

Caltex Diesel & Crude Tanks

Sydney, New South Wales, Australia

**Client**

Caltex

Project Value

AUD \$45 million

Project Scope

FEED followed by EPCM

Period of Work

February 2006 – August 2008

Project Description

Uhde Shedden was engaged by Caltex to undertake the Front End Engineering Design (FEED) and Engineering, Procurement and Construction Management (EPCM) for two tanks at the Kurnell refinery in Sydney.

The scope of the projects was to provide a 500,000 bbl Crude Oil Storage Tank, 77.5 metres in diameter and 20.5 metres high, and a 110,000 bbl Diesel Oil Storage Tank, 39.6 metre in diameter and 14.6 metres high.

Special attention was given to specific environmental aspects of the project: the protection of an endangered native orchid species, the bunded areas will be fully lined with high density polyethylene (HDPE) to form a totally impervious barrier in the event of oil spillages, and storm water management was a critical design issue worked in conjunction with Caltex and the University of NSW.

The Crude Oil Storage Tank is one of the largest oil tanks ever constructed in Australia and provides crude oil storage to increase the operational flexibility of the refinery. The Diesel Tank provides additional Diesel oil storage to allow the refinery to continue at full capacity through major shutdowns.