

DRILL CABINS



EFC GROUP

SINGLE INSTRUMENTS PUMP STROKE COUNTER SCREEN-BASED MUD SYSTEM EExd ZONE 1 DATA SCREEN REMOTE DATA TRANSMISSION

CABIN REFURBISHMENT

Drilling cabins on 2nd, 3rd and 4th generation MODUs are often inefficient workplaces with cluttered windows, poor rig floor visibility, and imperfect positioning of the key controls and displays.

The result can be unplanned, ad hoc upgrades, contributing to increasingly stressful operations, risking errors and a potential decrease in drilling efficiencies.



Poor Ergonomics



A Cluttered Cabin



- **Planned integrated solution.**
- **Consolidated instruments, CCTV and Third Party Controls.**

- Removing redundant displays
- Re-locating key displays into primary space
- Provision for 3rd party monitors/screens
- Refurbishment/servicing of 3rd party instruments

- Replacing obsolete instruments
- Instrument calibration
- Ensuring certification compliance
- Ergonomic control/instrument placement
- Relocating junction boxes and re-cabling



DESIGNED & CONSTRUCTED
TO OPERATE IN ZONE 1 & SAFE AREAS



DRILL CABINS



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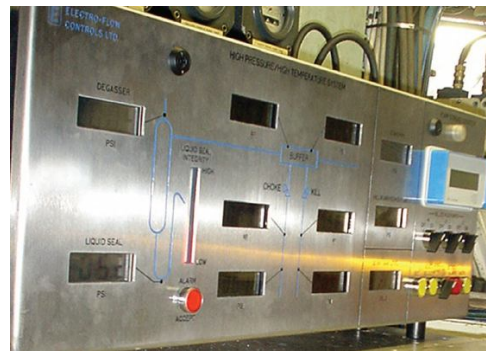
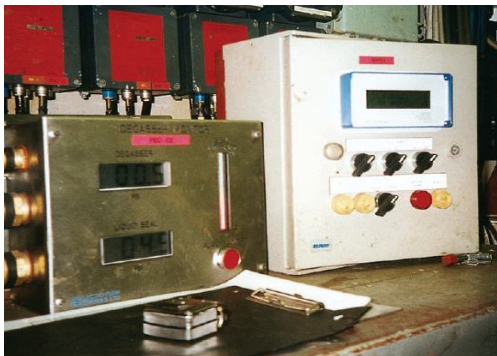
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CONSOLES

In many instances it is possible to re-cycle existing console sections and frameworks, simultaneously improving access and ergonomics.

- Consoles can often be refurbished, re-using the stainless steel front sections and existing frames.
- Instruments and controls can be moved to ideal, primary positions
- Those instruments and controls less frequently required can be re-located
- Console access can be improved for service work
- Ledge space made available for 3rd party monitors/screens
- Cost effective upgrades

Experience shows that a methodical approach to cabin and console refurbishment produces cost effective, modular improvements, which can be implemented in controlled stages as budgets and operations permit.



- Space Efficiency
- Consolidation

Two separate displays consolidated into one new panel with added functions.

TECHNOLOGY

EFC provides all aspects of drilling data acquisition, Zone 1 data screens, data networks, archiving and instrument redundancy. The application of technology extends to the consolidation of the rig's TV Systems with video from derrick, subsea and ROV cameras on one space-saving screen. Other candidates for upgrading -

- | | | |
|--|------------------------|----------------------------------|
| • Choke Controls | • Bulk Tank Controls | • Degasser / Liquid Seal Monitor |
| • C&K Manifold pressure monitoring (high resolution) | • Fire and Gas Systems | • Driller's Intercom |
| | • Alarm Annunciation | • Ballast Tank Monitoring |

NEW CABINS

New cabins are designed according to the same basic ergonomic principles of placing in front of the driller those instruments and controls that are continuously needed, while placing others in secondary locations within the cabin, releasing space for additional functions.

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