

Operations and Maintenance Procedures

SCUD Procedure # MAINT006	Page 1 of 2
O&M Section # 6.4	SCUD Task # 35
Section: Maintenance	Revision Date: 09/06/16

Visual Inspection for Atmospheric Corrosion

SCOPE AND PURPOSE

This procedure is to ensure adequate external corrosion protection for the pipeline systems. It describes corrosion protection inspection practices required to comply with §192.479 and §192.481.

RESPONSIBILITY

The System Maintenance or Measurement Supervisor, or other designee, is responsible to ensure that visual inspection for atmospheric corrosion is performed as described in this procedure.

PERSONNEL SAFETY (Where Applicable)

Wear a hardhat and high visibility safety vest when exposed to vehicular traffic or construction activity. 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
System leak grading criterion
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 for atmospheric corrosion. Refer to the OQ Plan for specific qualification requirements.

INSTRUCTIONS

- a. While approaching the pipeline or portion of pipeline, perform a visual examination of the area for signs of conditions that may contribute as a factor to atmospheric corrosion. An example of this would be above ground piping subjected to abnormal amounts of water, moisture, temperature, air pollutants, chemicals, or other corrosive agents.
- b. Visually and physically examine above-ground facilities for the presence of atmospheric corrosion including, but not limited to:
 - General “uniform” corrosion – large areas of pipe are rusting or pitting uniformly
 - Localized “non-uniform” corrosion – pipe is rusting or pitting only in one or more specifically defined areas
 - Faded or thinning paint or coating
 - Flecking or small patches of paint or coating missing, or light rust bleed through
 - Paint or coating totally absent from entire section or large section of facility
 - Paint or coating totally absent from entire section or large section of facility and a percentage of pipe diameter of the original wall thickness has eroded
- c. Thoroughly clean pipe surface and prime, paint, or wrap all above ground piping accordingly.

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 atmospheric corrosion records. Any exterior corrosion shall be reported on the electronic Exposed Pipe Form.

Operations and Maintenance Procedures

SCUD Procedure # MAINT006	Page 2 of 2
O&M Section # 6.4	SCUD Task # 35
Section: Maintenance	Revision Date: 09/06/16

Visual Inspection for Atmospheric Corrosion

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>Unplanned Status Change</i> <ul style="list-style-type: none"> Stray current on a pipeline 	<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