OUTLINE SPECIFICATION – eCSOV



Zero Emission Commissioning Service Operation Vessel



Zero Emission Commissioning Service Operation Vessel eSOV

Bibby's new vessel will set a new benchmark in the offshore Walk to Work (W2W) market, delivering unmatched reductions in emissions and fuel consumption.

Equipped with a market leading battery system and a methanol fuel system, it will be the world's first truly zero emission SOV, capable of operating on battery power alone for extended periods.

Designed from the ground up for zero-emission operations:

- Large 24.4MWh battery with a DC power system
- DP2 capability (with closed bus-tie qualifier)
- Offshore charging ready
- Premium accommodation and outfitting
- Best-in-class mission equipment
- 'Digital Ready' with AI integration



Key Features

Purpose designed dual fuel methanol battery hybrid vessel, designed for maximum efficiency and redundancy

Spacious, high-end accommodation for 120 personnel in 84 cabins, certified to DNV Comfort Class COMF (V2, C2).

Large working deck and spacious warehouse with side and top access via hydraulic doors/hatches

DP2, with closed BUS notation "DYNPOS AUTR-CB" and DC Switchboard solution

Fully Methanol ready at delivery (installed & Commissioned), acc. DNV "LFL Fuelled" notation with two large Wartsila dual fuel fixed speed engines for flexible operations

Large 24,400 kWh LFP ESS, divided into a three-split system, with offshore and onshore charging capabilities

Full Kongsberg propulsion package, featuring Rim Drive propulsion units for optimal efficiency

Advanced Mission Equipment:

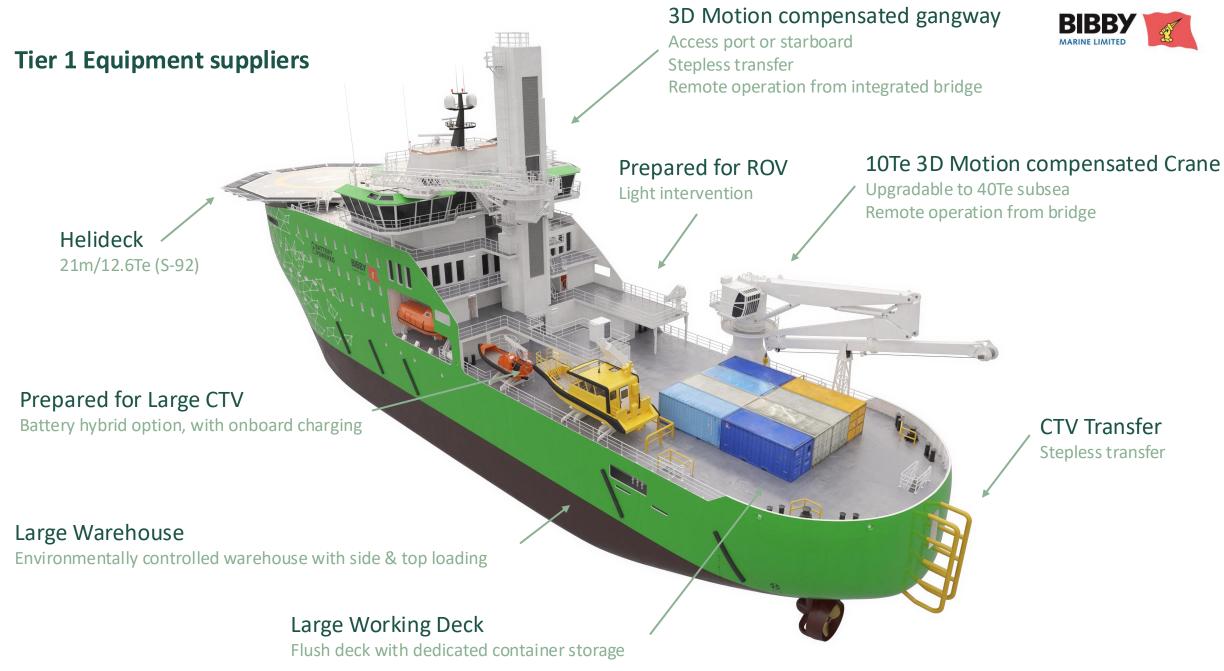
- SMST 3D Motion compensated Gangway,
- SMST 3D Motion compensated Offshore crane 10Te, upgradable to 40Te subsea AHC

Large Helideck, "T" value - 12.6Te, "D" Value - 21.0m (Sikorsky S-92)

Future-ready, with provisions for:

- Prepared for Hybrid Daughter craft integration
- Prepared for ROV integration





Vessel Specification



Main Particulars

Length Overall 89.63m
Breadth Moulded 19.80m
Depth Moulded 7.55m
Draught (Design) 5.00m
Gross Tonnage 6773Te

Capacity

Fuel oil (MGO) 501 m3
Fuel oil (Methanol) 450 m3
Fresh water 270 m3
Warehouse area 535 m2
Cargo deck area3 500 m2
Deadweight 2283 t

<u>Flag</u> UK

DNV Class Notations

+1A Windfarm Service, **Battery Power**, E0, **LFL Fuelled**, DYNPOS(AUTR-CB), COMF(C-2, V-2), SPS, Walk2work, Clean (Design, Tier III), Cyber Secure (Essential), LCS, BIS, Strengthened(dk), Smart(EEN), BWM(T), ER(SCR), HELDK(SH), Recyclable, Shore power, NAUT (OSV)

Trial speed

13.0 knots at 5.0 m draft in calm weather and with clean hull 10 knots at 5.0 m draft, eco speed

DP Capability

Kongsberg
DP Capability according to DNV-ST-0111
(9,7,8,6)

Engine & Propulsion:

Wartsila
6L32, Dual Fuel Methanol
Main gensets (Fixed speed)
2 off 3480 kw @ 750rpm, 50hz
Combined Power of 6800 kw(e)

Energy storage system:

Corvus Energy Lithium Iron Phosphate (LFP) 24,400 kWh Split across 3 compartments

Main Propulsion:

Kongsberg
2 off 2000 kW RIM Drive Main Azimuth Units
2 off 1500 kW RIM Drive Tunnel Units
1 off 1200 kW Retractable Unit







Walk 2 Work Gangway



Maker: SMST TAB-L1 + Access & Cargo Tower

Internal Width: 1,200mm
Load Capacity: 850kg
Elevator Capacity: 2,000kg

Parking Location: Wheelhouse Top

Winch at Tip: 1,000kg, 3D Motion Compensated

INDICATIVE WORKING RANGE STORAGE POSITION INDICATIVE WORKING RANGE

• Operation Side: Port and Stbd Side

• Control Positions: Port BW (W2W), Stbd BW (W2W & Crane)

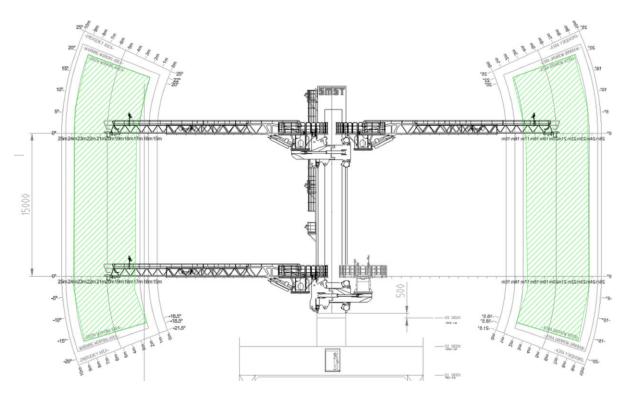
• **Cursor Height:** 13 – 28m (horizontal from waterline)

• Gangway Tip Height: @+/- 5degrees 30m & 11m

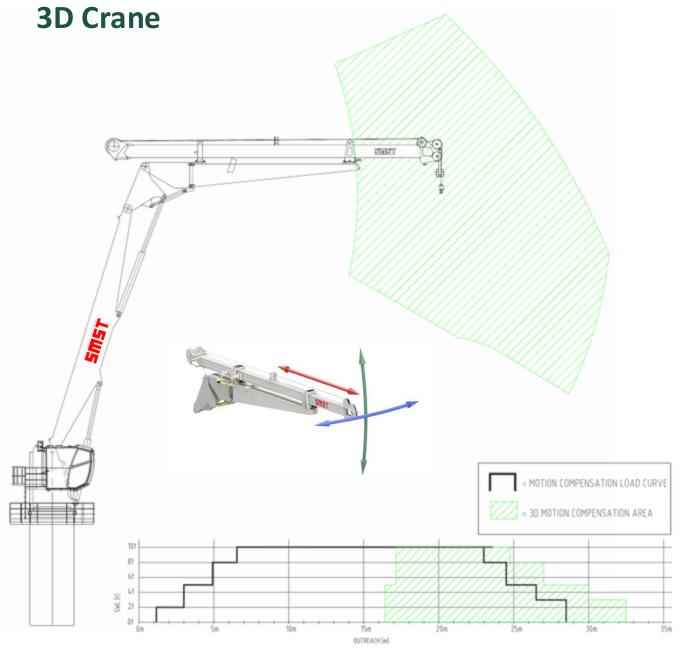
• Gangway Length: 28.9m from Centreline

Slewing Range: + 240 degrees (with articulating cursor)

• Luffing Range: +25 / -21.5degrees



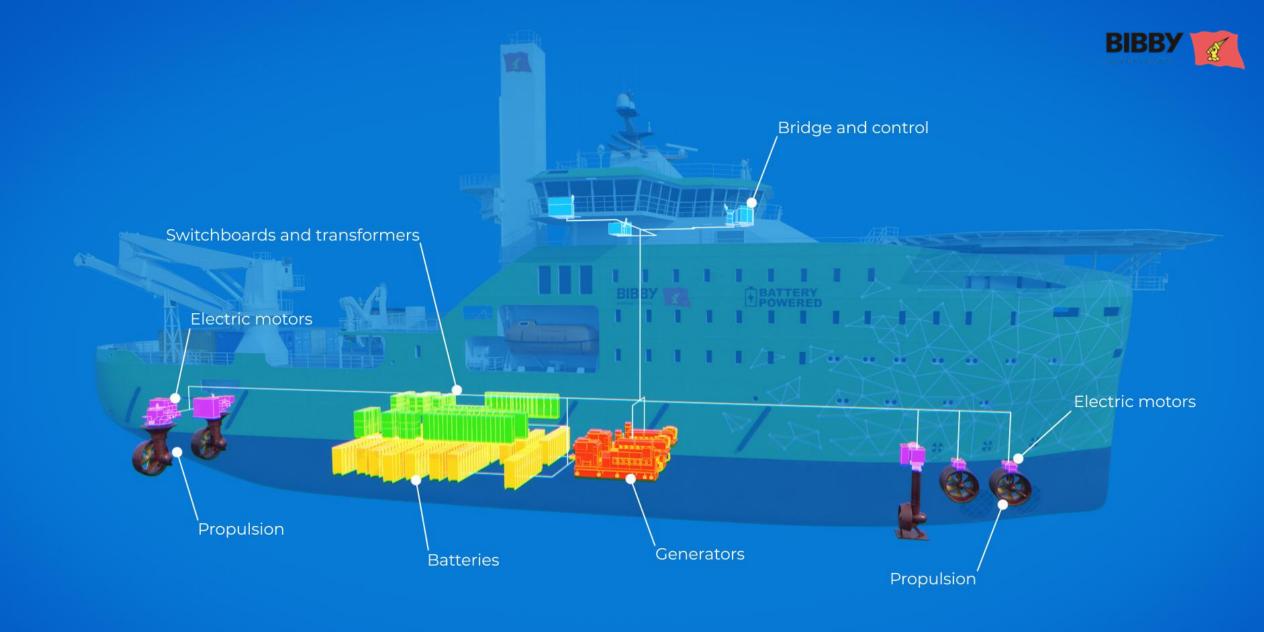






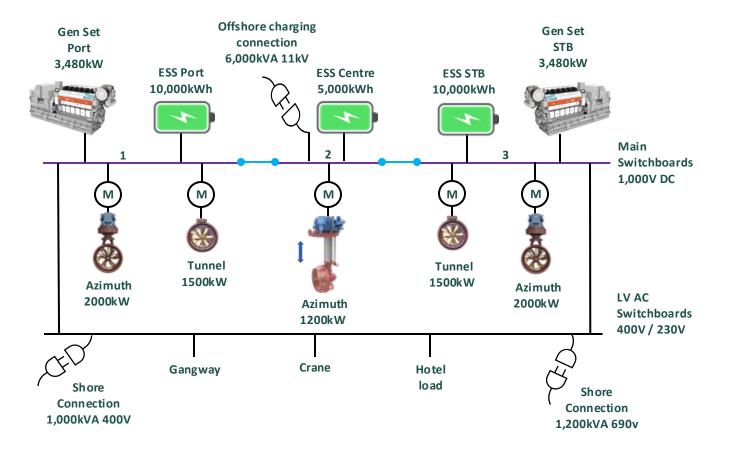
- Maker: SMST L Type Knuckle Boom
- 3D Comp Load Capacity: 1,000kg 10,000kg
- 3D Comp Working Radius: 10,000kg @ 24.7m, 5,000kg @ 30m,
 - 3,000kg @ 32.5m
- Harbour Load Capacity: 20,000kg
- Harbour Working Radius: 20,000kg @ 19.5m, 6,000kg @ 34.5
- Hook Travel: 70mLocation: Starboard
- Control: Remote from Stb Bridge Wing station (W2W & Crane)
 - Operators Cabin Remote Control
- Other: MOPS & AOPS
- Option: Crane upgradable to 40,000kg subsea AHC





Electrical distribution





Configuration

- Purpose designed power system for maximum flexibility and efficiency
- ESS designed as primary power source
- Dual Fuel Methanol Gen sets operate at constant speed/load to charge ESS
- Designed to operate in closed Bus-tie configuration
- Open Bus-tie operation possible with no loss of capability or fuel consumption
- Battery packs are electrically and physically divided into a three-way split for enhanced redundancy and safety.



Zero Emission Operation



Average Power Required/day 17MWh

>20 Hour battery endurance in good weather (1.5Hs),

>18 Hours @ 2.5HS

>15 Hours @ 3.5HS

Full charge = Transits over 100NM @10kts

Dual Fuel Engines ready to come online for safety/emergencies

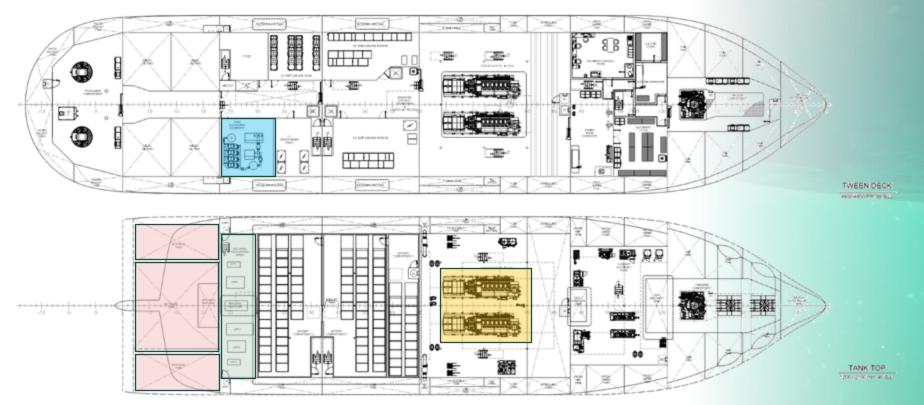
Connected to charger at night



Methanol Fuel

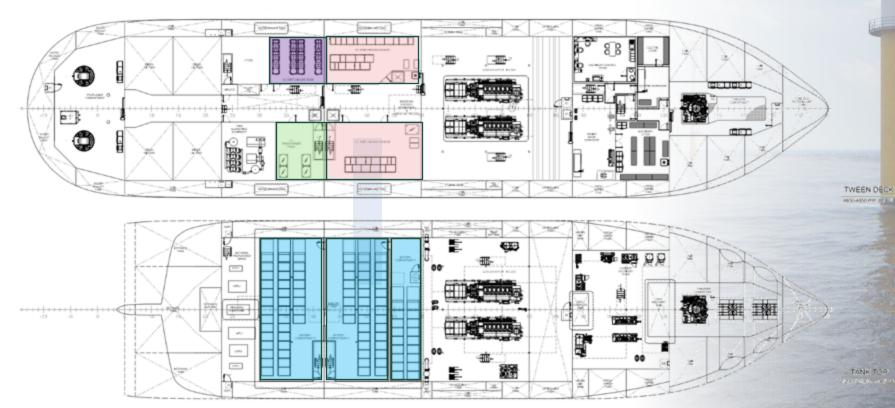
BIBBY WARINE LIMITED

- Separate Methanol Fuel tanks with 30 days endurance
- Dedicated Fuel Preparation Room
- Nitrogen generator
- Methanol Engines
- Fixed foam firefighting systems (Bilges etc)
- Fire & Gas detection
- Atex areas with double walled pipe



Power Arrangement & Batteries

- DC Switchboard Rooms Port & Starboard
- AC Switchboards
- Transformers
- 3x Battery Compartments
- Dedicated Battery Fire Fighting (CO2 total flooding & Water Mist)





Design Focus comfort for crew and passengers

- High end outfitting standard
- Open and bright spaces and recreation
- Ergonomics and flow
- Minimising Noise & Vibration Comf C(2)V(2)
- Separation of working areas from sleeping and social spaces
- High Speed internet & Cabin Entertainment system

Persons On Board (POB)

Max 120 Persons onboard with maximum flexibility in configuration:

- Single occupancy 84 Persons
- Single and Double occupancy 120 Persons
- Crew Capacity 24
 - 2 x Single Senior Officer Suites
 - 22 x Single Crew
- Client Capacity 60/96
 - 2 x Single Client Rep Suites
 - 58 x Single Client Cabins

OR

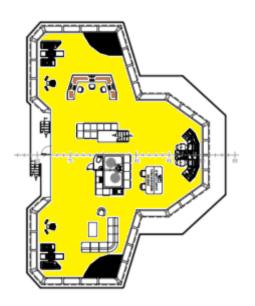
- 2 x Single Client Rep Suites
- 22 x Single Client Cabins
- 36 x Double Occupancy Cabins (Pullman bunk style)



Bridge Deck

- Fwd Nav + DP Console
- Pt & Stbd Bridge Wing DP Consoles
- Pt Side W2W Workstation
- Stbd Side Combined W2W & 3D Crane Workstation
- Client Workspace
- Comfortable Lounge Area
- Coffee Area

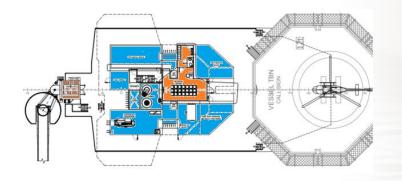






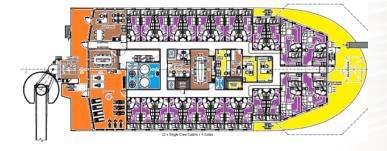
<u>05 – Deck</u>

- Heli-Reception Lounge
- Electronic Equipment Rm
- Heli-Deck Stores
- Heli-Suit Storage
- Technical Spaces



<u>04 - Deck</u>

- 4 Cabin Suites
- 22 Single Cabins
- 1 Capt & C/E Office
- 1 Conference Room
- 1 Client Printer Room
- 2 Client Office (1 with Panoramic view)
- 1 Client Meeting Rm
- 1 Gymnasium (with Panoramic view)
- Clients Lockers and Store Rooms







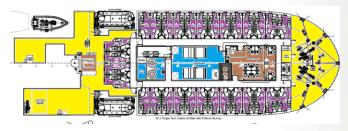
03 - Deck

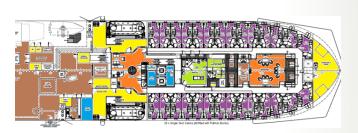
- 22 Single Cabins
- 8 Pullman Berth Cabins (1+1)
- 3 Client Office Spaces
- Vessel Operational Areas
- Clients Lockers & Stores
- Technical Spaces (HVAC)

<u>02 - Deck</u>

- 28 Pulman Berth Cabins (1+1)
- Large Games Rm
- Hospital and Treatment Rm
- Client Lockers & Stores
- Main Reception Area
- Client's Duty Mess / Technicians Workshop / COSH locker
- Main Working Deck (500m²)
- Pain Store / Bosin Workshop / CO2 Rm / Safety Centre
- Boat Store
- ROV Mezz Deck / Daughter Craft landing Area





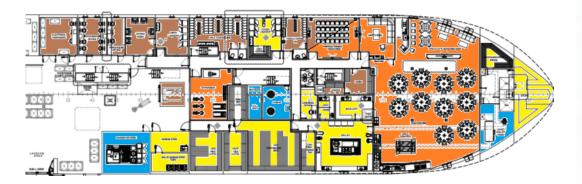


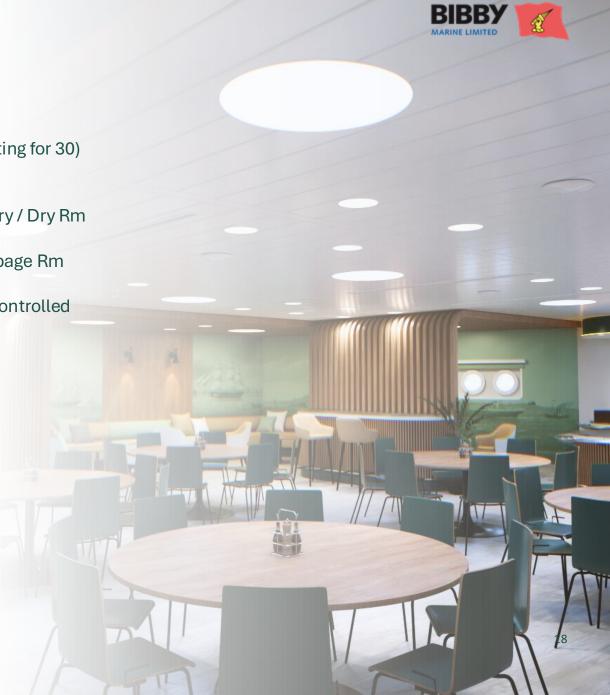


01 – Deck

- Mess Rm (seating for 80)
- Galley / Scullery / Meat Prep Rm
- Day Provision Store and Dry Store
- Meat Freezer / Fish Freezer / Veg Cold Rm
- Catering Office / Shop / Locker
- 1 Hotel Stores
- 1 Bar and Open Plan Lounge
- 1 Quiet Day TV Room
- Client Warehouse Office
- Technicians Office
- Main Warehouse (535m²)

- Recreational Area
 Technical Spaces
 Client Defined Areas
 Vessel Operational Areas
 Medical Areas
 Accommodation Cabins
- 1 Cinema / Briefing Rm (seating for 30)
- Female Wardrobe (16)
- Male Wardrobe (80)
- Clean Laundry / Dirty Laundry / Dry Rm
- Gymnasium
- Garbage Store / Chilled Garbage Rm
- Electrical Workshop
- Electronic Stores (Climate controlled

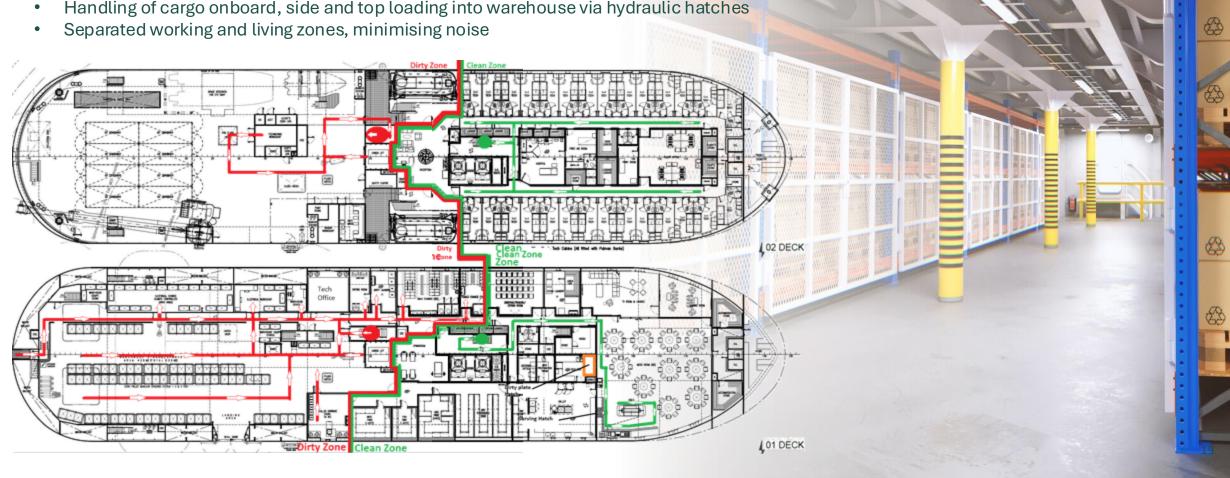




Design Focus on workflow for Technicians and Crew

Focus on:

- Transfer of Technicians to/from CTV
- Transfer of Technicians to/from gangway
- Flow through accommodation
- Handling of cargo onboard, side and top loading into warehouse via hydraulic hatches



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