

ABOVEGROUND STORAGE TANK | Tank SSB IDS – ER Probe Installation | U.S.A. | JANUARY 2017



Site



Gravel Removal



Installed Pipe



Training



Assembly



ER Probe



Titan Liner Pad



Trenches



Ports



ER Probe

## Project Summary

- Provided a field trial encompassing training over Zerust corrosion inhibiting solutions, review of common installation procedures, and installation of ER probes for corrosion monitoring beneath tanks.
- These tanks are used to hold crude oil and produced water.
- In addition to providing training services during the time spent for the installation of ER probes, the NTIC Zerust team also used the time to discuss injection of corrosion inhibiting solution underneath a variety of tanks.

## Goals and Objectives

- Supervision and consultation during the installation of ER probes
- Collection of ER probe data for the analysis of base line corrosion
- Training for the SKW & PCS crews on installing ER probes and analyzing recorded data

## Specifications

- The tanks have 22-foot and 16-foot diameters and are constructed either on gravel or on Titan Liner pads.

## Outcome

- Prior to Zerust arrival, all probes and installation equipment was shipped and received at the pad center.
- Guidance from Zerust and services provided to the supporting team allowed this project to be completed on time.
- Data will continue to be collected from the installed ER probes.
- After the collection of one (1) months' worth of data, a base line corrosion rate will be established and used as a reference point before and after corrosion inhibitor injection.

## Benefits

- The team was trained how to take and analyze the data.
- All existing probes were checked for proper functionality, readings were recorded and the corrosion data log will be updated accordingly.
- Corrosion monitoring beneath tanks can minimize maintenance time by allowing ongoing monitoring.
- 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.