



TÜVRheinland®

ZERTIFIKAT
CERTIFICATE

No.: 968/EL 957.00/14

Product tested	Design and engineering documentation for the intended design of the High Integrity Pressure Protection System (HIPPS) for the onshore gas terminal (OGT) near Kyauk Phyu in Ramree Island	Certificate holder	Daewoo International Corporation Myanmar E&P Office 88, 2nd Flr, Pyay Road Hlaing Township, Yangon Myanmar
Type designation	High Integrity Pressure Protection System (HIPPS) for SHWE FIELD DEVELOPMENT PROJECT	Manufacturer	Yokogawa Industrial Safety Systems Sdn. Bhd. Wisma Yokogawa No. 9 Jalan Industri PBP 3, Taman Industri Pusat Bandar Puchong, 47100 Puchong Selangor Darul Ehsan Malaysia
Codes and standards forming the basis of testing	IEC 61508 Parts 1-7:2010 (in extracts) IEC 61511 Parts 1-3:2004 (in extracts)		
Intended application	The intended design of the High Integrity Pressure Protection System (HIPPS) for an onshore gas terminal (OGT) complies with the requirements of IEC 61508 (Phase 10 of the safety life cycle) and IEC 61511 (Phase 4 of the safety life cycle) for SIL 3.		
Specific requirements	Among others the end-user needs to assure that installation and commissioning, safety validation, operation, maintenance and repair, proof testing, retrofit and decommissioning are carried out according to the requirements of the standards. Further on the instructions given by the HIPPS supplier and the safety documentation delivered by the components suppliers have to be observed. During validation testing the end-user needs to verify that the safety functions can be executed as required by the Safety Requirement Specification. Furthermore an override management including access control and complete override procedures shall be made available for operation and maintenance phase. Any changes made to the design of safety system or to the configuration need to go through a modification procedure. No changes are allowed to be made by the end-user to individual components, modules or software (if applicable).		

The issue of this certificate is based upon an examination, whose results are documented in report-no.: 968/EL 957.00/14 dated 2014-02-14.

This certificate is valid only for products which are identical with the product tested. It becomes invalid at any change of the codes and standards forming the basis of testing for the intended application.

TÜV Rheinland Industrie Service GmbH
Bereich Automation
Funktionale Sicherheit
Am Grauen Stein, 51105 Köln

Köln, 2014-02-14

Certification Body for FS-Products

Dipl.-Ing. Stephan Häb