Navy Boatbuilding in Support of Expeditionary Warfare

NDIA 21st Expeditionary Warfare Conference
“Expeditionary Warfare: Balancing Capabilities & Capacity”
11-13 October 2016

CRF Boat Replacement (PB-X Concept)

MK VI Patrol Boat

11m ExMCM RIB

Mr. Mike Kosar
Program Manager
PEO Ships - PMS325

Mr. Jon D. Thomas
Principal APM Boats
PMS325G
• Boat & Craft acquisition and life cycle services to Fleet Forces, CNIC, NECC and Other Customer enterprises
• Typical missions include AT/FP operations; SAR; Maritime Interdiction/VBSS; personnel/cargo transport; environmental control, firefighting, dive support, Mine Countermeasures
• PMS 325G Boat Acquisition Programs (Active or Recently Completed):
  – MK VI Patrol Boat (N957)
  – Multi-Use Explosive Ordnance Disposal Craft (MERC (N957))
  – Underwater Construction Team Boats (N957)
• Delivered 12 new boats to the Fleet in FY16
  – 4 x MK VI PB’s
  – 8 x MERC’s
Mission - Conduct maritime security / force protection operations worldwide in the near coast, inshore areas

<table>
<thead>
<tr>
<th>Coastal Riverine Force</th>
<th>MKVI Patrol Boat (85 ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>* Coastal Command Boat (65 ft)</td>
</tr>
<tr>
<td></td>
<td>Force Protection Patrol Boat (34 ft &amp; *25 ft)</td>
</tr>
<tr>
<td></td>
<td>Riverine Command Boat (49 ft)</td>
</tr>
<tr>
<td></td>
<td>* Riverine Patrol Boat (38 ft)</td>
</tr>
<tr>
<td></td>
<td>* Riverine Assault Boat (33 ft)</td>
</tr>
</tbody>
</table>

* Not Pictured

34-ft Patrol Boat (117 inventory)

85-ft MKVI Patrol Boat – (6 inventory; 2 Pending Delivery; 4 in production)

49-ft Riverine Command Boat (9 inventory)
**Boat Inventory for Explosive Ordnance Disposal Teams**

**Mission** - Mobile Diving and Salvage; EOD support for Mine Countermeasures (MCM), Countering Improvised Explosive Devices (IEDs)

<table>
<thead>
<tr>
<th>Explosive Ordnance Disposal</th>
<th>EOD Mine Countermeasure 11M RIBs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Multi-Use Explosive Ordnance Response Craft - 8.5M MERC</td>
</tr>
<tr>
<td></td>
<td>Underwater Construction Team Boats</td>
</tr>
</tbody>
</table>

- **36-ft UCT Work Boat** (4 inventory)
- **8.5m Multi Purpose EOD Response Craft** (44 inventory; FY 16 procurement awarded 29 Sep 16)
- **11m Expeditionary Mine Counter Measure RIB** (8 NECC Inventory; FY 17 new procurement)
FY 17 Projected Future Procurements

11m ExMCM EOD RIB

Mission:
Support EOD MCM Platoons in deployment of MK 18 UUVs for MCM operations.

Procurement Strategy & Schedule:
- FFP 3-Year IDIQ Contract for ~12 Boats
- Boat Requirements & Attributes under development
- Contract Award anticipated in FY17

PB-X Concept

Mission:
~40-ft boat to recap PB34’s and support CRF in maritime security operation missions such as HVU Transit Escort, VBSS and Overwatch; Critical Infrastructure Protection; Embark Forces (i.e., SOF, EOD, USCG LEDET)

Procurement Strategy & Schedule:
- FFP 5-Year IDIQ Contract for ~20 Boats
- Boat Requirements & Attributes are defined
- PB-X Industry Day on 2 Dec 2016
- RFP Release by end of Dec 2016
- Contract Award projected for Q4FY17
• Simple, Reliable and Easy to Maintain Boats Preferred

• Boat Design Solutions that Lower Total Ownership Costs
  – Lowers scheduled maintenance intervals and costs
  – Minimizes routine maintenance efforts for the end-user

• Proposal Development & Preparation
  – Understand RFP Requirements (i.e., Transportation, Boat Specifications, Domestic Procurement Laws)

• Technical Data Package (TDP) Development
  – Provide complete and correct drawings (i.e., should match as built)
  – Provide all OEM & Test certifications
  – Provide TDP in accordance with timeline in contract

• Pre-Delivery Inspection and Trials (PDIT)
  – Install equipment in accordance with OEM or contract requirements
  – Properly label systems and equipment
• **Advance Technology Development in:**
  – Diesel Outboard Engines
    • Improves ship safety with removal of gasoline (flammable fire hazard)
    • More economical and efficient
    • Reduces level of maintenance and repair over diesel inboard engines
  – Unmanned Vehicle Deployment & Retrieval Systems for Boats

• **Leverage Navy’s 3M & Training Programs**
  – Provides commonalty with systems already fielded
  – Allows end-user to quickly replace defective parts for repair (NSN, APL/AEL)
  – Minimizes additional training requirements for the Navy and end-user

• **Boat Design Solutions that Optimizes Weight**
  – Allows space & weight for future capability and payload
  – Allows for improved performance related to speed and range

• **Provide for OCONUS Follow-On Support after Delivery to the Warfighter**

• **Assist Navy with Fleet Introduction and Training of new boats**
END