



LPD 17 Flight II



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PEO Ships / PMS 317**



**NDIA Expeditionary
Warfare Conference
17 October 2018**





LPD 17 Class Overview



- **LPD 17 Program Profile (26 ships)**
 - Eleven ships delivered and commissioned
 - Ten ships transferred to In-Service; 21 completed deployments
 - LPD 17 Technical Foundation Paper Rev A issued in FY 17 improved the class requirement identification and resourcing
 - One ship in Post Delivery; two ships under construction
- **LPD 27**
 - 13 November 2018 PSA Start
 - July 2019 PSA Concludes (Laser Install)
 - July 2019 OWLD
- **LPD 28**
 - ~ 30% percent complete
 - 2QFY2020 Launch
 - 4QFY2021 Delivery
- **LPD 29**
 - 3QFY2019 Lay Keel
 - ~ 3% percent complete
 - 5 November 2018 Integrated Baseline Review
- **LPD 30**
 - 2 August 2018 Awarded Long Lead Material Contract
 - 9 August 2018 Detail Design & Construction Proposals Received





Evolving to Flight II

LPD FLIGHT I

MISSION CONTINUITY

Medical,
Boat Deck,
Well Deck,
Flight Deck,
CONOPS

Hull Form,
Propulsion

Training,
Lesson
Sharing,
LPD Mid-life

CAPABILITY EVOLUTION

Implement in Three Steps: LPD 28 → LPD 30
Improve Capability, Reduce Maintenance, Reduce Cost
CANES, Mast Design, SSC, Li-Ion, Improved Boat Handling, Improved
Aviation Support & 53K, EASR, HES-C AC, SEWIP, RAM Blk II, Increase
Fuel Efficiency, Improved Electrical Distribution



LPD
FLIGHT II

ONE PROGRAM
Twenty Six Ships, Two Flights



Amphibious Readiness Group (ARG) Evolution



LHD 1-8 / LHA 6-7



LPD 4



LSD 41/49

**Enable Operational
Maneuver from the
Sea**

Improved:

- Capacity for Larger / Heavier Aircraft / Vehicles
- Self Defense
- Survivability
- C4I
- Flexibility (Split ARG)
- Quality of Life

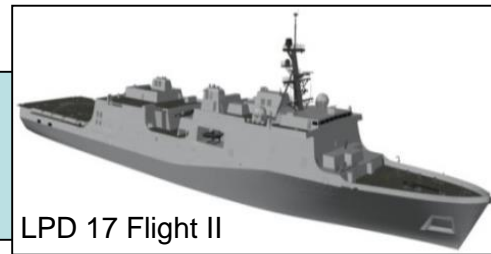
**Enable Ship-to-
Objective Maneuver**



LHA (R) Flt 0/1



LPD 17



LPD 17 Flight II



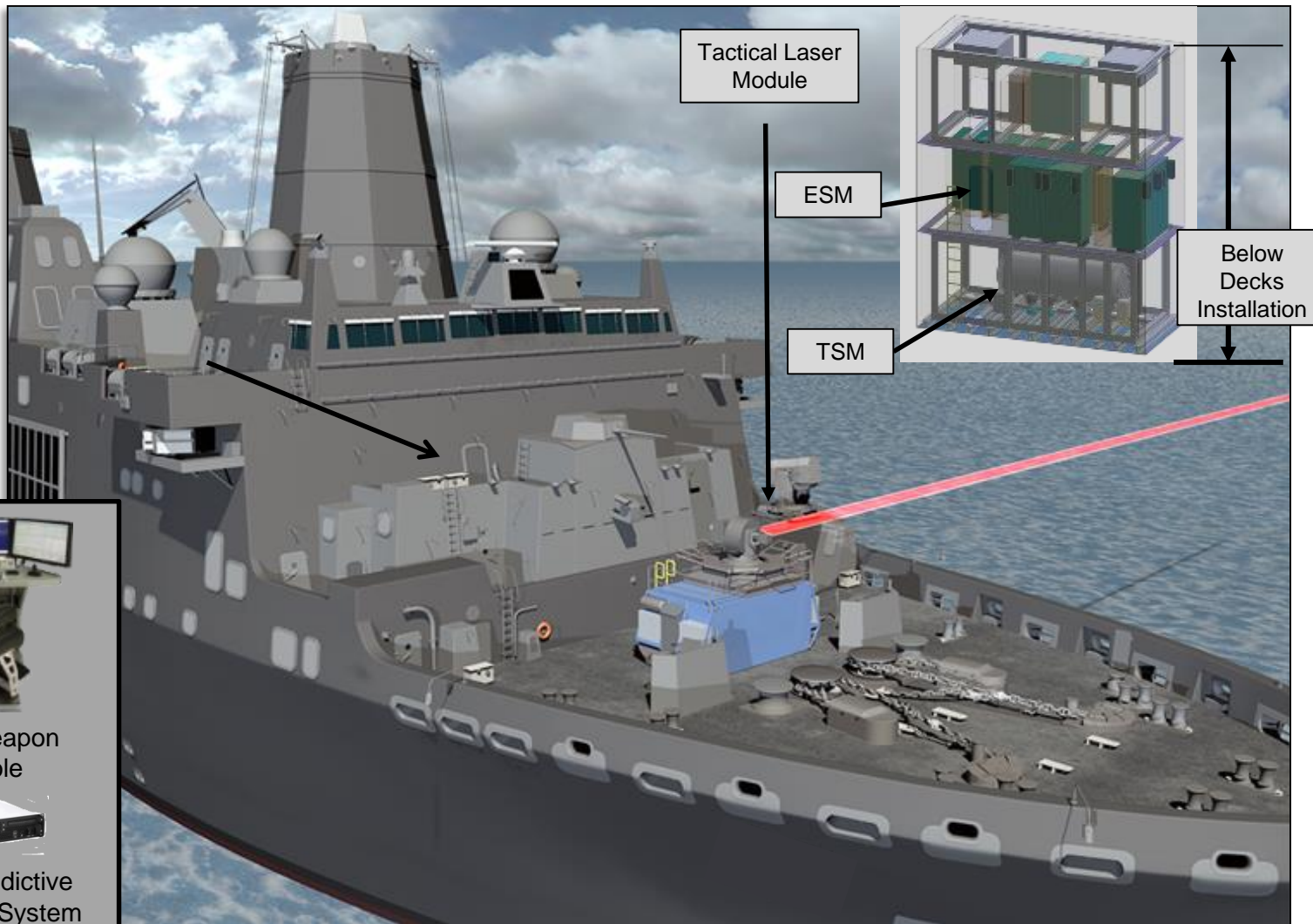
USS PORTLAND (LPD 27)



Distribution Statement A – Approved for public release. Distribution is unlimited



Solid State Laser – Technology Maturation (SSL-TM) Layout



Distribution Statement A – Approved for public release. Distribution is unlimited



FORT LAUDERDALE (LPD 28)



Distribution Statement A – Approved for public release. Distribution is unlimited



RICHARD M. McCOOL Jr. (LPD 29)



Lower Wing Ballast Tank



Inner Bottom



Main Propulsion Diesel Engine Foundations



Ballast Tank and VCHT Room #1



Innovative and New Design Features

- Enterprise Air Search Radar (EASR)
- High Temperature Semi-conductive (HTS) Degaussing System
 - Reduced Loops/BPAUs from approx. 40 to 24
- High Efficiency Super Capacity (HES-C) AC Plants
 - 350 Tons from a 200 Ton footprint
- Propellant Extinguishing Agent Technology (PEAT)
 - Replaces HFP fire suppression
- Electric Vice Hydraulic HM&E Systems
 - Anchor Windless, Stern Gate, and Side Port Doors/Crane
- Flexible Infrastructure for Electronic Spaces
- Modular ACs (MACs) and Modular Refer Units (MRUs)
- Integrated Self-Service Laundry
- Tankless Water Heaters
- Modular Decon Stations
- Improved USMC Weapons Stowage



Best Practice: LPD 17 Strike Team

- **The LPD 17 Strike Team is an integrated team co-led by PMS 317 and SEA21 (Modernization and Maintenance) that collects, solves, and implements class issues.**
 - Membership includes PEO Ships, SEA21, SEA05, ISEA, TYCOMs, SURFMEPP, NSWCs, CNRMC, and all in-service Ship's Force and Port Engineers
 - Has technically resolved 156 of 182 total issues including:
 - USMC Troop Rifle Stowage and Armories – New stowage lockers and arrangement redesign
 - Obsolescence replacements or redesign
 - Class Wide reliability issue (Knuckle boom Crane/Rescue Boat Davit)
- **Integrated into NAVSEA's action items for Comprehensive Review following 2017 ship incidents.**
- **Coordinating with SEA21 on LPD 17 Class Mid-Life Planning**
- **Issues are incorporated in line for new construction and back-fitted into Fleet assets.**





Questions?



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