

8-J Corrosion Control Records

DESC O&M Manual - Version 2022.5 October 5, 2022

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1.0 SCOPE

The purpose of this chapter is to define a record keeping system(s) and to provide sufficient detail to administer, maintain, and monitor the Corrosion Control Program to demonstrate the adequacy of the cathodic protection systems or that a corrosive condition does not exist.

2.0 REGULATORY REFERENCES

49 CFR Part 192 § [192.491](#)

South Carolina Chapter 103, Article 4, [103.410](#), [103.411](#).

3.0 CORROSION CONTROL DOCUMENTATION REQUIREMENTS [[192.491](#)]

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Correctly completed corrosion control inspection, operations and maintenance records are essential to monitoring of DENC and DESC's corrosion control program. All new anodes, anode beds, test stations, bonds and rectifiers *shall* be entered in the GIS and in appropriate Cathodic Protection documentation database. Corrosion control documentation shall be maintained for the life of the *pipeline*.

3.1 General Documentation

State Specific: South Carolina

- (a) CP readings conducted in the field by field technicians are documented using the Click software system. Information from CP readings are stored in Essentials.
- (1) Any CP deficiencies found will be recorded on Click and then sent to Essentials. Essentials will then generate a CP Deficiency Report.
- (2) If Click is not accessible, any deficiencies found should be recorded on the [CP Deficiency Form](#) and given to the local CP Technician for remediation.
- (b) All new anodes, anode beds, test stations, and rectifiers shall be entered in GIS. When adding, replacing or repairing an anode bed or rectifier, CP technicians shall record these changes on the [Add/Modify Rectifier or Anode System Record Sheet](#).
- (c) When adding, repairing or replacing test stations on a Cathodic Protection System, CP technicians shall record this information on the [Add/Modify Test Station Record Sheet](#).
- (d) In the occurrence of a buried pipeline being exposed an [Exposed Pipeline Report](#) form shall be completed. Any unsatisfactory condition involving corrosion or cathodic protection deficiencies shall be noted and forwarded to the appropriate CP personnel for remediation.

For Each Occurrence	Type of Reading/Inspection	Documentation
CP installed on New main		Add/Modify Test Station Record Add/Modify Rectifier or Anode System AsBuilt Drawing
CP installed on existing protected coated pipelines	Monitoring points of the existing system will be read (Only when new test point is installed)	Add/Modify Test Station Record Add/Modify Rectifier or Anode System
CP remains on an existing system where some of that system has been retired		Will Retire CP when System is Retired.
"Hot-spot" (anode installed) on existing protected coated pipeline that is below protection	P/S reading at exposure point	Exposed Pipeline Report CP Deficiency Report
Inadequate 2nd P/S Reading		N/A
Discovery of unprotected pipeline	P/S reading at exposure point	CP Deficiency Form
Exposure of existing protected coated pipeline	P/S reading at exposure point if coating is removed; visual check of coating	Exposed Pipeline Report
Pipeline coating repair	P/S reading at exposure point	Exposed Pipeline Report
Meter installation, testing or removal (including periodic/sample testing) off a STEEL service	N/A	Service Order

periodic/sample testing) off a PLASTIC service		
Addition of a new test station on a protected line.	P/S reading at exposure point and follow-up P/S reading after backfill to confirm test station is still connected.	Add Modify Test Station

3.2 Rectifiers and Foreign Structure Bond Records

(a) Rectifier and Foreign Structure Bond locations shall be shown in GIS.

(b) As listed in [Table 8-E-2](#) Cathodic Protection Monitoring and Testing Schedule, rectifiers and bonds with foreign structures shall be inspected 6 times a calendar year at intervals not exceeding 2 1/2 months, unless the rectifier or bond has a remote monitor installed on it. Rectifiers and bonds with remote monitors shall be inspected annually with intervals not exceeding 15 months.

(c) In addition to routine monitoring, the following should be documented:

- Adjustments
- Unit maintenance
- Power outages/repairs
- Ground bed maintenance/addition
- Unit shut down for interruption, rehab or native surveys

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

- [Exposed Pipeline Examination Report \(DESC Form OM-402\)](#) (PDF file)
- [CP Deficiency Report \(DESC Form OM-405\)](#) (PDF file) *
- [Add/Modify Rectifier or Anode System Record \(DESC Form OM-501\)](#) (PDF file)
- [Add/Modify Test Station Record \(DESC Form OM-501\)](#) (PDF file)

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

Corrosion control documentation shall be maintained for the life of the pipeline.

6.0 RELATED DOCUMENTS

None at this time.

7.0 APPENDICES

None at this time.

(UNCONTROLLED IF PRINTED)