CSI CONTROL SYSTEMS

smart solutions, safe shipping

Vessel Management System (VMS) for Jack-up Rig

Project specifications

type
Cantilever Jack-up rig

design
Baker Marine Pacific Class 375 (BMC 375)

class
ABS, A1 self elevating drilling unit

built
Jurong Shipyard Pte. Ltd Singapore

water depth
375 ft (114.6 m)

drilling depth
30,000 ft (9,100m)

Customer references

eni saipem

MAERSK DRILLING

Seadrill

Project description

The VMS monitors, controls and records a total of more than 3000 analog and digital signals of several systems on board of the jack-up rig. Systems included:

- Power management
- Mud and cement
- Preload
- Lubrication and fuel oil
- Water service for drilling and cooling
- Fire fighting systems
- Gas alarm

and more.

The VMS system basically consists of a number of industrial workstations that are connected by a fiber optic network ring. A field data communication bus connects the workstations with the I/O units in the cabinets. The fiber optic ring, field bus and multiple workstations can takeover each others functions, thereby providing a fully redundant system. Next to hard-wired signals, several other data communications busses such as profibus and modbus can be used to interface data.

DeltaMACSII Solutions

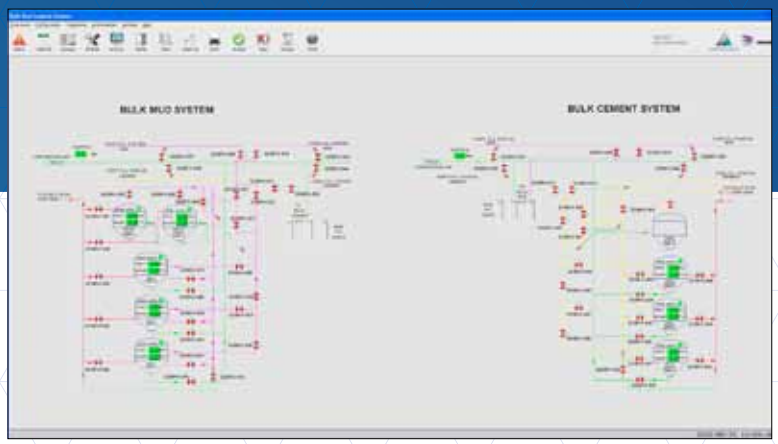
The DeltaMacsII software running on the workstations has modules for:

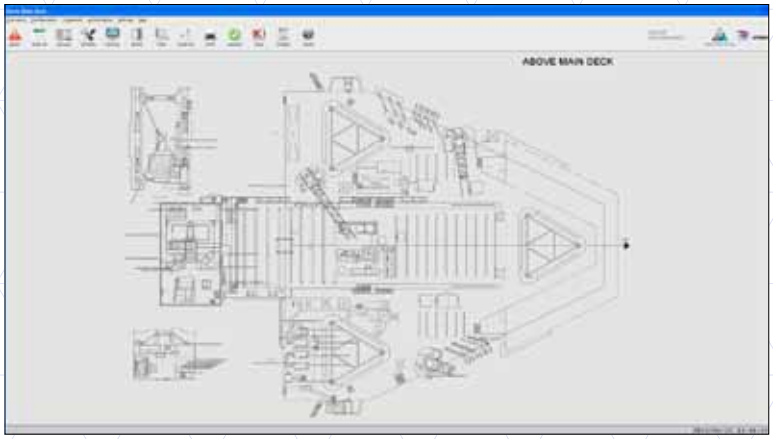
- Tank gauging
- Trending
- Exhaust gas monitoring
- Data logging
- and data communication interface modules

3e Industriestraat 25J
3133 EJ Vlaardingen
The Netherlands
tel +31 10 435 8888
email info@csi-systems.nl
website www.csi-systems.nl

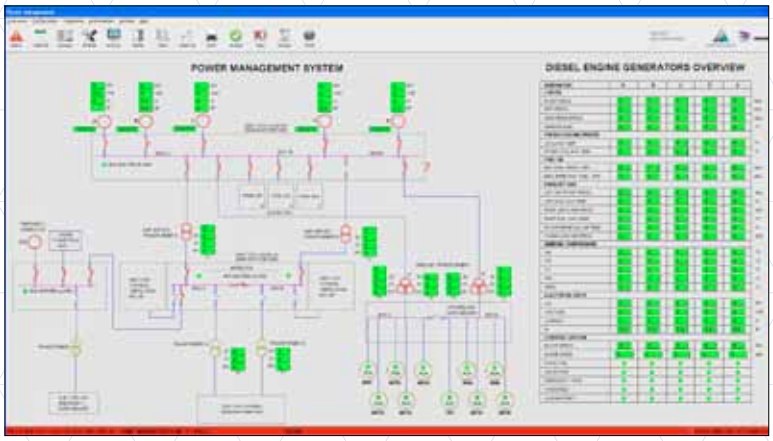
CSI CONTROL SYSTEMS

smart solutions, safe shipping





The basic version of the software covers all alarm monitoring functionality and system configuration. For the jack-up rig a number of customized and detailed mimics have been added, giving a clear visualisation of all the systems mentioned earlier (see example mimic screens). 19" Touchscreens with zooming function provide easy operator control.



Your ships can count on us, any time, anywhere

3e Industriestraat 25J
3133 EJ Vlaardingen
The Netherlands
tel +31 10 435 8888
email info@csi-systems.nl
website www.csi-systems.nl