

# 8-H Atmospheric Corrosion Control

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### **1.0 SCOPE**

This chapter covers the inspection and maintenance requirements for atmospheric corrosion control.

### **2.0 REGULATORY REFERENCES**

49 CFR Part 192 §§ [192.479](#), [192.481](#)

### **3.0 PROCEDURE**

#### [3.1 General \[192.479\].\[192.481\]](#)

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##### **3.1 General [[192.479](#)] [[192.481](#)]**

- (a) Each aboveground *pipeline* that is exposed to the atmosphere *must* be cleaned and coated, painted, or otherwise protected to prevent atmospheric corrosion.
- (b) Each aboveground pipeline (other than a service line) *shall* be inspected for atmospheric corrosion at least once every 3 calendar years, but with intervals not exceeding 39 months. Typically, aboveground pipelines are inspected for atmospheric corrosion during patrols and other routine inspections and maintenance.
- (c) Each aboveground meter set or service line set shall be inspected for atmospheric corrosion at least once every 5 calendar years, but with intervals not exceeding 63 months.

- (d) If atmospheric corrosion is found on an aboveground meter set or an above ground service line during the most recent inspection, then the next inspection of that pipeline or portion of pipeline must be within 3 calendar years, with an interval not exceeding 39 months.
- (e) During inspections particular attention must be given to pipe at soil-to-air interfaces, under disbonded coatings, at pipe supports, at wall or slab penetrations, and at spans over water.
- (f) If atmospheric corrosion is found, remedial measures shall be taken and completed within the allotted timeframe. Remedial action *should* be completed as required given the severity of the condition based on the grading system outlined below, unless the Director or their designee approves an extension.
- Grade A – No Corrosion (no surface rust or pitting - no remedial action required)
  - Grade B – No Corrosion (surface rust without pitting - no remedial action required)
  - Grade C – Corrosion Present (corrosion corrected at the time of *discovery*)
  - Grade D – Corrosion Present (corrosion with minor pitting - must correct within 3 years)
  - Grade F – Corrosion Present (corrosion with major pitting or cracked insulators - must correct within 6 months)
  - Grade G – No Corrosion, needs paint (paint is chipped, disbonded, or bare metal is showing – an order is not automatically created but should be corrected by the local office as scheduled)

**NOTE:** These grades are intended to be used during the annual atmospheric corrosion survey. While working orders outside of the annual survey and follow-up work is identified, request that a follow-up service work order be created for the location. Documentation of the atmospheric corrosion grade is not required for those types of orders.

### 3.2 Meter Sets

- (a) All new meter sets should be painted when installed. This even includes meter sets comprised of galvanized fittings because the pipe threads can be inadequately coated.
- (b) Existing meter sets should be routinely inspected for atmospheric corrosion. If a meter set has not been previously painted ANSI 49 gray or has signs of atmospheric corrosion, it should be painted.

## 4.0 TRAINING/QUALIFICATIONS

See the appropriate system Operator Qualification Program.

## 5.0 DOCUMENTATION/FORMS

System specific forms should be used where applicable.

### State Specific: South Carolina

- [CP Deficiency Report \(DESC Form OM-405\)](#) (PDF file) \*

\* C.P. exceptions are documented either in the Essentials system or by the paper CP Deficiency Report.

Atmospheric Corrosion control documentation shall be retained for 5 years. Documentation for services and meters shall include the two most recent Atmospheric Corrosion inspection.

#### **6.0 RELATED DOCUMENTS**

None at this time.

#### **7.0 APPENDICES**

None at this time.

(UNCONTROLLED IF PRINTED)