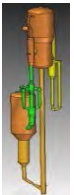


FCC Revamp Discussion



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Coking and CatCracking Conference
New Delhi, India – October 2013



FCC Revamp Discussion

- Discussion of two previous presentations
 - ***“Innovative Technology Drives Greater Flexibility for FCC Revamps”***; UOP
 - ***“FCC Revamp Solutions”***; Technip Stone & Webster Process Technology
- Other Issues ?



FCC Revamp Discussion

- Why Revamps? Reasons
 - Routine Maintenance
 - Capacity Changes
 - Product Changes/Specifications
 - Feedstocks Changes
 - Environmental
- Other Issues ?



FCC Revamp Discussion

Case

- Unblocking 1 set of Reg Cyclones from previous TA, revamping Reactor Stripper
- After Startup catalyst losses both sides.

1st Question ?



FCC Revamp Discussion

Case : Unblocking 1 set of Reg Cyclones from previous TA, revamping Reactor Stripper

1st Question ?

- Why the changes? Reasons?
 - Central Engineering
 - No major operating changes
 - Same air rate, conversion, capacity, coke burning rate
- Don't Fix What's Not Broken