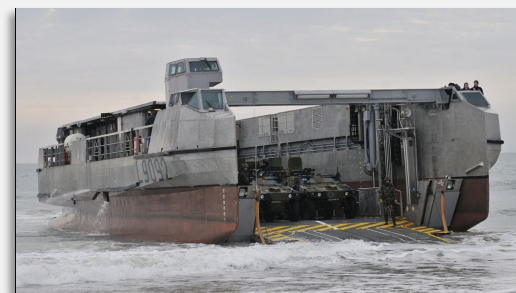




Marine & Offshore Activity





Our Products & Services

- **Electrical Engineering & Studies**
- **Integrated Alarm, Monitoring & Control System**
- **Electrical Propulsion**
- **Full Electrical package**
- **Electrical Installation**
- **Associated project services as well as After Sales Support**



Our Products & Services

- **Design and manufacture LV switchgear (Max 7,800 A), withdrawable type, DB and Console.**
- **Assembly and integration MV switchgear, MV VSD drives panel (1KV to 11KV) and LV VSD drive Panel (Below 1KV)**
- **Total Electrical Power Distribution System complete with System Studies inclusive of Harmonics, Short-circuit & Selectivity Calculation**
- **Power Management System for FPSOs / Jack up Rigs / Vessels**
- **Marine System for auto Telephone, CCTV, PA, Rudder Angle Indication**
- **Jacking Enhanced Monitoring and Control System for lift boats**
- **Generator Control Panels**



Our Service Network

➤ **CMR Group HQ FRANCE** - Marseille

➤ **CMR GROUP KOREA** - Busan

➤ **CMR Group PHILIPPINES** – Manila

➤ **CMR GROUP INDIA** - Pune

➤ **CMR Group TUNISIA** - Tunis

➤ **CMR Group UK** - Newcastle

➤ **CMR Group US** - Pittsburgh

➤ **CMR Group CHINA** - Suzhou

➤ **CMR Group FAR EAST** - Singapore





CMR 8PT LV Main Switchboard



MV Transformer



AC Variable Speed Drive



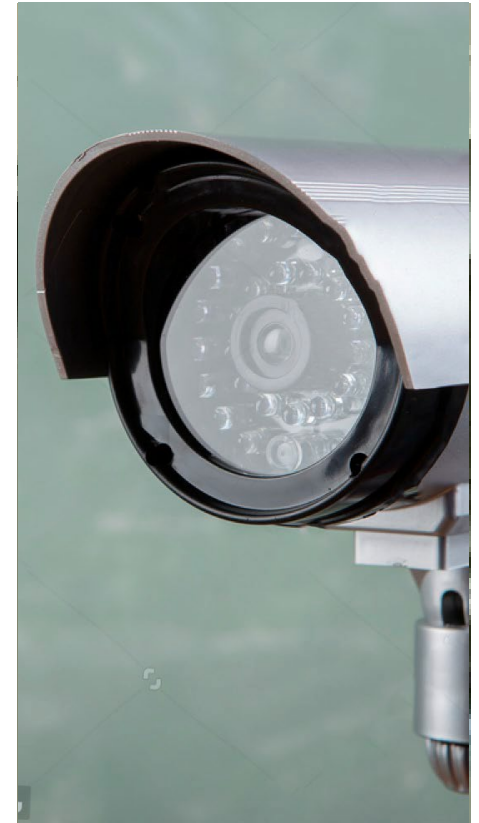
Vessel Integrated Automation



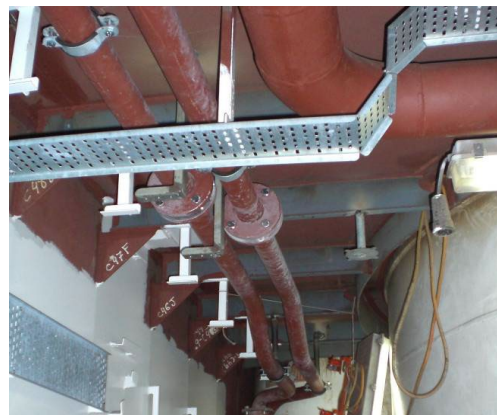
Propulsion Control System



Auto Telephone

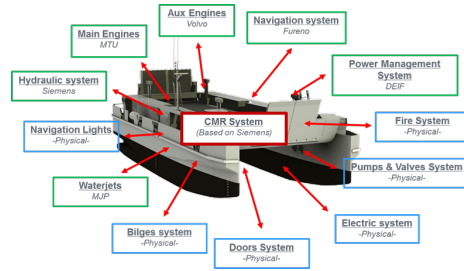


Marine CCTV System



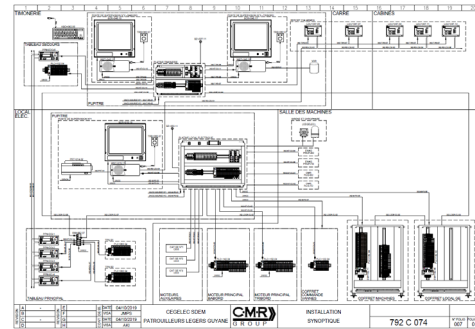
On Site Installation

EDA-R : 4 Vessels



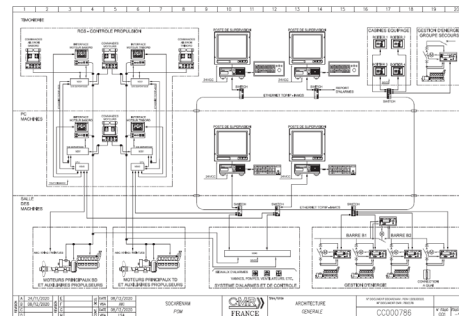
- IPMS inclusive of Total System Study

PLG : 3 Vessels



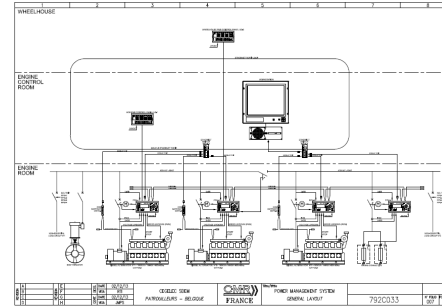
- IPMS inclusive of Total System Study + Cyber Security

POM : 6 Vessels (Ongoing)



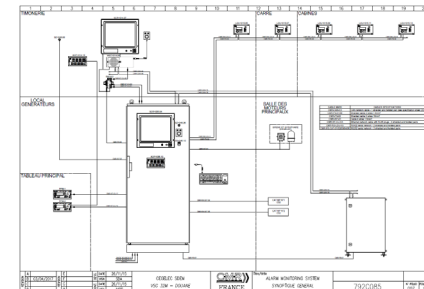
- IPMS inclusive of Total System Study + Cyber Security

➤ Belgian Navy : 2 Patrol Vessels



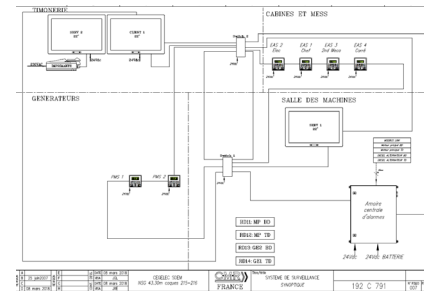
- **AMCS** inclusive of Total System Study

➤ French Customs : 7 Speedboats (4x 28m & 3x 32 m)



- **AMCS** inclusive of Total System Study

➤ French Customs : 3 Patrol Vessels



- **AMCS** inclusive of Total System Study

➤ Portuguese Navy : 2 Patrol Vessels



&



- Electrical Installation
- Electrical Package

➤ Korean Navy : 6 Minesweepers



- Engine Control System inclusive of Total System Study – Choc tests

➤ Royal Moroccan Navy : 5 Patrol vessels



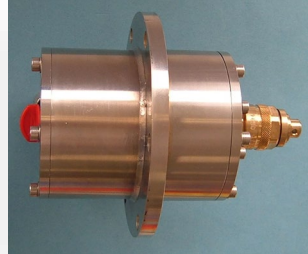
- Engine Control System inclusive of Total System Study – Retrofit installation

NAVAL
GROUP



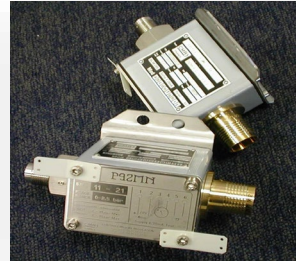
**Smart temperature
transmitter: SYLVER**

NAVAL
GROUP



**Pressure switch PST51 :
Missile launch Silo SNLE**

NAVAL
GROUP



**Smart pressure transmitter :
Conventional & Nuclear
submarines**

NAVAL
GROUP



**Temperature Transmitter :
Conventional & Nuclear
submarines**

NAVAL
GROUP



Scorpène

(2 India & 2 Malaysia)



AUTOMATED SYSTEM for TORPEDOES HANDLING



NAVAL
GROUP



HHS "Helicopter Handling System"

Jurong Shipyard Hull No. H1064 9699DWT Cable Laying vessel for “ASEAN Cable Ship Pte Ltd”



Electrical Turnkey Project Inclusive of Total System Study

- LV Main Switchboard
- LV drawout Switchboard
- 6.6kV MV Main Switchboard
- 6.6kV MV Transformer
- Variable Speed Drive Panel
- Thruster Motor
- Auto Telephone

Class: LRS

SMB – FPSO XIKOMBA



440V AC Switchboard / MCCs / 220V AC Distribution Panels

- LV Main Switchboard
- LV Essential Switchboard
- LV Auxiliary Distribution Panel
- LV DB
- LV Emergency Switchboard
- Topside LER Room LV Main Switchboard

Class: ABS

KFELS B251 MAERSK Explorer, Semi-submersible Drilling Rig



Electrical Turnkey Project Inclusive of Total System Study

- 2300k VA Transformer
- 600LV Main Switchboard c/w SCR
- 440V Main Switchboard
- 440V Harmonic Filter
- 440V Heater DB
- 440V DB
- 440V Emergency Switchboard
- 440V Pump Rm MCC
- 400V Vent Rm MCC
- 300k VA Transformer
- 220V Emergency Switchboard
- 200V Main Switchboard

Class: ABS

KFELS B260 – NDC Jack-Up rig



Electrical Turnkey Project Inclusive of Total System Study

- 480V LV Main Switchboard
- 480V Vent & Auxiliary Switchboard
- 220V LV Main & Emergency Lighting Switchboard
- 600V VFD Panel

Class: ABS

Baker A3001 Multi Purposed Self Propelled Liftboat



Electrical Turnkey Project Inclusive of Total System Study

- 1500k VA Transformer
- 690V LV Main Switchboard
- 690V LV Thruster VFD
- 690V LV Thruster Motor
- 440V LV Main Switchboard

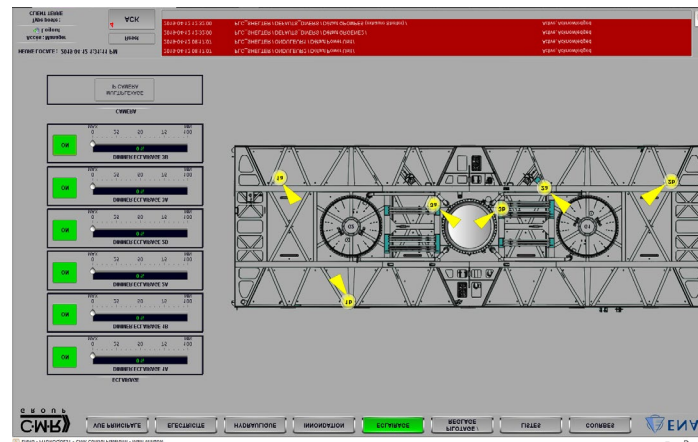
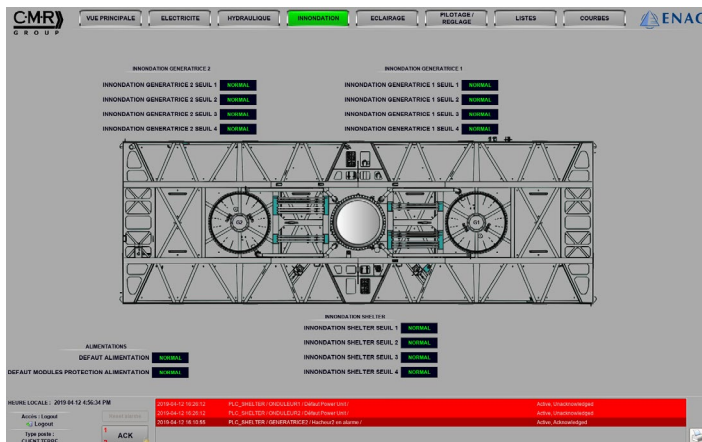
Class: ABS

Hydroquest Turbine



Integrated Automation Control & Supervision System

- Location : Cherbourg France
- Customer : ENAG
- Project : Integrated Control System
- Test in real conditions



Class: BV

Complete suite of Process Switchboards for Petrobras Mero 2 FPSO



Client: SBM Offshore Monaco

Delivery date: January 2021

Rated Power: 690 V AC

Short circuit withstand: 100kA

**Arc test withstand: 80kA @
300ms**