



InFocus™ Unit Monitoring Tool can be used to avoid costly plant slowdowns

Energy lives here™

Challenge

Avoiding slowdowns by detecting process issues early

A cumene customer with an ExxonMobil alkylation/transalkylation catalyst system has been on-stream for over 5 years producing cumene product at high purity and yield. Unit monitoring analysis was provided on a quarterly basis. Shortly after one of the monitoring reviews, the benzene feedstock quality was compromised. The poisons in the benzene feedstock were undetected and caused significant deactivation of the alkylation beds. This rapid decline in activity was not detected by the customer. ExxonMobil Technical Support identified the issue when data was provided for a unit monitoring review. Unfortunately, nearly 3 months of deactivation had occurred because of the benzene feedstock quality upset.

Solution

Implement InFocus™ Unit Monitoring Tool

The InFocus Unit Monitoring Tool would have enabled early detection of catalyst deactivation and subsequent troubleshooting at the start of the incident. Early intervention could have avoided a catalyst outage and avoided feedstock quality being compromised. The unit would not have reduced rates nor increased severity for an extended period of time.

The InFocus Unit Monitoring Tool enables timely technical insights to improve process performance. Drawing on ExxonMobil's breadth of technical and operational experience, the InFocus Unit Monitoring Tool provides users with:

- Easier access to ExxonMobil expertise
- Early identification of potential concerns
- More meaningful analysis

Potential savings:

up to \$15,000 per day for a 200+ kta cumene unit

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