

QuikTurn®

Strategic Chemistry®

SULFOLANE AROMATICS UNIT TURNAROUND

THE CHALLENGE

A major Gulf Coast Refinery recently chose the patented QuikTurn/Vaporganic® cleaning process for their Sulfolane Aromatics Unit T/A. The equipment scope included:

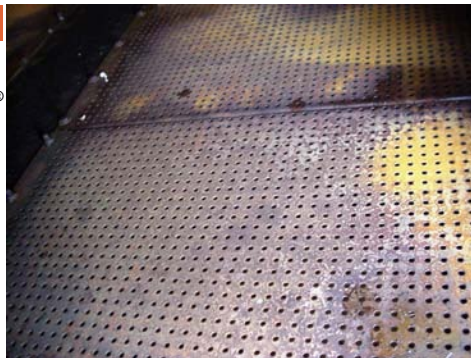
- Extractor Column – 8 ft x 100 ft
- Recovery Column
- Stripper Column
- Stripper Overhead Receiver
- Reboilers (3)
- Heat Exchangers (3)
- Associated Process Piping

Historically, this unit has been cleaned using an acid-wash, circulation method. Even after the acid-wash, it took an additional 8 days of manually cleaning to completely decontaminate the towers. This method of cleaning often damaged the internal metallurgy of the columns and wastewater resulting from the acid-wash was abundant and disposal costs were high.

For this project Refined Technologies' Operations Managers were able to design a detailed cleaning strategy that allowed for cleaning all of the equipment simultaneously as a circuit. The final cleaning plan was married with the unit's clearing procedures which produced a seamless transition from unit shutdown to decontamination.

Such an approach also maximizes efficient use of utilities such as steam, vents and the unit slop system.

Refined Technologies Operations Managers provided 24/hr support until the application was complete. The entire process was finished in less than 15 hours.



Extractor column sieve tray

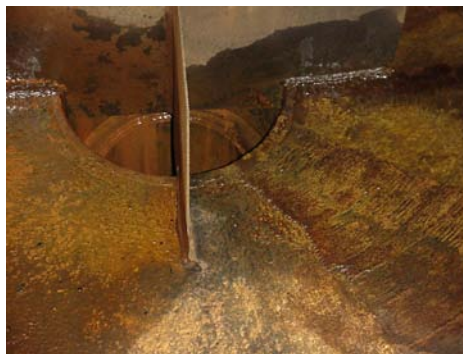


Recovery column feed line

QuikTurn and the Vaporganic process made it possible for this refinery to clean their process equipment in record time allowing maintenance and inspection work to proceed immediately in a safe, oil and gas free environment. As a result, the turnaround progressed rapidly and ahead of schedule.

THE RESULTS

These photos were taken just as entry was gained after the QuikTurn application. Moisture from the cascade water rinse is still evident in the photos.



Stripper column drain

THE QUIKTURN ADVANTAGE

The advantages are clear...QuikTurn and the Vaporganic process can effectively clean a multitude of towers and equipment simultaneously. Achieving bare-metal clean results allows for immediate entry and inspection / maintenance to proceed without delay. The photos speak for themselves. QuikTurn saves valuable time and money during a turnaround. The level of cleanliness achieved from QuikTurn continues to be unprecedented.

QuikTurn is redefining "Clean".

Please let us know how we can help you gain a competitive advantage in the industry. To learn more about this revolutionary new process please contact Refined Technologies.



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