

# 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



System upgrade March 2018



System upgrade September 2017



## 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 include:

- 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 DeltaMacslI software on the workstations has modules for:

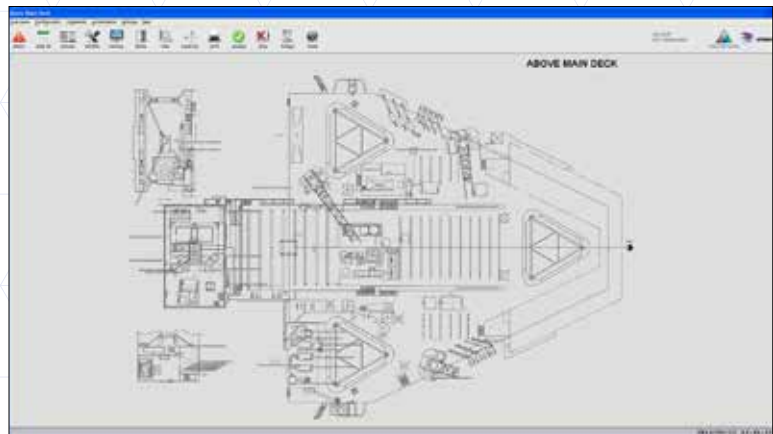
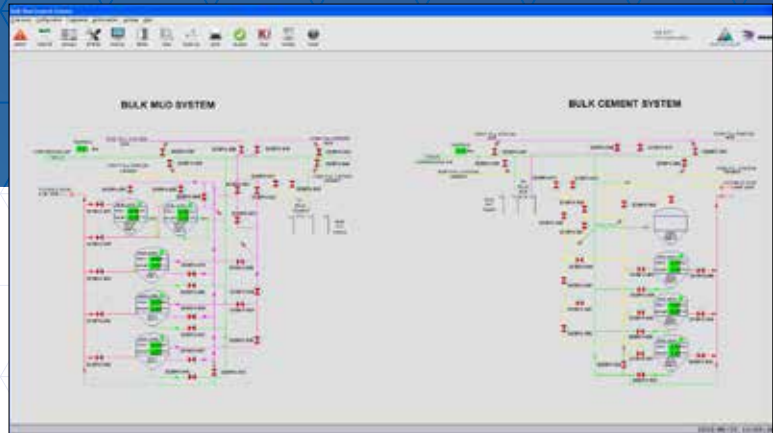
- Tank gauging
- Trending
- Exhaust gas monitoring
- Data logging
- and data communication interface modules

3e Industriestraat 25J  
3133 EJ Vlaardingen  
The Netherlands

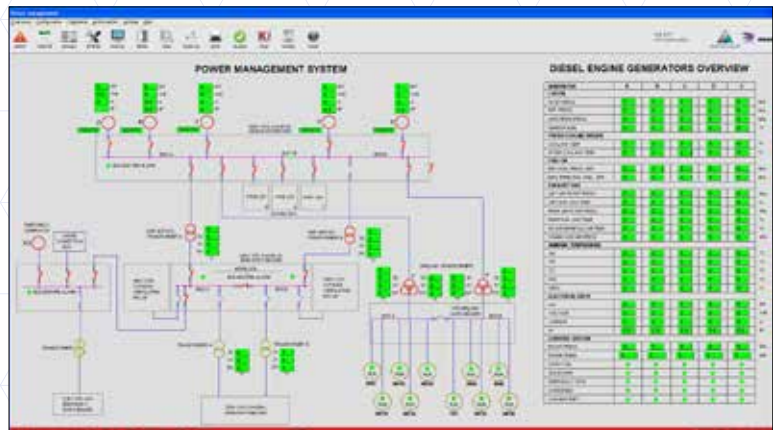
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The basic version of the software covers all alarm monitoring functionality and system configuration. For the jack-up rig a number of customized and detailed mimics have been added, giving a clear visualisation of all the systems mentioned earlier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



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