Distribution Line Valve Spacing

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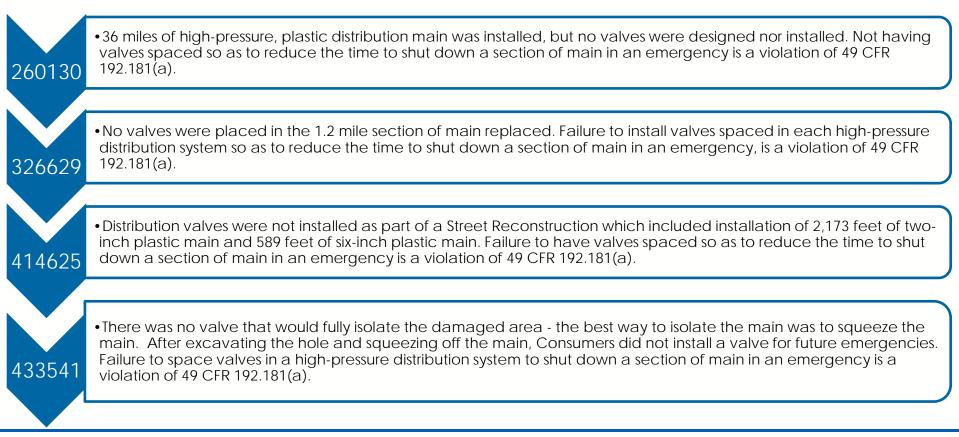
Agenda

- Welcome
- 192.181 Requirements
- Review of Violations
- Installation Considerations
- Inspection Requirements
- Conclusion Q&A

49 CFR Part 192 – 192.181 Distribution line valves

- (a) Each high-pressure distribution system must have valves spaced so as to reduce the time to shut down a section of *main* in an emergency. The valve spacing is determined by the operating pressure, the size of the mains, and the local physical conditions
- (b) Each regulator station controlling the flow or pressure of gas in a distribution system must have a valve installed on the inlet piping at a distance from the regulator station sufficient to permit the operation of the valve during an emergency that might preclude access to the station.
- (c) Each value on a main installed for operating or emergency purposes must comply with the following:
 - 1) The valve must be placed in a readily accessible location so as to facilitate its operation in an emergency.
 - 2) The operating stem or mechanism must be readily accessible.
 - 3) If the valve is installed in a buried box or enclosure, the box or enclosure must be installed so as to avoid transmitting external loads to the main.

Violation summaries received for 192.181



WHEN TO INSTALL

New main installation Replacement main installation



WHERE TO: (refer to Gas Distribution Engineering Manual)

Intersections & tie-ins determined by System Planning	Controlled-Access Highway	Freeway crossings	Railroads crossings	Bridge crossings
Crossing navigable waters defined by MDEQ	Industrial Park Entrances	Mobile Home Park Entrances	Proposed Residential Development Entrance	Street intersections within a business district
	Lateral connections off header mains with >99 customers	Rural 2" main extensions on primary roads that will serve >99 customers	Service connection for critical customers (operator determined)	

Inspection Requirements

Poly-valves -

- Maintenance Free (claimed by Manufacturer)
- Still need to maintain per gas code
- Annually checked and serviced
 - Following existing requirements in the Operations and Maintenance (O&M) Manual.
- Michigan added Rule requires operation of the valve.
 - Currently applying for a waiver to not operate valves annually.
 - Update required to O&M Manual once approved.

Conclusion

