

# **TECHNICAL REFERENCES**



## Ethylene Storage Facility

### De-bottlenecking Study

<b>Client</b> Vopak China Tianjin, China		<b>Enduser</b> Vopak Ethylene Terminal Tianjin Tianjin, China
<b>Project</b>	Year of Award Contract Number	2006 06069
<b>Weir LGE Process</b>	Scope of Work	Investigate terminal capacity increase to 300,000 mt/y Budget cost estimate to impliment changes
<b>Facility Description</b>		Cooldown system duty review . Review of loading arm & jetty operation. Export pumping system review. Pump lifting system review. Additional vaporiser duty requirements. Modifications to pipework.. Utility & power requirements



## Ethylene Storage Tank

### Tank Inspection & Commissioning Services

<b>Client</b> Romp petrol Petrochemicals Romania	<b>Enduser</b> Romp petrol Petrochemicals Romania	
<b>Project</b>	Year of Award Contract Number	2006 06035
<b>Weir LGE Process</b>	Scope of Work	Inspection of an out of use ethylene tank Provision of technical advice to reuse the existing facilities for ethylene storage.
<b>Facility Description</b>	The scope was to allow Romp petrol to extend the operational life of the tank to continue importing ethylene from both ship and road tankers. Based on the investigations undertaken, the ethylene tank should be capable of the extended life, provided Romp petrol follows the proposed recommendations.	



## LPG Storage Terminal

### Design and Engineering

**Client**

Thermo Design Engineering  
Canada

**Enduser**

Iran Offshore Oil Company  
Sirri Island, Iran

**Project**

Year of Award  
Contract Number

2004  
04064

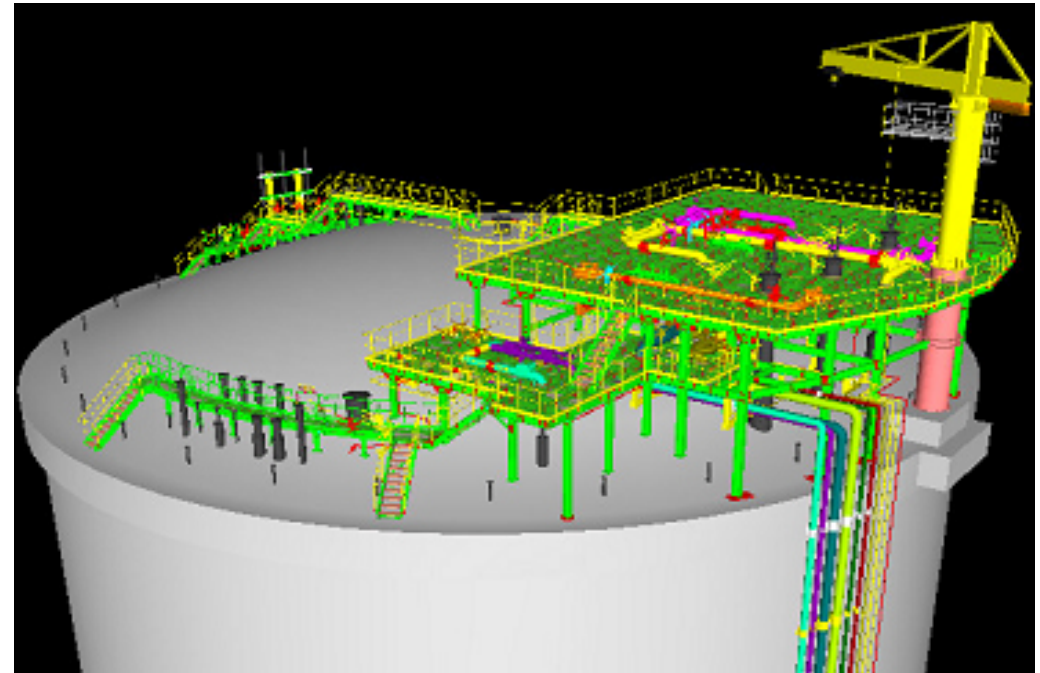
**Weir LGE Process**

Scope of Work

The intent of the work was to present to the client a basic engineering package for the marine handling and storage of propane, butane, pentane and condensate arising from a NGL splitter located at Sirri Island in Iran

**Facility Description**

The new facility included the following principal components:  
Refrigerated propane storage (40,000 m<sup>3</sup>)  
Refrigerated butane storage (20,000 m<sup>3</sup>)  
Ambient pentane storage (10,000 m<sup>3</sup>)  
Ambient condensate storage (10,000 m<sup>3</sup>)  
Vapour recovery and pressure maintenance system for propane & butane storage  
Product export to marine loading arms at the jetty  
Flare for equipment located at the jetty



# Ethylene Terminal

## De-commissioning

<b>Client</b> Dow Chemicals Spain		<b>Enduser</b> Dow Chemicals Tarragona Spain
<b>Project</b>	Year of Award Contract Number	2004 04024
<b>Weir LGE Process</b>	Scope of Work	Tank de-commissioning, inspection and re-commissioning
<b>Facility Description</b>	Liquid ethylene storage tank at the Tarragona Marine Facility was taken out of service in order to carry out an internal inspection and remedial work followed by re-commissioning.	



# Propylene Project

## Process feasibility Study

<b>Client</b> Confidential South Africa		<b>Enduser</b> Confidential South Africa
<b>Project</b>	Year of Award Contract Number	1997 L9712
<b>Weir LGE Process</b>	Scope of Work	Contract to investigate the technical feasibility of converting an existing refinery grade propylene facility in South Africa to accommodate the export of polymer grade propylene.
<b>Facility Description</b>		<b>Phase 1</b> Propose facility modifications to allow earliest possible propylene export. <b>Phase 2</b> Identify further modifications and develop Cost estimates to enhance the facility export Rate. <b>Phase 3</b> Upgrade the existing LPG storage facility <b>Phase 4</b> Investigate the use of the existing ammonia facilities

