

OPTIMIZATION OF CRA IMPELLERS HANDLING CHLORIDES AS CONTAMINANTS -A CASE STUDY

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ABSTRACT

Centrifugal compressors are widely used in gas lift and gas gathering and transportation services. The gas from well generally have some contaminants like H₂S, CO₂ and chlorine which are detrimental to structural integrity of impellers caused by Stress induced corrosive cracking (SCC). To mitigate such issues CRA (Corrosion resistant alloys) are used based on operating environment and corrosion agents. A well deliberated study can not only control the phenomena but also avoids using more expensive alloys than required. This paper discusses various aspects of diligent selection of CRA impellers of Centrifugal Compressors handling Chlorides as contaminants through a case study.

KEYWORDS: Optimization of CRA Impellers Handling Chlorides as Contaminants