



# Virginia

## 2008 Inspection Activities

- 333 Natural Gas Construction Inspections
- 3 Hazardous Liquid Breakout Tank Repair Inspections
- 69 Hazardous Liquid Integrity Management Direct Assessment Inspections

§192.59(a)(5) - Failure to install a service line that is free of defects.



Gouge greater than  
10% of wall thickness

§192.285(c)(1) - Failure to re-qualify an individual to perform joining.



§192.303 - Failure to construct a main in accordance with comprehensive written specifications.

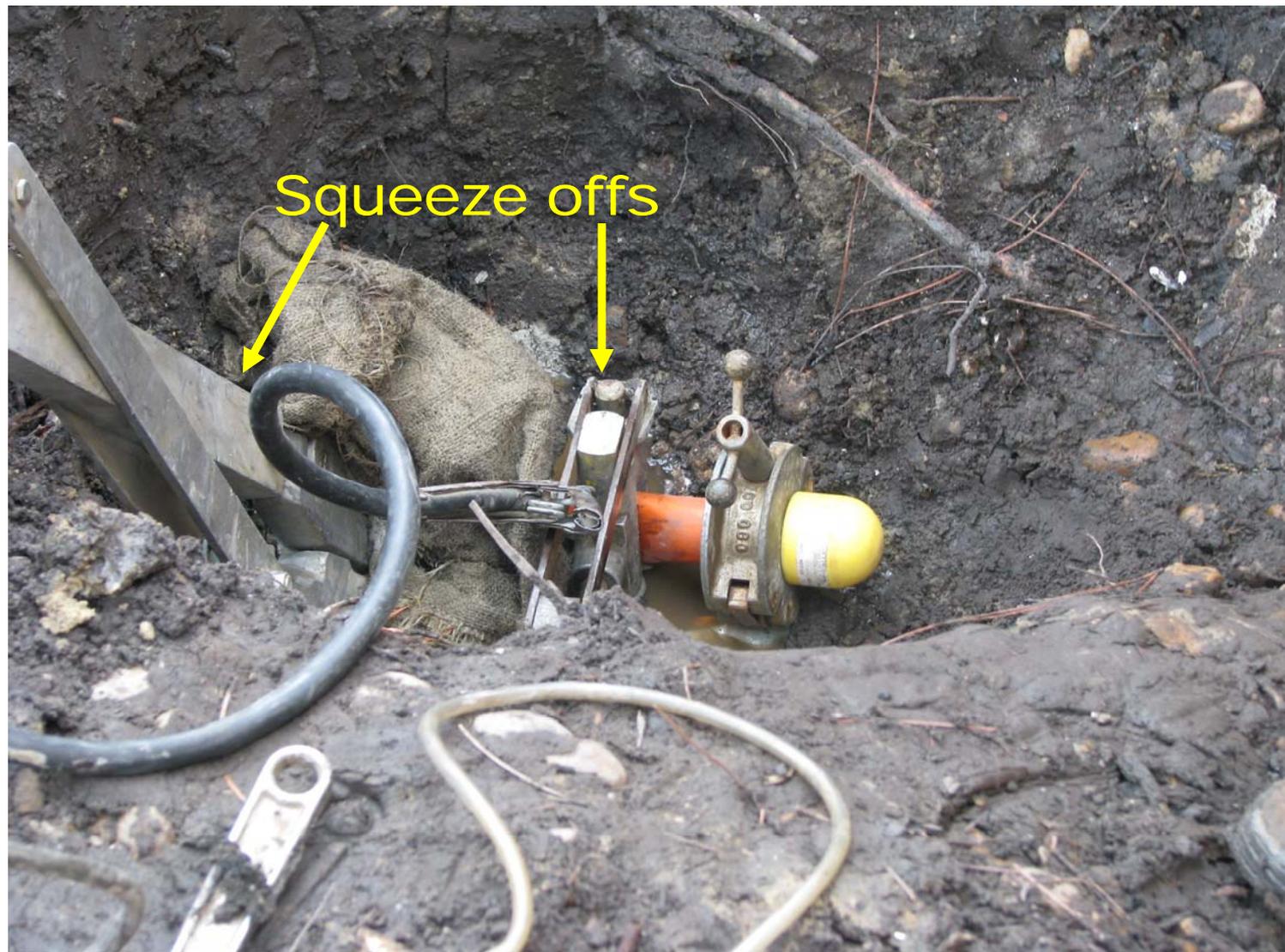




§ 192.281(e)(2) – Failure to use a rigid internal tubular stiffener, other than a split tubular stiffener, in conjunction with a coupling on plastic pipe.



§192.605(b) - Failure to have adequate procedures for squeezing off a pipeline.



# Industry Standards and Pipe Manufactures Recommend

- The squeeze off tool must be at least 3 pipe diameters, or 12 inches, whichever is greater, away from any butt fusion, or any socket, saddle, or mechanical fitting.

§192.303 - Failure to construct a main in accordance with comprehensive written specifications by not following the backfill requirements.



§ 192.614(C)(6)(i) – Failure to conduct inspections as frequently as necessary to verify the integrity of the pipeline.



## Distance from tracer wire to pipe



Tracer wire located  
31 inches  
horizontally and 6  
feet, 3 inches  
vertically from the  
pipe

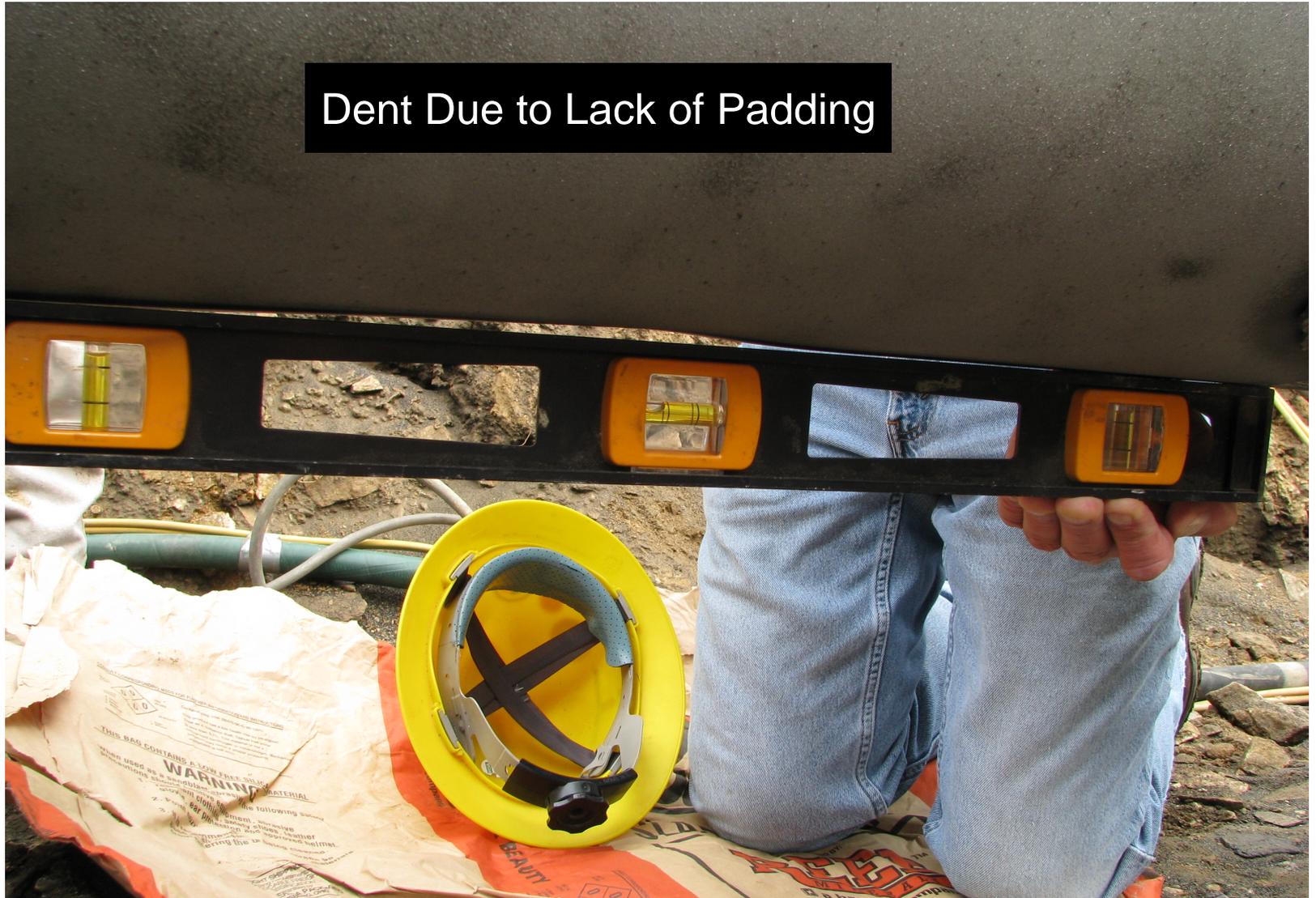


# Trenchless Excavation around Sewer Laterals



§192.303 - Failure to construct a main in accordance with comprehensive written specifications.

Dent Due to Lack of Padding



§192.303 - Failure to construct a main in accordance with comprehensive written specifications.



Coating Damaged by Trash in Backfill

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**Duct tape found under coating upon removal**

The “jeep” setting needs to change when the coating thickness changes





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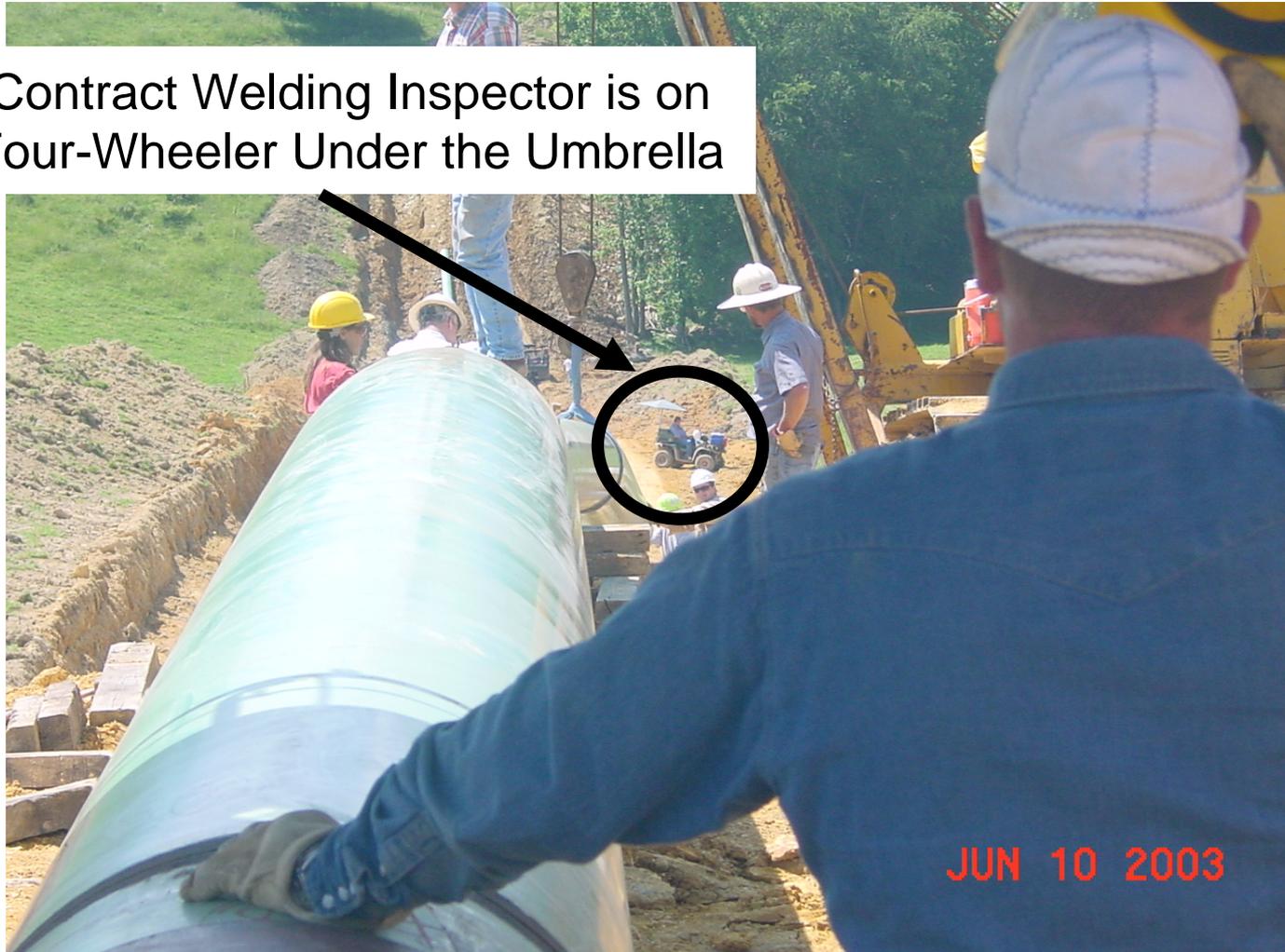


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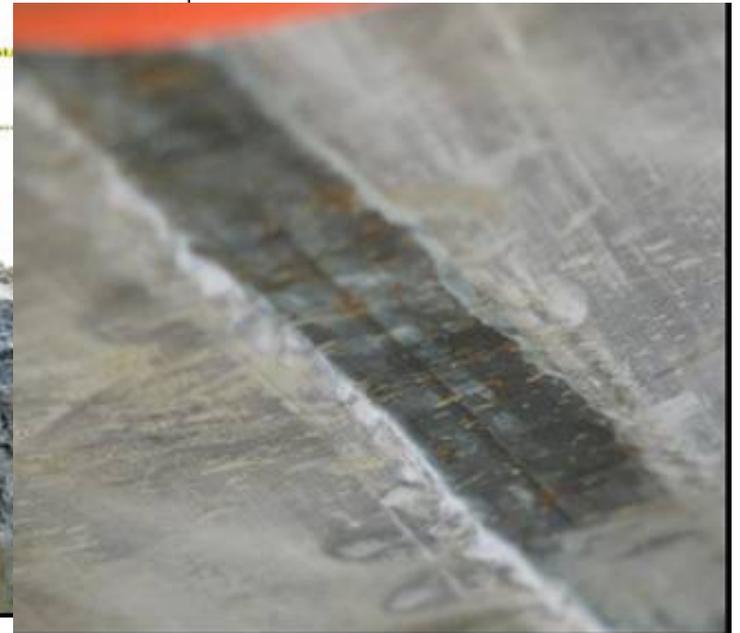


§192.303 - Failure to construct a main in accordance with comprehensive written specifications.

The Contract Welding Inspector is on the Four-Wheeler Under the Umbrella



§192.303 - Failure to construct a main in accordance with comprehensive written specifications.



# Root Causes for Noncompliance

- QA/QC – Operator or Inspector Presence
- Complacency and Shortcuts
- Lack of or Insufficient Training for Operator and Contractor Crews

# End



# NAPSR Survey

## Common Findings During Pipeline Construction Inspections

- Improper Coating and Holiday Detection.
- Lack of Plans, Procedures, and Specifications.
- Improper Bedding and Backfill.
- Lack of Operator Oversight.
- Questions about Qualifications.

# NAPSR Survey Response

## Suggested Code Changes to Improve Pipeline Construction

- Apply OQ to new construction.
- Apply existing construction requirements to the installation of services.
- Apply construction requirements to O&M.