DDG 1000 Class Destroyer

Surface Navy Association (SNA)
31st National Symposium

DDG 1000 Overview

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DDG 1000 Program Manager, PMS 500
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USS ZUMWALT (DDG 1000)
San Diego Homeport

- Started Combat Testing in preparation to activate combat systems (weapons, sensors and communications)
- Post Delivery Test and Trials being conducted concurrently with Combat Systems Activation and Testing
PCU MICHAEL MONSOOR (DDG 1001)  
San Diego Homeport

• 2018 Accomplishments:
  – Completed Builder’s Trials 04 Dec 2017 with a follow-up BT 14-17 Jan 2018
  – Acceptance Trials completed 01 Feb 2018
  – HM&E delivery 24 Apr 2018
  – Departed Bath ME 9 Nov 2018; Arrived San Diego, CA 7 Dec 2018

• Commissioning scheduled 26 Jan 2019, Coronado CA
PCU LYNDON B. JOHNSON (DDG 1002)
Bath, ME Building Yard

• 2018 Accomplishments:
  – Fabrication 82% complete
  – Completed Hull Integration on 20 Apr 2018
  – Float-off achieved on 9 Dec 2018

• HM&E delivery scheduled for Mar 2020
Air Warfare Detect–Track–Engage Testing
Self Defense Test Ship (SDTS)

- Wallops Island / 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 installed with ZUMWALT Combat System began May 2018
  - Completed three TRACKEX on SDTS using threat representative targets
  - Next scheduled SDTS event will be the first live missile firing using the ZUMWALT Combat System
## DDG 1000 Zumwalt Class Destroyer System Description

### Hull
- Wave-Piercing Tumblehome

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

### Weapons
- (80) Advanced Vertical Launch (AVLS) cells
  - Tomahawk, ESSM, Standard Missile
- (2) Advanced Gun System (AGS) 155 mm guns
  - (600) 155 mm rounds
- (2) MK 46 Close In Guns (CIGS)
- Torpedo Defense (Space Reservation)
- Anti-Terrorism

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

### Aviation
- MH60R and (3) VTUAVs
  - (Capacity for 2 MH 60Rs)

### Boats
- (2) 7m RHIBs
  - (sized for (2) 11m RHIBs)

### Sensors
- SPY-3 X-Band
- Multi-Function Radar (MFR)
- Volume Search Radar (VSR) (Space & Weight Reservation)
- HF & MF Bow Sonar Arrays
- Multi-Function Towed Array
- EO/IR System
- ES System
- EXCOMMS – Alternative Navy C4I POR

### 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)
DDG 1000 Class