

DDG 51 Program





Presented to: Surface Navy Association Washington, DC 10 January 2018



Presented by: CAPT Casey Moton DDG 51 Program Manager



DDG 51 Program Highlights



• First restart ships delivered at each shipyard

- Huntington Ingalls Industries Ingalls Shipbuilding (HII)
 - USS JOHN FINN (DDG 113) delivered Dec 2016
 - RALPH JOHNSON (DDG 114) delivered Nov 2017
- General Dynamics Bath Iron Works (BIW)
 - RAFAEL PERALTA (DDG 115) delivered Feb 2017
- 12 additional ships on contract (FY12-17 ships)
 - 8 ships currently under construction at HII and BIW
 - 4 more ships under contract
 - Includes Congressionally-added third FY16 ship (16-3), awarded to BIW Sep 2017

• Flight III Baseline on Track (FY17 And Follow ships)

- Flight III contract modifications awarded on FY17 ships, one at each shipbuilder
 - DDG 125 (HII) awarded 27 Jun 2017
 - DDG 126 (BIW) awarded 28 Sep 2017
- Detail Design on track to support start of construction in early 2018

• Navy seeking Multi-Year Procurement Authority for FY18-22 for 10 ships

Both shipyards in serial DDG 51 production and under contract for first Flight III ships



Production Status (HII)





- DDG 113 (Delivered)
 - Delivered 07 Dec 2016
 - Commissioned in Pearl Harbor, HI, 15 Jul 2017



- DDG 114 (Delivered)
 - Delivered 15 Nov 2017
 - Commissioning in Charleston, SC, 24 Mar 2018



DDG 117 (85% complete)
 – Christened 08 Apr 2017



- DDG 119 (65% complete)
 - Launched 08 Sep 2017
 - Christened 04 Nov 2017



DDG 121 (42% complete)
Lay Keel completed 13 Feb 2017



DDG 123 (24% complete)
Lay Keel completed 06 Nov 2017

As of 20 Dec 2017



Production Status (BIW)





- DDG 115 (Delivered)
 - Commissioned in San Diego, CA 29 Jul 2017



DDG 116 (94% complete)
 – Launched 23 Apr 2017



DDG 118 (42% complete)
Lay Keel planned Spring 2018



DDG 120 (12% complete)
Start Fab achieved 11 Sep 2016



DDG 122 (1% complete)
Start Fab achieved 29 Sep 17

As of 20 Dec 2017



Flight III Capability

- Delivers new advances in Integrated Air and Missile Defense, including ballistic missile defense, with incorporation of the SPY-6/Air and Missile Defense Radar, and the latest advancements in the AEGIS combat system
- Improved radar sensitivity enabling longer range detection of increasingly complex threats
- Flight III upgrades electrical power and cooling capacity plus additional associated changes



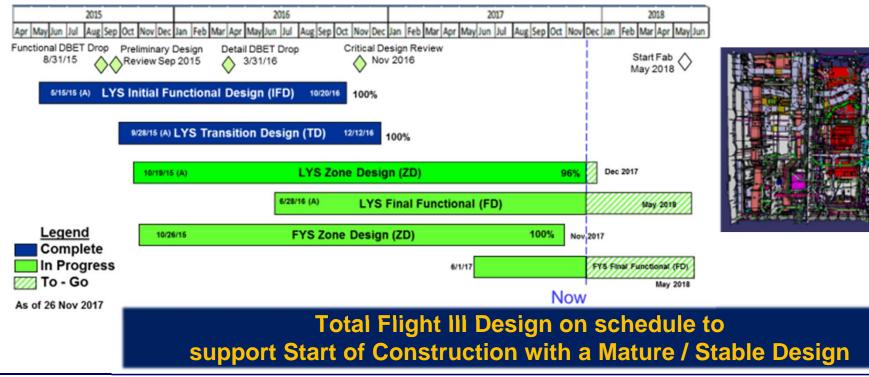


Flight III Design Maturity



Flight III Baseline

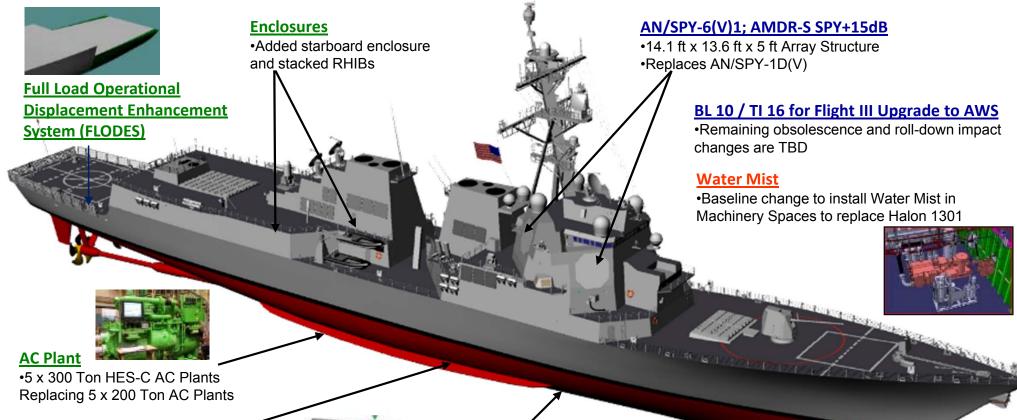
- Detail Zone Design completed 100% on 15 December 2017
- Final Detail Design activities will complete prior to Flight III Start of Construction
- First Flight III ships under contract with both DDG 51 Shipbuilders
 - DDG 125 (FY17 ship) awarded to HII 27 June 2017
 - DDG 126 (FY17 ship) awarded to BIW 28 September 2017





Flight III Changes

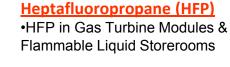


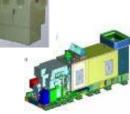


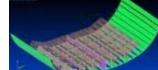
4160VAC Electric Plant

•3 x 4MW, 4160 VAC SSGTGs replacing 3 x 3MW, 450 VAC SSGTGs
•Add transformers, PCMs, modified switchgear
•Modified controls for MCS and MFMs

- Capability Increase
- Enabling Changes
- Other Changes







Increased Innerbottom Scantlings •Adds 90 LT to improve KG

Habitability Changes and roll-down impacts to incorporate AN/SPY-6(V)1 and equipment





• Navy requested MYP authority for up to 10 Flight III ships in PB18

- Maximizes affordability
- Lower costs resulting from economic order quantities of shipbuilder materials and major equipment
- Improved production efficiencies

Support from Congress

- FY18 NDAA approves MYP authority
- Appropriations Committees supportive; final Appropriations Bill pending

• Preparing for RFP Release

Both shipyards well-positioned to execute next MYP







- DDG 51 program remains one the most successful shipbuilding programs with 65 ships delivered to the Fleet
- Initial Restart Ships at each shipyard have completed successful trials and delivery
- Shipyards have established serial DDG 51 production with 12 more ships on contract through FY17
- Flight III Detail Design efforts on track for start of construction
- First Flight III Ship at each shipyard awarded in 2017



Delivering capability to the fleet for current and future missions

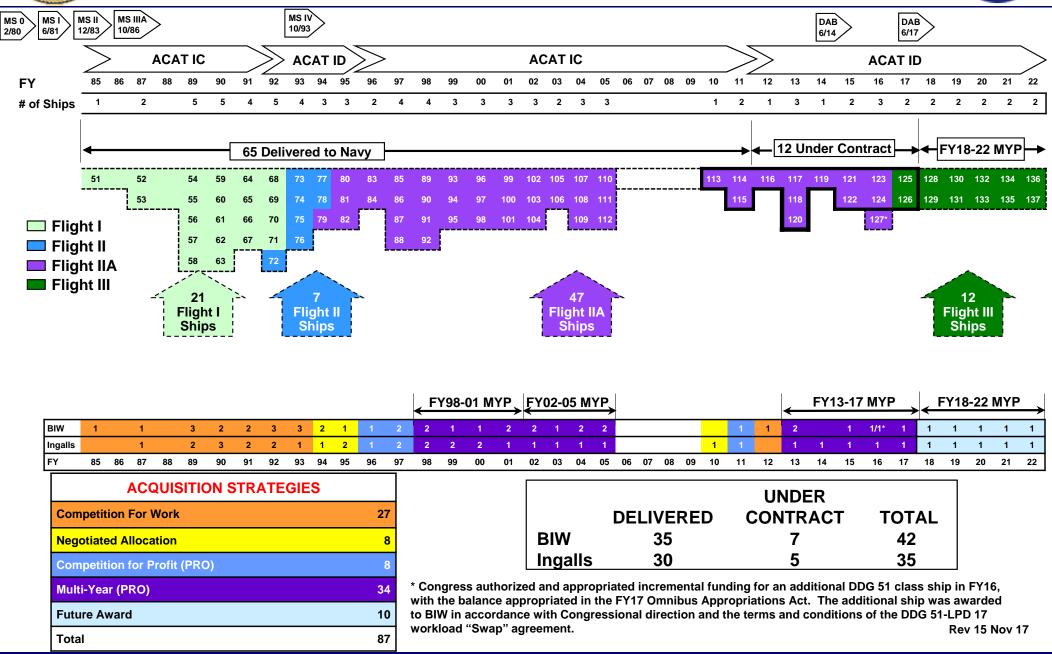




Back Up



DDG 51 Class Shipbuilding Profile



PEO

SHIPS





- The DDG 51 Class are multi-mission warships designed, built and netted to execute Sea Control and Power Projection missions
- Warfighting Requirements Foundations
 - Flight I: TLR-1983
 - Flight IIA: ORD-1994
 - Flight III: CDD-2014

Warfighting Capabilities:

- Integrated Air and Missile Defense (IAMD)
- Strike Warfare (STW)
- Anti-Submarine Warfare (ASW)
- Anti-Surface Warfare (ASuW)
- Intelligence, Surveillance, and Reconnaissance (ISR)
- Naval Surface Fire Support (NSFS)

