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MTU and Detroit Diesel: Leaders in Generator Systems Engineering for the Oil and Gas Industries

World's largest fire extinguishing pump drives on the Kristin offshore platform

The company recently demonstrated its system engineering capabilities when it supplied four diesel-electric installations to the Norwegian company Statoil. The generators in question are the world's largest fire extinguishing pump drives. They are installed on the Kristin drilling platform. The 20-cylinder Series 4000 engines provide for a combined electrical output of 13,200 kVA to power the electric motors, which in turn enable the four fire extinguishing pumps to pump 17,600 m³ of water an hour at a pressure of 14 bar from the sea into the many kilometers of pipeline if an emergency occurs.

The floating drilling platform Kristin is roughly 150 kilometers off the Norwegian coastal town of Trondheim and is one of the largest of its

kind in the North Sea. In October 2005, it will start to extract 18.3 million cubic meters of natural gas and 23,000 cubic meters of oil a day at a pressure of 900 bar from a depth of 4,800 meters below the sea bed. Those are record levels for the North Sea field. The stringent safety requirements specify that the surface temperature of the gensets must not exceed 200 degrees Celsius, for example. In addition, two starting systems have been installed which can start the engines independently. Furthermore, the startup time is limited to 20 seconds. The MTU gensets have already been tested and meet all safety requirements.

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