

ARAMCO ENHANCES OPERATIONS WITH CUI MONITORING AT ITS DOWNSTREAM FRACTIONATION FACILITY

SUMMARY

Aramco, one of the world's largest oil & gas companies, is further advancing its efforts to enhance operations, by installing a second consignment of CorrosionRADAR's predictive monitoring systems at its downstream fractionation facilities.

The large-scale deployment has seen systems installed across a network of Columns, Refrigeration Unit and Pipelines within the plant to:

- Reduce risk of CUI
- Fix insulation and vapour barrier defects on assets early
- Enable future inspections to be more targeted and optimised.

CHALLENGE

Aramco sought guidance on the optimal placement of CUI monitoring systems at its downstream fractionation facility to enhance asset integrity. During a planned turnaround and inspection (T&I), an assessment was conducted to inform a targeted deployment strategy.

Working closely with Aramco's inspection team, a tailored plan was developed to ensure effective system layout and rapid implementation, aligning with operational goals and maximising monitoring efficiency.



Installation of CorrosionRADAR: LR at Downstream Facility

IMPLEMENTATION

- Scaffolding was used to remove existing insulation from assets
- Sensors were deployed in a helical formation, ensuring assets were completely covered and allowing for a more accurate prediction of the presence of localised corrosion and moisture
- New insulation was installed after corrosion and moisture sensors were deployed
- Sensors connected to on-prem server using LoRa connectivity, giving access to enhanced data analytics via CorrosionRADAR's Clarity software

RESULTS

- A well-executed system deployment that aligns with Aramco's scheduled T&I timelines
- Selected assets are continuously monitored for the presence of corrosion and moisture
- Analytics software collects data and measures corrosivity rates, allowing Aramco to anticipate issues before they escalate and make informed decisions about when and where to conduct repairs.
- Future inspections at the site are data-driven, targeted and optimised

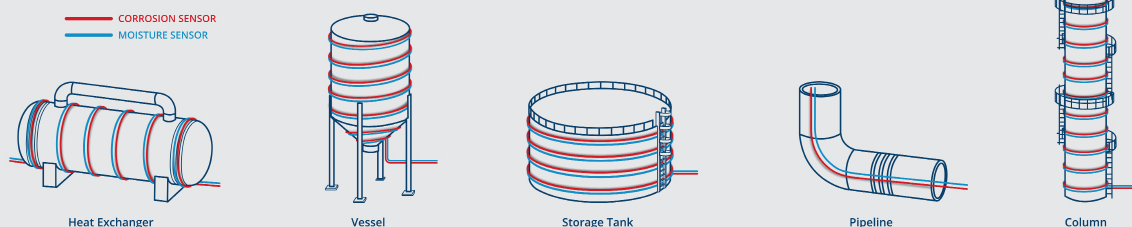


Key Benefits of CorrosionRADAR: LR

- Reduce maintenance costs - by up to 65%.
- Insulation QA / QC
- Remotely monitor CUI risk
- Extend asset life
- Improve operational safety



ASSET AND SENSOR TYPES



Our Customers

