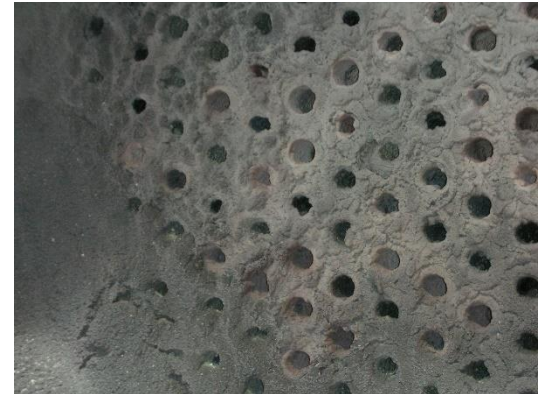


## On-site Ammonia Destruction Testing

Ammonia salt contamination can decrease capacity and performance, and plugging off of the sample line and lens of the Tail Gas Analyzer can result in incorrect reporting and feedback data to the combustion air system, further compounding the problem.

Left unchecked, ammonia salt contamination can lead to costly unplanned shutdowns and repairs due to plugging.

Sulfur Recovery Engineering (SRE) is the only testing and consulting firm in the industry to offer **on-site** analysis of both **bulk and trace Ammonia** in Refinery process streams.



*Ammonia Salts in SRU Waste Heat Boiler*

Removing the need to send samples off-site to a lab provides the ability to verify recommended process changes immediately after implementation, without having to wonder if the changes are working. This saves both time and money, and gives peace of mind that the recommended solution is working without having to wait up to two months for off-site lab results.

Gas chromatography and specialized wet chemistry methods will be employed to ensure that a complete analysis is produced.

Two separate proprietary methodologies are employed to ascertain both bulk (1 to 100 percent) and trace (1 ppm to 10,000 ppm) ammonia levels.

Benefits include immediate on-site verification of recommendations to improve Ammonia destruction efficiency in the reaction furnace, reduction or elimination of Ammonia salts plugging of condenser tubes, plugging of analyzer sample lines, and coating of the Tail Gas Analyzer cell lens.