Aircraft Carriers: Years of Service

- NIMITZ-Class: 500 total carrier-years, serving over 84 years, from 1975 until 2059
- Only 44% through the service life of the NIMITZ Class – 279 carrier-years remaining
- FORD-Class: 10 carriers, serving 2015 until 2110
CVN 78 Class Ship Improvements

Integrated Island
- Smaller Island Re-Positioned
- Aft & Outboard Mast with Clamp Antenna
  - Joint Precision Approach and Landing System
  - Dual Band Radar
  - Enlarged Flight Deck Footprint “Pit Stop”
  - Advanced Arresting Gear
  - Aircraft Elevators (3) Stbd Sponson Redesign

New Propulsion/Electric Plant
- Zonal Electrical Distribution System
- All-Electric Aux Services
- New Propulsion Plants

Improved Weapon & Material Handling
- Advanced Weapons Elevators
- Heavy Underway Replenishment
- Plasma Arc Waste Destruction System
- Evolved Sea Sparrow Missile

Enhanced Flight Deck
- Enlarged Flight Deck Footprint “Pit Stop”
- #4 Catapult Unrestricted
- Hangar Bays (2)
- Electromagnetic Aircraft Launching System (4)

Improved Survivability
- Underwater Protection

Enhanced Ship Self Defense
- Improved Survivability
- Enhanced Survivability
- Survivability

KPP CVN 21
- Threshold
  - Sustained SGR: 160
  - Surge SGR: 270
  - Service Life Allowance: 5%Wt / 1.5 ft KG
  - Net Ready: Attain Critical KIPs
  - Electrical Capacity: 2.5X NIMITZ
  - Manpower: 500 reduction
  - Force Protection: Classified
  - Survivability: Classified

- Objective
  - 220
  - 310
  - 7.5%Wt / 2.5 ft KG
  - Attain all KIPs
  - 3.0 X NIMITZ
  - 900 reduction
  - Classified
  - Classified

Note: GFE systems are shown in green font.

1 March 2012
PEO Aircraft Carriers
John F. Kennedy (CVN 79)
Construction and Contract Status

Construction Preparation (CP)
- Long lead material procurement since FY07
- Engineering / cost savings analyses
- Advance construction since FY11
  - 139 units under contract (~11% of total)
  - 127 units started to date; 71 complete
  - Shipbuilder has 1030 personnel working on CVN 79
- CP extension awarded

Detail Design and Construction (DD&C)
- FY13 award, with 6 years incremental full funding
- Shipbuilder proposed optimum build schedule with delivery NLT Sept 2022
- Government team currently evaluating shipbuilder proposal