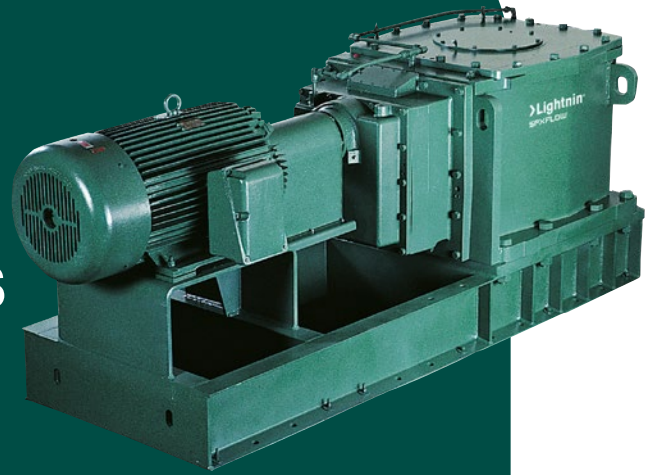


# ENHANCING RELIABILITY IN REFINERY OPERATIONS



Lightnin played a pivotal role in a major USA refinery's efforts to maintain and upgrade crucial mechanical seals for industrial agitators before a scheduled plant shutdown.

## Challenge

The refinery utilized Lightnin agitators in its alkylation reactors, critical components in the octane enhancement process for fuels and jet fuels. Recognizing the need to enhance reliability, discussions with the customer identified necessary mechanical seal design upgrades. The primary challenge was to complete these upgrades and repairs within the timeframe of the scheduled shutdown.

## Solution

To meet the challenge head-on, a dedicated cross-functional team comprising engineering, manufacturing, project management, and sourcing collaborated closely with the customer. This team ensured not only that the stringent quality standards for the application were met but also that the seal assemblies underwent repair, upgrades, bench testing, final inspection, and timely delivery to the refinery site.

## Result

The collaborative efforts yielded significant results as the upgraded seal assemblies were successfully installed, tested, and operational according to the planned shutdown timeline. This achievement underscored Lightnin's unwavering commitment to customer satisfaction and highlighted the effectiveness of teamwork in overcoming challenges and delivering superior solutions.

By prioritizing customer needs and leveraging collective expertise, Lightnin demonstrated its capability to enhance operational reliability and ensure smooth refinery operations, reinforcing its position as a trusted partner in industrial mixing solutions.



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