

UNITHAI SHIPYARD - Offshore / Oil & Gas Project

Project Name : ATHABASCA OIL SANDS PROJECT

Customer : Shell

Employer : Amec Birwelco

Location : Athabasca, Canada

Scope : Fabrication of radiant section steelwork for a pair atmospheric and a pair vacuum column feed heaters. Each pair of heaters shared a common stack.

Steel Tonnage : 680 Tonnes

Completion Date : March 2001



Project Name : CRUDE DISTILLATION UNIT #3

Customer : Kuwait National Petroleum Company (KNPC)

Employer : ABB Lummus Heat Transfer

Location : Mina Al Ahmada, Kuwait

Coil Material : P9

Steel Tonnage : 450 tonnes

Shipping Weight : 912 tonnes

Completion Date : June 2001



Scope : Fabricate and supply the heater, comprising of P9 radiant coil, 30 no. 24 meter long unlined radiant panels, concrete lined ducting, a concrete lined stack, secondary steel-work and two convection modules with P9 coil. The larger of the two concrete lined convection modules was 25 meters long x 5 meters high x 5 meters wide and weighing 125 tonnes.

Project Name : OHANET GAS PROCESSING PLANT

Customer : BHP Petroleum
 Employer : Boustead International Heater
 Location : Algeria
 Scope : Fabrication component of natural gas processing plant
 Steel Tonnage : 150 tonnes
 Completion Date : December 2001



Project Name : CRUDE DISTILLATION UNIT #5

Customer : Kuwait National Petroleum Company (KNPC)
 Employer : Boustead International Heaters (BIHL) for Fluor Daniel / SK Engineering & Construction.
 Location : Mina Al Ahmadi, Kuwait
 Steel Tonnage : 450 tonnes
 Completion Date : February 2002



Scope : To replacement of crude distillation unit number 5 (CDU#5). Unithai's scope of supply included detailed design, procurement, fabrication, corrosion protection, installation of ceramic fiber and vapor barrier on the radiant casing, installation of castable refractory on stacks and ducting and packing.

Project Name : PUERTO LA CRUZ REFINERY

Customer : PDVSA/ JGC/ Chiyoda
 Employer : Kvaerner Huertey Italiana
 Location : Venezuela
 Scope : Supply 5 modularized vertical cylindrical heaters (a diesel, charge, stripper, reboiler, fractionator, and debutanizer) for PDVSA's Puerto La Cruz refinery expansion.
 Coil Material : A-106, SS321
 Steel Tonnage : 380 Tonnes
 Shipping Weight : 1,013 tonnes
 Completion Date : April 2002



The largest radiant module was 18.9 m long, 6.8 meters in diameter, and weights over 90 tonnes. In addition to the radiant section, Unithai fabricated 11 modules for 5 heaters, two of which were equipped with stainless steel coils.

Project Name : CALTEX KURNELL REFINERY

Customer : Caltex
 Employer : Foster Wheeler
 Location : Australia
 Coil Material : P5
 Steel Tonnage : 145 tonnes
 Shipping Weight : 335 tonnes
 Completion Date : January 2003



Scope : Fabricate the heater, which consisted of the P5 radiant coil, the 11m diameter radiant section, shipped in 12 no. 30° segments, two 80 Tones lined convection modules (P5 coil), secondary steelwork and the heater stack.

Project Name : THAI OLEFINS EXPANSION PROJECT

Customer : Thai Olefins Company (TOC)
 Employer : Chiyoda Corp
 Location : Maptaphut, Thailand
 Coil Material : ASTM A106 Gr. B, A312 TP 310 and TP 304, A335 P22 and Centrifugally cast – HP40 modified + Nb
 Steel Tonnage : 267 tonnes
 Shipping Weight : 1,630 tonnes
 Completion Date : December 2003

Convection modules



Scope : Supply a total 30 convection modules, the largest of which weighing some 60 tonnes. The scope of supply included detailed design, procurement, fabrication, corrosion protection, installation of castable refractory on the casings, testing, packing and delivery to site.

Project Name : METHANEX CHILE IV PROJECT

Customer : Methanex
 Employer : Boustead International Heater
 Location : Chile
 Scope : Supply, fabricate, modularize and test the methanol-reforming unit.
 Coil Material : A106, SS316, SS304, P22, P91
 Steel Tonnage : 414 Tonnes.
 Shipping Weight : 2,500 tonnes
 Completion Date : April 2004



Project Name : BALONGAN BLUE SKY PROJECT

Customer : Pertamina / Toyo Engineering Corp (TEC) JV with PT Rekayasa Industrial as EPC contractor.
Employer : Furnace Engineering
Location : Balongan, Java, Indonesia
Coil Material : A335 P9, P22, P11, P5 and A106 Gr. B.
Steel Tonnage : 214 tonnes
Shipping Weight : 929 tonnes
Completion Date : April 2004



4 VC radiant modules



8 convection Coil materials

Scope : Fabricate 4 VC radiant modules, 8 convection Coil materials. The size of the 4 radiant modules range from 4.5 m diameter by 10 m high to 8.6 m diameter by 18m high will be shipped in a full module with approx total 340 tonnes for four units.

Project Name : New Zealand Refinery

Customer : Foster Wheeler
Employer : New Zealand Refinery.
Location : New Zealand.
Scope : Steel work, piping, electrical, instrument, painting, fireproofing.
Steel Tonnage : Approx. 4,000 Tonnes.
Completion Date : 2004



Production Module for Refinery in New Zealand