

Fact Sheet

Northrop Grumman
Shipbuilding

NORTHROP GRUMMAN

Newport News

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One Shipbuilder, Multiple Sites

Overview – Newport News

For more than a century, Northrop Grumman Shipbuilding-Newport News has designed, built, overhauled and repaired a wide variety of ships for the U.S. Navy and commercial customers. Today, Newport News is the nation's *sole* designer, builder and refueler of nuclear-powered aircraft carriers and one of only two companies capable of designing and building nuclear-powered submarines. The sector also provides after-market services for a wide array of naval and commercial



Newport News

vessels. In 2001, the Newport News shipyard became a business sector of Northrop Grumman Corporation, a global defense company headquartered in Los Angeles, Calif. In January 2008, Newport News merged with Ship Systems to form a single, integrated shipbuilding sector.

With vast facilities located on more than 550 acres along two miles of waterfront in Newport News, Virginia, Northrop Grumman Shipbuilding-Newport News employs nearly 19,000 people, many of whom are third and fourth generation shipbuilders. It is the largest industrial employer in Virginia, and with more than 4,000 engineers, designers and technicians, Newport News is at the forefront of new ship technologies, specialized manufacturing capabilities and nuclear facility management.

For more information visit www.sb.northropgrumman.com

Facts:

- Sole supplier of U.S. Navy aircraft carriers, the world's largest warships
- One of two builders constructing the *Virginia*-class nuclear powered submarines
- Home of the Western Hemisphere's largest dry dock and crane
- Exclusive provider of refueling services for nuclear-powered aircraft carriers
- Largest industrial employer in Virginia
- Largest non-governmental provider of fleet maintenance services to the Navy

Aircraft Carriers

George H. W. Bush (CVN 77)

Northrop Grumman Shipbuilding-Newport News completed and delivered the 10th and final *Nimitz*-class aircraft carrier, USS *George H. W. Bush* (CVN 77) in May 2009. The ship returned to the yard as scheduled for its Post-delivery Shakedown Availability (PSA) in July. This ship will serve as the transition to a new class of carriers, incorporating many new design features. It is the second carrier to have the new bulbous bow design that provides more buoyancy to the forward end of the ship and improves hull efficiency. Other new design features include an updated aviation fuel distribution system, a new marine sewage system and new propellers. See <http://www.nn.northropgrumman.com/bush/seatrials.html> for sea trial coverage.



The *George H. W. Bush* (CVN 77) was launched Oct. 8, 2006.

Gerald R. Ford-Class Aircraft Carriers

Design work on the first new generation carrier, *Gerald R. Ford* (CVN 78), has been underway for over eight years and the first piece of steel for CVN 78 was cut in August 2005 as part of an advanced construction contract. The \$5 billion detail design and construction contract was signed on September 10, 2008 and the keel was laid on November 14, 2009. Innovations for the next-generation aircraft carrier include an enhanced flight deck with increased sortie rates, improved weapons movement, a redesigned island, a new nuclear power plant, and growth margin for future technologies and reduced manning. These and many other evolutionary new designs are being developed by our engineers to build the most capable aircraft carriers ever for the U.S. Navy.

On January 15, 2009, NGSB was awarded a \$374 million cost type contract award for construction preparation of the second *Ford*-class carrier CVN 79. The 21-month contract includes design efforts, planning and the procurement of long lead-time material, and also provides for continued research and development efforts with key suppliers.

Carrier Fleet Services

Northrop Grumman Shipbuilding-Newport News is the only shipyard to perform overhaul and refueling work on *Nimitz*-class aircraft carriers, a three-year project that includes the refueling of both the ship's reactors, as well as significant renovation and modernization work. The sector completed the overhaul and refueling of the *USS Nimitz* in 2001 and the *USS Dwight D. Eisenhower* in 2005. The *USS Carl Vinson* completed its once-in-a-lifetime refueling and complex overhaul in September 2009, and the *USS Theodore Roosevelt* arrived in August 2009 for its three-year RCOH.



The *USS Theodore Roosevelt* (CVN 71) arriving for its once-in-a-lifetime refueling and complex overhaul, in August 2009

Submarines

Virginia-class Submarines

Construction on the *Virginia*-class submarines is currently underway at Newport News. The contract for Block III of the class was awarded on Dec. 22, 2008.

The first ship of Block III to be delivered by Northrop Grumman will be the *John Warner* (SSN 785). Designed to meet the Navy's requirements in a post-Cold War era, *Virginia*-class submarines use advanced technologies to increase firepower, maneuverability and stealth.

The 377-foot long *Virginia*-class submarines are capable of submerged speeds of more than 25 knots and can stay submerged for up to three months at a time. Under an innovative agreement, Newport News is producing the *Virginia*-class submarines as part of a team with General Dynamics Electric Boat. The team has delivered the first five boats of the class.



The *Virginia*-class submarine *New Mexico* (SSN 779) underway on sea trials in 2009

Submarine Fleet Services

Newport News is the Navy's planning yard for the *Los Angeles*-class attack submarines and the *Seawolf*-class attack submarines. This involves the design and on-site installation of state-of-the-art technology to keep the submarine fleet the most capable in the world.

Fleet Support

Since the early 1990's, Northrop Grumman Newport News has completed over 200 ship repair projects for U.S. government, U.S.-flag commercial and foreign-flag commercial ships, ranging from paint repair to complete hull and machinery renovation.

Technology Insertion

Newport News incorporates the most advanced technologies and designs into its vessels. With more than 4,000 engineers, designers and technicians, Newport News is at the forefront of new ship technologies.

The Herbert H. Bateman Virginia Advanced Shipbuilding and Carrier Integration Center (VASCIC) was developed in support of future ships. This research facility provides added capability for the development and testing of advanced carrier and submarine systems by leveraging Newport News' expertise with that of the Navy, other defense contractors and Virginia's universities.



The Virginia Advanced Shipbuilding and Carrier Integration Center