LCUs vs. LCACs
Across the Range of Military Operations

- Distributio Statement A. Approved for public release; distribution unlimited.

- Mid-Intensity Conflict
- Humanitarian Assistance
- Disaster Relief
- Counterinsurgency
- Non Combat Evacuation Ops (NEOs)
- Theater Security Cooperation
- Building Partnerships
- Crisis Response …… Contingency Ops
- Partner and Prevent
- MCO/Exercises
- Major Combat Operations

LCU
SC(X)R
LCAC
SSC
Unique Capability

LCAC 70%
World's Shorelines Suitable for Landing Is Increased From 17 to 70 Percent

LCU 17%
Evolution of LCAC to SSC
JEFF-A / JEFF-B Prototypes Lead to LCAC

Prototype Leading to LCAC

1970s
Evolution of LCAC to SSC
Initial LCAC Delivered December 1984

LCAC
1980s – 1990s

Designed for 20 Year Service Life
Capable of carrying a 60 ton payload at 35+ knots
91 LCAC delivered (72 in service and 1 test craft)
Evolution of LCAC to SSC
LCAC SLEP Adds 10 Years Service Life

LCAC SLEP
1990s – 2010s

49 LCAC SLEPs delivered to date
Evolution of LCAC to SSC

Ship to Shore Connector

2010s ...

- Designed for 30 Year Service Life (w/o SLEP)
- Capable of carrying a 74 Short Ton payload
- 86 nm w/o refueling (at 35+ knots)

IMPROVEMENTS:
- Increased reliability and availability
SSC Design Characteristics

More Lift + Lower Fuel Consumption + Less Maintenance

Advanced Skirt

Cargo Deck Sized for M1-A1 Tank

Pilot / Co-pilot Arrangement

Fuel Efficient Engines

Efficient Propellers
SSC Production Start

Production Readiness Review
October 2014

Fabrication Initiated

Craft 100
November 2014

Craft 101
January 2015
First LCU 1610 Class hull build in 1959

32 LCU 1610 craft in service

Average age = 43.5 years old

LCU 1610 Design Service Life = 25 years
Surface Connector (X) Replacement

Replace the LCU 1610 Class Capabilities

- Rugged and reliable
- Ease of maintenance and repair
- Fuel efficient with a high payload
- Independent operations capable
- No impact to infrastructure
- Affordable!

2014 Accomplishments

Completed Analysis of Alternatives (AoA)

A Cost Effective Procurement and a Design for Reduced Operations and Sustainment Cost
# Big Deck Evolution

<table>
<thead>
<tr>
<th>LHD 8</th>
<th>LHA(R) FLT 0 (LHA 6/7)</th>
<th>LHA(R) FLT 1 (LHA 8)</th>
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</thead>
<tbody>
<tr>
<td>2009</td>
<td>2014/2018</td>
<td>2022 (PLANNED)</td>
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All Electric & Hybrid Propulsion (Gas Turbine/Electric)
LHA(R) Flight 0
LHA 6 At Sea Trials

BT November 2013

AT January 2014
LHA 6 Crew Move Aboard

April 2014 Delivery
LHA 6 Sailaway

July 2014 Sailaway
LHA 7 Keel Lay

June 2014

Tripoli (LHA 7) 
JUNE 20, 2014

Tripoli is named to commemorate the capture of Derna in 1805 by a small force of U.S. Marines and approximately 370 soldiers from 11 other nationalities in the First Barbary War. The battle was later memorialized in the Marines' Hymn with the line "to the shores of Tripoli."

KEEL "TRULY AND FAIRLY" LAID

PASCAGOULA, MISSISSIPPI
LHA 7 Production Status

18% Complete
LHA(R) / JSF Integration
<table>
<thead>
<tr>
<th></th>
<th>LHA 6</th>
<th>LHA 7</th>
<th>LHA 8</th>
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<tr>
<td>DD&amp;C Baseline Spec</td>
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<td>ECPs during DD&amp;C</td>
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<td>X</td>
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<tr>
<td>Post Delivery mods</td>
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</table>
LHA(R) Flt 0
Changes from LHD 1 Class

Hangar Enhancements
Aviation Shops and Storerooms
Medical Resized
Shops

4-62-1
METALSMITH SHOP
4-62-0-Q
LHA(R) Flight 1

Amphibious Ship Recapitalization CBA: Need well deck in LHA 8
LHA(R) Flight 1

2-LCAC/SSC Well deck and reduced island

DISTRIBUTION STATEMENT A. APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED
LHA (R) Flt 0 vs. Flt 1 Comparison

| Hangar Enhancements | Aviation Shops and Storerooms | Medical Resized | Shops | 2 LCAC/SSC Well Deck |

LHA(R) Flt 0

LHA(R) Flt 1
- Early Industry Involvement
- Focus is on Affordability
- RFP release in 2015
QUESTIONS?