





Pipeline Safety Standard Comprehensive Inspections

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Presentation Agenda



- Standard versus specialized
- General structure of these inspections
- Database information needed
- Forms covered during these inspections
- Provide considerations during inspections (throughout the presentation)



Standard versus Specialized

Standard versus Specialized



- Standard comprehensive is system specific.
 - Focus is on procedures/records applicable to a pipeline system.
- Specialized inspections are plan specific.
 - Example: Operation, maintenance, and emergency plan.
 - Encompasses covered assets and applicable procedures and records.



Standard Inspection Structure

Standard Comprehensive Structure

- Open inspection package in database
- Input system data into inspection package
- Gather drug and alcohol information and data
- Review plans, permits, procedures, and records
- Conduct field inspection
- Conduct executive closing



Database (PIPES) Information

Database Information Needed



- Database = PIPES
 - Pipeline Inspection, Permitting, and Evaluation System
- Company Representative for correspondence
 - Not executive closing forms
 - Our rule is a Vice President or higher*
- Input of system-specific information

 Gathering/Transmission and Distribution

Distribution Data for PIPES (1 of 4)

- Purchased meters
- Customers
- Odorizer (Self or supplier)
- Odorizer Type
- How many odorizers?
- Odorant used
- How many city gates?

Distribution Data for PIPES (2 of 4)



- Patrol points
- Any safety related conditions?
- Any farm taps?
- Average service length
- Unrepaired grade 2 leaks (Rule 8.207)
- Unrepaired grade 3 leaks (Rule 8.207)
- Review PS-95's

Distribution Data for PIPES (3 of 4)

- Regulator Stations
- Master Meter Regulator Stations
- Any low-pressure sections on system?
- Cathodic protection zones
- Short cathodic protection sections
- Amount of casings
- Any shorted casings?

Distribution Data for PIPES (4 of 4)

- Lost and Unaccountable Gas (LUG)
 - Thousand cubic feet (MCF) purchased
 - MCF sold
 - Calculate the percentage of LUG
- Number of services by type/size
 - Service material (Steel/Plastic)
 - If steel, is it (are they)coated?
 - If steel, does it (do they) have cathodic protection?
 - What is the diameter?

Transmission Data for PIPES (1 of 4)

- Also applies to gathering systems
- Inlets
- Outlets
- Customers
- Odorizers and odorant used
- Customers odorizing
- Regulator Stations

Transmission Data for PIPES (2 of 4)

- Patrol Points (Exposures)
- Navigational Crossings
- Any Safety Related Conditions (SRCs)
- Compressor Stations
- If so, are the stations attended?
- CP zones
- Short CP sections

Transmission Data for PIPES (3 of 4)

- Casings
- Shorted casings (If any)
- H2S Inlets
- H2S Max PPM
- Farm Taps
- Any unrepaired leaks?

Transmission Data for PIPES (4 of 4)

- Miles of pipe by size and material
 - Steel/Plastic
 - CP or no CP?
 - Coated? If so, what type?
 - Diameter
 - Mileage
- Split by different attributes

Additional Data for PIPES (1 of 3)

- Maximum Allowable Operating Pressure (MAOP)
 - What pressure?
 - Entire System?
- Overpressure protection method

 Relief valve? Provided by self or upstream?
- Any repaired leaks?

Additional Data for PIPES (2 of 3)

- Miles in different class locations
 - What class?
 - Mileage in that class?
 - Is it odorized?
 - HCA?
 - Smart piggable?
 - Pressure tested?
 - Pipe Grade/Wall Thickness/Diameter/MAOP
 - Split out by attributes



- Supplier(s) of the pipeline system
 - Traceability



Drug and Alcohol (D&A) Information

Drug and Alcohol (D&A) Data



- Do you have a D&A plan?
- Supervisor Training verification
 - 1 hour of drug (49 CFR 199.113(c))
 - 1 hour of alcohol (49 CFR 199.241)
- Employee Assistance Program number – "Hot-line" number (49 CFR 199.113(b))
- Go over latest Management Information System (MIS) data.



Brief Checklist Overview

Beginning Checklist Coverage

- Covers applicable plans
 Date plan was last reviewed
- Covers permits and reports
 - P-5 and T-4 permit(s)
 - Annual report, new construction, and incidents (if applicable).

Procedure and Record Portion



- Checklist covers applicable procedures and records associated with system
 - Cathodic Protection
 - Construction
 - Integrity (If applicable)
 - Pressure Testing
 - Operations and Maintenance
 - Operator Qualification (OQ)



Field Portion

Field Portion



- Compressor stations and offshore piping (If applicable)
- Cathodic Protection
- Atmospheric Corrosion
 Soil-to-air interface
- Emergency valves
- Overpressure protection
- Farm Taps
- Line Markers (Signage)

Field Portion Considerations

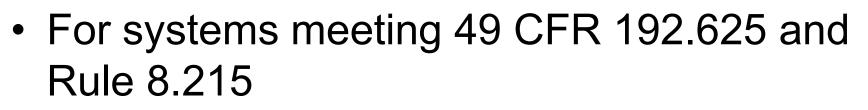


- Texas weather is slightly unpredictable
 Schedule can be adjusted accordingly
- Inspectors sometimes request copies of records for field
 - Not to take home, just for notes purposes.



Odorization (If applicable)

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- Instrument used to test odor
- Serial number of instrument
- Calibration date
- Percentage of gas to air mixture



Executive Closing

Executive Closing



- Conducted at the end of each inspection
 - List any alleged violations (if any)
 - Will be emailed via the PIPES database
 - Email will come from <u>Safety@rrc.texas.gov</u>





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