

Product Losses Elimination & Hydrocarbon Recovery

We believe that every plant, unit and process can perform more efficiently. Nexo Solutions provides a wide range of industries with integrated capabilities including independent and unbiased technical services, specialized consulting, analytical services, and testing. These integrated capabilities combine to offer comprehensive solutions for a wide range of process efficiency issues, contamination related process upsets, including product and hydrocarbon loss elimination. Our technical services include:



- On-Site Evaluation & Testing
- Contamination Sampling
- Upstream Process Evaluations
- Root-Cause Analysis
- Separation Process Designs
- Laboratory Analysis & Data Interpretation

Case Study

A sour water stripper at a refinery was experiencing issues with considerable (1-2%) hydrocarbon contamination. was being sent to flare resulting in USD 3-5 MM in product losses per year, in addition to increased emissions. In order to resolve the issue, Nexo Solutions conducted a root-cause technical evaluation.



effluent was found to contain high suspended solids and cracked naphtha and was identified as the main contributor to issues at the sour water stripper.

Solution

Nexo Solutions designed and implemented a customized hydrocarbon recovery technology at the FCC overhead accumulator. This technology eliminated hydrocarbon contamination in the accumulator effluent and hence the feed to the sour water stripper. Emissions at the flare were also greatly reduced. Finally, the recovered hydrocarbon improved profitability at the plant by an estimated USD 4-5 MM per year.

Problem

The evaluation revealed significant phase separation inefficiencies in the FCC overhead accumulator related to instrumentation and interface control. The resulting

For additional information, please contact us at Support@NexoSolutions.com