





Expeditionary Warfare Conference October 27, 2011





Joint High Speed Vessel (JHSV) and Mobile Landing Platform (MLP) Program

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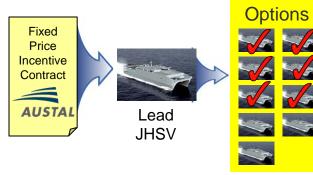


JHSV Overview



Program Structure:

Post Milestone B. The Navy awarded a fixed price incentive contract on November 13, 2008 to Austal USA in Mobile, Alabama for detail design and construction of the lead JHSV plus 9 JHSV ship construction options. Program is on schedule.

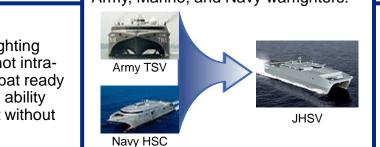


Rapid Transport:

Focused technology to meet warfighting needs. Provides COCOMs a 35 knot intratheater transport of 600 st of combat ready units over 1200 nautical miles with ability for off-load in austere environment without reliance on shore infrastructure.

Joint:

Merges Army Theater Support Vessel (TSV) and Navy High Speed Connector Programs. Leverages Navy's Core Ship Acquisition Competency. Provides cost effective, common logistics support platform for Army, Marine, and Navy warfighters.



Commercially Based:

Leverages extensive commercial investment in high speed vessels possessing organic cargo handling capability to provide effective, affordable military capability from a non-developmental item.





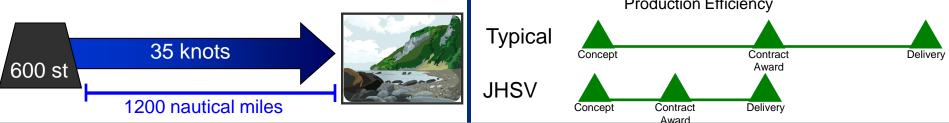






Streamlined Acquisition:

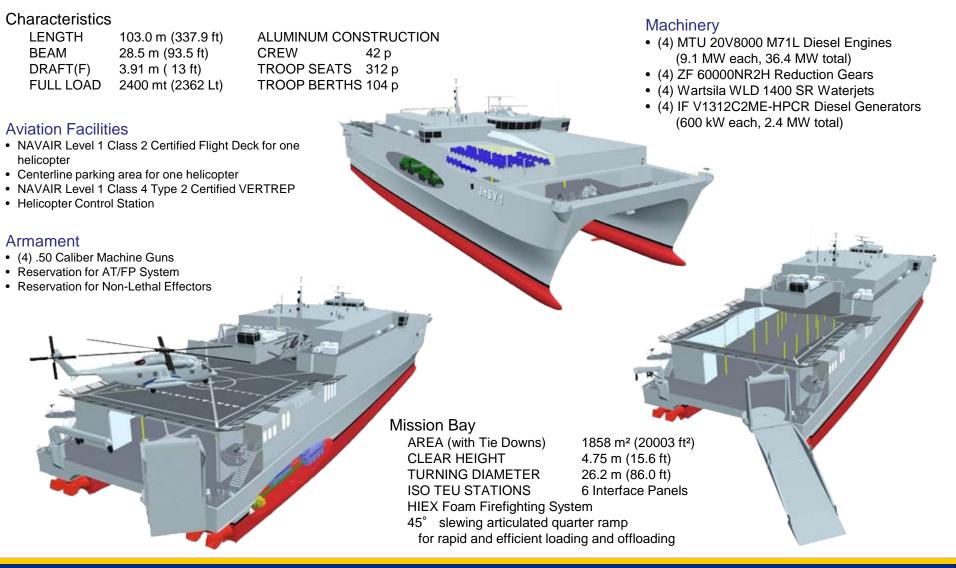
Concept to Shipbuilding Contract in 2 ¹/₂ years with scheduled ship delivery 36 months after contract award. Both span times represent 50% time savings from a typical development and ship construction approach. Keys to success: (1) Stable requirements; (2) Minimize change; (3) **Production Efficiency**





JHSV Characteristics







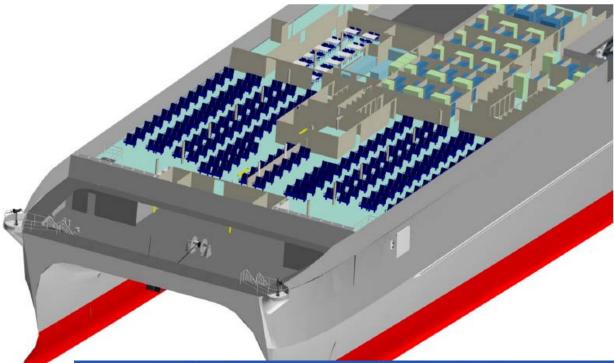
JHSV Troop Accommodations





ACCOMMODATIONS

- Crew = 42 p
 - 2 x Single SR
 - 6 x Double SR
 - 7 x Quad SR
- Troop Seats = 312 p
- Troop Berths = 104 p
- Galley & Messing = 48 p



Crew State Rooms

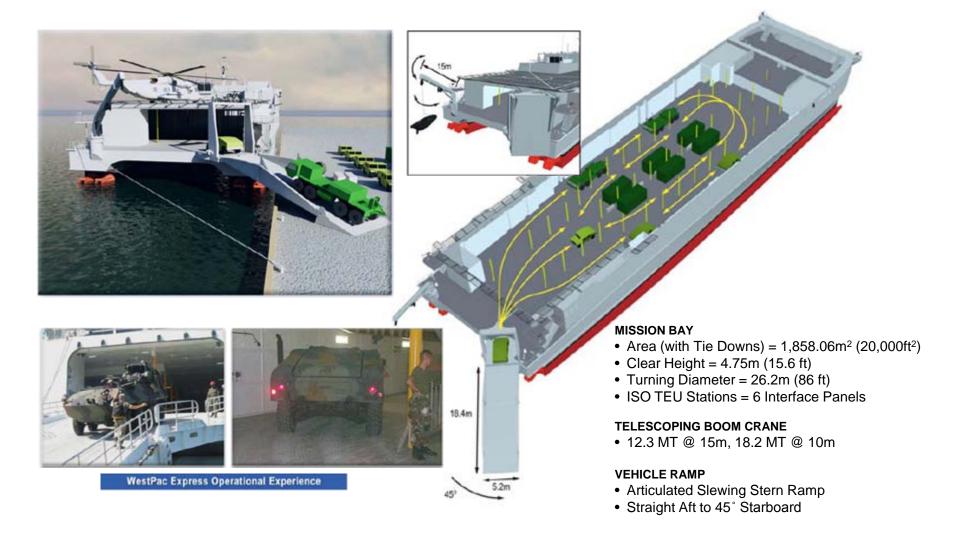
Embarked Force Berthing Compartments





JHSV Mission Bay





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Aviation Capability and Support





- Land, Launch and refuel in up to Sea State 3, Day/Night all weather CH-53, H-60 & H-46 aircraft.
- Level 1 Class 2 (limited services)
- Class 4 Type 2 VERTREP, H-60, H-46, H-47, H-53, V-22
- Helo wash-down facilities available







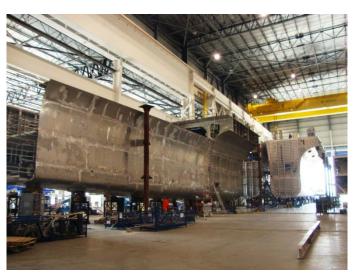
JHSV Production Progress



JHSV 1 (Spearhead) at pier for Christening



JHSV 1 (Spearhead) Test and Activation







JHSV Under Construction

PEO





- JHSV 2 Keel Laying (1st Qtr FY 2012)
- JHSV 1 Builder's Trials/Acceptance Trials (Winter 2011)
- JHSV 1 Delivery (2nd Qtr FY 2012)
- JHSV 3 Keel Laying (2nd Qtr FY 2012)
- JHSV 1 Post Delivery Test & Trials (2nd 3rd Qtr FY 2012)



MLP Overview



Program Structure:

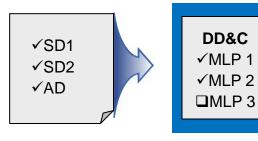
Navy awarded National Steel and Shipbuilding Company (NASSCO) a contract on February 13, 2009, for Systems Design (SD) Part 1, with an option for SD 2. Advance Design awarded August 13, 2010. Detail Design & Construction contract for MLP 1 and 2 was awarded May 27, 2011, and a contract option for Long Lead Time Material for MLP 3 was awarded June 30, 2011.

crew.

Delivers Joint Warfighter Equipment

Each MLP provides:

- 3 LCAC berths, Skin-to-Skin ramp & fenders
- 25,000 sq. ft. Raised Vehicle Deck

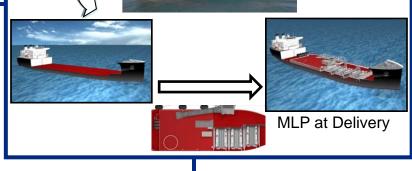


✓Awarded

Sea Base Surface Interface Hub

Enables personnel and equipment transfer from MPF(F) LMSR and JHSV to shore via LCACs in Sea State 3 conditions.





Commercially Based

Designed/constructed to commercial ship standards. Navy

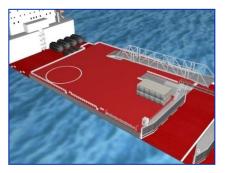
standards and certifications applied to mission-related ship

functions. Operated by a 34-person Military Sealift Command



Core Capability Set

Government designed. Constructed under separate contract.





Mobile Landing Platform (MLP 1)



ACCOMMODATIONS

	Lic/	CPO/	Unlic/	
	Off	SNCO	OEP	Total
MSC	15	-	19	34
Spares	0	-	0	0
Standing Detach.	0	0	0	0
NSE	0	0	0	0
Troops	0	0	0	0
Total	15	0	19	34

Based on BP Tanker standards, Habitability: MSC crew in single staterooms with t exception of one two-person staterooi

MACHINERY SYSTEMS

Commercial Diesel-Electric Propulsion

- Integrated Electric Plant
- 4 x 6.1 eMW Medium Speed Diesel Generators
- 6.6 kV Electric Propulsion System
- 2 x 10.0 MW at 85 rpm Synchronous, Variable Speed, Reversible Propulsion Motors
- 1,000 ekW Emergency Diesel Generator
- 2 x 7.45 m diameter propellers
- 1 x 2,000 ekW Azimuthing Bow Thruster (DPS-0)





IP-5

Oily waste

Food waste DFM

AUXILIARY SYSTEMS

All-Electric Auxiliaries Ballast System: $4,000 \text{ m}^3/\text{hr}$, up to ~20m draft A/C Plants 2x85 ton Stores Cranes: 2 x 5 mt capacity Mission Crane: 1 x 10 mt capacity

COMMAND & CONTROL

Legacy BP Tanker Navigation and Communication

- Integrated Navigation Bridge System
- SOLAS Communications for Sea Area III
- 2 x Differential GPS
- 3 cm (X-band) & 10 cm (S-band) radars

INTERFACE STATIONS SERVICES

Seawater cooling	AFFF	JP-
Seawater firefighting	Electric power	Oil
Telephone	Distilled water	Foc
General announcing	Potable water	DFI
General alarms	LP air	
NIPRNET	Sewage discharge	
SIPRNET	Grey water discharge	

CARGO CAPABILITIES

Mission Deck: 154.7 x 50m Mission Deck Area: 7,735 m² Lift Capacity: 23,000 mt @ 9m submergence with fixed ballast Deck Load Capacity: 20 mt/m^2 380,000 gal **IP-5** Stowage: Potable Water Stowage: 100,000 gal Potable Water Generation: 25,000 gal/day MOGAS: None

LIFESAVING

USCG Certified (Cargo & Misc. Vessels) Lifeboats: 2 x 46 person (one ea. P/S)) Rescue Boat: 1 x 7m RHIB Liferafts: 2 x 25-person (two ea. P/S aft) 1 x 10-person (one ea.. P/S fwd)

DIMENSIONS

Length, LBP:	233.2 m
Length, Overall:	239.3 m
Beam, DWL:	50.0 m
Full Load Departure Draft	9.0 m
Load Line Draft:	12.0 m
Depth, Mission Deck:	15.5 m
Depth, Upper Deck:	28.0 m

STABILITY IAW IMO (SOLAS) and 46 CFR

HULL STRUCTURE Commercial, ABS Steel Vessel Rules

MEDICAL

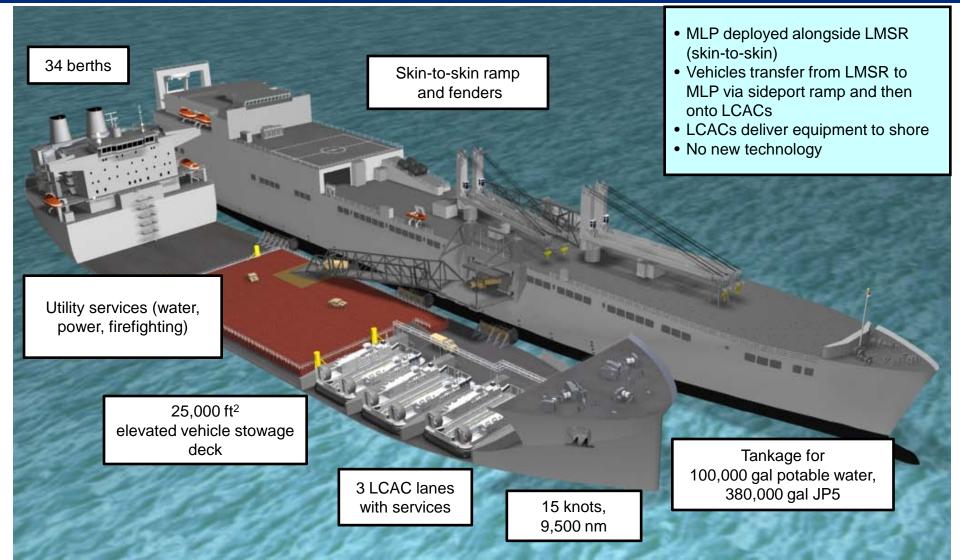
24 m² (255 ft²) (Isolation only). BP tanker legacy facility

Information as of 10/19/2011



MLP Capabilities

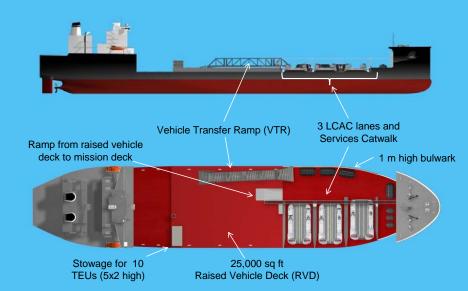








- <u>Government-led contract design</u> effort to refine and translate the requirements into the design and specifications for the core capability set before competing the contract, which allows more user input
- A separate competitive contract for DD&C and integration of the core capability for MLP 1 with options for MLP 2 and MLP 3 will be issued
- Core Capability Set includes: Elevated vehicle stowage deck, 3 LCAC lanes, LCAC services catwalk, Skin to Skin fenders, and support structures to receive LMSR side port ramp and fender to bear upon.
- Interfaces between the ship and core capability package are managed via an existing Interface Control Document (ICD)





MLP Production Progress



MLP Blocks under construction at NASSCO







DISTRIBUTION STATEMENT A: Approved for Public Release; Distribution is Unlimited.

PEO

SHIPS





- Core Capability Set RFP Release (1st QTR FY 12)
- MLP 1 Keel Laying (1st QTR FY 12)
- Award Core Capability Set (3rd Qtr FY 12)
- MLP 2 Start of Construction (3rd Qtr FY 12)
- MLP 1 Undock (1st Qtr FY 13)