

Operations and Maintenance Procedures

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Section: Maintenance	Revision Date: 09/06/16

Visual Inspection of New and Exposed Pipe & Components

SCOPE AND PURPOSE

This procedure is to ensure structural integrity & adequate external corrosion protection for the pipeline systems. It describes damage & corrosion protection inspection practices required to comply with §192.459.

RESPONSIBILITY

The Construction or System Maintenance Supervisor, or other designee, is responsible to ensure that visual inspections of pipe and components are performed as described in this procedure.

PERSONNEL SAFETY (Where Applicable)

Wear a hard hat and high visibility safety vest when working at the job site location. When arriving at the location, be aware of any environment that can pose a threat to personnel safety.

EQUIPMENT AND MATERIALS

System maps and records
Routine hand tools
Other equipment and materials as needed

OPERATOR QUALIFICATION

This activity is a covered task under the Operator Qualification Plan and may only be performed by or directed and observed by an individual who is currently qualified to perform visual inspection of buried pipe and components when exposed. Refer to the OQ Plan for specific qualification requirements.

INSTRUCTIONS

Buried Pipe and Components

- Clean exposed portion of buried pipeline and components by removing soil.
- Visually and physically examine buried pipeline and components when exposed for evidence of external corrosion, dents, gouges or cracks.
- If the pipe is coated, visually inspect the condition of the coating, checking for areas where the coating has become disbonded from the pipe or is missing.
- If external corrosion requiring remedial action is found, an investigation shall be performed both circumferentially around the pipe and longitudinally along the pipe beyond the exposed portion to determine whether additional corrosion requiring remedial action exists in the vicinity of the exposed portion.
- Remedial action shall include replacement or cleaning and recoating.

New Pipe and Components

- Before installing the pipe and components:
- Visually inspect them for dents, gouges and cracks

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- c. Visually inspect the condition of the coating, checking for areas where the coating has become disbonded from the pipe or is missing.
- d. Visually inspect for internal and external corrosion.
- e. If damage to the pipe, component or coating is found or corrosion is found, the pipe must be restored to or exceed manufacturers specifications or not be used.

REPORTING/NOTIFICATION

The SCUD employee shall complete documentation in accordance with the Operation and Maintenance Manual. SCUD utilizes electronic forms to record and maintain all external corrosion records. Any exterior corrosion shall be reported on the electronic Exposed Pipe Form.

ABNORMAL OPERATING CONDITIONS

AOC Main Category (Examples of Specific AOCs)	Reactions to AOC, as appropriate	
<i>Unplanned escape of product from a pipeline</i> <ul style="list-style-type: none"> Blowing/Escaping gas/Grade I leak 	<ul style="list-style-type: none"> ➤ Protect life & Property ➤ Prevent accidental ignition ➤ Notify appropriate personnel ➤ Notify Fire/Emergency Responders ➤ Initiate Emergency Plan 	<ul style="list-style-type: none"> ➤ Locate source/cause of AOC ➤ Use appropriate PPE ➤ Stop gas flow ➤ Make repairs/eliminate AOC
<i>Fire or Explosion</i> <ul style="list-style-type: none"> Fire on a pipeline Explosion 	<ul style="list-style-type: none"> ➤ Protect life & Property ➤ Prevent accidental ignition ➤ Notify appropriate personnel ➤ Notify Fire/Emergency Responders ➤ Initiate Emergency Plan 	<ul style="list-style-type: none"> ➤ Locate source/cause of AOC ➤ Use appropriate PPE ➤ Stop gas flow ➤ Make repairs/eliminate AOC
<i>Pipeline Damage</i> <ul style="list-style-type: none"> Coating Damage Corrosion Damage Dents, Gouges, Scrapes, etc. 	<ul style="list-style-type: none"> ➤ Protect life & Property ➤ Prevent accidental ignition ➤ Notify appropriate personnel 	<ul style="list-style-type: none"> ➤ Locate source/cause of AOC ➤ Make repairs/eliminate AOC
<i>Inadequate Odorization or Reports of Gas Odor</i> <ul style="list-style-type: none"> Low odorization Over odorization Odor complaint 	<ul style="list-style-type: none"> ➤ Protect life & property ➤ Prevent accidental ignition ➤ Notify appropriate personnel 	<ul style="list-style-type: none"> ➤ Locate source/cause of AOC ➤ Make repairs/eliminate AOC

RELATED PROCEDURES

MAINT007 – Measurement of External and Atmospheric Corrosion