

Zerust® Corrosion Protection for Aboveground Storage Tank using Chime Ring Dry IDS

Zerust® OIL & GAS
WORLDWIDE CORROSION SOLUTIONS



CLIENT APPLICATION *Tank SSB Chime Ring Dry | August 2016*

Project Summary:

The tank has experienced severe corrosion around the tank chime. Some sections are approaching a degree of metal loss that would require the tank to be taken out of service to be rehabilitated.

Goals and Objectives:

- Installation of UT scan ports and coupon ports within specified locations around the tank chime
- Installation of the “Chime Ring Dry” IDS
- Sealing of the tank chime area
- Spreading of FVS corrosion inhibitor powder and installation of FVS corrosion inhibitor mesh sleeves within the installed “Chime Ring Dry” IDS

Product(s) Used:

- Zerion® FVS Dry Powder
- Zerust® Zerion® FVS corrosion inhibitor was to be placed around the tank chime using the “Chime Ring Dry” inhibitor delivery system (IDS).

Specifications:

- Vessel(s) Diameter: 240'

Outcome:

- The installation of a Zerust IDS solution was a success.
- As required by the customer, four coupons were placed around the tank chime within custom made coupon ports.
- It is recommended that after eight months, one of the coupons be pulled for analysis. With each additional four months, another coupon should be pulled for analysis, following the same protocols. The last coupon should be pulled after 20 months from the date of installation.

Benefits:

- Tank SSB IDS systems can be replenished while the tank is in operation.
- VCIs offer non-permanent corrosion protection at the molecular level that is safe and eco-friendly.
- Corrosion protection for voids and interstices that are impossible to protect with other methods.
- VCI dispersion ensures uniform distribution across the tank bottom.
- Maintenance time is significantly reduced.



Installation of UT Scan Ports and Coupon Ports



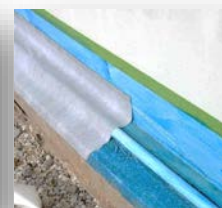
Installation of UT Scan Ports on Problematic Areas of Tank Chime



Preparation of the Tank Chime



Installation of the “Chime Ring Dry” IDS PVS Pipes



Application of Viscotaq EZ Wrap



Finished Installation of Zerust IDS with Inhibitor Sleeves