



ACIBC



PEO Carrier Program Update

Rear Admiral James P. Downey
Program Executive Officer, Aircraft Carriers
U.S. Navy



Update to ACIBC Action Days

22 March 2022

Rear Admiral James P. Downey
Program Executive Officer, Aircraft Carriers

Ms. Karen M. Davis
Executive Director, PEO Aircraft Carriers



Strategic Importance of Aircraft Carriers

SECNAV Guiding Principles

Strengthen our maritime dominance

Foster a culture of warfighting excellence

Strengthen our partnerships and alliances

“Aircraft carriers remain the most survivable and versatile airfields in the world. They provide our national leaders valuable options, which is why we’re extending their reach through the airwing of the future strategy.”

--CNO Gilday, 11 January 2021



Peacetime

Presence
Humanitarian Assistance

Crisis

Deterrence

Conflict

Power Projection

“History shows the Navy which adapts, learns, and improves the fastest gains an enduring warfighting advantage. The essential element is fostering an ecosystem—a culture—that assesses, corrects, and innovates better than the opposition.”

CNO Gilday, 11 Jan 2022



Portfolio

Mission: Deliver Aircraft Carriers on time, ready for tasking, at an affordable cost

In-service Carriers Program Office

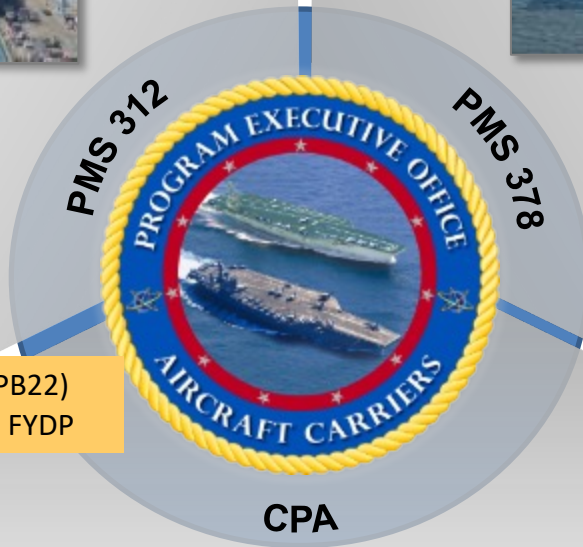


In-service TOA (PB22)
\$10.5B across the FYDP

CVN 78-Class Program Office



New Construction TOA (PB22)
\$13.2B across the FYDP



Carrier Planning Activity



PEO Aircraft Carriers TOA (PB22)
\$23.7B across the FYDP



Where are the Aircraft Carriers?

(as of 14 Mar)

- **USS Harry S. Truman (CVN 75)** Carrier Strike Group (CSG) in the Ionian (Mediterranean) Sea under NATO command
- **USS Abraham Lincoln (CVN 72)** Carrier Strike Group (CSG) is underway in the Philippine Sea
- **USS Nimitz (CVN 68)** is underway off the West Coast
- **USS George H. W. Bush (CVN 77)** is underway in the Virginia Capes
- **USS Carl Vinson (CVN 70)** is pierside in San Diego, celebrating the 40th Anniversary of her Commissioning
- **USS Gerald R. Ford (CVN 78)** completed her inaugural Planned Incremental Availability on 28 Feb, and is in port at Norfolk preparing for deployment workups

In Maintenance

- **USS Ronald Reagan (CVN 76)** is in port in Yokosuka, Japan, conducting her FY 22 Selected Restricted Availability (SRA)
- **USS George Washington (CVN 73)** and **USS John C. Stennis (CVN 74)** are in RCOH at HII-NNS.
- **USS Dwight D. Eisenhower (CVN 69)** is in her FY21 Planned Incremental Availability at NNSY –on track to complete as scheduled in October.
- **USS Theodore Roosevelt (CVN 71)** is in her Docking Planned Incremental Availability at Puget Sound, scheduled to complete in January 2023.

Under Construction

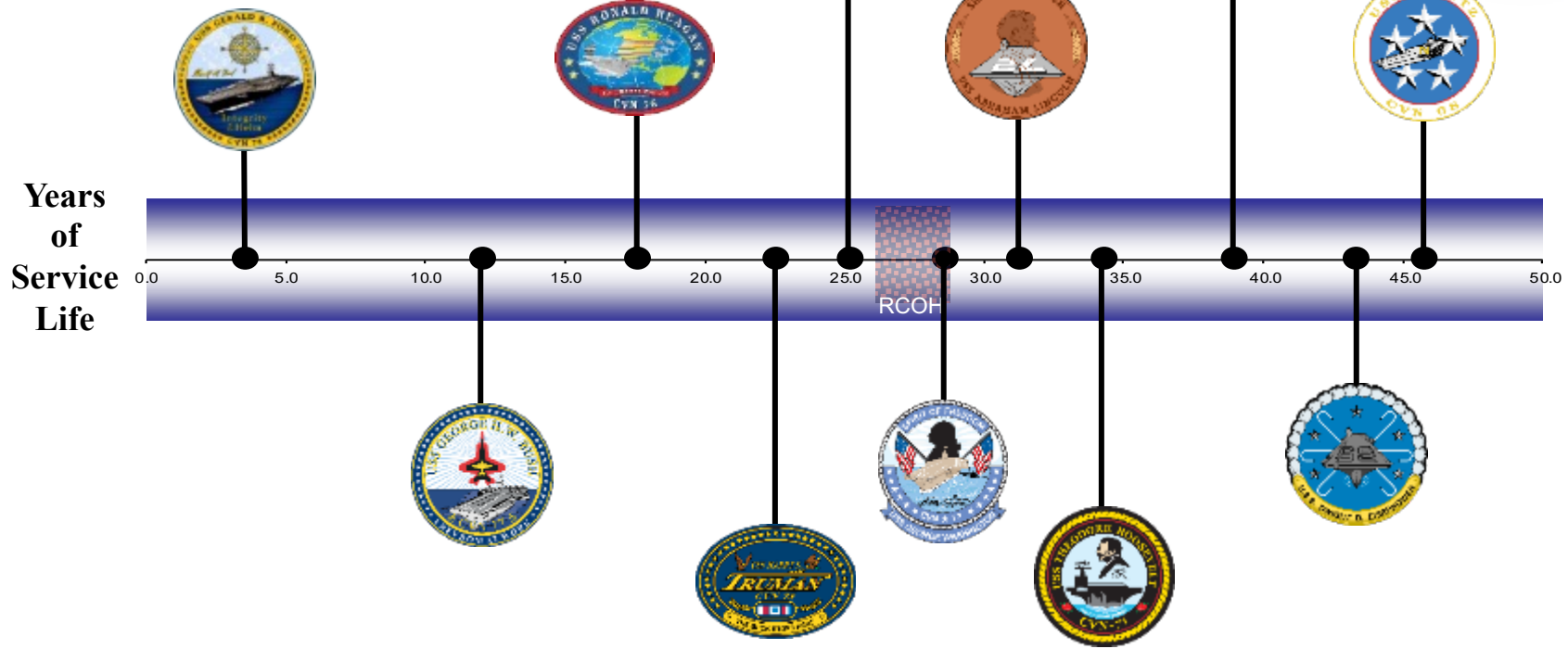
- **John F. Kennedy (CVN 79)** is ~85% complete and tracking to FY24 delivery as planned
- **Enterprise (CVN 80)** is ~12% complete, tracking to a FY28 ship delivery and we'll lay her keel in Summer 2022.
- **Doris Miller (CVN 81)** had her first cut of steel last August and is tracking to a FY32 ship delivery



In-Service Aircraft Carriers

NIMITZ-Class: 500 total carrier-years, serving over 84 years, from 1975 until 2059

FORD-Class: 200 total programmed carrier-years, serving since 2017



Only 60% through the service life of the NIMITZ Class – 200 Carrier-Years remaining
Only 7% through the service life of the commissioned GERALD R. FORD Class

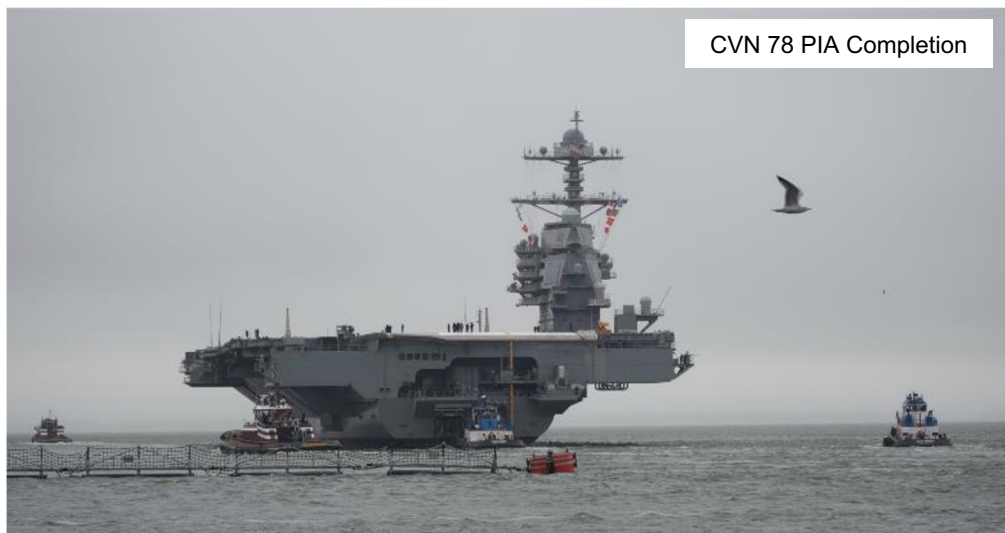


Gerald R. Ford Class Aircraft Carriers

CVN 78 FSST



CVN 78 PIA Completion



CVN 79 Construction

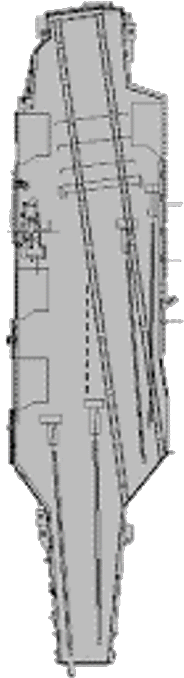
CVN 80 Construction





Carrier Class Comparison

Increased Capability – Lower Life Cycle Cost



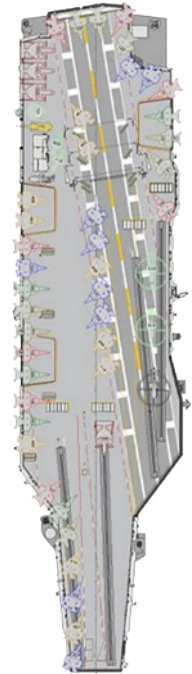
NIMITZ Class

4 - Steam
4 / 3
4x 200,000 lbs
120
4.5 acres
3 Bays
9 x 10,500 lbs.
~ 1500 ft.
5,922
70
2
6-800 tons
400,000 Gallons Per Day

Catapults
Arresting Gear & Barricade
Aircraft Elevators
Sustained Sortie Generation Rate
Flight Deck
Hangar Deck
Weapons Elevators
Horizontal Weapons Movement Distance
Accommodations
Air Wing Size (aircraft)
Store Elevators
Air Conditioning Plants
Fresh Water Generation

FORD Class

4 - Electric
3
3x 200,000 lbs
160
5 acres
2 Bays
11 x 24,000 lbs.
~390 ft.
4,660
75
10
9-1100 tons
500,000 Gallons Per Day



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



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



Gerald R. Ford Class

Achieving Sustained Affordability for the Class

Driving Down Construction Costs

GERALD R. FORD (CVN 78)

Christened Nov 2013
Delivered May 2017
Commissioned Jul 2017



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

JOHN F. KENNEDY (CVN 79)

Christened 7 Dec 2019



- 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)

CVN 80 Planning Contract Awarded May 2016
CVN 80 / CVN 81 Construction began 2019

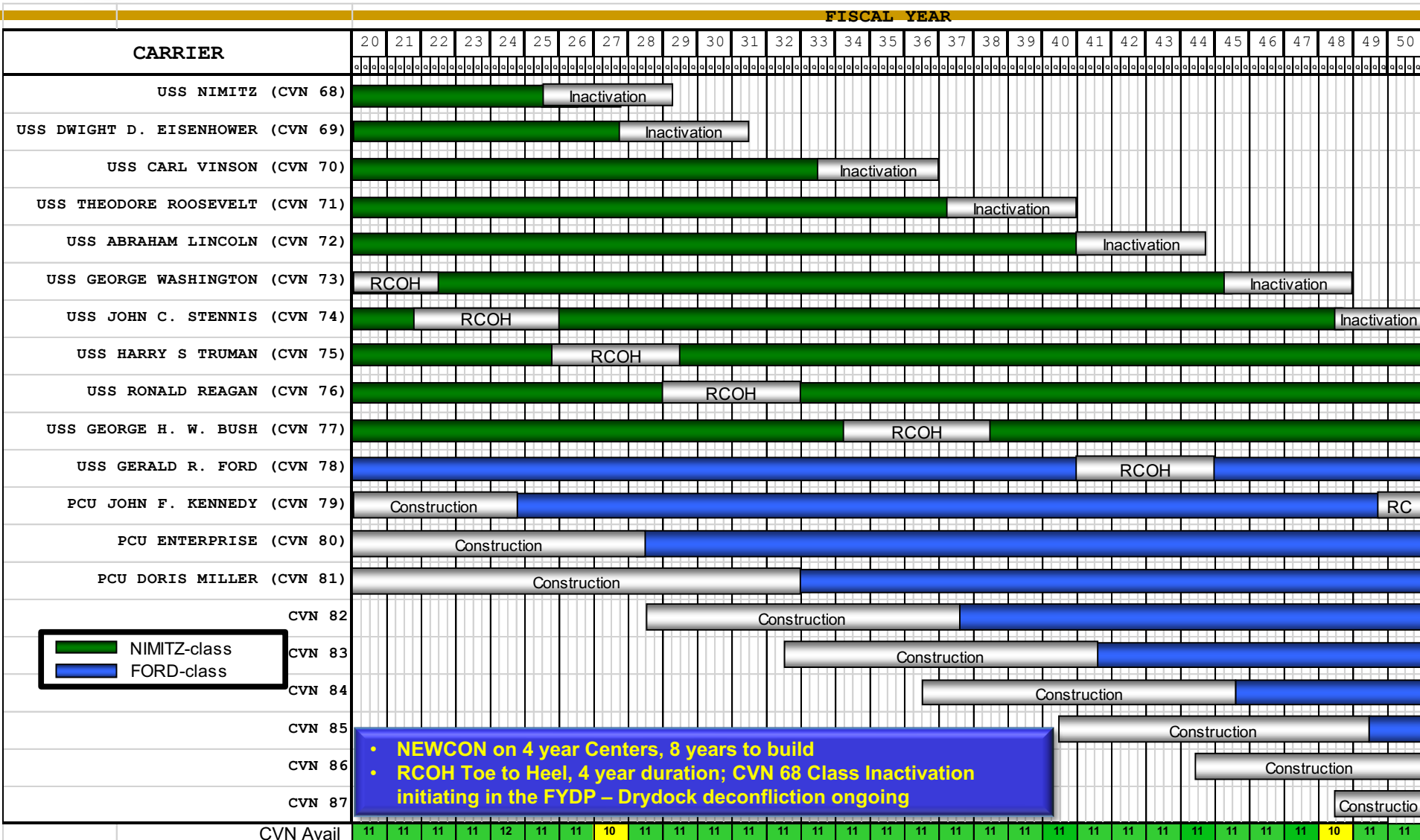


- Rollover of CVN 79 design
- Lessons learned from both CVN 78 and CVN 79
- More build strategy improvements
- Integrated Digital Shipbuilding

Two-Ship FPIF contract



Aircraft Carrier Delivery, RCOH and Inactivation Plan



CVN Avail





Questions



SERVICE
HONESTY
VALUABLE
QUALITY
LOYALTY
PROUD
COMMITMENT
EXCELLENCE
TRUST
DEPENDABILITY
COMPETENCE
PROFESSIONAL
TEAMWORK
MISSION
RESPECT
INTEGRITY
HUMOR
ACCOUNTABILITY
HONOR
LEGACY
ACCEPTING
FLEXIBILITY
PASSION
DEDICATION
KNOWLEDGE
CREATIVITY
SUPPORT
COLLABORATION
PURPOSE

HONOR COURAGE COMMITMENT