COLUMBIA Class Submarine Program
Sea Air Space 2019

CAPT Jon Rucker
Program Manager
6 May 2019
Current OHIO Class is reaching the end of its operational life
- Designed in 1970, commissioned between 1984 and 1997, and will begin to retire in 2027
- Operational life already extended from 30 years to an unprecedented 42 years

Lead ship COLUMBIA construction must commence in 2021 with rest of class (2-12) to follow
- Maintains fleet of 10 operational SSBNs through transition with moderate risk
COLUMBIA Class Submarine Program

Specifications:
- Length: 560 feet
- 2 crews: 155 each
- 42 year Service Life
- Armament:
  - D-5 Missile; MK48 Torpedo

Builder:
- General Dynamics – Electric Boat, Groton, CT (Lead)
- Newport News Shipbuilding, Newport News, VA
- Construction work split
  - Only nuclear capable U.S. Shipyards
- United Kingdom Partnership – CMC build

Cost (FY 17)
- Average Procurement Unit Cost: $7.18B (CY17$)
- Total Program 1 to 2% of DoD budget
  (consistent with historical investment)

The Navy’s #1 Priority requires industry support into the 2080s
COLUMBIA Class Schedule

Fiscal Year


★ Navy Approved CDD

★ JROC CDD

★ MS-B

Lead Ship Authorization

First OHIO Class SSBN Retires

Second OHIO Class SSBN Retires

Third OHIO Class SSBN Retires

Fourth OHIO Class SSBN Retires

Fifth OHIO Class SSBN Retires

Sixth OHIO Class SSBN Retires

Technology Maturation & Risk Reduction Phase

Ship Specifications

Sys Definition Docs

Sys Descrip & Rev A Diagrams

Ship Detailed Arrangements

Ship Construction Design Disclosure and Data

Engineering & Manufacturing Development Phase

Ships 1-2 Block I Detail Design / LLTM

Lead Ship Construction (84 Months)

Production and Deployment Phase

Lead Ship T&E

T&E / PSA / DASO

First COLUMBIA Class Strategic Deterrent Patrol

COLUMBIA Vision & Mission

**VISION**
12 by 42 with 70: Strategic Deterrence to Protect the Nation.

**MISSION**
Design, build, test, and sustain the Nation’s high quality, sea-based strategic deterrent on schedule within budget.