Client / End User : Hellenic Petroleum S.A._ Aspropyrgos Refinery (Greece)
Year : 2012

Work Description :

Project awarded to EKME in association with VITCOM Engineering (UK). Scope includes the complete design, fabrication and erection and delivery ready for operation of one new double shell and convection Crude Oil Heater 3H01AB and the revamping of one existing Hot Oil Heater H101.

In detail, the scope of work is:

- Basic and Detail Engineering (Process, Thermal, Mechanical, Electrical, Instrumentation, Civil) including 3D Model representation.
- Material Procurement
- Equipment Procurement (Instruments, Fans, Air Pre-heater, Burners, Dampers, Electrical)
- Prefabrication at EKME’s Thessaloniki and Kavala shops.
- Dismantling of the existing Heater.
- Civil works of new foundations.
- Modularization of Radiant Shells and Convection section in adjacent assembly area.
- Transportation of Modules and prefabricated parts
- Erection of Modules and parts, auxiliary equipment, piping, electrical and instrumentation, platforms and ladders.
- Refractory application and Dry Out
- Steam Tracing and insulation works
- Revamping of existing Heater H101
- Start Up and assistance in pre-commissioning.
- Inspection and Certification to CE and ATEX.

The main characteristics of the Heater are:

- Type: Double Shell with Convection
- Service: Crude Distillation
- Total Duty: 74,231 MW
- Type of fuel: LBG, HBG
- Number of burners: 8 per shell
- Number of passes: 8
- Tubes size and material: 6" sch 40, SA 335 P5
- Air Preheater System Description: Direct
- Number of FD fans: Two
- Number of ID fans: One
- Main Heater’s Dimensions: 14m x 12,25m x 54m
Fired Heater Supply & Fired Heater Revamp
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Fired Heater Supply & Fired Heater Revamp
FIRED HEATER SUPPLY & FIRED HEATER REVAMP