LPD 17 Amphibious Transport Dock & LX (R) Shipbuilding Programs

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National Defense Industrial Association

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Program Manager, PMS 317
CAPT Brian Metcalf
LPD / LX(R) Program Overview

• LPD Program Profile (12 ships)
  – Replacement for LPD 4 and 3 other amphibious ship classes
  – Ten ships delivered to the Fleet
  – Two ships in construction at HII
  – 20 successful deployments

• LX(R) Program Profile (11 ships)
  – Replace LSD 41/49 Class
  – Leverage LPD hull and major equipment
  – Competitive acquisition
  – Cost cap ensures affordability
  – Lead ship delivers in 2025
LPD 26 – USS John P. Murtha

LPD 26

- Delivered (May 2016)
- Commissioned (Oct 2016)
- Arrive San Diego (Nov 2016)
- Combat Systems Qualifications Trials (CSSQT) (Apr 2017)
- Final Contract Trials (July 2017)
- PSA (Aug 2017 - Feb 2018)
- First Deployment (early 2019)
LPD 27 – Portland

LPD 27

- Launched (Feb 2016)
- 85% Complete
- Acceptance Trials (June 2017)
- Delivery (July 2017)
- Complete Post Delivery (Feb 2019)
- First Deployment (early 2020)
Capability Transition

LPD 27

LPD 28 – Comply with LPD ORD

LX(R) – Comply with LXR CDD
LPD 28 Configuration

- Leverage LPD hull and propulsion plant
- Update self-defense capabilities
- Reduce troop capacity to LPD minimum
- Improve reliability, maintainability, producibility
- Update obsolescence issues
- Incorporate LXR cost reduction initiatives
LPD 28 – Fort Lauderdale

LPD 28

- Advanced Construction and LLTM Commenced (2016)
- Full Contract Award (2016)
- Keel (2017)
- Launch (2020)
- Delivery (2021)
- Complete Post Delivery (2023)
LX(R) Overview

• Leverage LPD hull form and propulsion plant
• Meet LSD replacement cost targets
  – Continue cost reduction initiatives
  – Further improvements on production efficiencies
• Program plan to support LSD decommissioning's
  – Competitive RFP release planned for 4th quarter FY17
  – Contract award planned for 4th quarter FY18
  – First delivery planned for 2025
# LPD 17 vs. LXR

## High Level Capability Comparison

### USN and USMC Consensus: LPD 17 Derivative Optimizes Capability

<table>
<thead>
<tr>
<th>Category</th>
<th>LPD 17</th>
<th>LXR</th>
<th>LSD 41/49</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C2</strong></td>
<td>LINK 11,16, HF/ VHF/ UHF Voice/Data, UHF/ SHF SATCOM, SCI Network, ISNS</td>
<td>LINK 11,16, 75% HF/ VHF/ UHF Voice/Data and UHF/ SHF SATCOM, SCI Network, CANES</td>
<td>50% capacity (compared to LPD 17) HF/ VHF/ UHF Voice/Data and UHF/ SHF SATCOM</td>
</tr>
<tr>
<td><strong>Vehicle Storage</strong></td>
<td>22.2K square ft</td>
<td>22.2K square ft</td>
<td>11.6 / 16.3 square ft (CV)*</td>
</tr>
<tr>
<td><strong>Cargo Capacity</strong></td>
<td>34K cubic ft</td>
<td>28K cubic ft</td>
<td>5.1 / 50.7 cubic ft (CV)*</td>
</tr>
<tr>
<td><strong>Troop Capacity</strong></td>
<td>699 + 101 surge</td>
<td>552 + 78 surge</td>
<td>403 + 99 / 406 + 101 surge</td>
</tr>
<tr>
<td><strong>LCAC Capacity</strong></td>
<td>2</td>
<td>2</td>
<td>4 / 2</td>
</tr>
<tr>
<td><strong>Aviation</strong></td>
<td>Level 1, Class 1 with 2 primary spots / 4 expanded spots with hangar</td>
<td>Level 1, Class 1 with 2 primary spots / 4 expanded spots with hangar</td>
<td>Level 1, Class 2 with 2 primary spots, no hangar</td>
</tr>
<tr>
<td><strong>Medical</strong></td>
<td>Level 2, CRTS with 2 OR, 6 ICU, 22 Ward beds, Dental OR</td>
<td>Level 2, CRTS with 2 OR, 6 ICU, 22 Ward beds, Dental OR</td>
<td>Non-CRTS, 1 OR (minor), 10 beds</td>
</tr>
<tr>
<td><strong>Self Defense</strong></td>
<td>SSDS Mk 2 with CEC</td>
<td>SSDS MK2 with CEC</td>
<td>SSDS MK 1</td>
</tr>
<tr>
<td><strong>Mobility</strong></td>
<td>22 kts sustained</td>
<td>22 kts sustained</td>
<td>20-21 kts sustained</td>
</tr>
</tbody>
</table>
LPD Successes

AMPHIBIOUS WARSHIPS
“THE SWISS ARMY KNIFE OF U.S. NAVY SHIPS”

- Amphibious Combat Operations: ship to shore movement for forcible entry
- Vehicle & Weapon Deployment
- Medical Facilities
-灵活性/快速响应
- Logistical Support & Humanitarian Assistance and Disaster Relief
- Aviation: fully capable for vertical takeoff/ landing aircraft
- Survivability
- Command & Control/Intelligence, Surveillance and Reconnaissance

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