

Cold Cutting Activities for Shell



Client	Shell
Project	Cold Cutting Activities
Location	Brent Oilfield, Mossmorran and St Fergus Gas Terminals

THE CHALLENGE

A variety of cold cutting activities at Brent Oilfield, Mossmorran and St Fergus Gas Terminals for Shell.

ALTRAD SERVICES SOLUTION

Brent Alpha caisson removal on caissons C43004, C43006 and C43007

The Shell Brent Alpha caissons are situated on the cellar deck and we were commissioned to remove them via cold cutting methods. We managed to remove the caisson and cut the stabbing pins utilising an in-house design of a clamp which was designed to clamp direct to the Shell caisson. Then with the two holding brackets and utilising our trepanning hole cutter, this would enable us to cut the stabbing pin holes exactly 180 degrees of each other and at circumference of 200mm and to a depth of 20mm–75mm through several liners deep. The circumference cut was completed utilising our band cutting system and our scorpion system.

Mossmorran and St Fergus Gas Terminals

Shell Mossmorran had asked us to devise a system for de-energising of their Helicular Spring, this equipment would need to be portable as the necessary work was required in several locations on site. We then designed a gimbal holding system for the purposes of this which enabled us to attach to a scaffold pole and cut the springs with a UHP gun with a cold cutting tip attachment. The thickness of the external cases were 10mm dependent on decaying steel, and the thickness of the springs can vary from 10mm to 60mm. On the occasions that the outer case is severely perished we would deploy our rigid track system and tractor unit to depressurise the springs at a safe distance utilising the remote system.

ABOUT ALTRAD SERVICES

Altrad Services is an international leader in the provision of critical industrial services principally to the energy and natural resources sectors.

Our multi-disciplinary service offering includes access systems, insulation, specialist coatings, passive fire protection, refractory linings, environmental services, oil and gas storage tanks and heat exchanger replacement and refurbishment.