

PREFABRICATION & INSTALLATION OF NEW AIR PREHEATING SYSTEM FOR CRUDE OIL HEATER F-101

Client/End User : Vergaengineering srl (Italy) /
Hellenic Petroleum s.a. _ Thessaloniki Refinery (Greece)
Year : 2007

Work Description :

Supply of all materials in quality S275 & S304 for ducts and supports (plates, beams, etc) and bolts for on-site assembly including 10% spare. Supply of WPS, PQR, WPQ and process specifications for non-destructive examinations. Prefabrication and assembly at shop of all details both in carbon steel and stainless steel from plates, tubes or beams as indicated in relevant drawings. Pre-assembly of APH system (including ducts, platform with handrails and relevant structures) at shop (all main dimension will be checked), to avoid modifications during the erection stage at site.

Supply, fabrication and welding of all instrument connections. Welding of all type of anchors for castable refractory (anchors supplied by Vergaengineering). Supply of trunnions, tailing lugs, all necessary lifting lugs, etc, as required, and N.D.T. for these supplies. Dye penetrant tests.

Refractory lining execution including handing of pieces to be lined, water, electric power, messing facilities for the lining contractor, including assistance to the lining contractor to check the steelwork before lining installation. Execution of all intermediate and final tests. Marking of all supplied components for easy identification during the erection at site. Sandblasting, primer and final paint execution of all exposed surfaces including supply of paint material. Touch-up painting before delivery and final touch-up paint at site. Packing of all components suitable for transport and delivery to site, including proper stiffening and bracing to allow a safe transport till job site. Delivery of materials D.D.P. Thessaloniki Refinery. Total weight : 122 tns

Steel structures and ducts erection for the air pre-heater for the furnace F-101. Prefabrication and erection for the burners piping with materials supplied by VERGA. Prefabrication and erection for the supports for the burners piping (including sandblasting and painting). Dismantling of old burners and piping and erection of the new burners and the piping with their supports. Execution of all tie-ins for the ducts and the pipes during the Turn Around period of November 2006. Execution of all the hydraulic tests for the burners piping. Execution of all the repairs for the refractory of the ducts to the tie ins points and around the burners. Execution of all the insulation works needed for the burners piping and the ducts. Execution of all the electrical and instrument works up to the local Junction Boxes.

Subject project has been executed during a 23 days shut down, working in two shifts.

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