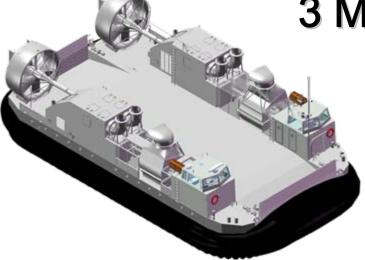


Ship to Shore Connector (SSC)

3 May 2010







- Navy Air Cushion Vehicle (ACV) Operational Relevance
- LCAC SLEP Maintaining lift requirement
- USMC Ground Combat Element Growth
- SSC Overview
- SSC Acquisition and Design Strategies
- SSC Programmatics



Navy ACV Operational Relevance



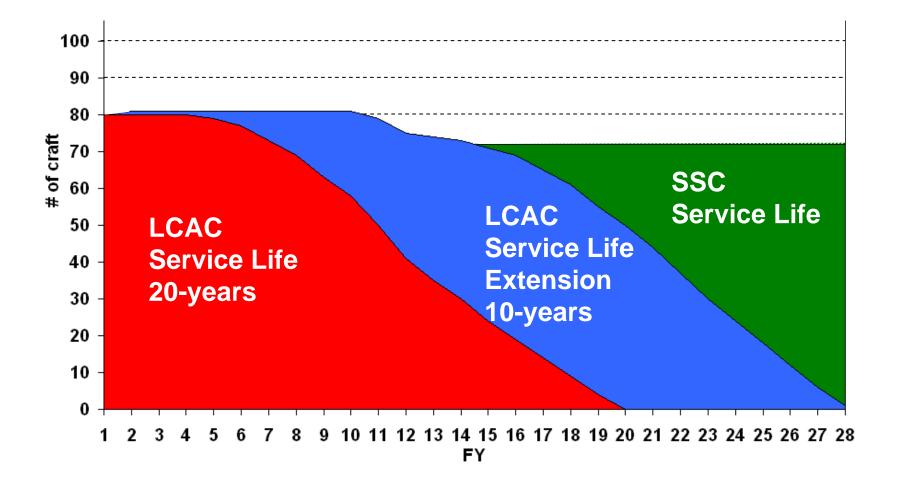
Jan'10 Haiti Relief

Jul'06 Beirut Evacuation

High Demand Signal



Navy ACV Lift Continuity



Meeting Demand Profile



LCAC / LCAC (SLEP)



LCAC:

Initial Craft Delivered December 1984
Designed for 20-year service life
Capability: 60-ton load @ 35 knots+

LCAC (SLEP): •Buoyancy box refurbishment

- •Buoyancy box refurbishment
- •Rotating machinery refurbishment
- •C4N Replacement
- •Enhanced Engines
- •Deep Skirt

LCAC SLEP = +10 Years of Service Life



USMC Ground Combat Element (GCE) Marine Expeditionary Brigade (MEB) Volume & Weight Increasing



Ground Vehicles and Equipment 2x+ heavier

GCE Operational Demands = Increasing Lift Requirement



SSC Requirements

- Transports weapon systems, equipment, cargo and personnel of the assault element from Marine Air/Ground Task force and Army Brigade Combat Team (BCT) in a Nonpermissive environment (per STOM CONOPS, but not first wave), Cycle time derived from 8-10 hours MEB offload
- Deploys in LPD, LSD, and LHD/LHA Amphibious Well Deck Ships of > 2015 with a 30yr service life.
- High speed (>35 knots), high payload (~74 tons), day or night, from offshore 25nm or greater, capable of over-the-beach operations with ability to operate independent of tides, water depth, underwater obstacles, ice, or mud in NATO Sea State 3-4 (significant wave height of 4.1 - 6.2 ft), Beach gradient = current LCAC or >LCAC
- Temp range = current LCAC through Hot Arabian Gulf (~100°F)

Meets Increased Lift Need



SSC Design Strategies

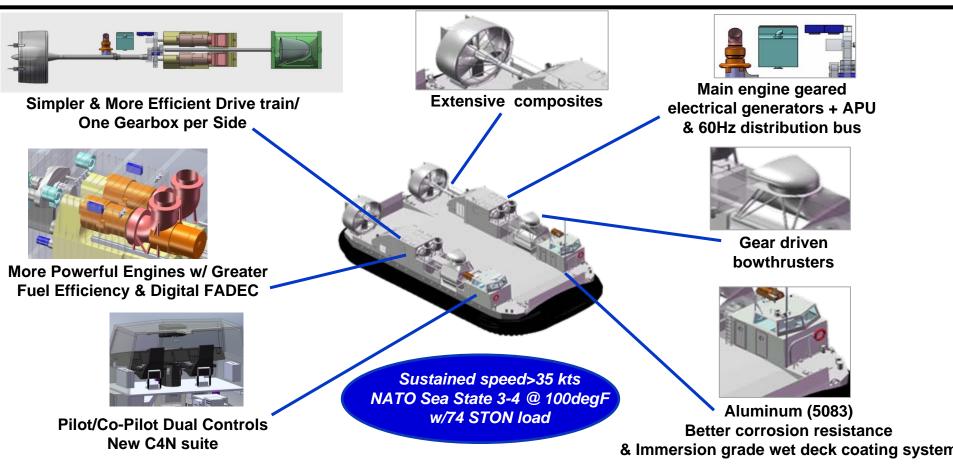
- From the outset, the Ship-to-Shore Connector (SSC) program followed an innovative approach focused on achieving reductions in Total Ownership Cost
- A Government-led Design Team is chartered to produce a design package focused on reducing maintenance costs, mean time to repair and craft manpower
- Design balances performance requirements against life cycle costs while keeping acquisition costs in mind
- Contractor has latitude in system/sub-system level detail design which provides opportunity for additional cost reductions

Affordability will Rival Capability



SSC Improvements vs. LCAC

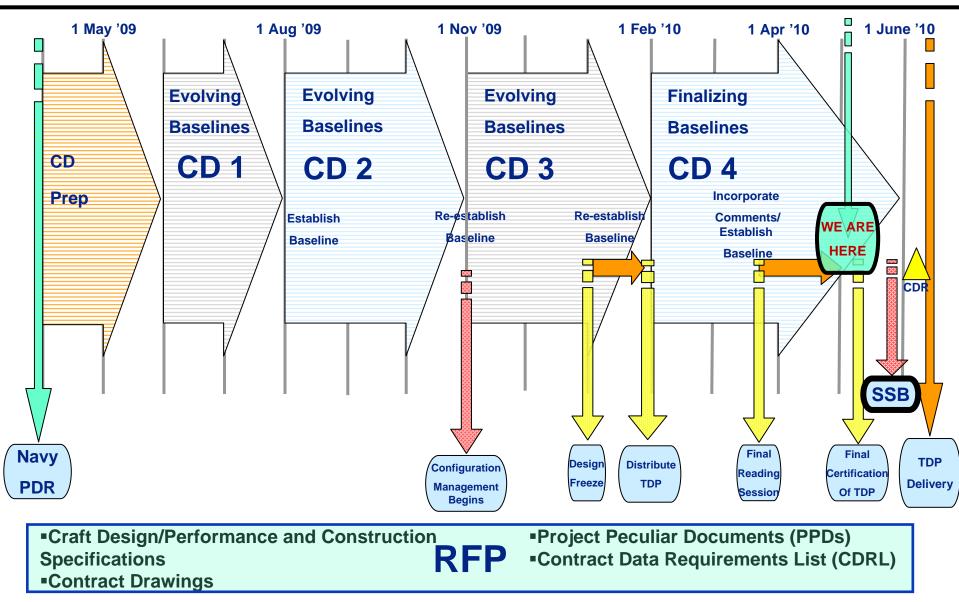
More Lift + Lower Fuel Consumption Rate + Less Maintenance



Government Design ...Shipbuilder Detail Design LOWER TOTAL OWNERSHIP COSTS

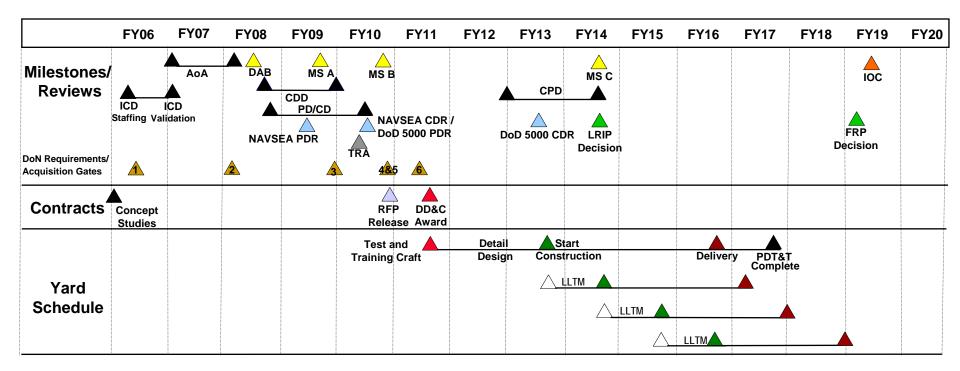


SSC Contract Design (CD) Schedule





SSC Notional Program Schedule



Presented at SSC Industry Day: 08 Dec 2009









BACK UP



USMC Equipment Images



Increased Lift Requirement