

STATEMENT OF COMPLIANCE

Particulars of Product

Name of Product: Machinery Operation Simulator

Class notation: _____

Type designation: K-Sim Engine M42 AHTS

Particulars of Manufacturer

Manufacturer: Kongsberg Maritime ASManufacturer 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 **2015-06-02**



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.



Job Id: (Job Id.)
Statement No: 002/150602

Application

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 emergency shutdown.
- 2.2.3 It shall be possible to simulate safe methods to test Inert Gas Generator (IG) alarms and controls.
- 2.2.4 It shall be possible to simulate testing of the 24V D.C. power supply to 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.