

GERALD R. FORD Class

CVN 78 Class Program Office



CAPT BRIAN METCALF PROGRAM MANAGER 5 APRIL 2022



Future Aircraft Carriers FORD-Class: The Next Generation





Increased Flexibility

- Nearly 3 times the electric plant capacity of NIM class
- Restored weight and stability service life allowances

Increased Capability

- Increased Sortie Generation Rate
- Increased space for flight deck operations and aircraft maintenance

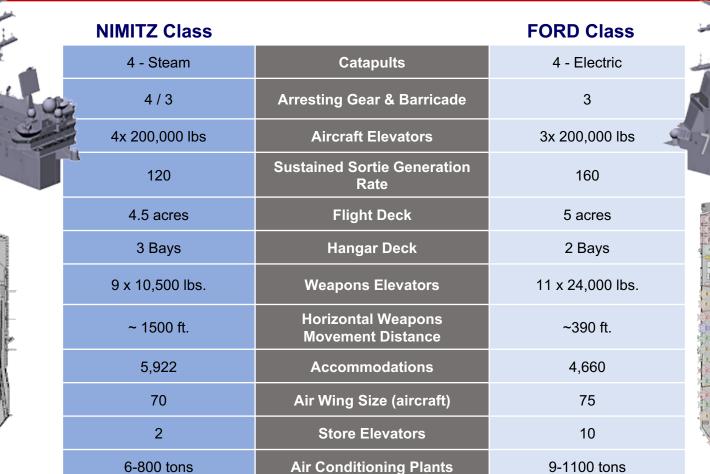
Increased Affordability

- Reduced manning and 20% reduction in maintenance costs
- Designed for 12-year docking intervals/43-month maint. cycle
- > ~\$4.0B TOC reduction/ship



Carrier Class Comparison

Increased Capability – Lower Life Cycle Cost



Shift from steam to electric auxiliaries reduces maintenance requirements, lowering Life Cycle cost.

Fresh Water Generation

500,000 Gallons Per Day

400,000 Gallons Per Day



Gerald R. Ford Class



Achieving Sustained Affordability for the Class

Driving Down Construction Costs

GERALD R. FORD (CVN 78)



- First new CVN design in 40 years
- New design specifications
- Design / build
- Digital manufacturing of pipe, steel
- New facilities

JOHN F. KENNEDY (CVN 79)



- Modified repeat of CVN 78
 - **Enterprise Radar Suite**
 - **Electric Aircraft Elevators**
- Complete Bill of Material at start
- >60.000 lessons learned
- **Build strategy improvements**
- Increased use of digital data

ENTERPRISE (CVN 80) / DORIS MILLER (CVN 81)



- Rollover of CVN 79 design
- Lessons learned from both CVN 78 and CVN 79
- More build strategy improvements
- Integrated Digital Shipbuilding

Two-Ship FPIF contract



CVN 78 GERALD R. FORD



- Full Ship Shock Trials (FSST)
 - Conducted three explosive events using live ordnance on 18 June, 16 July, and 8 August
- CVN 78 First Planned Incremental Availability Aug 2021 Feb 2022
 - Modernization and maintenance
 - FSST Repairs
 - Successfully completed Post PIA Sea Trials
- > Transition to PMS 312 In Service Carriers program office
 - Training and certification in preparation for the ship's first deployment Fall '22





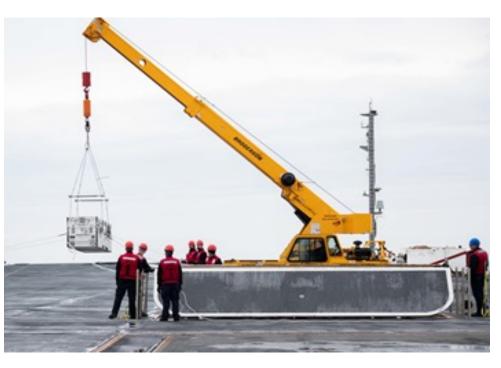


CVN 78 GERALD R. FORD Advanced Weapons Elevators (AWE)



Advanced Weapons Elevators (AWE)

- 11 of 11 AWEs turned over to Ship's Crew
- Over 17,000 elevator cycles performed by the crew in port and at sea, including operations in high sea states







CVN 79 JOHN F. KENNEDY



- > ~ 85% Complete
- 2024 Delivery
 - EASR and JSF
- Single Phase Acquisition Strategy
- **➤** Applying lessons learned from CVN 78

	Fiscal Year								
	24	25	26	27	28	29	30	31	32
CVN 79 JOHN F. KENNEDY									
CVN 80 ENTERPRISE									
CVN 81 DORIS MILLER									







CVN 80 ENTERPRISE / CVN 81 DORIS MILLER



≻CVN 80

- ~ 15% Complete
- 2028 Delivery
 - 2022 Keel Laying
 - First use of Integrated Digital Shipbuilding (iDS)



> CVN 81

- 2032 Delivery
- First Steel Cut August 2021
- Ms. Charlene Austin and Ms.
 Taya Miller announced as Ship Sponsors





Questions



PROUD
SERVICE
TRUST
RESPECT
QUALITY
PROFESSIONAL SUPPORT FLEXIBILITY CONSISTENCY MISSION ACCOUNTABILITY FRESONAL PRASSION ACCOUNTABILITY FRESONAL PROBLEM ACCOUNTABILITY FROM ACCOUNTABILI