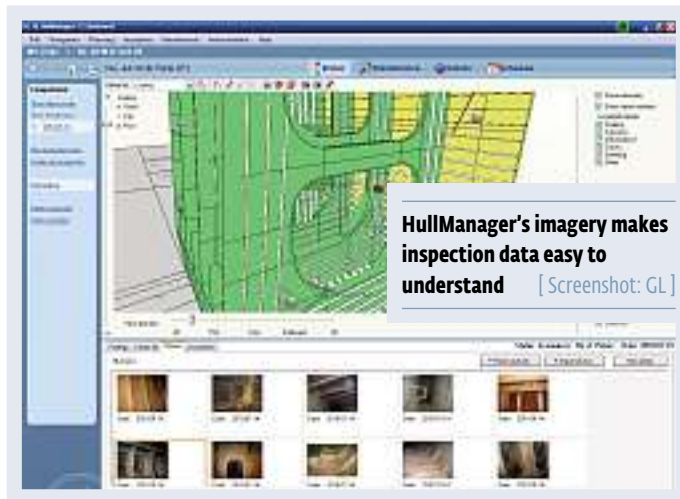


much as \$78M to the operator's costs but could potentially lose up to \$2.4Bn in revenue because of delays in producing oil.

In response to such concerns, DNV developed its Recommended Practice for Integrated Software Dependent Systems (DNV-RP-D201), published in 2009. It has followed this up with a certificate for integrated software-dependent systems (ISDS) and will issue the first such certificate this year to Dolphin Drilling, the rig contracting subsidiary of Norway's Fred Olsen Energy. It will be awarded to the rig *Borgland Dolphin*, which is being upgraded and will cover new systems and software, including its power management systems.

Johansen said DNV had so far received requests from 11 other major rig owners for ISDS and he expects it to extend to newbuildings as well as upgrades. In addition, "we expect similar developments for advanced ships, [such as] cruise, offshore supply and seismic," he said. Indeed, a pilot project has already been carried out with RCCL's Genesis cruise ship, a DNV spokesman told *Fairplay*. ■

➔ **For more information:**
read DNV's recommended practice for ISDS at <http://tinyurl.com/DNV-ISDS>



Talking with pictures



GL's HullManager makes things simple for oilmen

Monitoring the condition of FPSO tanks is not easy. Operators may not always have the option of drydocking their units, so tank structure inspections must be "conducted on a campaign basis", Germanischer Lloyd said in the February issue of *Energise Oil & Gas*, its customer magazine for the oil and gas sector.

Several operators, it reported, have discovered material cracking

and defective coating in their FPSOs. This must be addressed if these units are to continue operating in the long term.

But the ship managers have to explain their maintenance decisions to their operations managers and "the ability to represent all findings visually is particularly helpful in the oil and gas sector, where marine management have to present their assessments to senior operations management, who are not typically from a marine background and benefit from the ability to visualise the issue at hand."

The society's latest maintenance software and service package, GL HullManager, uses a 3-D model of the vessel to show actual plates and stiffeners or frames of each tank or other space in the ship. As Christian Cabos, who heads GL's computer-aided engineering (CAE) development, explained: "Inspection forms with images of the structural members of the inspected tank can be printed out to mark findings and positions on photos using a pen during the inspection. This information can be entered into the software in an easy onboard interactive process with the 3-D model."

Once the inspection results have been approved, GL HullManager can make information on the condition of hull structures available to anyone in the company. And it is stored in a lifecycle database, so hull condition can be tracked and sister vessels compared easily.

It will also produce inspection forms with checklists based on IACS recommendations and GL's guideline for rating defects, to ensure uniform reporting across a fleet. "Since the images on the inspection forms are based on the 3-D model of the actual vessel, the quality of reports increases significantly," Cabos said. ■

SIS Star boosts purchasing power



Purchasing modules reflect user feedback

Customers are testing a purchasing system that its developer says will "no less than revolutionise maritime purchasing".

Star Information Systems (SIS) will formally unveil its Star Fleet Supply Management (Star FSM)

next month during the Nor-Shipping exhibition in Oslo. It has already revealed some details, including, last month, that Star FSM takes advantage of the latest Microsoft.NET technology.

It will automate tedious tasks, SIS said, releasing time for more productive work such as building strategic partnerships with suppliers and freight forwarders. It will interact with SIS's exist-

ing Star IPS fleet management system and uses SISCommerce to communicate with suppliers and freight forwarders.

Marketing manager Pia Solheim explained that the system has benefited from conversations with users. "We decided to start from scratch with new technology that allows for more flexible systems and enables automation of processes to make purchasing

more efficient," she said.

Improvements include the ability to track the receipt of goods by an agent or warehouse, their packing and redistribution and the return of goods from vessels.

SIS will also launch a package named Star Fleet Dashboard this year. It will help organisations monitor and act on their key performance indicators.

"Performance monitoring should be implemented with the aim of identifying internal inefficiencies," SIS said. ■