Mud Control System

STEP Offshore Mud Control System is designed to control and monitor everything from simple pieces of equipment to the complete mud, bulk and solids control system with associated equipment including third party equipment. The Mud Control System is the key element on a “state of the art” drilling rig to ensure proper control of the mud properties.

STEP Offshore AS is a competitive and focused supplier by delivery of high quality systems for drilling fluid applications to offshore oil and gas projects world wide.

We shall provide an effective and efficient project management and supply service to the industry, using the highest quality equipment from the industries most respected suppliers to design and build solutions for specific project requirements.

STEP Offshore’s STANDARD EQUIPMENT covers the basic version with additional options for a specific product. STEP Offshore can, on request, offer a wide range of other variations/options and/or project specific adaptions in order to suit the clients needs and requirements.
General Description – Mud Control System IB01

KEY ELEMENTS:
- Local Equipment Controls / PLC’s
- Local and/or remote IO’s
- IO for safe or hazardous area
- Computer Hardware
- Interface to other systems / third party
- Remote Control of equipment / systems
- Synchronization of various equipment
- Fully automated mode
- Automatic mixing / pre-mixing sequences
- Taylor made to fit any mud process

TYPICAL CONTROLS:
- Bulk storage and transfer, automatic line-up, automatic refill, etc.
- Control of mud additives and mud mixing process, keeping track of chemical’s used etc.
- Automatic density control, weighing/de-weighing of mud
- Centrifuge controls, automatic control of feed pump rate and automatic control of centrifuge parameters
- Shale Shaker controls
- Cuttings Re-injection unit controls (fully automated system)

REPORTING:
- Trending of data
- Logging of historical data
- Logging of rates
- SQL interface

TESTING:
To ensure a minimized test period / commissioning on site all control systems delivered by STEP Offshore will be thoroughly tested in our test facilities. The tests will be performed by connecting IO’s to simulators and field equipment.

DESIGN DATA (STANDARD):
- Weight: Project specific  [kg / lbs]
- Design temperature: -10/50 [C / F]
- Area classification: Project specific
- Electrical supply: 230 VAC / 50 or 60 Hz
- Electrical consumption: Project specific

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DATE: 27.05.2005

NOTES:
01 - STEP Offshore can supply installation supervision (including installation material), commissioning and training on a separate contract.
02 - Documents/Drawings issued to customer are delivered as STEP Offshore standard and will not be subject for comments.
03 - Spare parts can be ordered separately from STEP Offshore’s Operation Division.