

CORTEC CORPORATION

Refinery Preservation



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Preservation Report

November 30 – December 1, 2009

Background:

Refinery is a global leader in the discovery and development of valuable energy resource, which focuses on delivering value, providing high-quality products to the marketplace.

Application:

Refinery requires a two year preservation of its Crude Fractionator. The fractionator consisted of two units, the first unit was 10.5' in diameter by approximately 100' in length; the second portion of the of the fractionator was 10.5' in diameter by approximately 50' in length.

Cortec Preservation Procedure:

Fractionator I (10.5' diameter x 100' length)

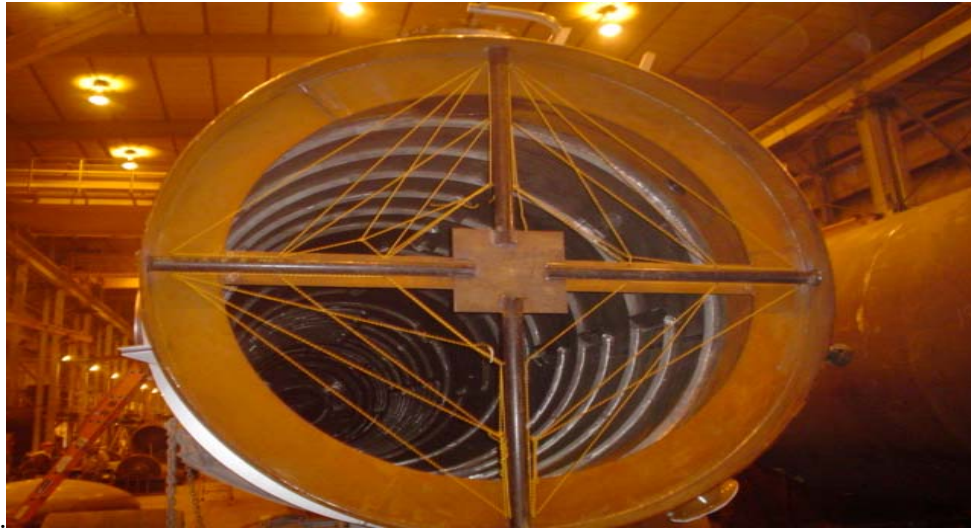
To reach the desired level of protection, Cortec provided the following preservation methods.

- All nozzles were covered utilizing MilCorr VpCI bonnets and shrunk to a taut fit.



- The Open end of fractionator was covered utilizing MilCorr VpCI shrink film. Prior to covering a skeleton utilizing nylon rope was constructed on the inside diameter of the vessel to help

reduce the potential of the MilCorr collapsing into the vessel during



transport.

- Skeleton on inside diameter



- MilCorr VpCI Shrink film shrunk to a taut fit.
- The Vessel was fogged with VpCI-337 at a rate of 1oz/ft³. A total of 110 gallons was fogged into vessel.

Fractionator II (10.5 diameter x 50' length)

Preservation took place on December 1, 2009.

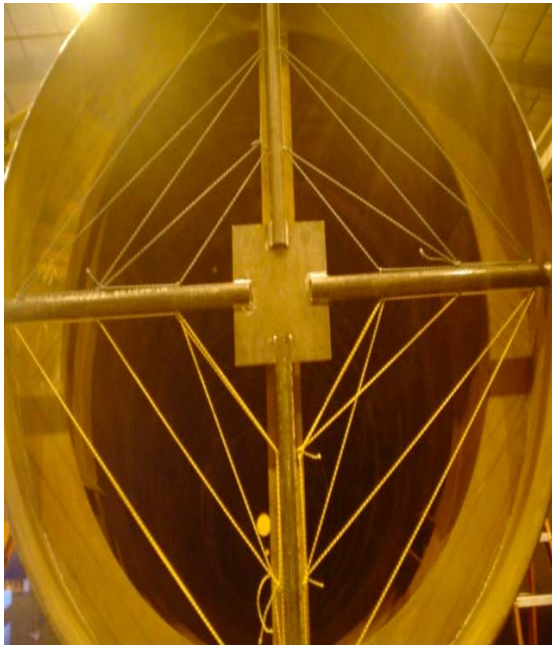
To reach the desired level of protection, Cortec performed the following preservation methods.

- All nozzles were covered utilizing MilCorr VpCI



bonnets

- The Open end of the fractionator was covered utilizing MilCorr VpCI shrink film. Prior to covering a skeleton utilizing nylon rope was constructed on the inside diameter of the vessel to help reduce the potential of the MilCorr collapsing into the vessel during transport.



- The Vessel was fogged with VpCI-337 at a dosage rate of 1oz/ft³. A total of 35 gallons was fogged into

vessel.



Preservation Outcome:

The preservation of both halves of the fractionator is complete. The Crude Unit side stripper preserved on October 20, 2009 was inspected and showed no signs of corrosion. The unit was recharged with VpCI-337 at 1oz/ft³ and new MilCorr VpCI bonnets were placed on the open nozzles.

