:

MS: Meter set MV: Meter valve NCV: No curb valve LP: Low pressure LRB: Left of right building Left of right garage LRG: RLB: Right of left building South of curb SCU:

Tap: Where service lines goes into main line

Service line

• WB: Water box

Conversions:

ABBREVIATIONS CONTINUED:

Materials:

SL:

CI: Cast iron PI: Plastic Insert UN: Unknown CO: Copper S: Steel OT: Other ST: Steel treated P: Plastic

• WI: Wrought iron

Gas in Air LEL% **PPM** 1% 0.05% 500 0.10% 2% 1000 0.17% 3% 1650 0.24% 4% 2400 0.25% 5% 2500 6% 0.30% 3000 0.35% 7% 3500 0.40% 8% 4000 0.45% 9% 4500

10%

0.50%

CONVERSIONS:

5000

0.9 m (3 ft.)

AD: =/> 4% gas in a large subsurface structure that can

AE: =/> 4% gas in small non-gas substructure with likely

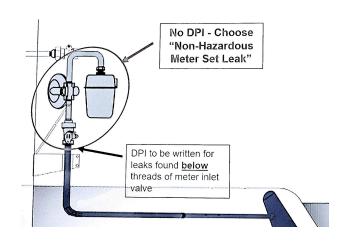
accommodate a person or accumulate gas

migration to building wall/source of ignition

AZ: Judgement: Immediate hazards

GRADE 1:

- AF: Seen, heard and felt in a location that may endanger general public or property
- AG: Sustained reading in consecutive manholes, catch basin or substructures- not MA
- AH: Above ground leak: with blowing or hissing close to a building. Judgement: Immediate hazard
- Al: Inside leak that requires a component replacement
- AJ: Inside leak =/> 2% LEL cleared by lubrication, adjustment or tightening

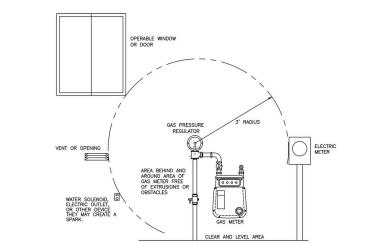


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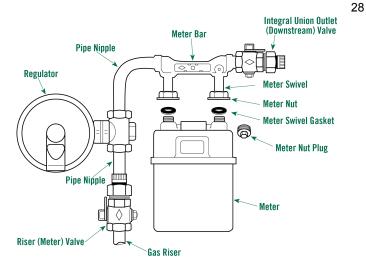
Grade 2+ Leaks:

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GRADE 2+:

- BA: A leakage area close to but not against a foundation or building wall
- BB: Leakage on service line under continuous paving from leak area to building wall
- BC: Likely migration to the outside building wall under existing or imminent frost
- BD: <4% gas in a manhole, conduit, catch basin or tunnel in a wall to wall pavement
- BE: Above ground leak. Judgement: Requires accelerated repair



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