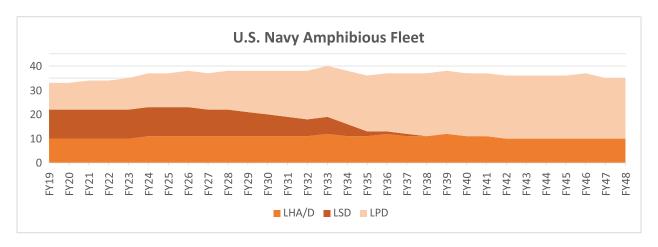


## **Advancing Amphibious Warfare in an Era of Great Power Competition**

#### **KEY POINTS:**

- In order to meet the U.S. Navy requirement of 38 total amphibious warships, the future plan is to include 12 amphibious assault ships (LHA/LHD) and 26 amphibious transport docks (LPDs)
- The Navy's FY2019 30-year Shipbuilding Plan does not reach this requirement until FY2033, when the Navy will briefly achieve 12 amphibious assault ships



# AMPHIBIOUS SHIPS SUPPORT SEA CONTROL AND POWER PROJECTION

- Historically, 38 amphibious warships were needed to provide the lift for a 2-3 MEB assault.
- Today, 38 ships are required for U.S. naval posture to deter aggression, particularly in the Middle East and Indo-Pacific.
  - Amphibious forces are not only used for conducting operations ashore.
    For example, during most of 2018, Amphibious Ready Groups (ARG) were the primary naval forces operating in the Middle East.
  - The replacement of amphibious landing docks (LSD) with LPD Flight II in the early 2030s creates an opportunity for the amphibious fleet to expand its capabilities.
  - By incorporating missile launchers, such as the vertical launch system, LPDs could provide additional lethality in addition to destroyers and cruisers.

### **INDUSTRIAL BASE CHALLENGES:**

- LPD Flight II is not currently being procured using a Block Buy or Multi-Year Procurement model; this eliminates the savings from ordering economic quantities of equipment and materials, which can be more than 10% of the ships' cost.
- The newest LHA, LHA 8, began construction in FY2017 and will deliver in FY2024; LHA 9 currently will not be procured until FY2024, resulting in a 7-year gap between ships; the interval is 3-4 years between ships thereafter.
  - Production gaps idle workers between ship builds. For example, even if a ship takes 4 years to build, hull fabricators may only work on it for the first year; if the next ship does not start for several years, they must be idled, repurposed, or laid off.
  - Production gaps also have an extremely negative impact on the supply vendor base by shutting down the material and equipment suppliers lines of production.

### **RECOMMENDATIONS:**

- Buy LPD Flight II using a Block Buy or Multi-Year Procurement contracting approach
  - In a Block Buy model, multiple ships are contracted at one time and then paid for all at once or incrementally over time.
  - Through a Multi-Year Procurement approach, multiple ships are contracted over multiple years, and each ship is funded as it enters production.
- 2. Bring LHA 9 procurement and construction forward to FY2021
  - Establish a consistent 3 to 4-year build interval instead of waiting until 2024 to do so.
- Incorporate surface-to-surface and surface-to-air missile launchers into LPD Flight II, and investigate installing them on LPD Flight I during their mid-life modernization.
- **4.** Develop a plan for mid-life modernization of amphibious ships, similar to those for destroyers and aircraft carriers
  - LHAs and LPDs would be updated with current C3 systems to enable them to integrate with the rest of the fleet and contribute to the full range of naval missions.

"Today, 38 ships are required for U.S. naval posture to deter aggression."