This abstract will be presented during LNG2023 conference on 10-13 July in Vancouver, Canada among many other innovative projects, ideas and outlooks. LNG2023 will provide a unique platform for the global LNG industry and key stakeholders to discuss, debate, and showcase the latest industry developments and opportunities.



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OFF-GAS COMPRESSORS OPERATION & DESIGN CONSIDERATION, ROTOR IMPELLER FAILURE CASE STUDY

Off-Gas Compressors operation & design consideration, Rotor impeller failure case study Off-gas Compressors receives hydrocarbon gases recovered at the pre-flash drum and the condensate stripper where it's compressed to a sufficiently high-pressure level to allow it to be mixed with the main sour gas feed stream received from the slug catchers. There is a lot of challenges to design the system, full process loop, compressor internal parts to eliminate:

1- Effect of corrosion and metal loss

2- H2S content

3- Heavy deposit and solid particles formation

4- Liquid carry over

5- Compressor vibration

With all this challenges, it is critical application which needs full attention, and design considerations, to have full protection and stable operation.

Compressor rotor impeller failure case occurred, it is good to share the case findings, recommendations and way forward.

To view the full conference agenda, visit <u>https://www.lng2023.org/lng-programme-overview</u>