

## MTL REPAIR PROJECT MANAGEMENT

### CHALLENGE:

Frequency of tank entry and exit during on-station repair of an operational FPSO places too much burden on CCR operator. An additional person is dedicated to record tank entry in the CCR.

### SOLUTION:

MTL designed switch board system, which automatically relays information via Ethernet connection. Headcount is automatically tallied and displayed on screen in CCR.

### BENEFITS:

- Negates requirement to dedicate person in CCR to log tank entry/exit
- Can utilise existing Ethernet infrastructure
- Automatically tallies head count
- Satisfies requirement for information during an emergency
- Maximises bed space/productivity
- Battery back up in event of power failure

## TANK ENTRY AND EXIT SYSTEM

Automated tank entry and exit enhances efficiency of on-station repair

On-station repair is often a desirable solution in terms of minimising disruption to productivity, however it can place extra burdens on the FPSO crew.

MTL specialise in developing technical solutions to create a safe and efficient work environment while minimising disruption to your on-going operations.

“Automated system reduces burden on CCR operator enabling on-station repair of operational FPSO”

During a tank repair, the Control Room needs to know how many people are in the tank at all times. The frequency of entry and exit means that logging

every movement places too much burden on CCR Operators. The typical solution would be to have an extra person in the control room dedicated to the task of logging people in and out of the tank. However, this means that a bed space is consumed, purely to maintain communication of information that is only required in the event of an emergency response.

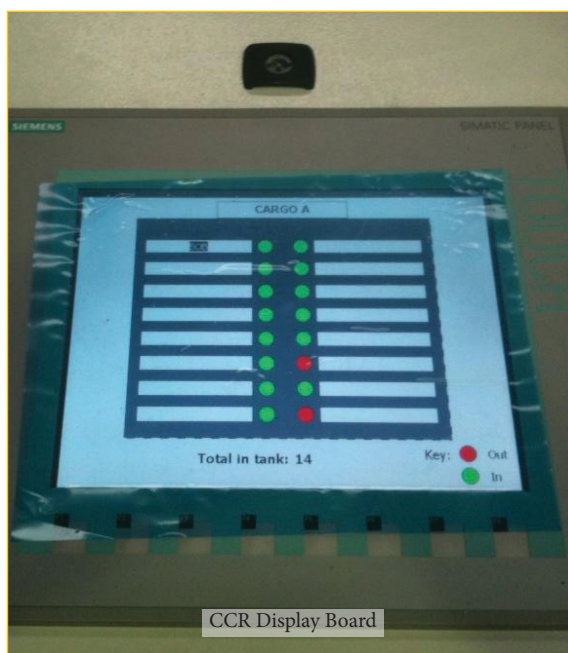
“Productivity is maximised”

In order to free up a bed space and maximise productivity during a repair, MTL have developed a solution that replaces the additional CCR person.

This system could essentially be described as an electronically relayed T-card system, with a remote display screen in the CCR.

“Coloured light display system is universally understood”

At the tank entrance there is a simple entry switchboard system with a red and green light display. Each switch is uniquely ascribed to an individual member of the repair team. When they enter the tank they flick the switch to “In” and a green light is displayed. When they exit the tank, the switch is moved back to “Out”



CCR Display Board



and a red light is displayed. This process is controlled by the tank sentry.

“Risk of human error is reduced”

The entry board is linked to a display board in the Central Control Room through an Ethernet network. Each time a switch is moved on the entry board, it is automatically relayed to the display board which shows who is in the tank and tallies the head count.

The display board is battery backed up so that in the event of power failure, the last screen



Tank Entry and Exit Switchboard

shot is still displayed. The system can also be adapted to operate using swipe cards.

## BENEFITS

All MTL systems are developed with safety as a priority consideration. The switchboard entry and exit system is suitable for use in a Zone 1 hazardous area. It replaces the need for radio communication and someone to record each entry and exit in the control room, thus reducing the likelihood of human error. In addition to this, the system is easy to use and the coloured light system is universally understood.

The other major benefit of this system is that it is a far more efficient way to satisfy the requirement for information in the event of an emergency. By creating a system to automatically relay and record this information, a bed space can be freed up and the burden on the CCR is reduced.

At MTL, the development of new technical solutions and systems of work is founded upon a desire to deliver the best solution for our client. To find out more about how MTL approach the technical challenges posed by FPSOs and the tailored solutions we could offer your company, please visit our website [www.technical-limits.com](http://www.technical-limits.com)

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