

STATEMENT OF FEASIBILITY

No. 2017-0151

This is to state that the technology designated

GluBi pipe

has been assessed with basis in DNV-RP-A203 /1/ for its designated use. DNV GL considers the technology feasible as defined in /2/ and therefore suited for further development and qualification.

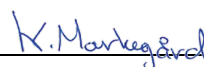
Owner:	Butting GmbH & Co. KG
Description:	The mechanically lined GluBi® pipe is a follow up development of the DNV-OS-F101 and API 5LD qualified BuBi® pipe to allow for an offshore installation by the reeling method by introduction of glue on the liner.
Designated use:	This technology is intended to provide means to avoid wrinkling of the CRA liner during the reeling operation. The aim of the qualification process is to ensure that no wrinkling will occur during reeling of the mechanically lined pipe on a reel with a diameter of 7.5 m or more. The designated use is described in detail in the Technology Qualification Basis document /3/.
Main uncertainties:	Subsequent qualification activities should include but not be limited to, qualification of the production process, establish a robust NDT procedure, ensure that the coating and welding processes does not damage the glue properties, define glue fracture properties, validate glue fracture criterion, define typical imperfections in the backing steel and explore margin to failure due to wrinkling as detailed in /4/.
Involvement:	DNV GL has been involved in the qualification process in accordance with /2/. DNV GL has reviewed the technology qualification basis, and has facilitated and documented the technology assessment and threat assessment /4/.
Qualification and verification:	Technology qualification can proceed with a qualification plan in accordance with /2/ to ensure that relevant failure modes and critical parameters identified in the threat assessment are adequately covered by proposed technology qualification activities. The technology can be verified per requirements arising from the technology qualification basis /1/ and the performed threat assessment /4/.
Reference documents:	<p>/1/ DNV-RP-A203, Technology Qualification, July 2013</p> <p>/2/ DNVGL-SE-0160, Technology Qualification Management and Verification, 2015</p> <p>/3/ Technology Qualification Basis - GluBi® pipe, Rev 1, 2017-02-07</p> <p>/4/ FMECA Report – GluBi pipe, DNVGL-2017-0102/Rev 0, 2017-02-10</p>

The technology qualification is in progress and new sources of uncertainty might be discovered as qualification progresses. Attention is drawn to the iterative nature of the technology qualification process /1/.

Høvik, 2017-02-10
for DNV GL AS



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