



west virginia department of environmental protection

Division of Water & Waste Management  
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Charleston, WV 25304

Gov. Earl Ray, Governor  
Cabinet Secretary  
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**POLICY**

**Effective Date: November 1, 2001**

**Revised: November 1, 2005**

**TEST REQUIREMENTS FOR GALVANIC SYSTEMS**

**I. Purpose:** To ensure that tests on galvanic systems are properly conducted according to the required protocols and that certified testing personnel are able to be held fully responsible for testing procedures.

**II. Policy:** The following protocol shall be followed and documentation provided:

**A. Certification:**

Test conducted by a West Virginia certified Class D or E tester.

**B. Testing procedures:**

- Take readings using a copper-copper sulfate reference cell in the following locations:
  - Both ends and the middle centerline of each tank and
  - Both ends of each piping run and/or the location on the pipe farthest from the anode.
- A Sti-P3® tank may have a monitoring wire (usually green in color) coming out of the ground with the test terminal mounted on the submersible pump riser, the automatic tank gauge riser, the fill pipe riser or located in a special cathodic protection test station. If no wire can be found you must make contact with the bottom of the tank through the fill pipe or access the tank shell through a manway at the bottom of a containment sump. Some drop tubes are equipped with tank bottom protectors that will prevent contact with the tank bottom. Good contact is indicated by a steady reading on the voltmeter. (Note: A Sti-P3® tank installed in 1993 or later may have a test station. The central terminal connects to a buried reference cell and the four terminals around the center connect to one or more tanks.)



**C. Frequency of Testing**

- Within 6 months of installation
- At least every 3 years after initial test
- Within 6 months following any repair to the system

**D. Required Documentation**

The test must be sufficiently documented so that any knowledgeable person can make the same measurements at the same places.

- Site sketch including:
  - All reference cell locations;
  - Distances from the tank to remote readings (Provide sufficient distances from landmarks to allow replication of the remote testing point);
  - All structure connections; and
  - Tank and piping locations.
- All volt meter readings
- Conclusions (i.e. protected, not protected, inconclusive)