

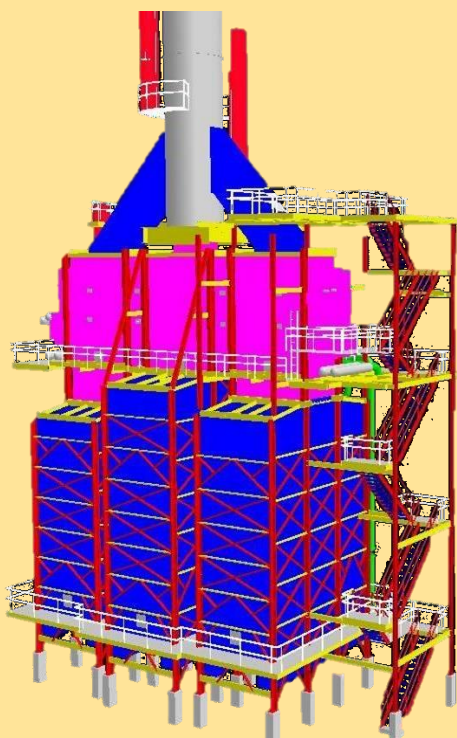
CONVECTION SECTION REPLACEMENT PROJECTS BY FIS



- Client: Country Mark
- Location: Mt. Vernon, IN
- Revamp Duty: 22.5 MMBtu/hr
- Increase Capacity from 10,500 BPD to 14,300 BPD
- Overall Efficiency: 79%
- Commissioned in October 2014
- FIS Scope: Design, Engineering, Fabrication and Erection of new longer Radiant Coil, Radiant Shell Extension, Floor, Burner, New Convection Section & Stack
- Patented Technology: Inclined Firing System



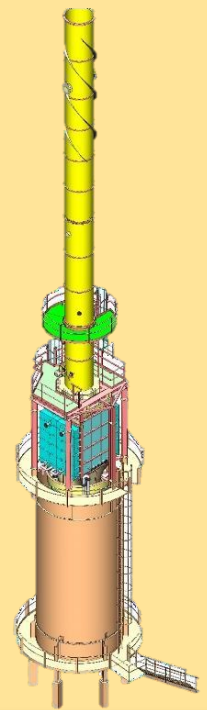
DHT Charge Heater (210-H-100)
Capacity Improvement



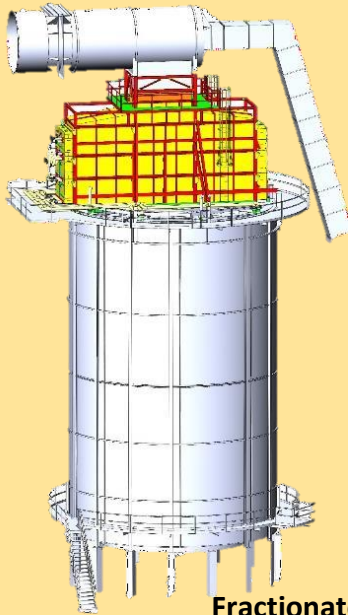
Platformer Heater (H-70-01/02/03)
Capacity Improvement

- Client: Valero
- Location: Wilmington, CA
- Revamp Duty: 161 MMBtu/hr
- Increase Capacity from 15,000 BPD to 18,900 BPD
- Overall Efficiency Increase by 9%
- Commissioned in February 2008
- FIS Scope: Design, Engineering, Fabrication, Supply of Convection Section and Erection and Commissioning assistance
- Patented Technology: Split Flow

- Client: Phillips 66
- Location: Roxana, IL
- Revamp Duty: 38.13 MMBtu/hr
- Overall Efficiency Increase from 75% to 82.4%
- Commissioned in July 2014
- FIS Scope: Design, Engineering, Fabrication & Supply of new convection section



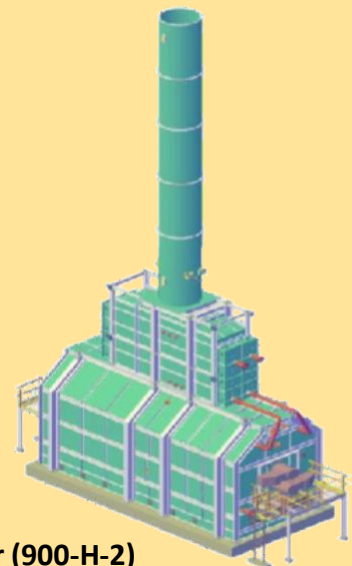
DHT Charge Heater (F-1)
Efficiency Improvement



Fractionator Reboiler Heater (H-3)
Supply of New Convection

- Client: Phillips 66
- Location: Roxana, IL
- Revamp Duty: 86 MMBtu/hr
- Commissioned in March 2016
- FIS Scope: Design, Engineering, Fabrication & Supply of New Radiant Coils, and New Convection Section.

- Client: Country Mark
- Location: Mt. Vernon, IN
- Revamp Duty: 20 MMBtu/hr
- Increase capacity by 5 MMBtu/hr
- Commissioned in Nov 2009
- FIS Scope: Design, Engineering & Supply of Convection Section, Radiant Coil, Burners & Site Erection



Naptha Splitter Reboiler (900-H-2)
Capacity Improvement

Furnace Improvements Services



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