



## Tyra West, safety review of design and operations

### Project description

Tyra West is a gas processing complex located in the Danish sector of the North Sea. Woodhill performed safety reviews of sister complexes, and then undertook a review of Tyra West with the aim of improving the safe operation of processing facilities and associated utilities.

### Woodhill scope

Provision of engineering services including:

- Hazard identification (HAZID).  
Hazard and operability (HAZOP) study.
- Isolation review using the HAZOP P&IDs to determine isolation related issues.
- Review of designs and capacities of process safety valves and devices, based on the present maximum operating conditions to ensure that the plant and equipment sections are adequately protected.
- Review of valve isolation philosophy and the locations of valves in flare, vent and drain headers and ensure that the valve status is adequately indicated.
- APIRP14C Safety Analysis Check List review to assess compliance with normal industry practise.
- Cause & Effect Chart check to assess if appropriate shutdown actions were available in all modes of operation.
- Review of the suitability of critical trip instrumentation types.

### Features

- Detailed safety review encompassing a wide range of facilities on the entire complex.
- Using lessons and information learned from the previous reviews to provide a more effective and efficient review of the complex

### Benefits

- Safety assessment team comprised of engineers experienced in design and operations

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