DDG 1000 Class Destroyer

7 May 2019

Sea Air Space (SAS)

DDG 1000 Program Manager, PMS 500
CAPT Kevin Smith

DDG 1000 Overview
USS ZUMWALT (DDG 1000)
San Diego Homeport

- DDG 1000 Combat System activation and test in progress (weapons, sensors and communications)
- Post Delivery Test and Trials being conducted concurrently with Combat Systems Activation and Testing
USS ZUMWALT (DDG 1000)
Operational Scenario Engagement / Tactical Training
March – April 2019

Victoria, British Columbia

Ketchikan, Alaska

Pearl Harbor, Hawaii
PCU MICHAEL MONSOOR (DDG 1001)  
San Diego Homeport

- **Accomplishments:**
  - Hull, Mechanical and Electrical (HM&E) delivery occurred 24 Apr 2018
  - Departed Bath ME 9 Nov 2018; Arrived San Diego CA 7 Dec 2018
  - Commissioned 26 Jan 2019, Coronado, CA
  - Started Combat Availability at BAE Systems, San Diego – 02 Apr 2019
PCU LYNDON B. JOHNSON (DDG 1002)
Bath, ME Building Yard

• Accomplishments:
  – Fabrication 84% complete
  – Float-off achieved on 9 Dec 2018
  – Christened on 27 Apr 2019
  – HM&E delivery in 2020
Air Warfare Detect–Track–Engage Testing  
Self Defense Test Ship (SDTS)

- Successfully completed land based testing of the ZUMWALT Combat System at the Wallops Island Engineering Test Center in June 2017, completing six tracking exercises
- Testing on Self Defense Test Ship (SDTS) installed with ZUMWALT Combat System began May 2018
- Completed three TRACKEX on SDTS using threat representative targets
- Successfully conducted the first live missile firing using the ZUMWALT Combat System 26 April 2019
DDG 1000 Zumwalt Class Destroyer System Description

**Hull**
- Wave-Piercing Tumblehome

**Superstructure**
- Composite Structure
  - DDG 1000 / 1001
- Steel
  - DDG 1002

**Aviation**
- Aviation/hangar
  - 2xMH60R or 1xMH60R and 3xVTUAVs
- Landing Spots
  - 1 x w/ ASIST

**Weapons**
- (80) Advanced Vertical Launch (AVLS) cells for
  - Maritime Strike Tomahawk*, ESSM, Standard Missile, SM-6 Block IA*
- (2) Advanced Gun System (AGS) 155 mm guns (Layup)
- (2) MK 46 Close In Guns (CIGS)
- Torpedo Defense (Space Reservation)
- Anti-Terrorism
- *Offensive Surface Strike

**Boats**
- (2) 11m RHIBs

**Characteristics**
- Overall Length: 610 ft
- Maximum Beam: 80.7 ft
- Navigational Draft: 27.6 ft
- Speed: 30 kts
- Displacement Full Load: 15,612 LT
- Installed Power: 78 MW
- Crew Size: 147
  (plus 28 person aviation detachment)

**Integrated Power System (IPS)**
- (2) Main Turbine Generators (MTG)
- (2) Auxiliary Turbine Generators (ATG)
- (2) 34.6 MW Advanced Induction Motors

**Sensors**
- SPY-3 X-Band
- Multi-Function Radar (MFR)
- Volume Search Radar (VSR) (Space & Weight Reservation)
- MF Bow Sonar Array
- Multi-Function Towed Array
- EO/IR System
- ES System
- EXCOMMS – Alternative Navy C4I POR
- *Network Tactical Common Data Link (NTCDL)
- *SPECTRAL

*Offensive Surface Strike
DDG 1000 CLASS
AN EXCITING YEAR AHEAD

- Final Delivery of DDG 1000
- Complete DDG 1001 Combat Availability
- Continue DDG 1002 Construction and Test
- Complete Self Defense Test Ship Test Program
- Initiate Integration of Surface Strike Upgrades