



DET NORSKE VERITAS

STATEMENT OF FEASIBILITY

This is to state that the

K-Flex IN CLAD LNG Insulation

has been evaluated in accordance with DNV RP-A203 Qualification Procedures for New Technology /1/ Sections 5.5 and requirements given in Section 6 as reported in DNV Technical Report 2007-1673 /2/. Det Norske Veritas AS (DNV) considers the technology feasible and suitable for LNG application.

Technology owner:	IK Insulation Group
Name of technology:	K-Flex IN CLAD LNG Insulation
Description:	The K-Flex IN CLAD system is a composite product comprising of K-Flex ST, closed cell NBR type flexible elastomeric foam insulation. The K-Flex IN CLAD has an outer covering of polymeric sheet clad (Hypalon/CSM) that provides weather protection, UV protection and impact resistance. Fire resistance is documented in /3/
Application:	The range of application for the K-Flex IN CLAD LNG Insulation includes insulation of rigid LNG piping, valves and process equipment.
Involvement:	DNV has taken part in and verified the Qualification Basis formulation and the Technology Assessment and evaluated the main challenges of the technology as reported in /2/. DNV has also performed an inspection of the insulation at the Montoir Terminal /4/.
Limitations:	Insulation of flexible pipes or use in submerged operations has not been considered.
Reference documents:	<ul style="list-style-type: none">/1/ DNV-RP-A203, Qualification Procedures for New Technology, September 2001./2/ DNV Technical Report No. 2007-1673 Rev.1 "Technology Assessment of K-Flex IN CLAD LNG Insulation", 2008-03-06./3/ K-FLEX IN Clad – DNV Type Approval Certificate no F-18338, 2007-04-17/4/ DNV Survey Report no 762-11ZXL7M-4, "K-Flex Insulation of the ALLS test bench in Montoir-de-Bretagne, 2007-01-23

DNV shall not be responsible for not having identified failure modes or causes that has resulted in loss or damage or for not having prescribed the qualification activities necessary to avoid the loss or damage.

Oslo, 2008-03-06

for Det Norske Veritas AS

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Verifier

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.