



# DDG 51 Program



***Sea, Air, Space Exposition  
Washington, DC – 10 April 2018***



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PMS 400D**





# Agenda



- **Overview**
- **DDG 113-123 Production Status**
- **DDG 51 Shipbuilding Profile**
- **Flight III Update**
- **Summary**



# 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
- **Flight III 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 for DDG 125 in May 2018
- Navy planning Multi-Year Procurement for FY18-22 ships



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



# DDG 115, 116, 118, 120, 122 Status (BIW)

DDG 115



- **DDG 115 (Delivered)**
  - Delivered 03 Feb 2017
  - Commissioned 29 Jul 2017
  - PSA begun 26 Feb 2018

DDG 116



- **DDG 116 (98% complete)**
  - Trials ALPHA/BRAVO 26 Mar 2018
  - Trial CHARLIE planned 30 Apr 2018
  - Delivery planned Jun 2018

DDG 118



- **DDG 118 (48% complete)**
  - Start Fab achieved 02 Aug 2015
  - Lay Keel achieved 25 Mar 2018; ceremony planned May 2018

DDG 120



- **DDG 120 (19% complete)**
  - Start Fab achieved 11 Sep 16

DDG 122



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

As of 22 Mar 18





# DDG 113, 114, 117, 119, 121, 123

## Status (HII)



- **DDG 113 (Delivered)**
  - Delivered 07 Dec 2016
  - Commissioned 15 Jul 2017
  - PSA started 22 Jan 2018



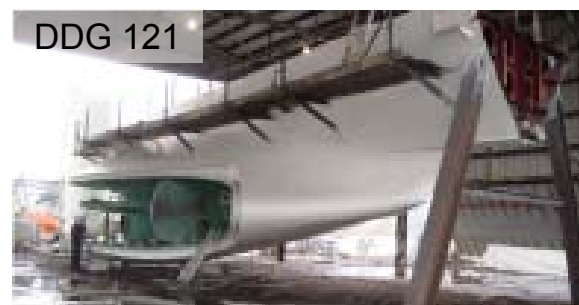
- **DDG 114 (Delivered)**
  - Delivered 15 Nov 2017
  - Commissioned 24 Mar 2018
  - PSA start planned Fall 2018



- **DDG 117 (89% complete)**
  - Christening completed 08 Apr 2017
  - ALO achieved 10 Jul 2017
  - Trials planned Summer 2018



- **DDG 119 (71% complete)**
  - Launch completed 08 Sep 2017
  - Christening completed 04 Nov 2017
  - ALO planned Spring 2018



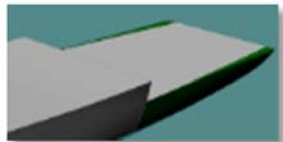
- **DDG 121 (49% complete)**
  - Start Fab achieved 27 Apr 2016
  - Lay Keel completed 13 Feb 2017



- **DDG 123 (31% complete)**
  - Start Fab achieved 25 Jan 2017
  - Lay Keel completed 06 Nov 2017

As of 22 Mar 18

# Flight III Configuration



## Full Load Operational Displacement Enhancement System (FLODES)

### Enclosures

- Added starboard enclosure and stacked RHIBs

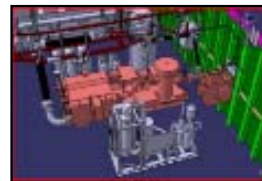
### AN/SPY-6(V)1; AMDR-S SPY+15dB

- 14.1 ft x 13.6 ft x 5 ft Array Structure
- Replaces AN/SPY-1D(V)

### BL 10 / TI 16 for Flight III Upgrade to AWS

### Water Mist

- Baseline change to install Water Mist in Machinery Spaces to replace Halon 1301



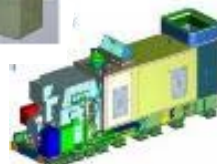
### AC Plant

- 5 x 300 Ton HES-C AC Plants Replacing 5 x 200 Ton AC Plants



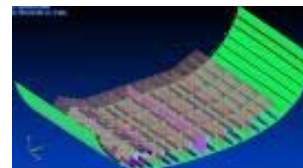
### 4160VAC Electric Plant

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



### Heptafluoropropane (HFP)

- HFP in Gas Turbine Modules & Flammable Liquid Storerooms



### Increased Innerbottom Scantlings

- Adds 90 LT to improve KG

- *Capability Increase*
- *Enabling Changes*
- *Other Changes*

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



# Summary

- 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 will be complete in support of start of construction
- First Flight III Ship at each shipyard awarded in 2017
- PB19 increases build rate (3 ships in FY19, FY21, FY22, and FY23)
- MYP FY18-22 RFP released and planned contract award summer FY18



**Delivering capability to the fleet for current and future missions**