



BARROW ISLAND LOAD-OUT JETTY

MATERIAL OFFLOADING FACILITY PROJECT

Project Name	Barrow Island Load-Out Jetty
Project Owner	Chevron Australia Pty Ltd
General Contractor	MMJV
Project Location	Western Australia
Product	LSAW & SSAW Tubular Piles
Total Tonnage	1,100 MT
Year	2010

INTRODUCTION

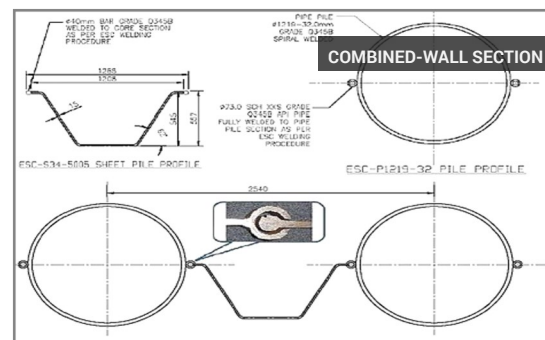
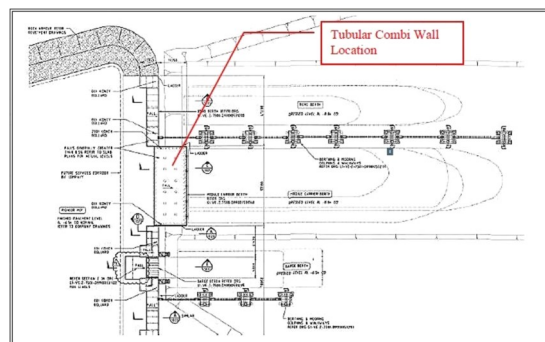
ESC delivered over 1,100 tons of combined wall system to MMJV for the prestigious Barrow Island LNG Plant Material Offloading Facility in Western Australia. ESC completed manufacture in both its China and Malaysia facilities. The King Pipe Pile design also contained structural fabrication scope for lifting lugs, tie rod brackets, shear connections and more.

ESC in Malaysia and China built the combi-wall system specially designed for the Barrow Island LNG Plant Material Offloading Facility (MOF). This is part of the massive Gorgon Project for Chevron Australia Pty Ltd. The MOF will facilitate the offloading of the materials and the components that will be used to construct a major LNG (Liquefied Natural Gas) processing facility on the island. The Gorgon gas fields, off the northwest coast of Western Australia (WA), contain about 40 trillion cubic feet of natural gas and this development currently represents the largest single project underway in the world.

ESC's client was MMJV which is a project specific joint venture created by the joining of Marine and Civil Construction Pty Ltd of Australia and Murray & Roberts Marine of South Africa.

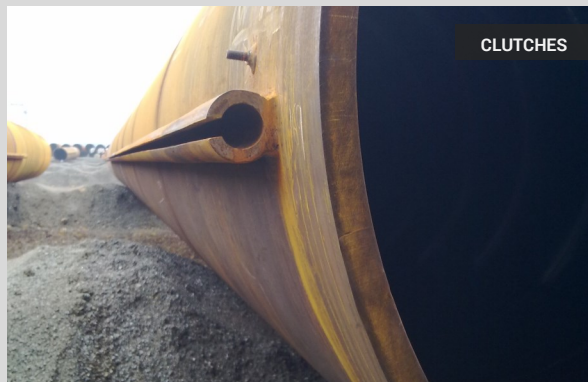
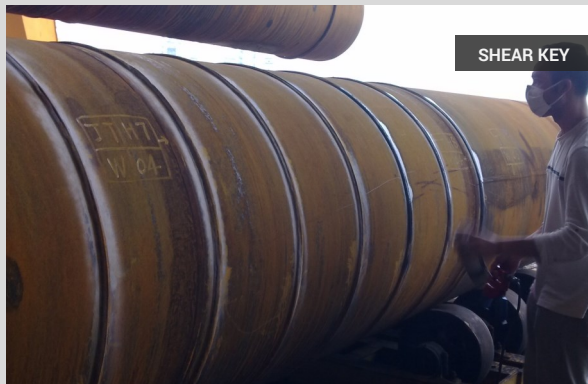
The unique aspects of the project were dealt with by ESC through constant dialogue with MMJV and Chevron's Engineers Kellog Joint Venture (KBR, JGC, Hatch and

Clough). Design evolution during the project construction required the manufacture from ESC to be very dynamic and able to facilitate change.



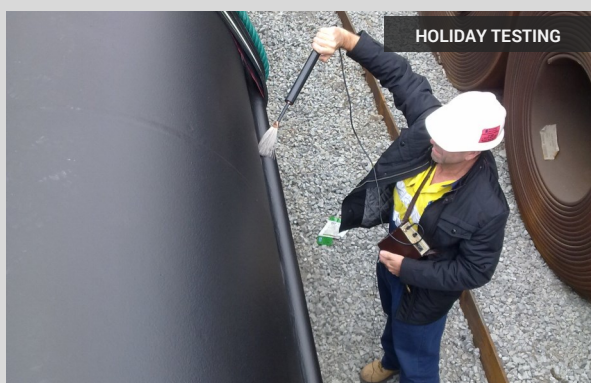
FABRICATION OF PIPES & PILES

ACTIVITIES



PAINTING OF PIPES

ACTIVITIES



PACKING & STACKING



SHIP LOADING



ON-SITE INSTALLATION

