

POWDERSOLV™ PROVIDES ONLINE ELIMINATION OF IRON SULFIDE DEPOSITS AND REDUCTION IN ENERGY AND MAINTENANCE COSTS

PROBLEM

A large gas gathering company plant had ongoing problems with their final product stabilizers. Solids buildup on the heating tubes made it difficult to maintain the desired heat range for optimum polishing of the condensate. Stabilizers were being taken out of service every 6 months for manual cleaning which was time consuming and expensive. Condensate going to the finished condensate tank was contaminated with solids and the drain/blowdown lines had been plugged off for more than two years.



ANALYSIS

- Blackish colored liquids entering the stabilizers consisted mainly of condensate with some associated water
 - Solids removed from the tubes indicated high amounts of iron sulfide along with other inorganic iron compounds as the major components of the debris
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POWDERSOLV® SOLUTION

- A customized *POWDERSOLV™* blend was developed to remove the iron deposits while allowing the vessels to remain online
 - A continuous injection application of *POWDERSOLV™* was implemented upstream of the stabilizers
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RESULTS

- Within 2 weeks drain lines and blowdown lines were unplugged and debris free
- Higher temperature range easily maintained
- Condensate leaving stabilizers debris free, clear and clean
- Lower energy used to maintain heat on stabilizers
- Lower maintenance cost due to clean fire tubes
- Eliminated environmental concerns related to disposal of waste from manual cleaning