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Fired Heaters

UNIFORM HEAT FLUX FIREBOX

More burners keep flames low in the firebox and spread the flames laterally




FLUOR

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Fired Heaters

RADIANT TUBE SUPPORTS OPTIONS

- > Top supported
 - Tubes will loose contact to support as the support grows downward
- > Bottom supported
 - Tubes maintain contact to support as support expands upward
- > Replaceable with tube removal less costly upfront but requires cutting tubes
- > Replaceable WITHOUT tube removal more costly upfront but prevents cutting tubes



FLUOR

FOSTER WHEELER
Fired Heaters

MODULARIZATION

- > Extent of Shop Fabrication is One of the Most Important Price Differentiators
- > Maximum Modularization has Numerous Connotations
- > Full Understanding of the Degree of Pre-Fabrication is Crucial for a Proper Evaluation and Understanding of TIC
- > Typically Field Work is a Multiple (X times) of the Equivalent Work Performed in a Shop


FLUOR

Promotional Package:
2 slides per page in full color

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2011 CatCracking Papers

Shaw Energy & Chemicals

*Harvey McQuiston
or Chris Santor*

Successful Six-Year Run

- An FCC unit recently completed a run of over six years, after which only nominal maintenance was required in a scheduled turnaround. This paper discusses the process, mechanical, and operational changes that made such a successful six-year run possible.

INTERCAT Inc.

*Ray Fletcher
or Martin Evans*

Catalyst Additives increase Resid Process

- New technology, Cat-Aid, both passivates vanadium and absorbs nitrogen. This paper describes several applications of this technology and shows how the use of Cat-Aid allows refiners to increase amount of residue feed that they can process on their unit.

Tracerco

Dave Ferguson

Increasing FCC Unit Efficiency

- In this presentation, case studies of FCCU investigations using radioisotope technology tools demonstrate how a better understanding of the equipment and its operation provided guidance to make corrections that reduced losses and improved performance.

Structural Preservation

Johnny Hill

Hexavalent Chromium Issues During Turnaround

- What Hexavalent Chromium (CrVI) is, what the areas of concern are for excessive accumulations, as well as ways to mitigate the exposure with ventilation plans and respiratory protection – ultimately reviewing its pros and cons.

FCCU Work Groups

Effective Turnarounds

CatCracker shutdown planning & budgeting; managing scope and duration.
Introductory remarks by Whitney Strickland of AltairStrickland
Facilitators:

Refractory reliability

Refractory reliability & hot spot monitoring/management/mitigation

Process excursion/event on mechanical integrity/reliability

Mechanical equipment deterioration

Mechanical equipment deterioration with catalyst loss & high velocity operations

Mitigating emissions during unit startups

Low SOx Emissions

Using Additives to Achieve low SOx Emissions in FCC Operations

Longer cycle time / Turnaround interval optimization

Toolbox for entry-level FCC engineering staff

Toolbox for entry-level FCC mechanical staff

Toolbox for operators

Including challenges operators face

Cyclone technology to improve reliability

Developments in Cyclone Technology improve FCC unit reliability, reduce problems of abrasion that cause unscheduled unit shutdowns.

"The seminar was excellent. The breakout sessions and hall meetings were extremely useful. The [shop] tour was great." -Marsulex (Calgary 2007)

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Coking.com DeltaValve

Presentation:

Isolation Valves

-Gate valves rather than traditional ball valves with no steam consumption.

<http://www.coking.com/SeminarCanada/Presentations.asp>



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Coking.com Aspen Aerogels Presentation:

Flexible, durable insulation for the Coker Complex

-Insulation products that meet the most demanding requirements and span the entire service temperature range from -460°F (-270°C) to 1200°F (650°C).

<http://www.coking.com/SeminarCanada/Presentations.asp>



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Coking.com Z&J Technologies GmbH

Presentation:

Unheading Technology to Enhance Safety and Productivity

-Z&J's latest unheading technology & cost benefits-many originating from 'continued improvement' suggestions from the field: safety, environmental designs; improving operator effectiveness; customized actuator options to optimize...

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Coking.com AltairStrickland

Presentation:

Coke Drum Weld Repairs

-AltairStrickland is a general mechanical contractor that specializes in planning, managing, executing difficult coker revamp projects such as drum replacements. Two interesting studies will be reviewed including a new cone section with dissimilar metals.

<http://www...>

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Coking.com Marsulex

Presentation:

Coke & Sulphur Handling Maintenance Model

-Marsulex has designed total cost of maintenance model that delivers deeper understanding of petcoke solids handling systems and their operating and maintenance requirements. Model outputs include optimal PM program with review of costs of sub-optimal op...

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