

Project Reference:

Åsgard Export Line SSIV Study

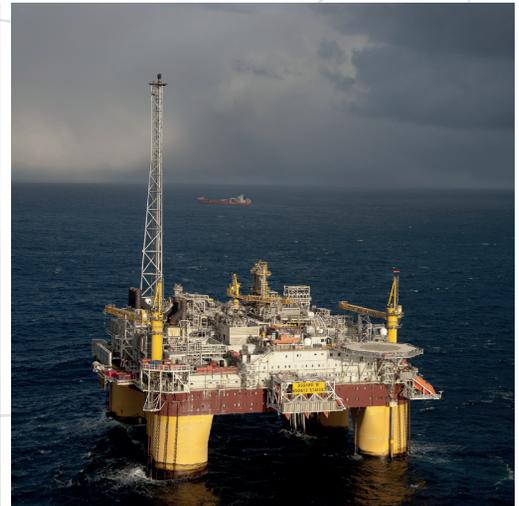
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Åsgard A - Photo: Øyvind Hagen / Statoil



Åsgard B - Photo: Øyvind Hagen / Statoil

Client	Statoil (Norway)
Year	2008
Installation/Plant	Åsgard A and Åsgard B

Objective

There are two pipelines between Åsgard A and Åsgard B for export of excess gas from Åsgard A. The integrity of Åsgard B is based on SSIV of all pipeline connections. However, such isolation valves are not installed on the gas export lines from Åsgard A and the present strategy is to depressurise the export line in service (for excess gas) from Åsgard A within a specified time, in order to limit a possible fire at Åsgard B. Currently only one export line is being operated, and the flare system on Åsgard A is capable of handling the inventory of one line. Simultaneous operation of both lines is now being considered, and the impacts on the flare systems at Åsgard A and the potential need for SSIV on the export lines at Åsgard B shall be defined.

Scope of Services

The study documents the Åsgard A blowdown capability with respect to blow-down of export lines in case of leakage/fire at the Åsgard B riser area. The study looked into different scenarios including manual PSD and blowdown (as-is solution), automatic PSD and blowdown, and use of 2 and 3 blowdown valves (e.g. triple-peaks) at Åsgard A.

The study was performed using VessFire (both version 1.2 and a beta version of the 2.0 version). The effect from flow of compressible gas in the 6 km long seabed flow-lines was included in the assessment of blowdown and blowdown arrangements.

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