

# Offline Cleaning Solution Enhances Petrochemical Heater Efficiency Despite Complex Configuration

A Texas-based international petrochemical company needed a more efficient way to clean its heater during a planned turnaround. The deposits that accumulate naturally during the cracking process reduce efficiency and pose environmental and safety concerns even in small amounts. Neutrol® delivered fast, reliable results despite the operation's complex heater configuration.

## The Challenge

The unique configuration of the client's heater required a cleaning process that competitors could not perform. Traditional cleaning methods, such as dry ice and water pressure, presented the risks of refractory damage and inefficiency.



## The Solution

CTP Environment proposed an offline Neutrol® package that would clean the client's heater offline during its planned shutdown without causing refractory damage. Two crews worked in parallel to ensure optimal results in just four days.

CTP begins by protecting the refractory area with high-quality seals that stand up to the requirements of our thorough process. These seals eliminate refractory and heater damages caused by humidity and enable us to fully recover the effluent produced throughout the cleaning process. The process itself leverages a double-action method that combines a chemical reaction with high-pressure spraying to effectively remove deposits and restore efficiency.

## The Results

Unlike other cleaning methods on the market today, Neutrol®'s film-forming agent reaches both the front and back of the tube. The result is maximum cleaning efficiency and a return to Start of Run condition.

Despite the complexity posed by the client's unique heater configuration, CTP executed the project flawlessly — ensuring safety and cleanliness every step of the way. After

our cleaning process, the client noted a marked improvement and signed onto a long-term cleaning agreement that has kept its petrochemical heater operating efficiently since 2017.

Explore how [Neutrol®](#) can optimize your heater cleaning process during a planned shutdown.