

H7 Bypass

PROJECT OVERVIEW

Toisa Polaris, Pipelay & Construction Vessel, alongside ConocoPhillips' H7 Gas Booster Platform in the German sector of the North Sea



Fabrication, construction and installation of pipeline bypass around ConocoPhillips' H7 Gas Booster Platform in the German sector of the North Sea.

Project included the following elements:

- Fabrication of bypass
- 2 simultaneous hyperbaric welds on the 36" Ekofisk Emden pipeline
- Critical schedule to minimise the shutdown time of approximately 18% of total Norwegian oil & gas production

LOCATION

The H7 gas booster platform is located 60 km off the German coast, in 41 m of water and in an area of very heavy shipping traffic.

CLIENT

ConocoPhillips/Gassco

PROJECT DURATION

Fabrication of bypass	October 2006 - February 2007
Bypass spool tie-in	April 2007 - May 2007
Hyperbaric Welding	June 2007

ASSETS

Toisa Polaris, Seven Pelican

SCOPE OF WORK

Installing bypasses is a relatively late development in the world of subsea installation and in our opinion such projects don't really come much more challenging than the ConocoPhillips/Gassco project to install a pipeline bypass around the H7 gas booster platform in the German sector of the North Sea.

The workscope of the project was to fabricate and install a bypass on one of Norway's biggest gas export pipelines, a 36" pipeline from the Ekofisk field and other suppliers to the Emden gas terminal in Germany, so that the H7 booster platform operations could be terminated and the platform removed in the future.

Subsea 7 put seven spool pieces in the bypass around the platform, cut the main line then welded it on both sides so that it now deflects around the platform.

This was a high profile contract and the project team were under a lot of pressure in every sense of the word. The major 36" diameter pipeline relieves the pressure on a number of key producing Norwegian oil and gas fields and entailed shutting down approximately 18% of total Norwegian oil & gas production while this huge bypass was tied in to the existing pipeline.

This high-intensity project was completed safely, on time and on budget.



The Toisa Polaris, Pipelay & Construction Vessel, supported the offshore campaign



Subsea 7 put seven spool pieces in the bypass around the platform



Spool pieces were transported and wet stored using the Edda Fjord, Multipurpose Platform Supply Vessel