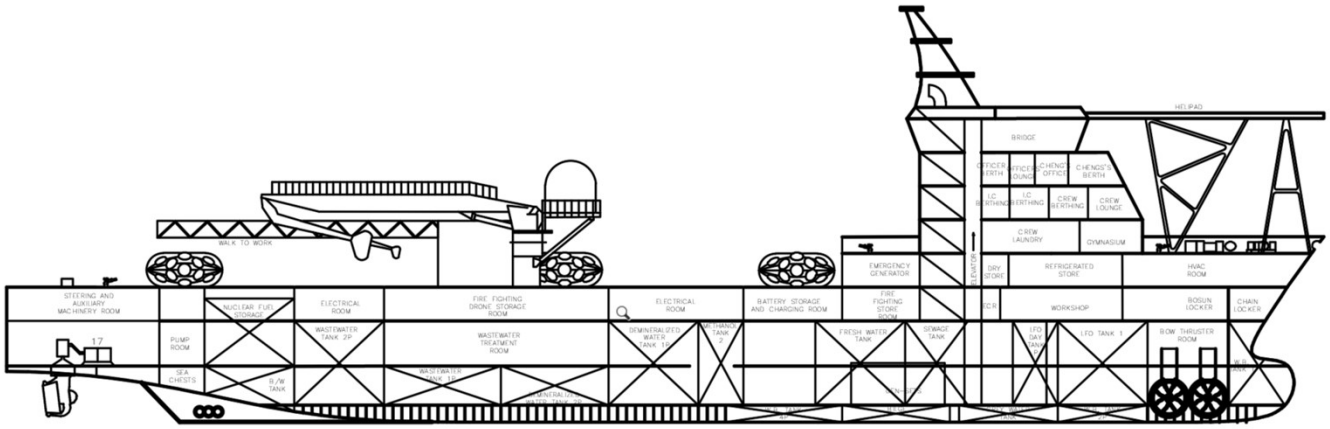
Nuclear Support Vessel



Description

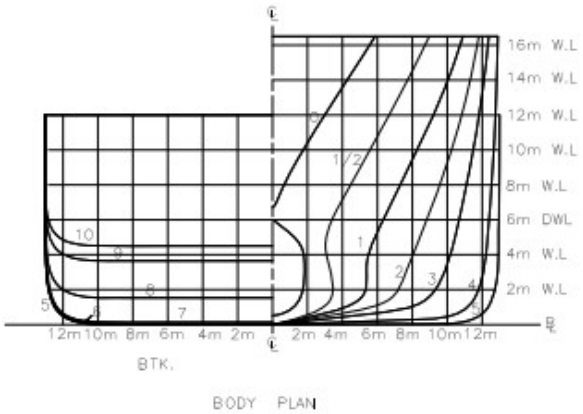
The Nuclear Support Vessel (NSV) is a 117-meter dual-fuel service platform designed to support the maintenance, refueling, and emergency response operations for nuclear-powered container ships operating in European waters.

Principal Characteristics

Length Overall	117 m
Beam (Breadth)	26 m
Depth	9 m
Full Load Draft	6.0 m
Displacement	10,366 MT
Installed Power	13,920 kW
Deadweight	8554 MT

Performance

Service Speed	12 knots
Maximum Speed	15 knots
Endurance	30 days
Range	1,500 nm
Zero Fossil Fuel Mode	24 hours at service speed



BODY PLAN

Machinery

Main Engines	4 × Wärtsilä 6L32 Dual Fuel (Methanol/MFO)
Azimuth Thrusters	2 × ThrustMaster TH5000ML, 3,500 kW each
Bow Thrusters	2 × ThrustMaster 104TT2500ML-CS, 1,860 kW each
Emergency Generator	1 × CAT 3516E, 9.6 MT

Tank Capacities

Methanol	1,053 m^3
Diesel Oil (LFO)	1,053 m^3
Demineralized Water	2,200 m^3
Wastewater	2,200 m^3
Potable Water	127 m^3
Fresh Water	127 m^3
Lube Oil	47 m^3
Hydraulic Oil	47 m^3

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Firefighting

Pump Capacity	2,400 m^3/hr
Delivery	6 nozzles (≥3 always within reach)
Reach	20 m from container ship's midship beam

Deck Equipment

Crane	Techcrane K200, 36.6 m max reach, SWL 5.7–34.6 MT
Walk-to-Work	Ampelmann A300, 25 m gangway, 300 kg payload, SS3 operable
Fenders	6 × deployable pneumatic fenders (port/starboard)
Deck Layout	Clear mission deck with D-rings, hose support, and spare part storage

Special Capabilities

Nuclear Fuel Handling	8×8×6 m tank, 1,200 MT capacity
Defueling/Dewatering	Crane-supported 1 MT/m hoses, pumps transferred onboard
Damage Control Team	12-person team w/ radiation suits
Water Processing Room	400 m^2 area, 4 m height, 500 kW load

Accommodation

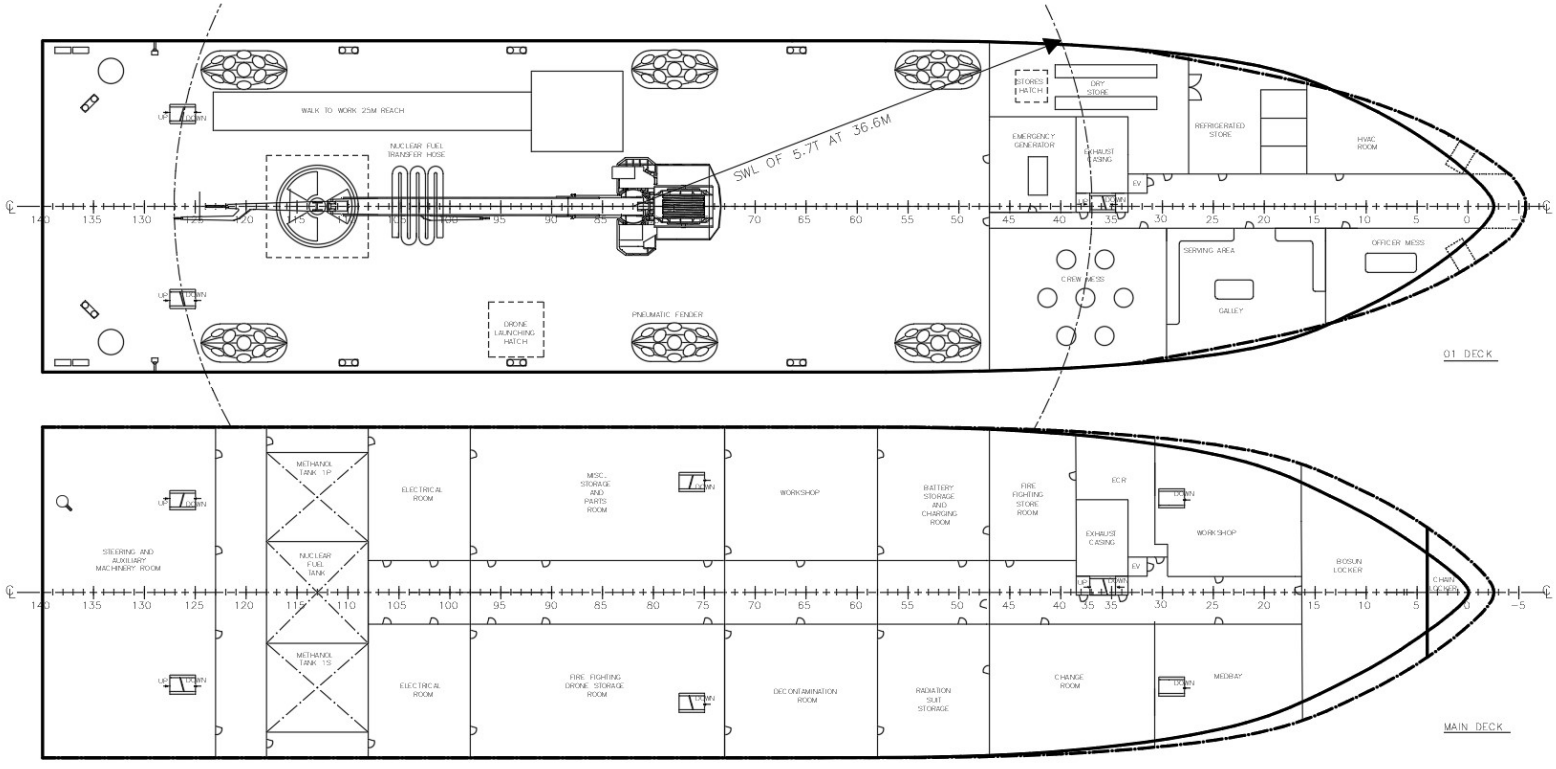
Total Berths	42 persons
Officer Berths	8 (single)
Crew Berths	12 (single)
Industrial Berths	20 (double)
Spare Berths	2 (single)
Facilities	Galley, mess, rec space, changing rooms, ship offices

Classification and Compliance

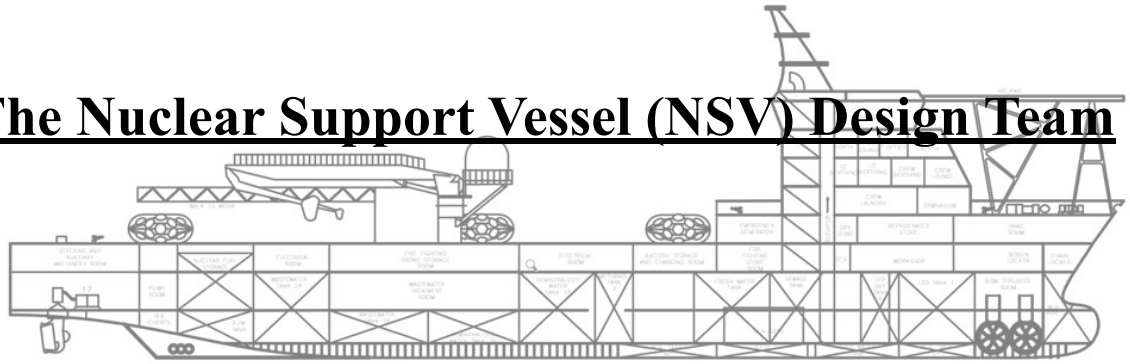
- Class Society: Bureau Veritas
- Rules: NR467 (2025)
- Codes: IMO IS Code (2008), INF Code (1999), 46 CFR

Dynamic Positioning

- DP2 Class with redundancy per BV NR467
- Control: Triple-redundant DP system
- Thruster Config: 2 Azimuth, 2 Bow Thrusters



The Nuclear Support Vessel (NSV) Design Team





Finn Ackerman

Hometown
- Saint Louis, MO

Experience
- Snow and Company, Winter ‘23
- Shipwright, Winter ‘24
- MSC, Summer ‘24
- GD NASSCO, Winter ‘25

Hobbies
- Surfing
- Programing

Career Plans
- Graduate School

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Paul Ferragu

Hometown
- Southport, CT

Experience
- Chantiers de l’Atlantique, Summer ‘23
- M.T. Maritime Management, Winter ‘24
- MTM Ship Management, Sumer ‘24
- Savage Marine, Winter ‘25

Hobbies
- Skiing
- Sailing

Career Plans
- Commercial Management

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Calvin Schmid

Hometown
- San Diego, CA

Experience
- New England Boatworks, Winter ‘23
- MSC, Winter ‘24
- Marine Group Boatworks, Sumer ‘24
- GD NASSCO, Winter ‘25

Hobbies
- Sailing
- Surfing

Career Plans
- Hydrofoil Design

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Walter “Hank” Wolfe

Hometown
- Huntersville, NC

Experience
- Michael Rybovich and Sons, Winter ‘23
- Pasha Hawaii, Winter ‘24
- Excelerate Energy, Summer ‘24
- Stolt Tankers, Winter ‘25

Hobbies
- Fishing
- Sailing

Career Plans

Small commercial vessel design

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