

Corrosion Protection of Pipe Casings by Injection of Corrosion Inhibitor Slurry

Project Specifics

Installation Dates
April 22, 2016

Approximate Location
Wisconsin, USA

Vessel Construction
Pipe Casings

Zerust Product(s) Used
Zerion FVS
Zerion PGH-300 Gel
Zerion PGH-400 Gel

Project Overview

Our client wanted to fill half of the casing with the Zerust® Zerion® FVS Inhibitor and Gel Slurry® to protect the casing and the carrier pipe from corrosion and to fill any potential cracks and voids along the casing.

Goals and Objectives

- Determining the existing orientation of the vent pipes.
- Preparing the equipment and slurry for injection
- Injecting corrosion inhibitor slurry into the pipe casing

Procedures

Zerion FVS corrosion inhibitor was mixed into totes and the PGH-400 gel was added to the totes after the inhibitor had been mixed.

The PGH-300 gel was added into the hopper as the pump injected the slurry into the casing.

Once all the totes had been emptied, the contractor team cleaned up the location. Hoses were drained into the used totes, remaining materials were separated, and all garbage was collected.

The contractor finished their work by adding a pressure release valve to the bottom vent and an ER Probe and housing to the top vent.

Conclusions

The project was a complete success. The gel and inhibitor slurry was injected into the casing. No liquid escaped from the opposite end, and there were no spills or injuries.



Fully loaded stake bed.



New manifold.



Mixing gel.



Pumping inhibitor.



Pumping inhibitor.



Pumping inhibitor.



Pressure release valve (bottom vent).



ER probe and transmitter (top vent).