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Navy Aircraft Carriers: Proposed Retirement of USS John F. Kennedy — Issues and Options for Congress

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Summary

The Navy's FY2006 budget proposes retiring the conventionally powered aircraft carrier John F. Kennedy (CV-67) in FY2006 and reducing the size of the carrier force from 12 ships to 11. The Kennedy is homeported in Mayport, FL. The proposal would not retire any other ships or any of the Navy's carrier air wings. Prior to this proposal, the Navy's plan was to maintain a force of 12 carriers and keep the Kennedy in operation until 2018.

The issue for Congress is whether to approve, reject, or modify the proposal to retire the Kennedy and reduce the carrier force to 11 ships. Congress' decision on this issue could affect U.S. military capabilities, Department of Defense (DOD) funding requirements, the Mayport home port, and the shipbuilding overhaul and repair industrial base.

DOD has estimated that retiring the Kennedy in FY2006 would reduce DOD funding requirements for FY2006-FY2011 by a net total of about \$1.2 billion. The Kennedy had been scheduled to begin a \$350-million, 15-month overhaul in May 2005. In light of the proposal to retire the Kennedy, the Navy wants to use the \$350 million to finance other Navy needs. On April 1, 2005, the Navy announced that it had canceled the overhaul. The Navy and DOD reportedly are also considering eventually reducing the carrier force further, to 10 or 9 ships.

Many observers consider the Navy's carriers to be its most important ships. Since the end of the Cold War, Navy carriers and their air wings have participated in numerous operations. Carriers and their air wings are considered particularly useful in situations where U.S. access to overseas air bases is absent or restricted.

One potential issue for the 109th Congress is whether the carrier force should include 12 ships or some other number. If a carrier is to be retired in the near term so as to reduce the carrier force to 11 ships, a second potential issue is whether that carrier should be the Kennedy or another ship. Potential alternatives to the Kennedy include the conventionally powered Kitty Hawk and the nuclear-powered carriers Enterprise and Vinson. A third potential issue for Congress concerns the relative military advantages of different homeporting arrangements for the carrier force.

Options for Congress for preserving at least 12 carriers include permanent legislation, annual legislation, binding report language, and bill or report language expressing the sense of the Congress. Options for retiring a carrier and reducing the force to 11 ships include retiring the Kennedy in FY2006, retiring the Kennedy when Mayport, FL is qualified as a nuclear-carrier home port, retiring the Kitty Hawk and transferring the Kennedy to the Kitty Hawk's home port in Japan, retiring the Kitty Hawk and transferring a nuclear-powered carrier to Japan, retiring the Enterprise, and retiring the Vinson. **Senate Amendment 265** would add a provision to **H.R. 1268**, the emergency supplemental appropriations bill for 2005, that would effectively prohibit FY2005 funds from being used to reduce the carrier from 12 ships to 11.

Contents

Introduction and Issue For Congress	1
Background	1
Proposal To Retire Kennedy And Reduce To 11 Carriers	1
Reported Consideration Of Reduction To 10 or 9 Carriers	3
Size Of Carrier Force In Recent Years	3
Current Carrier Force	4
Roles and Missions of Carriers	6
Carrier Home Ports	6
BRAC 2005	7
Issues for Congress	8
Size Of Carrier Force	8
Carrier To Be Retired	11
Carrier Homeporting Arrangements	13
Options For Congress	15
Options for Preserving 12 Carriers	16
Permanent Legislation	16
Annual Legislation	16
Binding Annual Report Language	16
Non-Binding Language	16
Options For Retiring A Carrier And Reducing To 11	17
Retire Kennedy In FY2006	17
Retire Kennedy When Mayport Is Nuclear-Qualified	17
Retire Kitty Hawk and Transfer Kennedy To Yokosuka	17
Retire Kitty Hawk and Transfer A Nuclear Carrier to Yokosuka	17
Retire Enterprise	17
Retire Vinson	17
Legislative Activity	18
H.R. 304/S. 145	18

List of Tables

Table 1. Estimated Funding Changes From Carrier Retirement	3
Table 2. Current and Projected Navy Aircraft Carriers	5

Navy Aircraft Carriers: Proposed Retirement of USS John F. Kennedy — Issues and Options for Congress

Introduction and Issue For Congress

The Navy's FY2006 budget proposes retiring the conventionally powered aircraft carrier John F. Kennedy (CV-67) in FY2006 and reducing the size of the carrier force from 12 ships to 11. The Kennedy is homeported in Mayport, FL, near the Georgia border. The proposal would not retire any other ships or any of the Navy's carrier air wings. Prior to this proposal, the Navy's plan was to maintain a force of 12 carriers and keep the Kennedy in operation until 2018.

The issue for Congress is whether to approve, reject, or modify the proposal to retire the Kennedy and reduce the carrier force to 11 ships. Congress' decision on this issue could affect U.S. military capabilities, Department of Defense (DOD) funding requirements, the Mayport home port, and the shipbuilding overhaul and repair industrial base.

Background

Proposal To Retire Kennedy And Reduce To 11 Carriers

The proposal to retire the Kennedy in FY2006 first came to light in an internal DOD budget-planning document called *Program Budget Decision (PBD) 753*, which was approved on December 23, 2004, by Deputy Secretary of Defense Paul Wolfowitz. *PBD 753* set forth a number of significant adjustments to the FY2006 budget and FY2006-FY2011 Future Years Defense Plan (FYDP), including the proposal to retire the Kennedy.¹ The net effect of the various adjustments proposed in *PBD 753* would be to reduce projected DOD funding requirements for FY2006-FY2011 by \$30 billion, or an average of \$5 billion per year.

PBD 753 estimated that retiring the Kennedy in FY2006 would reduce DOD funding requirements for FY2006-FY2011 by a net total of about \$1.2 billion, or about 4% of the \$30 billion in net savings proposed in *PBD 753*. Although *PBD 753*

¹ Although *PBD 753* was an internal DOD planning document, press reports on the document began to appear by the end of December, and the text of the document was posted in early January 2005 on a publicly accessible defense trade press website [<http://www.defensenews.com/content/static/dn.pbd753.pdf>].

proposes cancelling or reducing many DOD weapon procurement programs, the retirement of the Kennedy and the resulting reduction of the Navy's carrier force to 11 ships is the only adjustment in *PBD 753* that clearly called for a reduction in the operational force structure of a military service.

The Kennedy had been scheduled for a \$350-million overhaul that was to begin at its home port of Mayport, FL, on May 2, 2005, shift to the government-operated Norfolk Naval Shipyard at Norfolk, VA, on June 17, 2005, and be finished there on August 18, 2006.² In light of the proposal to retire the Kennedy, the Navy wants to use the \$350 million to finance other Navy needs.³ On April 1, 2005, the Navy announced that it had canceled the overhaul.⁴

Navy officials have said that following its retirement, the Kennedy would be placed in preservation status (i.e., it would be "mothballed") to preserve the option of reactivating it at some point. The ship might be reactivated, they have said, if a conventionally powered carrier is needed to succeed the conventionally powered Kitty Hawk (CV-63) as the carrier that is forward-homeported in Japan (see section below on carrier home ports).⁵

Table 1 on the next page shows the year-by-year funding changes for FY2006-FY2011 of retiring the Kennedy in FY2006, as estimated in *PBD 753*. As shown in the table, retiring the Kennedy would result in an estimated steady-state savings of roughly \$300 million per year starting in FY2008, including roughly \$200 million per year for crew pay and allowances, and roughly \$100 million per year in ship operation and maintenance (O&M) costs. The \$179 million additional cost in FY2006 is a financial payment to the Norfolk Naval Shipyard to compensate that yard for the loss of the Kennedy overhaul. The payment is intended to avoid furloughs at the yard and prevent a steep increase in the man-day rates (i.e., daily

² The total cost of the overhaul was estimated at about \$350 million. Congress provided funds for the total cost of the overhaul in the FY2005 defense budget. Of the approximate \$350-million total cost, the work at Mayport was estimated at roughly \$20.5 million, another \$254 million was budgeted for the Norfolk Naval Shipyard, and another \$75 million or so was budgeted for work to be done, or materials to be provided by, various public- and private-sector organizations in the Norfolk area and other locations. As of early January 2005, a total of about \$24 million had been spent for advance planning for the overhaul. (Source: Telephone conversations with Navy Office of Legislative Affairs and OPNAV N431 — a branch of the Navy's Fleet Readiness and Logistics [N4] office — on Jan. 7, 2005.)

³ See, for example, Geoff Fein, "Navy To Redirect Funds For Kennedy Overhaul To Maintain Other Ships," *Defense Daily*, March 17, 2005; Dale Eisman, "Carrier Speeding To Retirement," *Norfolk Virginian-Pilot*, March 11, 2005. Competitive bids for work involved in the overhaul were originally scheduled to be submitted by January 19, but the Navy in January postponed that deadline to March. (Allison Connolly, "Navy Delays Overhaul Bids On JFK," *Norfolk Virginian-Pilot*, Jan. 7, 2005.)

⁴ William H. McMichael, "Kennedy Overhaul Work Stops," *NavyTimes.com*, April 1, 2005.

⁵ See, for example, Geoff Fein, "Navy To Redirect Funds For Kennedy Overhaul To Maintain Other Ships," *Defense Daily*, March 17, 2005; Dale Eisman, "Navy Plans To Mothball Carrier JFK, Not Scrap It," *Norfolk Virginian-Pilot*, February 18, 2005.

laborer costs) that the yard charges for overhaul and repair work to be done there on other Navy ships.

Table 1. Estimated Funding Changes From Carrier Retirement
(FY2006-FY2011, in millions of then-year dollars)

	FY06	FY07	FY08	FY09	FY10	FY11	FY06- FY11 Total
Personnel pay & allowances		- 90.0	- 184.0	- 189.0	- 197.0	- 203.0	- 863.0
Ship operations	- 33.8	- 26.8	- 49.9	- 46.4	- 47.3	- 40.2	- 244.4
Ship maintenance	- 10.9	- 40.5	- 54.4	- 41.0	- 60.0	- 63.3	- 270.1
Workload loss	179.0						179.0
TOTAL	134.3	- 157.3	- 288.3	- 276.4	- 304.3	- 306.5	- 1,198.5

Source: U.S. Department of Defense. *Program Budget Decision, PBD 753*. Washington, 2004. (Dec. 23, 2004) pp. 8, 11, 12.

Reported Consideration Of Reduction To 10 or 9 Carriers

In addition to the proposal to retire the Kennedy and reduce the carrier force to 11 ships, the Navy and DOD reportedly are considering reducing the carrier force further, to 10 or 9 ships, perhaps following the Quadrennial Defense Review (QDR) that DOD is scheduled to submit to Congress in late 2005 or early 2006.⁶

Size Of Carrier Force In Recent Years

The Navy's force of large-deck aircraft carriers has generally fluctuated between 12 and 15 carriers since FY1951. It reached a late-Cold War peak of 15 ships in FY1987-1991, and began declining after that, along with the size of the Navy as a whole. The carrier force declined to 12 ships in FY1994, and has remained there since, even while the total number of ships in the Navy has continued to decline.⁷

⁶ Jason Sherman, "More Cuts To Major Weapons Programs Could Be On The Way," *Inside the Pentagon*, Jan. 6, 2005; Bryan Bender, "Arms Reductions, Troop Increase Eyed," *Boston Globe*, Dec. 17, 2004: 1. See also Loren B. Thompson, "QDR Targets Weapons Programs; FCS, JSF Likely Hit," *Defense Today*, Dec. 10, 2004: 1, 3-4. For additional discussion on the possibility of reducing the carrier force to nine ships and other potential Navy force-structure reductions, see CRS Report RL32665, *Potential Navy Force Structure and Shipbuilding Plans: Background and Issues for Congress*, by Ronald O'Rourke.

⁷ The carrier force reached 16 carriers in FY1962 and FY1965. The carrier force numbered 13 ships from FY1976 through FY1981, 14 ships from FY1982 through FY1986, 15 ships from FY1987 through FY1991, 14 ships in FY1992, 13 ships in FY1993, and 12 ships since (continued...)

From FY1995 through FY2000, the Kennedy was operated as an “operational/reserve training carrier” with a partially reserve crew. During this period, the Navy’s force of 12 carriers was often characterized as an “11+1” force. The Kennedy reverted to being a fully active carrier in FY2001.

Current Carrier Force

Table 2 on the next page summarizes the Navy’s carrier force. As shown in the table, the force currently includes two conventionally powered carriers — the Kitty Hawk (CV-63) and the Kennedy (CV-67) — and 10 nuclear-powered carriers — the one-of-a-kind Enterprise (CVN-65) and nine Nimitz-class ships (CVN-68 through -76). The paragraphs below provide information about individual carriers that is of potential relevance to the proposal to retire the Kennedy in FY2006.

The **Kitty Hawk**, Navy’s oldest carrier, entered service in April 1961. In 1991, the ship completed an extensive service life extension program (SLEP) overhaul that was intended to extend its service life from about 30 years to about 45 years. The ship is scheduled to be replaced in 2008, at age 47, by the George H. W. Bush (CVN-77), which was procured in FY2001.

The **Enterprise**, the Navy’s next-oldest carrier, entered service in November 1961, seven months after the Kitty Hawk. In 1994, the ship completed a nuclear refueling complex overhaul (RCOH) that was intended to extend its service life by about 20 years, to 2014. The ship is scheduled to be replaced in 2015 by CVN-21 (also called CVN-78), a new carrier that the Navy plans to procure in FY2008.⁸ Unlike the Navy’s newer Nimitz-class carriers, each of which is powered by two nuclear reactors, the Enterprise is powered by eight nuclear reactors, making the Enterprise’s reactor plant more complex and expensive to maintain, at least in the view of some observers, than the reactor plants of the Nimitz-class ships.

The **Kennedy**, the Navy’s third-oldest carrier, entered service in 1968. Unlike the Kitty Hawk, which was given an extensive SLEP overhaul, the Kennedy was given a less extensive (but still fairly substantial) complex overhaul (COH) that was completed in 1995.⁹ Prior to the proposal to retire the Kennedy in FY2006, the Kennedy was scheduled to be replaced in FY2018, at age 50, by CVN-22 (also called

⁷ (...continued)

FY1994. These figures are for the end of each fiscal year. The total size of the Navy reached a late-Cold War peak of 568 battle force ships in FY1987 and began declining thereafter. In 1994, when the current total of 12 carriers was reached, the total number of battle force ships had declined to 391 ships. The Navy has since declined to 289 battle force ships as of March 18, 2005.

⁸ For more on CVN-21, see CRS Report RS20643, *Navy CVN-21 Aircraft Carrier Program: Background and Issues for Congress*, by Ronald O’Rourke.

⁹ The SLEP overhaul for the Kitty Hawk lasted about 3½ years, from January 28, 1988, to August 31, 1991. The complex overhaul for the Kennedy lasted two years, from September 13, 1993, to September 15, 1995, and was budgeted at about \$491 million. (Source: Polmar, Norman. *The Naval Institute Guide to the Ships and Aircraft of the U.S. Fleet*. Annapolis (MD), Naval Institute Press, 1997 (17th edition). p. 118.

CVN-79), an aircraft carrier that the Navy had planned to procure in FY2011. (The FY2006 budget and FY2006-FY2011 FYDP defers the procurement of CVN-22 to a year beyond FY2011.)¹⁰ Since the Kennedy did not receive a SLEP overhaul at about age 30, some observers have questioned whether the ship could be kept in service to age 50.

Table 2. Current and Projected Navy Aircraft Carriers
(projected carriers in italics)

Hull Number	Name	Procured	In Service	Notes
CV-63	Kitty Hawk	FY56	4/1961	Home port Yokosuka, Japan. SLEP completed 1991. To be replaced by CVN-77 in 2008.
CVN-65	Enterprise	FY58	11/1961	Home port Norfolk, VA. RCOH completed 1994. To be replaced by CVN-21 in 2014.
CV-67	John F. Kennedy	FY63	1968	Home port Mayport, FL. COH completed 1995. Was to be replaced by CVN-22 in 2018 .
CVN-68	Nimitz	FY67	1975	RCOH completed 2001.
CVN-69	Dwight D. Eisenhower	FY70	1977	RCOH to be completed 2004.
CVN-70	Carl Vinson	FY74	1982	Home port Bremerton, WA. RCOH scheduled 2005-2008.
CVN-71	Theodore Roosevelt	FY80	1986	
CVN-72	Abraham Lincoln	FY83	1989	
CVN-73	George Washington	FY83	1992	
CVN-74	John C. Stennis	FY88	1995	
CVN-75	Harry S. Truman	FY88	1998	
CVN-76	Ronald Reagan	FY95	2003	
CVN-77	George H. W. Bush	FY01	2008	<i>Is to replace CV-63 in 2008.</i>
<i>CVN-21</i>	<i>TBD</i>	<i>FY08</i>	<i>2015</i>	<i>Is to replace CVN-65 in 2015.</i>
<i>CVN-22</i>	<i>TBD</i>	<i>FY12 or later</i>	<i>2019 or later</i>	<i>Previous plan was to procure ship in FY2011 and have it replace CV-67 in 2018.</i>

Notes: CV = conventionally powered carrier; CVN = nuclear-powered carrier; SLEP = service life extension program overhaul; RCOH = refueling complex overhaul; COH = complex overhaul. CVN-21 and CVN-22 also known as CVN-78 and CVN-79, respectively. Home port locations as of December 2004.

¹⁰ For more on CVN-22, see CRS Report RS20643, *op cit.*

The **Nimitz** (CVN-68), the first of the Navy's Nimitz-class carriers, entered service in 1975 and completed an RCOH in 2001. The **Dwight D. Eisenhower** (CVN-69), which entered service in 1977, was scheduled to complete an RCOH in November 2004. These RCOHs, like the Enterprise RCOH, are intended to permit each ship to remain in service for an additional 20 years.

The **Carl Vinson** (CVN-70), the third Nimitz-class carrier, entered service in 1982. The ship is scheduled for an RCOH that is to begin in November 2005 and finish in November 2008. The total estimated cost of this RCOH is \$3,134.3 million, of which \$861.5 million in advance procurement funding has been provided from FY2001 through FY2005. The Navy has requested another \$1,493.6 for FY2006, and plans to request the final \$779.2 million in FY2007. Nimitz-class RCOHs are performed by Northrop Grumman's Newport News (NGNN) shipyard, located at Newport News, VA.

Roles and Missions of Carriers

Many observers consider the Navy's carriers to be its primary capital ships — its most important ships, both operationally and symbolically.¹¹ Shorthand descriptions of the Navy have often been based on the number of carriers in the fleet. The 600-ship Navy planned by Reagan administration in the 1980s, for example, was often referred to as a 15-carrier Navy. Observers have noted over the years that when a crisis occurs overseas, one of the first questions asked by U.S. leaders has often been, "Where are the carriers?"

Carrier-based aircraft are capable of performing various missions. Since the end of the Cold War, Navy carriers and their air wings have spent much of their time enforcing no-fly zones over Iraq and conducting land-attack operations in the Balkans, Afghanistan, and Iraq. Carriers and their air wings are considered particularly useful in situations where U.S. access to overseas air bases is absent or restricted — a circumstance that some observers believe has become more likely since the end of the Cold War. Carriers can also be used for other purposes. In 1994, a carrier was used to transport a helicopter-borne Army unit to the vicinity of Haiti, and in 2001-2002, a carrier was used to embark helicopter-borne special operations forces that were used in Afghanistan. Carriers have also been used in disaster-relief operations, such as the recent one for assisting countries affected by the Indian Ocean tsunami. Given their ability to embark different combinations of aircraft, carriers are considered to be highly flexible naval platforms.

Carrier Home Ports

As of December 3, 2004, the Navy's 6 Pacific Fleet carriers were homeported at San Diego, CA (2 ships), Bremerton, WA (2 ships), Everett, WA (1 ship), and Yokosuka, Japan (1 ship), while the Navy's 6 Atlantic Fleet carriers were homeported at Norfolk, VA (5 ships) and Mayport, FL (1 ship — the Kennedy).

¹¹ The Navy's ballistic missile submarines (SSBNs) are also often considered the Navy's primary capital ships. SSBNs are dedicated to the specialized mission of strategic nuclear deterrence.

The Kennedy, whose crew numbers about 2,900, contributes about \$250 million each year to the local Mayport economy.¹²

In addition to the Kennedy, Mayport as of December 3, 2004 was the home port for 20 other Navy ships — four cruisers, five destroyers, and 11 frigates. Some of these ships belong to the Kennedy battle group. Mayport currently is not qualified to serve as the home port for a nuclear-powered carrier, but some studies on what it would take to qualify Mayport as a nuclear-carrier home port have been undertaken in recent years. Mayport is close to the naval air station at Jacksonville, FL, where some of the Navy's aircraft are based, and to the naval aviation depot at Jacksonville, which repairs some of the Navy's planes.

The Navy has forward-homeported a carrier at Yokosuka (pronounced yo-KOS-ka) since the early 1970s. The forward homeporting of a carrier in Japan considerably reduces the total number of carriers needed in the force to maintain day-to-day deployments of carriers in the Western Pacific and Indian Ocean. The Kitty Hawk is the third Navy carrier to be homeported there. All three have been conventionally powered. (The other two have since been retired.) In light of strong anti-nuclear sentiments in Japan that date back to the U.S. use of two nuclear bombs against Japan in World War II, observers believe that a Navy proposal to homeport one of its nuclear-powered carriers there would meet with potentially substantial public opposition.¹³

The Navy is reportedly considering transferring one of its carriers to Hawaii or Guam. Homeporting a carrier in Hawaii or Guam would further reduce the total number of carriers needed in the force to maintain day-to-day deployments of carriers in the Western Pacific and Indian Ocean.

BRAC 2005

The proposal to retire the Kennedy, which would leave Mayport at least temporarily without a carrier, comes in the midst of the 2005 round of the Base Realignment and Closure (BRAC) process. BRAC rounds can generate concern among Members and their constituents regarding the potential fate of military bases in their areas. In the midst of a BRAC round, actions that might reduce the importance of a base — such as the removal of a major military unit — can increase concerns regarding the fate of that base.¹⁴

Senator John Warner, the Chairman of the Senate Armed Services Committee, has expressed concern that conducting an environmental impact study (EIS) on

¹² Source for crew size and \$250-million figure: January 19, 2005, email from Navy Office of Legislative Affairs. The figure of 2,900 is for the crew that operates the ship. An additional 2,500 or so personnel operates the ship's embarked air wing, but most or all of those personnel are based in locations elsewhere in the United States.

¹³ For a discussion of this issue, see Christopher P. Cavas, "Next U.S. Carrier in Japan May Be Nuclear," *DefenseNews.com*, February 21, 2005.

¹⁴ For more on BRAC 2005, see CRS Report RL32216, *Military Base Closures: Implementing the 2005 Round*, by David E. Lockwood.

qualifying Mayport as a home port for nuclear-powered carriers could raise questions about the integrity of the BRAC process. Secretary of the Navy Gordon England has responded by saying that, in his view, conducting an EIS would not interfere with the BRAC process.¹⁵

Issues for Congress

DOD's proposal to retire the Kennedy in FY2006 and thereby reduce the carrier force to 11 ships raises potential issues for Congress concerning the appropriate size of the carrier force, the Navy's selection of the Kennedy as the carrier to retire, and carrier homeporting arrangements. Each of these is discussed below.

Size Of Carrier Force

The appropriate size of the carrier force is a frequent, even classic, topic of debate in military force-structure planning. Over the years, as strategic, technological, and budgetary circumstances have evolved, some observers have argued in favor of a force of 12 or more carriers, while others have argued for a force of 11 or fewer carriers.

Supporters of maintaining a force of 12 or more carriers, at least for the time being, could argue the following:

- Decisions on important force-structure issues like the size of the carrier force should be made not through a budget-planning document such as *PBD 753*, but rather through a more deliberate policy-review process such as the 2005 QDR. A decision to reduce the carrier force to 11 ships prior to the completion of the QDR is premature.
- During the past half century, carrier force has never dropped below 12 ships, illustrating the enduring need for a force of at least that many ships. After experimenting with an "11+1" carrier force in FY1995-FY2000 (11 fully active carriers plus one operational/reserve training carrier), DOD returned to a force of 12 fully active carriers, suggesting that DOD was dissatisfied with a force of less than 12 fully active carriers.
- Since the end of the Cold War, carriers have been kept very busy and have proven their value in numerous operations.

¹⁵ Christopher J. Castelli, "Disagreeing With Warner, Navy Insists Mayport Study Not BRAC Issue," *Inside the Navy*, March 7, 2005; Dale Eisman, "Sen. Warner Opens Battle To Maintain Norfolk Fleet," *Norfolk Virginian-Pilot*, February 11, 2005.

- In an era of uncertain U.S. access to overseas air bases, the value of carriers as sovereign U.S. bases that can operate in international waters, free from political constraints, is particularly significant.¹⁶
- The increasing number of targets that can be attacked each day by a carrier air wing¹⁷ is making carriers even more cost effective as U.S. military platforms, which argues in favor of retaining them in the U.S. force structure, not retiring them.
- The Navy, like the other services, is moving to implement network-centric warfare, which refers to the use of computers and networking technology to link individual military units into a series of local- and wide-area networks.¹⁸ Carrier-based aircraft are to constitute many of the “nodes” in the network, which argues in favor of retaining carriers in the U.S. force structure, not retiring them.
- Retiring the Kennedy would produce only 4% of the \$30 billion in net cost reductions in *PBD 753*. This relatively small contribution to the total net savings in *PBD 753* is not worth the operational risks of reducing the carrier force to 11 ships. In addition, the Quadrennial Defense Review may result in additional reductions to weapon procurement programs, permitting the savings that would result from retiring the Kennedy to be achieved in other ways.

Supporters of reducing the carrier force to 11 or fewer carriers starting in FY2006 could argue the following:

- Due to changes over time in factors such as carrier missions, the technologies that are available to carriers and their air wings for performing missions, and policies for basing and deploying carriers, historical figures for carrier force size are not a precise guide to whether a future carrier force size would be adequate for performing its required missions.

¹⁶ For a discussion of base access and its potential effect on military force planning, see CRS Report RL31946, *Iraq War: Defense Program Implications for Congress*, coordinated by Ronald O'Rourke.

¹⁷ This increase is due in large part to the advent of precision-guided munitions, which has changed the traditional situation of needing multiple aircraft to attack a single target (i.e., multiple sorties per target) into one where a single aircraft can attack several individual targets per flight (i.e., multiple targets per sortie). The Navy testified in February 2005 that the number of targets per day that a carrier air wing can attack has increased from about 200 in 1997 to about 700 today, and will increase to more than 1,000 by 2010. See Statement of Admiral Vernon Clark, USN, Chief of Naval Operations, Before the Senate Armed Services Committee, 10 February 2005, page 18 (figure 6).

¹⁸ For more on NCW, see CRS Report RL32411, *Network Centric Warfare: Background and Oversight Issues for Congress*, by Clay Wilson, and CRS Report RS20557, *Navy Network-Centric Warfare Concept: Key Programs and Issues for Congress*, by Ronald O'Rourke.

- DOD and the Navy have studied the issue of carrier force size for many years and are familiar with the policy consequences of moving to a force of 11 ships. In this sense, it is not inappropriate for a proposal to reduce the carrier force level to be announced through a budget document, and there is no need to wait for the completion of a major policy review such as the QDR.
- The increasing number of targets that can be attacked each day by a carrier air wing will make it possible to conduct future contingency operations with fewer carriers than were required in the past, reducing the number of carriers needed for warfighting purposes.
- The Navy's recently implemented Fleet Response Plan (FRP) has increased the Navy's ability to surge carriers to respond to overseas contingencies, which likewise reduces the number of carriers needed for warfighting purposes.
- The Navy's ability to base tactical aircraft at sea will be augmented in future years by the Navy's planned LHA(R)-class amphibious assault ships, which can be viewed as medium-sized aircraft carriers. The first LHA(R) is to be procured in FY2007.
- The Navy is currently considering a proposal to transfer an aircraft carrier to Hawaii or Guam. Such a step would make it possible to maintain day-to-day deployments of carriers in the Western Pacific and Indian Ocean/Persian Gulf regions with a smaller total number of carriers, reducing the number of carriers needed for purposes of maintaining day-to-day forward deployments.
- The Navy also has the option of adopting a variant of multiple crewing for its aircraft carriers, which would also reduce the number of carriers needed for purposes of maintaining day-to-day forward deployments.¹⁹
- Keeping the carrier force at 12 ships rather than reducing it to 11 would add \$1.2 billion in funding requirements back into the FY2006-FY2011, which could require making offsetting reductions to other DOD programs, such as Navy, Air Force, or Army procurement programs, or other elements of DOD force structure. Those offsetting reductions could pose greater operational risks than reducing the carrier force to 11 ships.

At hearings on the proposed FY2006 defense budget, DOD and Navy officials have argued that an 11-carrier force is acceptable in light of the increasing

¹⁹ For more on the Fleet Response Plan, the possibility of transferring a carrier to Hawaii or Guam, and the option of using a variant of multiple crewing for carriers, see CRS Report RS21338, *Navy Ship Deployments: New Approaches — Background and Issues for Congress*, by Ronald O'Rourke.

capabilities of carrier air wings, the increased deployability of Navy carriers under the FRP, the aviation capabilities of the Navy's planned LHA(R) ships, and operational risks of cutting other DOD programs to pay for keeping the carrier force at 12 ships.²⁰ The Chief of Naval Operations has testified that with a 12-carrier force, the Navy, under the FRP, could surge six carriers within 30 days and another two carriers within 60 days after that — a capability referred to as “6+2.” With an 11-carrier force, he has testified, that would change to either 6+1 or 5+2.

Carrier To Be Retired

If a carrier is to be retired in the near term so as to reduce the carrier force to 11 ships, a second potential issue for Congress is whether that carrier should be the Kennedy or another ship. Potential alternatives to the Kennedy include the Kitty Hawk, the Enterprise, and the Vinson.

Supporters of retiring the Kennedy rather than the Kitty Hawk, Enterprise, or Vinson could argue the following:

- The Kennedy did not receive a full service life extension program (SLEP) overhaul at about age 30, so keeping it in service in coming years could become increasingly difficult and expensive. The Kitty Hawk, in contrast, received a full SLEP overhaul at about age 30, giving it a firmer engineering foundation for being operated to about age 45.
- Retiring the Kitty Hawk would leave the Navy without a carrier forward homeported in Japan, making it significantly more difficult for the Navy to maintain carrier forward deployments in the Western Pacific and Indian Ocean/Persian Gulf region with its remaining 11-carrier force. Shifting the Kennedy to Japan to replace the Kitty Hawk there would mean, at least for some time, that all the Atlantic Fleet carriers would be based in a single location (Norfolk, VA), which might not be prudent in light of the potential ability of terrorists to make a catastrophic one-time attack on a U.S. home port somewhere. Shifting a nuclear-powered carrier to Japan to replace the Kitty Hawk there would take time and money, given the need to qualify Yokosuka as a nuclear-carrier home port, and might very difficult politically, given anti-nuclear sentiments in Japan.
- The conventionally powered Kennedy is less capable than the nuclear-powered Enterprise and Vinson.²¹

²⁰ See, for example, Dave Ahearn, “England Says Navy Carrier Force Shrinking; Seeks Another LCS,” *Defense Today*, March 17, 2005: 1, 4; Dale Eisman, “Kennedy Should Be Retired, Navy Leader Says,” *Norfolk Virginian-Pilot*, March 17, 2005; Geoff Fein, “Navy To Redirect Funds For Kennedy Overhaul To Maintain Other Ships,” *Defense Daily*, March 17, 2005.

²¹ As nuclear-powered ships, the Enterprise and Vinson can make high-speed transits over (continued...)

- The Navy invested more than \$2 billion for the Enterprise RCOH; retiring the Enterprise in the near term rather than in 2014 would not realize a full return on this investment.
- Retiring the Vinson and not performing the RCOH now scheduled for the ship would significantly reduce the work load at Northrop Grumman's Newport News shipyard (NGNN), the yard that would perform the work, which would increase the cost of other work being done at the yard (including construction of new carriers and construction of new attack submarines) due to reduced spreading of fixed costs and other factors at NGNN. Increases in costs for other work being done at NGNN would offset, perhaps significantly, the savings associated with avoiding the Vinson RCOH and the Vinson's annual personnel, operation, and maintenance costs.

Supporters of retiring the Kitty Hawk, Enterprise, or Vinson rather than the Kennedy could argue the following:

- The Kitty Hawk is generally no more capable than the Kennedy, and is about 6½ years older than the Kennedy. Since the Kitty Hawk is currently scheduled to be retired in 2008, about four years from now, retiring it in the near term would not represent much of a change from current life-cycle plans for the ship. The Kennedy, in contrast, had been scheduled to remain in service until 2018, 14 years from now, so retiring it in FY2006 would involve a significant change from current life-cycle plans for the ship.
- The Kennedy could be shifted to Yokosuka to replace the Kitty Hawk there. The first carrier homeported at Yokosuka, the Midway (CV-41), did not receive a full SLEP overhaul, but careful maintenance on the ship during its stay at Yokosuka permitted it to remain in operation to age 46. In the meantime, Mayport, FL could be qualified as quickly as feasible as a nuclear-carrier home port. A nuclear-powered carrier could then be transferred there so as to once again divide Navy's Atlantic Fleet carriers between two ports rather than concentrating them at a single home port. Since the Kitty Hawk

²¹ (...continued)

long distances to respond to urgent crises without need for stopping or slowing down to refuel along the way. They do not need to be refueled upon arriving at the area of operations, ensuring that they can commence combat operations immediately upon arrival. And since they do not need large fuel tanks to store fossil fuel for their own propulsion plant, they can devote more of their internal volume to the storage of aircraft fuel and ammunition, which permits them to sustain combat operations for longer periods of time before they need to be resupplied. The capability advantages of nuclear power are what have justified the higher procurement and life-cycle costs of nuclear-powered carriers. In addition, since the Enterprise (90,000 tons full load displacement) and Vinson (91,500 tons) are somewhat larger than the Kennedy (81,500 tons), the Enterprise and Vinson might be more able to remain stable in the water — and thus capable of conducting air operations — in certain rough seas.

is currently scheduled to be retired in 2008, retiring the Kitty Hawk in the near term might only accelerate a plan that the Navy may already have for taking these actions.

- Compared to the two-reactor propulsion plants on the Navy's Nimitz-class carriers, the eight-reactor propulsion plant on the Enterprise can be more difficult and expensive to maintain. Although the Enterprise was given an RCOH with the intention of keeping it in service until 2014, retiring it in the near term would give the Navy an all-Nimitz-class nuclear-carrier fleet, streamlining nuclear-carrier logistics and reducing nuclear-carrier support costs.
- Retiring the Vinson in the near term would avoid a \$2.27-billion cost in FY2006 and FY2007 to complete funding for the Vinson's RCOH. It would also eliminate the annual personnel, operation, and maintenance costs for the Vinson, which might be comparable to, or even greater than, those of the Kennedy. Equipment purchased with the \$861.5 million in FY2005 and prior-year funding for the Vinson RCOH could be used, where possible, for the RCOH on the next Nimitz-class ship.²²

At hearings on the proposed FY2006 defense budget, DOD and Navy officials have noted that the Kennedy has not been fully modernized and that the additional warfighting capability provided by the Kennedy is marginal.²³

If DOD plans to reduce the carrier force to 10 or 9 ships, perhaps following the QDR, then the leading candidates for the additional carriers to be retired would be the Kitty Hawk, the Enterprise, and the Vinson (or if not the Vinson, then perhaps the Theodore Roosevelt [CVN-71], which is next in line for a RCOH after the Vinson). If so, then one or more of the arguments made above for retiring the Kitty Hawk, the Enterprise, or the Vinson (or if not the Vinson, then the Roosevelt) might soon be made by DOD officials themselves.

Carrier Homeporting Arrangements

A third potential issue for Congress raised by the proposal to retire the Kennedy concerns carrier homeporting arrangements. In addition to the local economic benefits associated with homeporting a carrier — e.g., carrier crew members spending their pay and allowances in the local economy and thus generating local

²² For an article mentioning the Kitty Hawk, the Enterprise, and the Vinson as candidates for retirement in the context of a potential reduction in the carrier force to 10 or 9 ships, see Christopher P. Cavas, "Carrier Carl Vinson Considered For Early Retirement," *NavyTimes.com*, January 3, 2005.

²³ See, for example, "Navy Defends Decision To Retire Carrier," *GovExec.com*, March 17, 2005; Dave Ahearn, "England Says Navy Carrier Force Shrinking; Seeks Another LCS," *Defense Today*, March 17, 2005: 1, 4; Dale Eisman, "Kennedy Should Be Retired, Navy Leader Says," *Norfolk Virginian-Pilot*, March 17, 2005; Geoff Fein, "Navy To Redirect Funds For Kennedy Overhaul To Maintain Other Ships," *Defense Daily*, March 17, 2005.

jobs, and non-depot ship-maintenance work being done by local ship-repair firms, thus generating additional jobs — a potential additional factor to consider concerns the relative military advantages of different homeporting arrangements.

If the Kennedy is retired, then as mentioned earlier, all of the Atlantic Fleet's carriers would be, for some time at least, homeported in a single location (Norfolk, VA). Possible advantages of such an arrangement include economies of scale in carrier maintenance and the training of carrier crew members. Possible disadvantages include the effect on fleet operations of a terrorist attack on that single location.²⁴

At hearings on the proposed FY2006 defense budget, Navy officials have noted the potential efficiencies of co-locating carriers but have also acknowledged the potential security risks of having carriers concentrated into a small number of home ports.²⁵

Potential questions for Congress to consider include the following:

- How much time would be required to qualify Mayport, FL as a nuclear-carrier home port? How much could this schedule be accelerated, and what actions would be necessary to accelerate it? How much would it cost to qualify Mayport, FL as a nuclear-carrier home port, and how might this cost be affected by accelerating the schedule?²⁶

²⁴ In the 1980s, the Navy initiated a program, known as strategic homeporting, to disperse its ships to a greater number of home ports around the United States, so as to reduce the vulnerability of the fleet to a potential Pearl Harbor-style attack by Soviet/Warsaw Pact forces at start of a NATO-Warsaw Pact conflict. For discussions of strategic homeporting, see CRS Issue Brief IB85193, *The Navy's Strategic Homeporting Program: Issues for Congress*, by Ronald O'Rourke; and CRS Issue Brief IB90077, *Strategic Homeporting Reconsidered*, by Ronald O'Rourke. (Both archived and available from the author.) See also Alva M. Bowen and Ronald O'Rourke, "Ports for the Fleet," U.S. Naval Institute Proceedings, May 1986: 136-151.

²⁵ A recent press article focusing on a Navy submarine base in Groton, Connecticut, quoted Admiral Vernon Clark, the Chief of Naval Operations as saying,

We understand the rule of economies of scale, and you can concentrate everything in one place, but then you've got all your eggs in one basket. Is that the way you want to do this? My view is, that's not a successful strategy. You've got figure out how to balance it between being overly dispersed and overly centralized....

We'll see where the analysis takes us," Clark said. "It's a key part of the BRAC discussions, and the analysis. And honestly, I don't know where we are or where we're going to end up on it.

(Robert A. Hamilton, "CNO's Doctrine Could Bode Well For Sub Base," *New London (CT) Day*, January 5, 2005.)

²⁶ One recent press article stated: "Early estimates indicate the cost of making Mayport (continued...)"

- What would it cost to transfer a nuclear carrier from Norfolk, VA, to Mayport?²⁷
- On a steady-state basis, what would be the annual difference in cost between homeporting all Atlantic Fleet carriers at Norfolk vs. homeporting one nuclear carrier at Mayport and the rest at Norfolk?
- What are the relative operational advantages and disadvantages of homeporting all Atlantic Fleet carriers at Norfolk versus homeporting one nuclear carrier at Mayport and the rest at Norfolk? What are the relative vulnerabilities of Norfolk and Mayport to a potential one-time terrorist attack?²⁸

Another potential additional factor to consider concerns the possibility of transferring a carrier to Hawaii or Guam, an action that could form a significant part of the justification for reducing the carrier force to 11 ships. Potential questions for Congress here include the following:

- What home port would the carrier be transferred from?
- How might the transfer affect the local economy of that home port?
- Would the homeporting of a carrier in Hawaii or Guam affect the issue of whether to homeport a carrier at Mayport, FL, and if so, how?

Options For Congress

Options for Congress arising from the proposal to retire the Kennedy in FY2006 and reduce the carrier force to 11 ships include the following:

²⁶ (...continued)

nuclear-ready would be \$100 million. The city and state are paying for a report detailing what it would cost.” (David DeCamp, “Bill Will Fight For Kennedy, and Mayport,” *Florida Times-Union*, January 24, 2005.) See also Gregory Piatt, “Nuclear Mayport May Not Need New Study,” *Florida Times-Union (Jacksonville)*, February 16, 2005.

²⁷ One recent press article stated: “The movement of a nuclear-powered flattop would be particularly expensive — in excess of \$200 million, according to some authorities’ estimates. A 1994 study commissioned by the city of Jacksonville, Fla., put the cost at \$141.2 million.” (Dale Eisman and Jack Dorsey, “Battle Begins Over Carrier Kennedy,” *Norfolk Virginian-Pilot*, January 6, 2005.)

²⁸ For an article discussing this issue, see David Lerman, “Fla. Carrier Site Ranked Less Secure,” *Newport News (VA) Daily Press*, February 9, 2005.

Options for Preserving 12 Carriers

Permanent Legislation. This option could involve adding a provision to Title 10 of the U.S. Code (the primary title covering DOD) stating that the Navy shall include not less than 12 large-deck aircraft carriers or prohibiting the Navy from taking any steps to reduce the carrier force to less than 12 ships. The provision could be somewhat similar to 10 USC 5063, which Congress amended in 1952²⁹ to state in part: “The Marine Corps, within the Department of the Navy, shall be so organized as to include not less than three combat divisions and three air wings, and such other land combat, aviation, and other services as may be organic therein.”³⁰

Annual Legislation. This provision could involve adding a provision to the annual defense authorization bill or appropriations bill (or both) directing DOD to maintain a force of at least 12 carriers for the fiscal year in question, or prohibiting DOD from expending any funding that year to plan or carry out the retirement of an aircraft carrier. Such a provision could be used to defer the decision on whether to retire any aircraft carriers until, for example, the completion of the Quadrennial Defense Review.

Binding Annual Report Language. This option is similar to the previous option except that the direction to DOD would be provided through report language rather than bill language. Such a provision, like the previous one, could be used to defer the decision on whether to retire any aircraft carriers until, for example, the completion of the Quadrennial Defense Review.

Non-Binding Language. This could take the form of bill or report language expressing sense of the Congress that the Navy should maintain a force of not less than 12 carriers. This option would have considerably less force than the previous options, since it would do nothing concrete to compel DOD to maintain a force of 12 carriers. Its effectiveness would depend on how much weight DOD would give it in

²⁹ Public Law 416, June 28, 1952, Chapter 479, Section 1, 66 Stat. 282.

³⁰ Supporters could argue that a provision in permanent law specifying a minimum number of carriers would formally recognize the operational value of carriers and follow the precedent set by 10 USC 5063 regarding the minimum number of Marine Corps divisions and air wings. It would also be consistent, they could argue, with the fact that the carrier force has not dropped below 12 ships since 1951, and has frequently included more than 12 carriers during that time. Legislating a minimum of 12 carriers, supporters could argue, would help stabilize Navy force-structure planning and budget planning by reassuring Navy leaders that this important element of Navy force structure would consist of a known minimum number of ships.

Opponents could argue that such a provision would reduce DOD’s flexibility in determining military force structure levels so as to best balance DOD capabilities against projected threats, and set a modern precedent for writing additional provisions into Title 10 covering other elements of military force structure, which would further reduce DOD’s flexibility in this area. Opponents could argue that 10 USC 5063 is not as strong a precedent as it might seem at first because it does not specify the size or composition of the divisions or air wings, or whether they are to be active or reserve units, and that the provision in any event is a sole exception, dating back 53 years, to a pattern of not legislating military force structure levels.

DOD's own deliberations. DOD could decide to politely ignore the provision, making it totally ineffective.

Options For Retiring A Carrier And Reducing To 11

Retire Kennedy In FY2006. This option could be supplemented by taking steps, such as adding military construction or other funding to the DOD budget, to accelerate the process of qualifying Mayport as a nuclear-carrier home port. It could also involve bill or report language directing the Navy to transfer a nuclear-powered carrier to Mayport as soon as the port is qualified to receive it.

Retire Kennedy When Mayport Is Nuclear-Qualified. This option would defer the retirement of the Kennedy until Mayport is qualified as a nuclear-carrier home port. As with the previous option, this option could include taking steps to accelerate the process of qualifying Mayport as a nuclear-carrier home port, as well as bill or report language directing the Navy to transfer a nuclear-powered carrier to Mayport as soon as the port is qualified to receive it.

Retire Kitty Hawk and Transfer Kennedy To Yokosuka. This option, too, could involve taking steps to accelerate the process of qualifying Mayport as a nuclear-carrier home port, as well as bill or report language directing the Navy to transfer a nuclear-powered carrier to Mayport as soon as the port is qualified to receive it.

Retire Kitty Hawk and Transfer A Nuclear Carrier to Yokosuka. Compared to the option of transferring the Kennedy to Yokosuka, this option would not require taking steps to accelerate the process of qualifying Mayport as a nuclear-carrier home port (though such steps could be taken anyway). Another difference is that this option could require more extensive consultations with the Japanese government (and possibly local Japanese authorities and private groups as well), and in the end could be deemed politically unacceptable by the Japanese government due to anti-nuclear sentiments in Japan.

Retire Enterprise. This option could be timed so that the ship is retired following the completion of its next deployment.³¹

Retire Vinson. This option, too, could be timed so that the ship is retired following the completion of its next deployment.³²

³¹ According to the ship's website [<http://www02.clf.navy.mil/enterprise/>], the Enterprise as of January 2005 "is three months into an Extended Selected Restricted Availability [i.e., a type of overhaul] in the shipyard, during which extensive repair and maintenance work is being performed on the ship by shipyard personnel, civilian contractors and the crew."

³² The Vinson in mid-January 2005 began a six-month deployment and is scheduled to arrive at Norfolk, VA in November 2005 to begin its RCOH. (Source: "Carl Vinson Heads To New Home," *NavyTimes.com*, Jan. 13, 2005.)

Legislative Activity

S.Amdt. 265 to H.R. 1268

Senate Amendment 265, introduced on April 4, 2005 and referred to the Committee on Appropriations, would add a provision to H.R. 1268, the emergency supplemental appropriations bill for 2005, stating:

(a) PROHIBITION. — No funds appropriated or otherwise made available by this Act, or by any other Act, for fiscal year 2005 may be obligated or expended to reduce the number of operational aircraft carriers of the Navy from 12 operational aircraft carriers to 11 operational aircraft carriers.

(b) OPERATIONAL AIRCRAFT CARRIER. — In this section, the term “operational aircraft carrier” includes an aircraft carrier that is unavailable due to maintenance or repair.

H.R. 304/S. 145

These identical bills, introduced on January 25, 2005, would amend Section 5062 of Title 10 to state: “The naval combat forces of the Navy shall include not less than 12 operational aircraft carriers. For purposes of this subsection, an operational aircraft carrier includes an aircraft carrier that is temporarily unavailable for worldwide deployment due to routine or scheduled maintenance or repair.”