

CASE HISTORY

Refinery Equipment Preservation



PROBLEM

A leading refinery wanted to maintain the integrity of valuable assets and prevent deterioration due to corrosion while maintaining the operational readiness of equipment to facilitate quick turn-around once needed. The facility is located in a challenging environment: next to the ocean, experiencing temperatures up to 50°C, high airborne chlorides, and up to 100% humidity. The large volume of assets meant warehouse inventory was not possible, existing outdoor racking was the only option.

APPLICATION

The Cortec “Clean, Preserve & Protect” programme that is widely followed by Oil & Gas Operators in the Middle East was proposed; consisting of a Turn-key solution including supply of all products and service application. Preservation procedures were developed for long term preservation of equipment to be stored for commissioning or re-commissioning up to five years in to the future. Three stages of the process were identified and implemented by a skilled team of service applicators:

1. Rust Removal Station – Immerse assets in epoxy coated bath filled with VpCI-422
2. Power Wash Station – Power wash and neutralise surfaces of assets with 10% VpCI-414
3. Preservation Station – Application of rust preventatives, emitters and wrapping of equipment

Scope of project included:

- Flanges
- Elbows
- Valves
- Heat Exchanger tube bundles
- Trays
- Nuts and Bolts

DATE

2015

DISTRIBUTOR

Texel Energy Services

CUSTOMER

Leading Refinery

LOCATION

Middle East

PRODUCTS

VpCI®-422
VpCI®-414
VpCI®-368
VpCI®-337
MilCorr® VpCI® Shrink Film
EcoPouch®

PRESENTED BY:

CORTEC
MIDDLE EAST

Environmentally Safe VpCI®/MCI® Technologies

www.cortec-me.com

CONCLUSION

The customer was satisfied the equipment was adequately and economically preserved to maintain its technical integrity for the storage period and to make resuming production as straightforward as possible. The rust removal process was cost effective, simple to implement, and the customer is currently considering Cortec's Clean, Preserve, Protect system for a wide scale implementation.



Before and After Photos



Before and After Photos



Before and After Photos



Outdoor Storage Facility