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Joint High Speed Vessel (JHSV) Program



23 May 2007

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Agenda

- **Present Overview of Program**
 - **Development from Concept into ACAT 1 Program**
- **Discuss challenges faced executing program**
 - **“Accelerated” vice “Rapid” Acquisition**
 - **Ship unique acquisition issues**



What is the JHSV?



- High speed, shallow draft ship capable of transporting intact, combat ready units intratheater distances ... provides organic capability to operate in austere ports/offload sites without reliance on infrastructure
- NDI program – commercial design hull with “minor” modifications to incorporate limited military features



Platform History



- RAN employment of Incat built fast ferry – Jervis Bay – to support UN operations in East Timor “planted the seed”
- USN/USMC conducted LOE with ship in Sept 2000 with very positive results



Platform History

- **DoD has successfully operated leased commercial fast ferries since 2001**
 - Joint Venture (Navy, Army, Marine Corps, SOCOM)
 - Westpac Express (Marine Corps)
 - Spearhead (Army)
 - Swift (Navy, Marine Corps)
- **Services established and executed separate efforts**
 - Joint lease and operation of Joint venture
 - USMC lease of Westpac Express
 - Army ACTD (Spearhead)
 - SOCOM proof of concept with Joint Venture
 - Naval experimentation and operational employment with Swift



Platform History



JOINT VENTURE

Chartered in 2001 to support USN, USMC, Army experimentation and concept development efforts

Chartered by Army between 2003-05; served as Army Advanced Concept Technology Demonstration (ACTD) platform



SPEARHEAD



Current Leased Vessels



Chartered in 2003 - still operating in support of Naval operations and experimentation; currently deployed to SOUTHCOM as GFS proof of concept platform ... manned by Navy crew

Chartered in 2001 to provide intratheater lift to III MEF units based in Okinawa; time charter operated by contract crew





Employment History

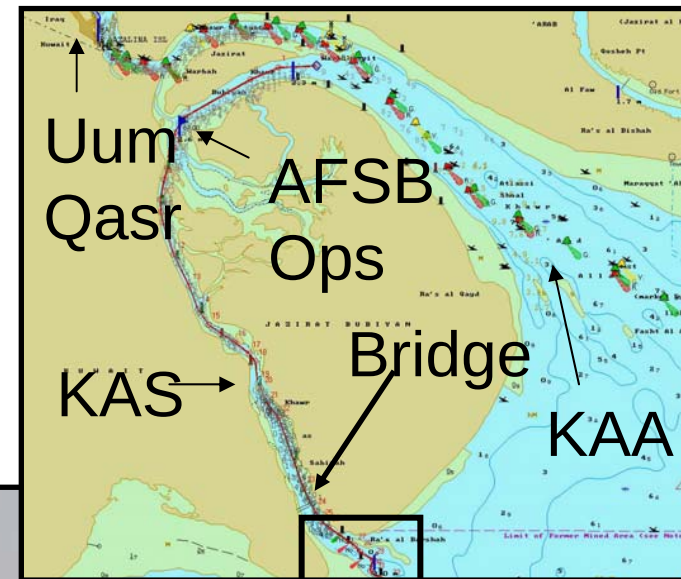
- OIF
- OEF
- JTF HOA
- UNIFIED ASSISTANCE
- KATRINA Relief Ops
- Lebanon Support
- SOCOM GWOT missions
- Exercises in all COCOMs

An HSV(s) has been deployed in support of every major contingency since the beginning of the first charter

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Operational Employment



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Operational Employment



Beirut, Lebanon



Cyprus

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Seabasing & Littoral Maneuver



JLOTS Support



At-sea ship-to-ship transfer





Access



RRDF Ops



Austere port ops



Quay wall offload – Kenya (JTF HOA)



Degraded port ops – East Timor



Multi-Mission Utility



**Maneuver of
mechanized
units**



Riverine Ops

Sustainment



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HSV Flight Ops



JTF KATRINA OPS



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Summary of Platform History

- DoD has lessons learned from the lease of 4 different vessels, from 2 different builders, over 6 years ... and counting
 - Lessons learned from Sea Fighter and LCS also incorporated into program
- Extensive commercial employment history for this type of ship
- Army successfully completed a ACTD
- HSVs have been employed OPERATIONALLY throughout the world
 - EUCOM – Norway to Africa
 - CENTCOM
 - PACOM
 - SOUTHCOM
 - CONUS
- Leased vessels have undergone significant sea trials and data collection trials for NAVSEA



So ... Where is the Program Now?



JHSV Program

- **Army and Navy/Marine Corps efforts merged via a MOA in 2003**
 - **Army acquisition effort transferred from TACOM to PEO Ships**
 - **PMS-325 designated as PM for JHSV**
 - **Jointly manned project office established in PMS-325**
- **ACAT 1D, \$1.6 billion dollar, 8 ship program**
 - **5 ships for Armt, 3 ships for the Navy**
- **Post MS A**



JHSV Program Advantages

- **Strong and consistent demand from COCOMs**
- **Lessons learned from 4 leased surrogate platforms**
 - **Results from Sea Fighter and 2 LCS designs also available**
- **Extensive sea trial data to assess design and performance of aluminum multi-hulls**
- **Stable requirements based on concept development and lessons learned from leased vessels**
- **Engaged industry partners pushing innovative solutions ... non-skid, tie downs**



Program Milestones

- ✓ Milestone 0 (Apr 05)
- ✓ Initial Capabilities Document (ICD)
- ✓ Analysis of Alternatives (Dec 05)
- ✓ Milestone A (Apr 06)
- ✓ Industry Day #1 – 13 Sep 06
- ✓ Capability Development Document (CDD) – 27 Jan 07
- ✓ Industry Day #2 – 26 April 07
- Acquisition Strategy Approval
- RFP Release
- Milestone B/DD&C Award



Milestone 0 ADM

- Signed by USD AT&L (Mr. Wynne) 18 April 2005

“This program reflects the demonstrated capability of a successful ACTD and I support streamlining the acquisition process to provide this capability as early as possible to meet the warfighter’s needs.”

- First leased vessel delivered ... Oct 2001
- First JHSV delivered (estimated) ... Sept 2012



Timeline for Leased Vessels

JOINT VENTURE

- Initial Concept Meeting – Mar 01
- Requirements Development – Apr/May 01
- RFP Released – 7 Jun 01
- RFP closed – 2 Jul 01
- Final SSA Brief – 17 Jul 01
- Exec. Steering Group Brief & Approval – 20 Jul 01
- Contract Award – 23 Jul
- Ship leaves yard in Australia – 23 Sep 01
- Ship accepted in Norfolk VA – 1 Oct 01

**Receipt of Proposal to Award
– 21 DAYS (including major
holiday and 3 weekends)**

SWIFT

- Market Survey – 23 May to 3 Jun 02
- RFP Released – 19 Jun 02
- Offers Received – 19 Aug 02
- Contract Award – 8 Oct 02
- Accept Ship in Hobart Australia - Aug 03

**HSV-2 SWIFT deployed
directly from the builder's
yard in Australia to the
Persian Gulf to support
CENTCOM taskings**



Acquisition Constraints

- **Cost is a critical consideration ... from ADM “cost being a prime consideration when evaluating alternatives ... “**
- **Commercial based, non-developmental acquisition**
- **Single platform design to support all services**
- **JHSV is not a combatant ... built to commercial survivability standards**
 - **Naval Vessel Rules not invoked**
 - **ABS will be used as Classing Authority**
- **JHSV weight sensitive ... added ‘features’ detract from overall performance**

These “Constraints” are actually “Advantages”



What is “Streamlined” Acquisition

- Despite ADM language it is not clear that any elements of the process have been “streamlined”
 - “Work faster”?
- Numerous organizations and working groups have opportunity to raise objections and slow/stop the process
- Numerous boards with unclear charters “weighing in”
- Lack of alignment among key organizations
 - PEO and NAVSEA
 - Programmatic and Technical Authority
- LFT&E and WSESRB Oversight
- Cultural Barriers ... trust & communications



Technical Issues

- **Lack of acceptance of commercial solutions and best commercial practices**
 - Non-skid
 - Engine testing
 - Use of aluminum
- **Zero acceptance of risk in technical specifications ... expensive and detrimental to performance of intended missions**
 - Example ... Sea State 7 survivable tie downs for M1A2
- **Development and oversight of “commercial” standards**
 - ABS High Speed Naval Craft Code
 - Reliance on MILSPECs
- **“Technical Warrant Holder” structure in NAVSEA**



Requirements Issues

- **Developing acceptable “joint” solutions for all services in single platform**
 - Manning strategy
 - AT/FP & C4I philosophy
- **Interacting with Industry to establish limits of NDI**
- **Managing Threshold and Objectives ... leased vessels requested quotes for added “features” which were treated separately from base platform**

**Leased vessels were
generally “good enough”**



Questions??