

CORR11010A REDUCES OVERALL COSTS AND ENHANCES SAFETY, SUSTAINING SPECIFIED TEMPERATURES

And Maintaining Production Levels By Restoring Function In Heatric Gas Coolers



SITUATION

A major producer in the Gulf of Mexico was experiencing issues with the operation, effectiveness and maintenance of the heatric gas coolers located on the discharge of each compressor.

CHALLENGE

When the reduced cooling differential was observed, solids were plugging the pass-through of the gas in the heatric unit. This issue is particularly problematic as it requires the heatric unit to be removed and sent to shore for cleaning, causing safety concerns from removal operation, operational downtime and increased costs for maintenance and transportation. The producer was looking for a long-term solution to reduce the necessary frequency of treatment and avoid the deferred production that was a result of the cleanings.

INSIGHT

To reduce the fouling in the heatric coolers, Nalco Champion recommended CORR11010A. CORR11010A is a gas antifoulant designed specifically for high-pressure, high-temperature gas systems, forming a microns-thick passivating film on pipe and equipment walls. This provides

a barrier to the deposition of solids, while providing corrosion protection.

SOLUTION

CORR11010A was continuously injected into the inlet of the first stage suction scrubbers of each flash gas compressor. This allowed CORR11010A to readily disperse into the gas phase, carrying it through each stage of compression and cooling. Dosage began at one pint per mmscf of gas allocated to each compressor. During application, Nalco Champion monitored the program for maintenance frequencies, CORR11010A residuals and heatric cooler performance. Based on monitoring results, the dosage and injection points were reevaluated to optimize the application.

RESULTS

Six months following application, temperatures had decreased by an average of 30 to 40 degrees on cooler outlets. Coolers that had previously required cleaning every two to three months no longer required cleaning. CORR11010A effectively treated deposition and avoided corrosion to meet the customer's needs.

This application is projected to save the producer \$212,000 annually based on the following:

- Annual cost of 10 cleanings (the requirement the previous year)
- Boat transportation of the unit for all cleanings
- Deferred production during unit removal and cleanings

SUMMARY

The efficacy and low application cost of CORR11010A will benefit this producer by cost avoidance, maintenance of production levels, sustaining specified temperatures for a sales gas pipeline and reducing exposure to safety risks.

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The safety of our associates, customers and communities is vitally important. From the way we operate, to the products we develop, to how we partner with customers, our goal is zero: zero accidents, zero incidents and zero environmental releases.

At Nalco Champion, safety is more than a metric, it's a mindset. It's how we conduct ourselves, every day, everywhere it matters.

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