

A Vision for the Year

Gregor Scott
Ocean Installer

NOI.II / OCEAN
INSTALLER
EST/ OI.OI.II



AGENDA

/ INTRODUCTION

/ NIGERIA FIRST

/ THE NORTH SEA AND BEYOND

/ BACK TO AFRICA

/ QUESTIONS



Ocean Installer

- *At a glance*

TRACK RECORD

ESTABLISHED CUSTOMER RELATIONS
WITH MAJORS



ASSETS

NORMAND VISION+ CHARTERS



ORGANISATION

7 OFFICES
6 REGIONS OF OPERATIONS
200 CORE EMPLOYEES



HSEQ

GLOBAL STANDARDS, GLOBAL
PERFORMANCE



CAPABILITIES

EPCI, SURF, MOORING, IRM



Normand Vision

- *Vessels – CSV Normand Vision*

Long-term charter from Solstad

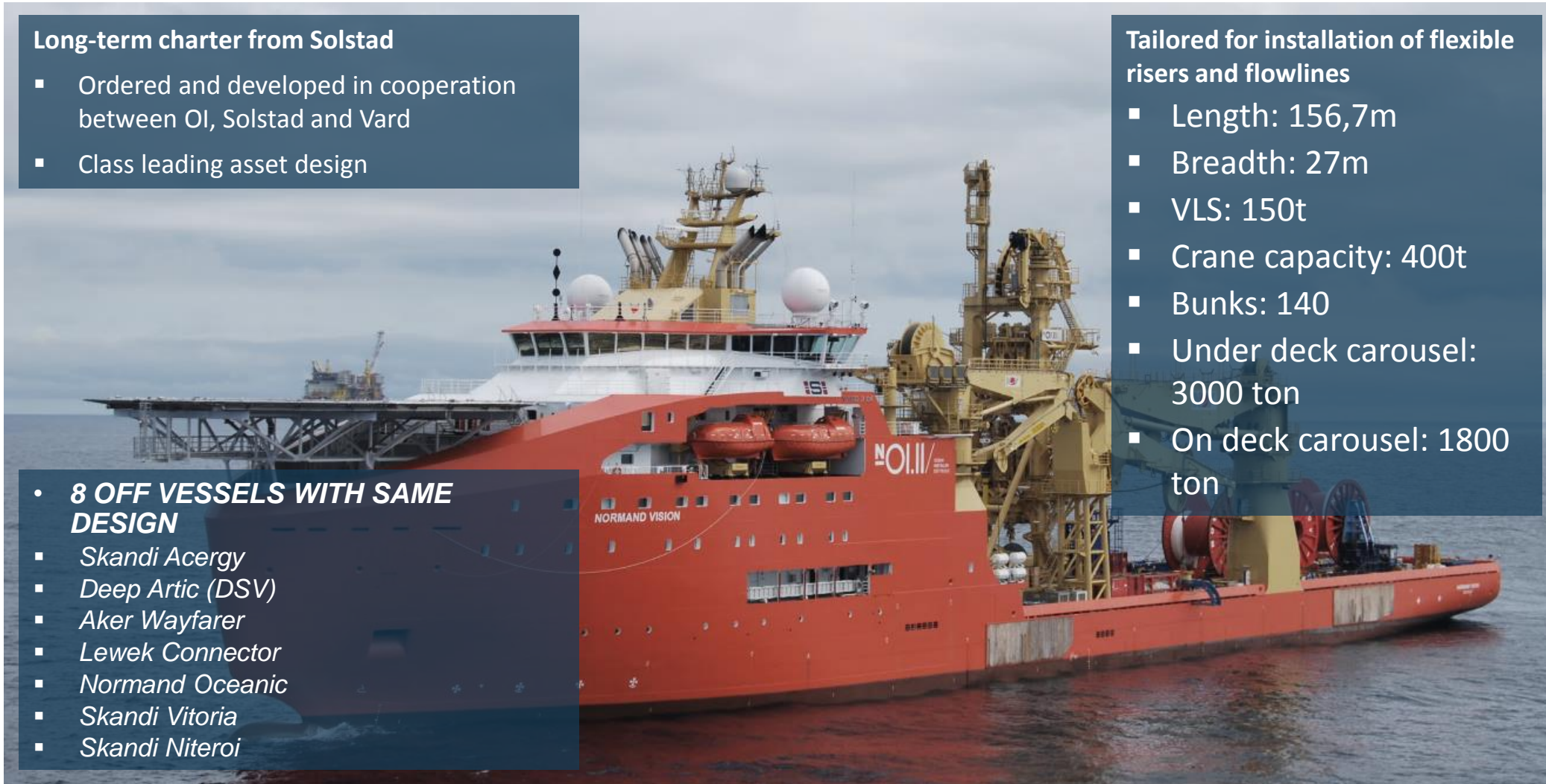
- Ordered and developed in cooperation between OI, Solstad and Vard
- Class leading asset design

Tailored for installation of flexible risers and flowlines

- Length: 156,7m
- Breadth: 27m
- VLS: 150t
- Crane capacity: 400t
- Bunks: 140
- Under deck carousel: 3000 ton
- On deck carousel: 1800 ton

• 8 OFF VESSELS WITH SAME DESIGN

- Skandi Acergy
- Deep Artic (DSV)
- Aker Wayfarer
- Lewek Connector
- Normand Oceanic
- Skandi Vitoria
- Skandi Niteroi



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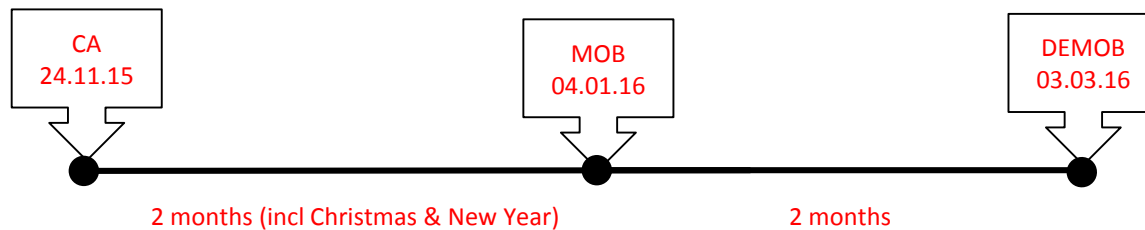
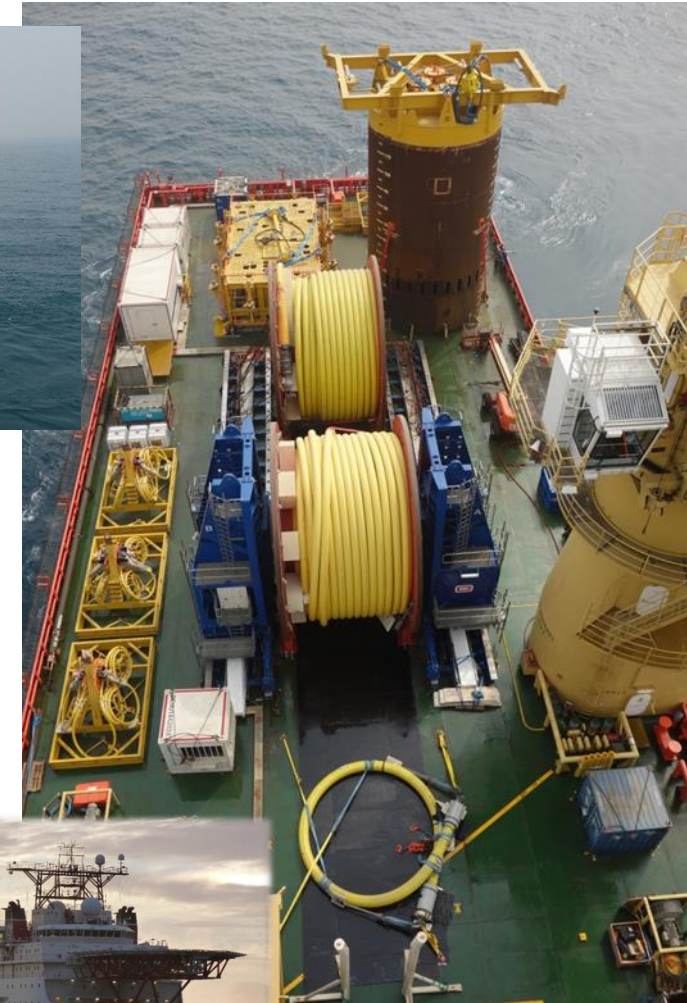
/ QUESTIONS



Nigeria First

- *OI's First African Project - Aje*

8 x anchors / mooring chains
 1 x STP buoy system (APL Asia)
 1 x manifold & suction anchor foundation
 1 x 4" 3km flexible gas lift flowline/riser
 1 x 8" 3km flexible production flowline/riser
 1 x 115mm OD 3km umbilical, UTA, mudmat & stand
 4 x flexible jumpers
 11 x Flying Leads



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The North Sea and Beyond

- *Statoil SLMP*



The North Sea and Beyond

- *Kraken Mooring Remedial work*
 - RE-INSTALLATION OF 2 MOORING LEGS
 - REPOSITIONING OF 2 MOORING LEGS
 - NORMAND VISION AND NORMAND INSTALLER WORKING SIMULTANEOUSLY



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MOHO NORD DEVELOPMENT

Client: TOTAL

Ownership: TOTAL (~53.5%) – Operator
Chevron (~31.5%)
Société Nationale des Pétroles du Congo (~15%)

Location: 75km SW of Pointe Noire – Congo

Water Depth: 750 – 1,200m

Subsea Infrastructure:

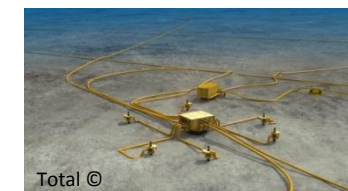
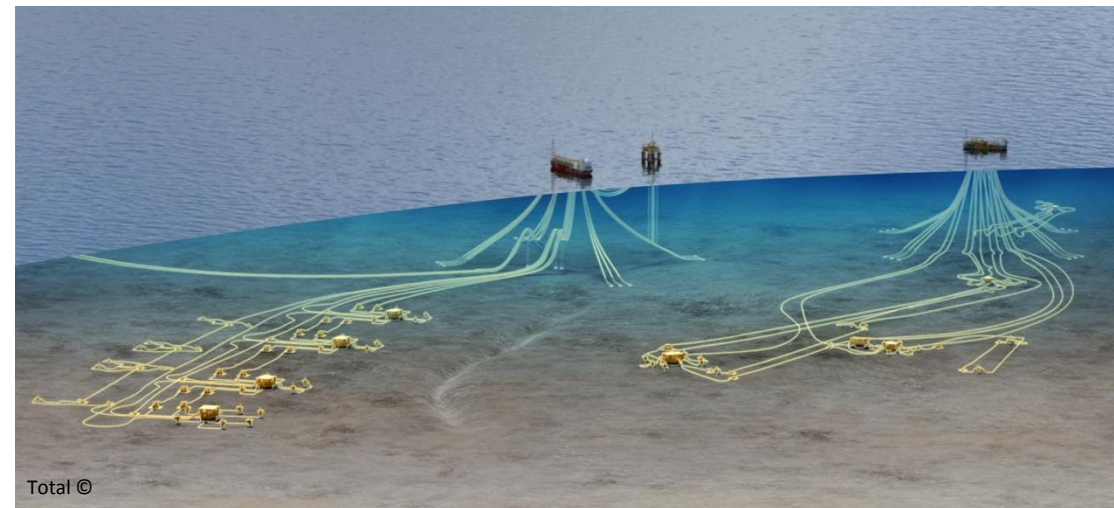
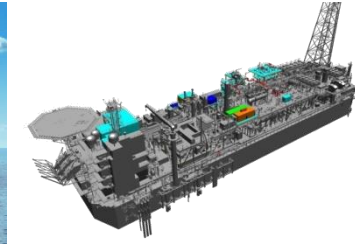
- 28 Subsea wellheads tied back to FPU's
- 17 additional wells from new TLP

Production capacity: 140,000 b/d

Moho Phase 1 Bis Scope:

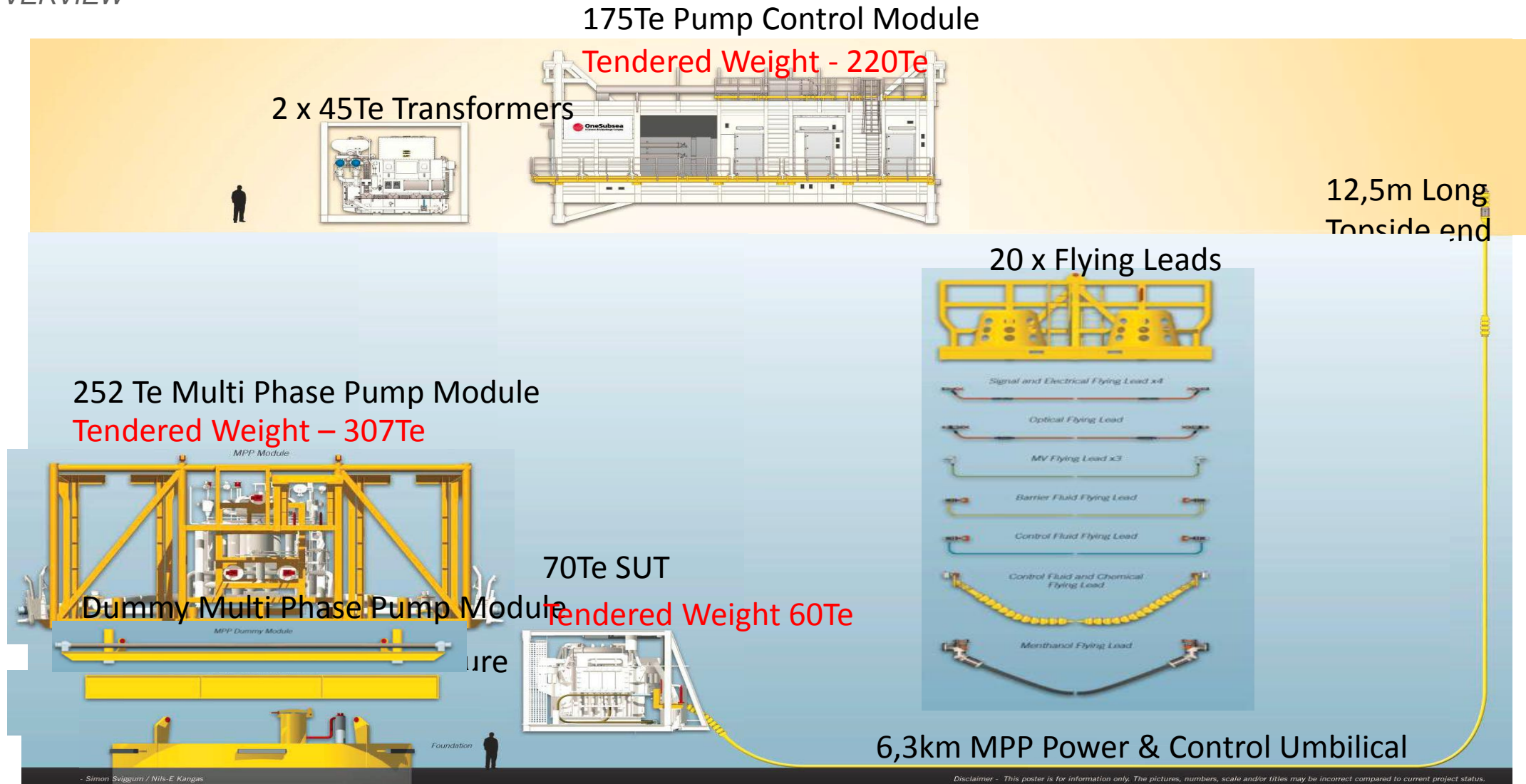
- Extension of Moho Bilondo subsea development
- Tied back to Alima FPU

Ocean Installer won the MPI Contract



MOHO NORD CPI

OVERVIEW



Equipment Overview

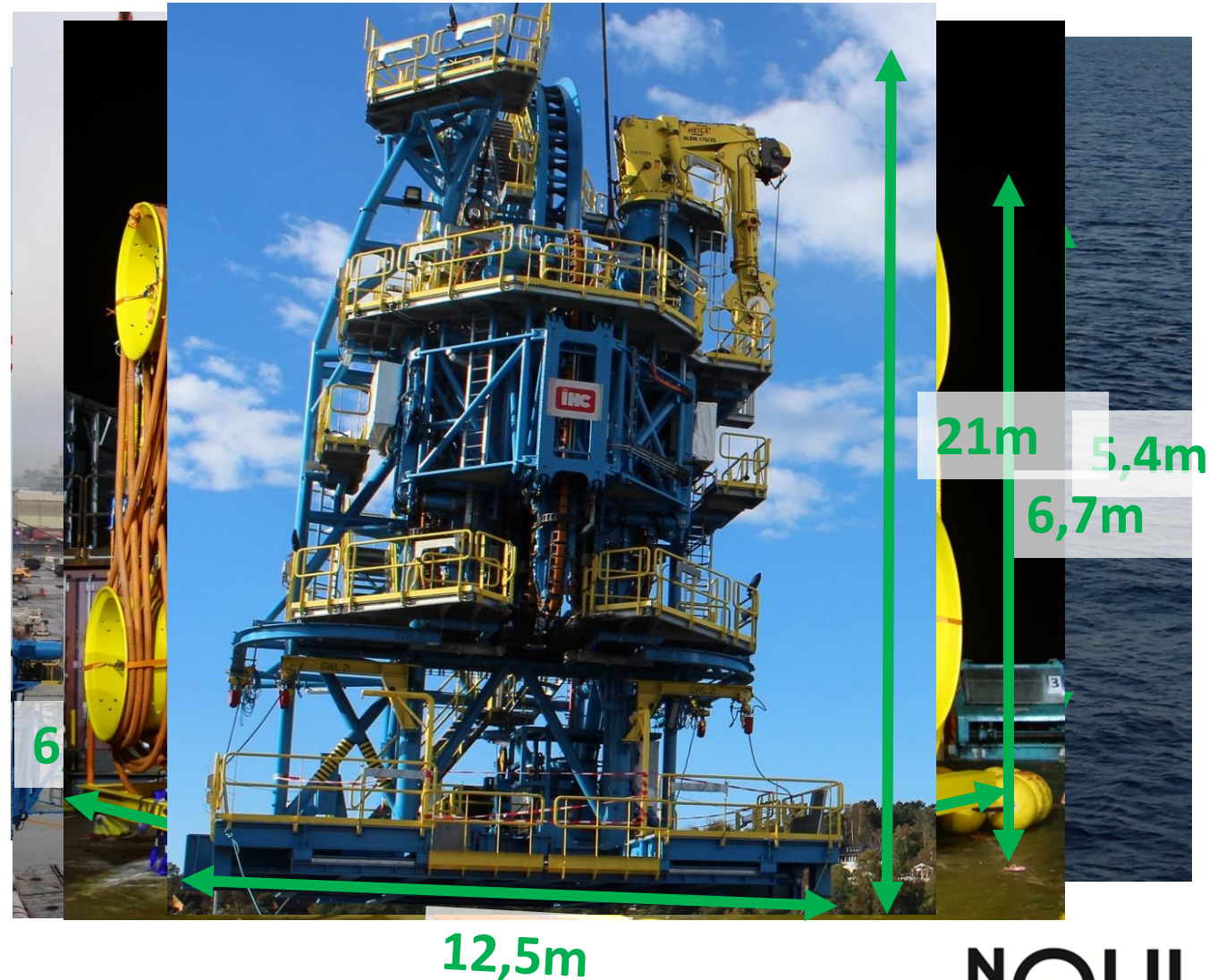
Installation & Tooling

Installation

- 2 x I/O Transformers
- PCM (Pump Control Module)
- MPP Umbilical
- MPP module
- 20 x Flying leads

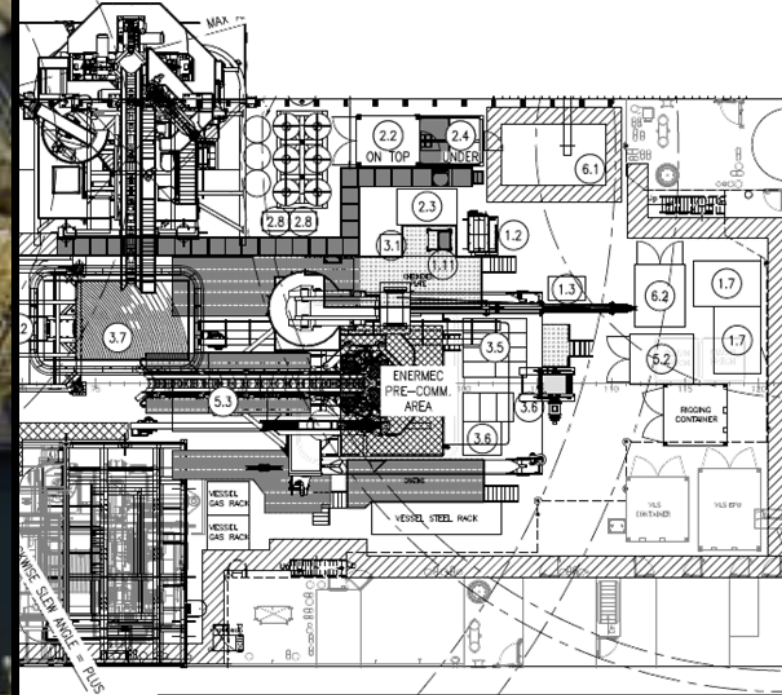
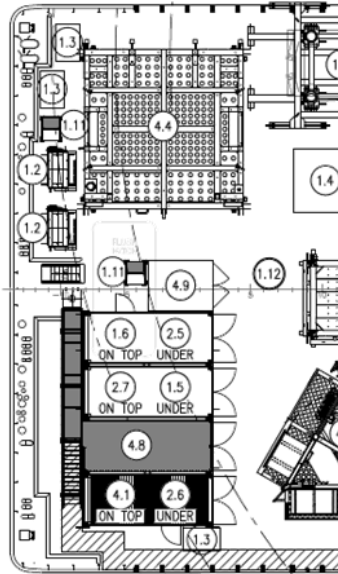
Project equipment

- Project side VLS
- Project rigging & tools
- Horizontal connection system
- Survey
- Precommissioning



Deck Plan

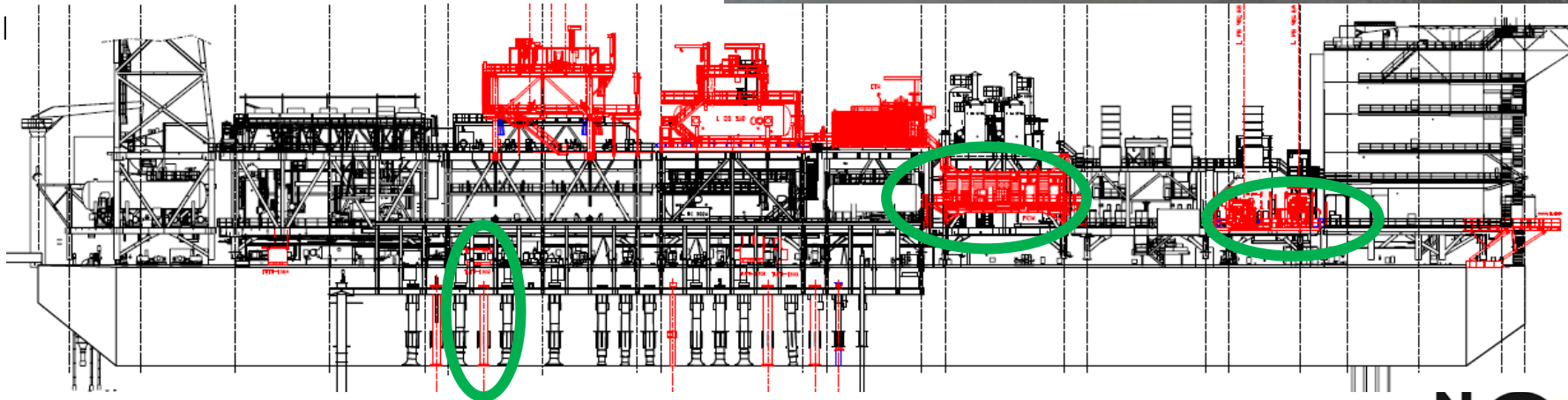
Deck Overview



INSTALLATION SITES

FPU Alima

- Location: Moho Nord Field – Congo
- Moored on fixed heading (12 Mooring lines)
- L: 188.5m
- B: 34m
- Slot 5: Umbilical Pull-in
- M41C: PCM Installation
- |





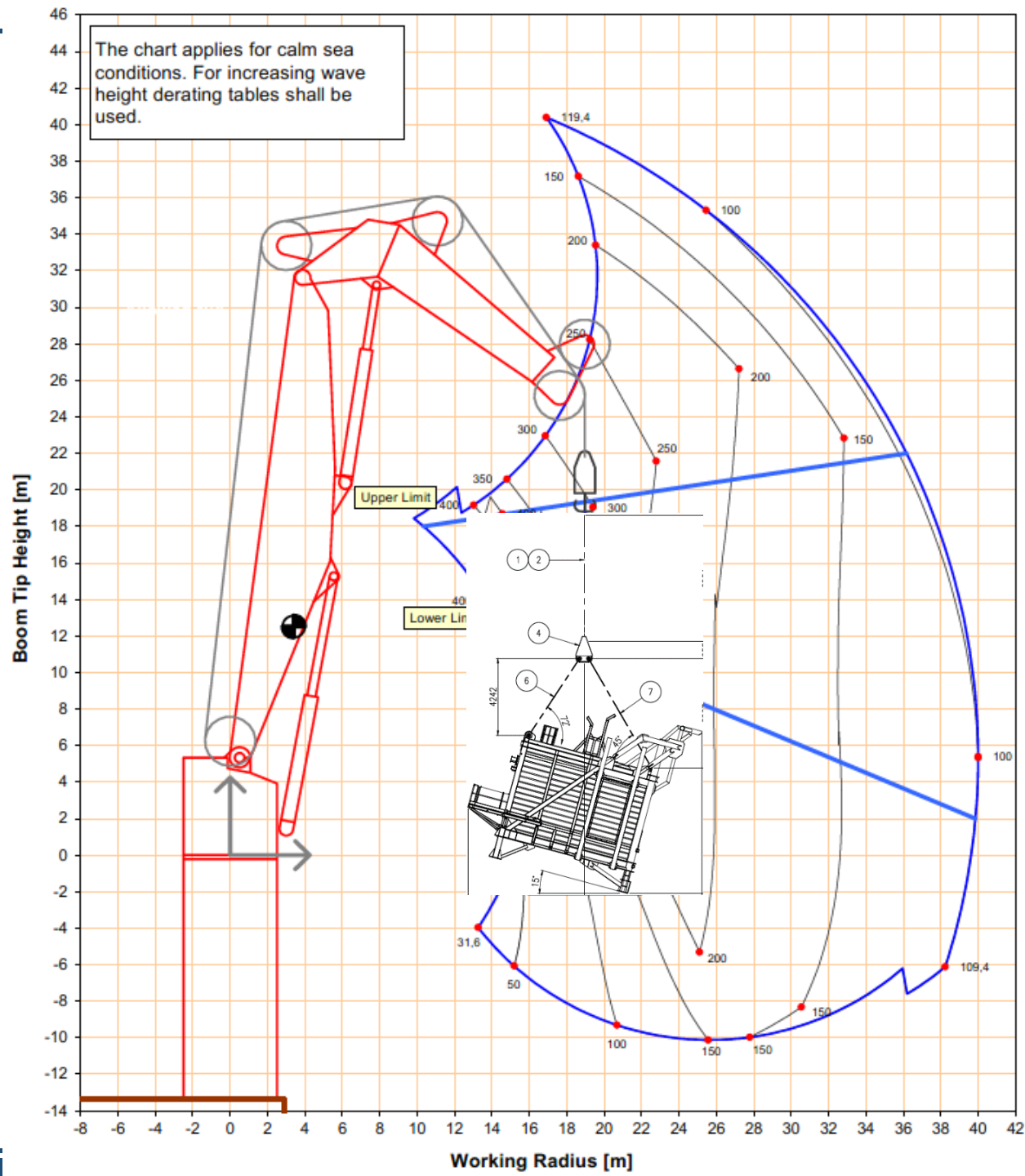
PCM INSTALLATION

PCM Installation

Overview – PCM Lift

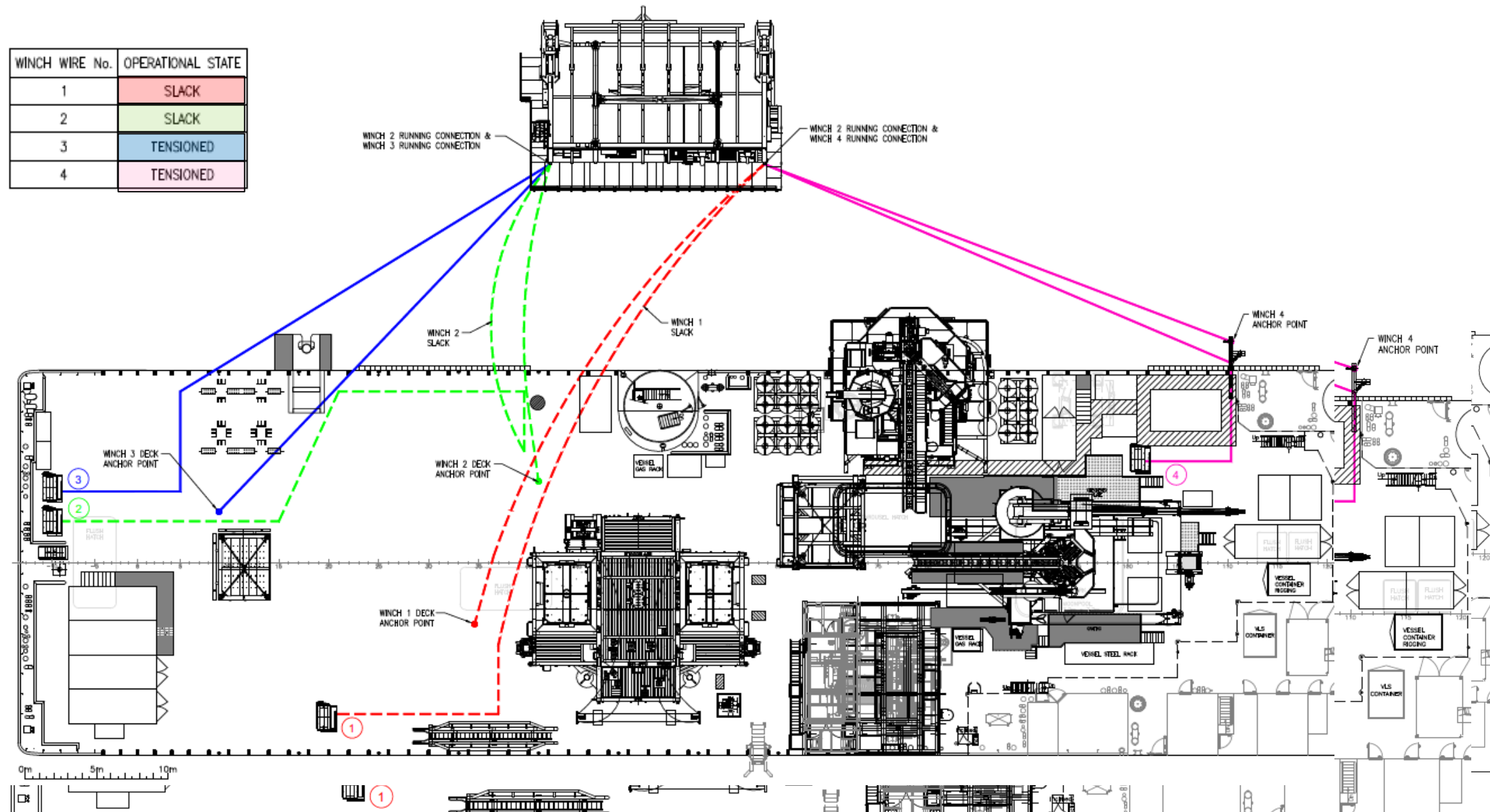
Crane Curve – Sealift Mode

- Radius – 19m
- Available Lifting Height – 38.5 m
- Capacity – 265 Te
- Utilisation (Dyn.) –



PCM Installation

Overboarding Sequence



Simulation

F1 Technology



SIMULATIONS

Full System Check

- Real time simulation
- Vessel crew
- Operational experience
- Crane and Moored FPU simulation
- Crane Controls as per vessel
- Tugger functionality as per vessel



INSTALLATION

PCM operations







MPP INSTALLATION

Umbilical Operations

Product loadout



MPP UMBILICAL INSTALLATION

Sim Vrs Installation





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