

## FCC REACTOR

Client/End User : Hellenic Petroleum S.A. \_ Aspropyrgos Refinery  
Year : 1999

### Work Description :

- Design according to ASME VIII Div 1,
- Material procurement,
- Fabrication,
- Sandblasting-painting,
- Non Destructive Testing and
- Transportation of the upper part of reactor.

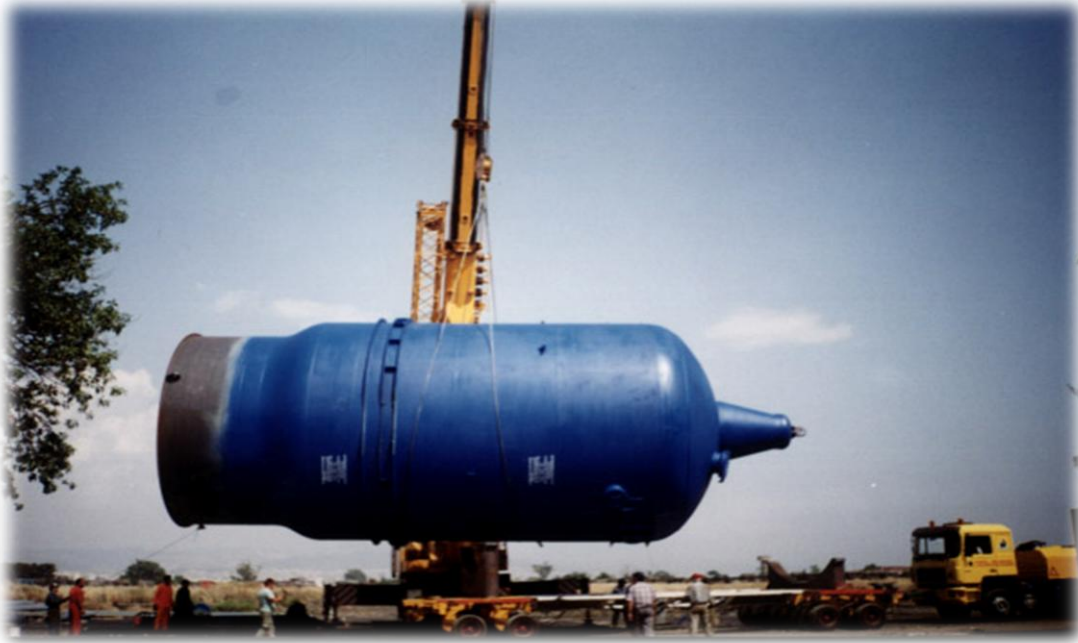
### Notes :

1. Axisymmetric Finite Element Analysis verification of plenum and top head was carried out in addition to conventional design methods.
2. Flame spray of thermowell with Stellite 6 (1,5mm thk).
3. Refractory lining studs were installed at shop.
4. Design and Fabrication were supervised by Exxon NPQC.
5. 100% R.T./U.T. examination of welds.

### Technical Data

Content	FCC
Position	Vertical
Height :	14.000 mm
I.D. :	6.677 / 5.800 mm
Weight :	85.000 kgs
Capacity :	360m <sup>3</sup>
Design Code :	ASME Sec. VIII Div. 1 / NEAK (Greek Seismic Code) / WRC 107, DIN 1055, Exxon IP's,
Design Pressure :	3,73 bar
Design Temperature :	343 °C
Shell material :	A516 Gr 70 / A204 Gr B (plenum)
Third Party Inspection:	Moody Tottrup Hellas S.A.

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