DNV·GL

Statement No:
006/150602

STATEMENT OF COMPLIANCE

Particulars of Product

Name of Product: **Machinery Operation Simulator**

Class notation:

Type designation: **K-Sim Engine DE66 Drill Ship**

Particulars of Manufacturer

Manufacturer: **Kongsberg Maritime AS**

Manufacturer Address: **Bekkajordet, Horten, Norway**

This is to confirm:

That the above product is found to comply with Class S- Standard for Certification of Maritime Simulators No. DNVGL-ST-0033 2014.

Application

The above Standard is based on requirements in the STCW Convention, Regulation I/12.

This Statement is valid until **2020-06-02**, provided the requirements for the retention of the Statement will be complied with.

Issued at **Sandefjord** on **2015-06-30**

Lars Markusson
Auditor

Line Øverland
Auditor

This Statement is subject to terms and conditions overleaf. Any significant change in simulation performance may render this Statement invalid.

Application/Limitation

2.2 Additional requirements for simulators used for training ship's electrical officers (STCW Table A-III/6 -7)
2.2.1 It shall be possible to demonstrate systematically the tests that are made on the UMS (Unmanned Machinery Space) alarm system.
2.2.2 It shall be possible to simulate auto slow-down and emergencyshutdown.
2.2.3 It shall be possible to simulate safe methods to test Inert GasGenerator (IG) alarms and controls.
2.2.4 It shall be possible to simulate testing of the 24V D.C. power supplyto the navigation, communication and engine room control console in event of power failure.
2.2.5 It shall be possible to simulate safe methods of testing the insulation for rotor and stator.
2.2.6 It shall be possible to simulate of reading a power factor meter with reference to four segments.
2.2.7 It shall be possible to simulate testing of the devices and relays provided for generator protection.
2.2.8 It shall be possible to simulate tests related to AVR (Automatic Voltage Regulator).
2.2.9 It shall be possible to simulate the pick-up point of generator output and the routing of the control circuit input.
2.2.10 It shall be possible to simulate methods of cooling and checking of air gap.
2.2.11 It shall be possible to simulate the precautionary measures when megger testing the rotor of a brushless generator.
2.2.12 It shall be possible to simulate routine tests on an emergency generator.
2.2.13 It shall be possible to simulate how a generator circuit breaker OCR (Over Current Relay) is set and tested.
2.2.14 It shall be possible to simulate the process of connecting a shaft generator on load and specific conditions for taking off load.
2.2.15 It shall be possible to simulate the procedure for megger testing a high voltage system.
2.2.16 It shall be possible to simulate paralleling of generators using synchro-scope and demonstrate the method to parallel, if synchroscope is faulty.
2.2.17 It shall be possible to simulate the maintenance and checks carried out on an ACB (Air Circuit Breaker).
2.2.18 It shall be possible to simulate recovery from "dead ship" condition.
2.2.19 It shall be possible to simulate methods to test the "Preferential Tripping Sequence"
2.2.20 It shall be possible to simulate methods to test auto "Cut In" of stand by generator.
2.2.21 It shall be possible to simulate methods of diagnosing single phasing fault.
2.2.22 It shall be possible to simulate operation and maintenance of variable speed motor starters.
2.2.23 It shall be possible to simulate operational test methods of oily water separator monitors.
2.2.24 It shall be possible to simulate test methods for level alarms and function tests of bilge pumping arrangement.
2.2.25 It shall be possible to simulate the functional tests of ODMCS (oil discharge monitoring and control system) and ODME (oil discharge monitoring equipment) system.
2.2.26 It shall be possible to simulate the function test of OWS (oily water separator) and PPM (parts per million) unit.