

Corrosion Protection for an In-Service Diesel Storage Tank on Sand/Soil Foundation with CP System by Underside Injection

Project Specifics

Installation Dates
June 18-19, 2019

Environmental Conditions
Partly cloudy, humid, no rain.

Details
Vessel Diameters: 50 Feet
Storage Product: Diesel
Vessel Construction: In-Service, (8) Leak Detection Ports, (1) Cathodic Protection (CP) Port, Dike
Foundation Details: Sand/Soil Foundation ~6" Depth, Slight Saturation, No Liner or Ring Wall.

Inhibitor Delivery System (IDS)
Underside Injection IDS with ER Probe Monitoring

Zerust Product(s) Used
Zerion[®] FVS-B15
ER Probe Monitoring Kit

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Injection was completed using all eight of the available leak detection ports. Zerion FVS corrosion inhibitor were mixed with water for the injection process.

During the injection, a slight leak was observed coming from the gap in the cathodic protection piping conduit between ports 1 and 2.

Electrical Resistance (ER) probes were installed the day after inhibitor injection in four of the ports.

Port 1 (South), port 3 (East), port 5 (North), port 7 (West).

All probes are CT20, cylindrical, 10' cables, and were confirmed functioning as normal.

