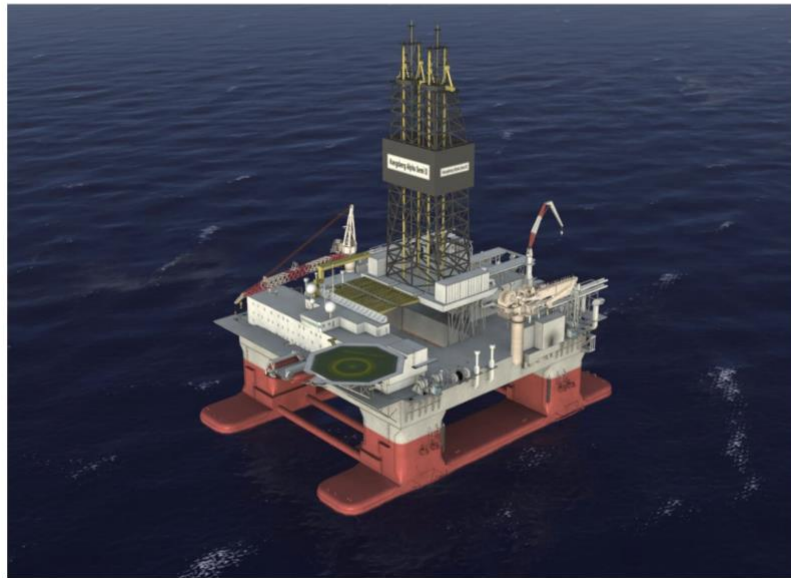




Product Description

K-Sim Engine
DE88-Oil Rig



The K-Sim Engine Semi-Submersible Drilling Rig DE88 model is based on a diesel electric semi-submersible drilling rig. The Model contains 8 Wärtsilä medium speed engines, each rated 5100 kW for power generation. The propulsion system is diesel electric, and the engines are fitted with 11 kV generators supplying eight Azimuth thrusters, each rated 4000 kW

The control and automation systems include sophisticated power management, pump control and propulsion control. The main object for the simulator is to cover the operation, system understanding and advantages of a diesel electric plant. It also focuses on decision training, responding to abnormal and emergency situations that may occur on this kind of offshore plant. Control room operator panels as well as steering panels are included.

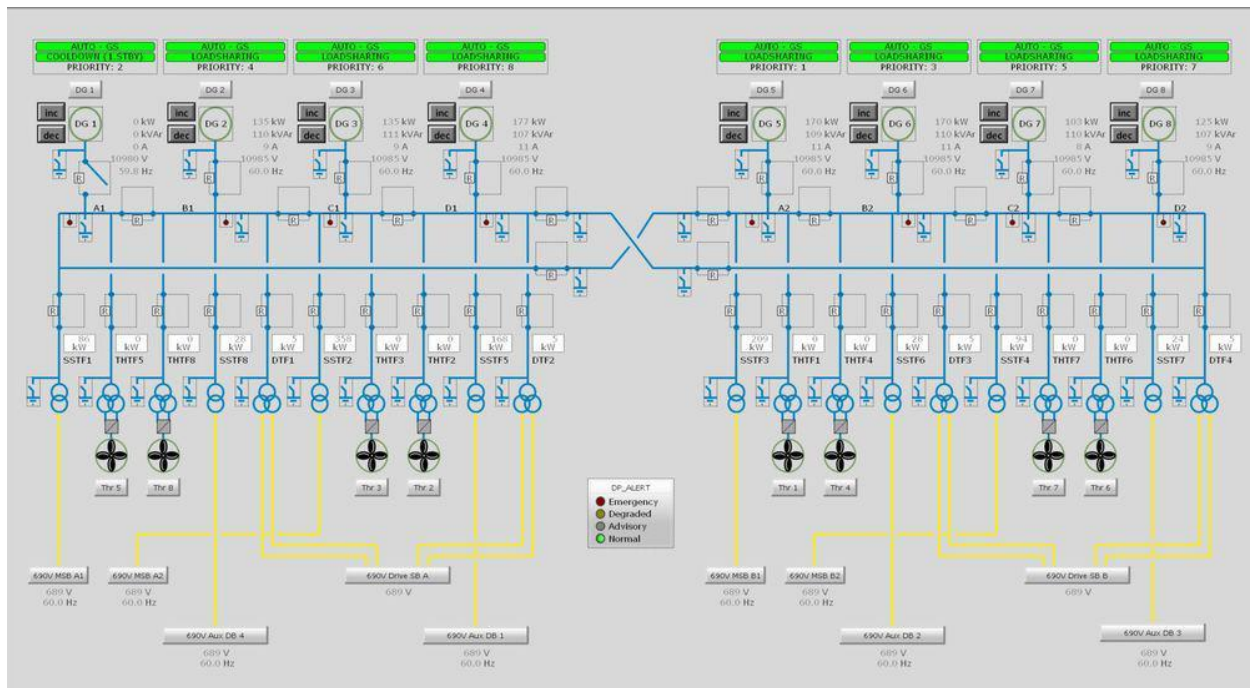


Training objectives

The K-Sim Engine Semi-Submersible Drilling Rig DE88 model is designed to be a valuable tool in the basic and advanced training of marine engineers. The training objectives are to train junior engineers in basic engine room operations, senior engineers in emergency operations and trouble shooting, and to train senior and chief engineers in optimal operation, fuel economy and energy conservation. This is achieved by controlled training, leading to better understanding of the total plant operation, as a result of realistic simulation of a real engine room.

Compliant with industry requirements

Kongsberg Digital simulator models exceed requirements in the STCW convention, Regulation 1/12 and fulfill DNV GL's standard DNVGL-ST-0033 for Maritime Simulator Systems





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Model specifications:

- Power generation 8 Wärtsilä Medium Speed Main Engines
- Main Generators 8 brushless A/C synchronous Generators
- Integrated Automation System Alarm and Safety Warning System Control and Power Management system
- Thruster Control System
- Seawater Cooling System
- Lubrication Oil System
- Emergency Generator
- Diesel Generator Sets and Support Systems
- Electric Power Supply Conversion Equipment
- Switchboards, Distribution, and Panels for Electric Power and Lighting
- Fire Detection, Water Mist
- Fresh Water Cooling System
- Fuel Systems
- Fuel and Lubricant Handling and Storage Systems
- Compressed Air Systems
- Ballast system