



DDG 51 Program



**Surface Navy Association
Washington, DC
11 January 2017**



**Presented by:
CAPT Casey Moton, USN
DDG 51 Program Manager
PMS 400D**



Agenda



- **DDG 51 Shipbuilding Profile**
- **DDG 113-121 Production Status**
- **Flight III Update**
- **Summary**



Highlights

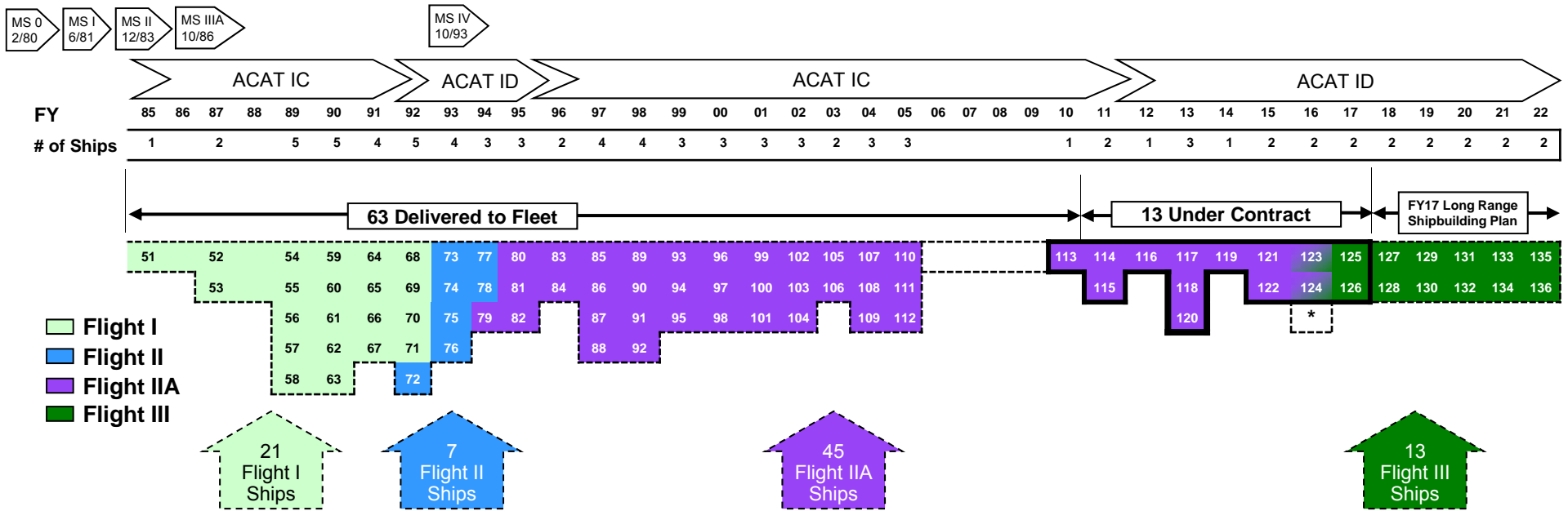


- **DDG 113 (first HII restart ship) delivered December 2016 after successful Trials**
- **DDG 115 (first BIW restart ship) successful trials, on track to deliver February 2016**
- **Seven additional ships under construction at HII and BIW with five more under contract in the FY13-17 MYP**
- **Both shipyards in execution and preparing for introduction of Flight III ships**





DDG 51 Class Shipbuilding Profile



	FY98-01 MYP										FY02-05 MYP					FY13-17 MYP					FUTURE AWARD																						
BIW	1	1	3	2	2	3	3	2	1	1	1	2	2	1	1	2	2	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ingalls		1	2	3	2	2	1	1	2	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
FY	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22					

ACQUISITION STRATEGIES	
Competition For Work	27
Negotiated Allocation	7
Competition for Profit (PRO)	8
Multi-Year (PRO)	34
TBD	10
Total	86

	DELIVERED	UNDER CONTRACT	TOTAL
BIW	34	7	41
Ingalls	29	6	35

* Congress authorized and appropriated incremental funding for an additional DDG 51 class ship in FY16 which the Navy plans to procure in the Flight III configuration pending negotiations and receipt of FY17 appropriations. Hull numbers will also be determined based on negotiations and FY17 appropriations



DDG 113, 114, 117, 119, 121 Status (HII)



- **DDG 113 (Delivered)**
 - Trial ALPHA completed 29 Aug 2016
 - Trial BRAVO completed 26 Oct 2016
 - Trial CHARLIE completed 04 Nov 2016
 - Delivery completed 7 Dec 2016



- **DDG 114 (88% complete)**
 - ALO completed 06 Jun 2016
 - MELO planned Jan 2017
 - ALPHA/BRAVO trials planned May 2017



- **DDG 117 (61% complete)**
 - Lay Keel completed 11 Sept 2015
 - Launch completed 11 Nov 2016
 - ALO planned July 2017



- **DDG 119 (37% complete)**
 - Start Fab completed 06 July 2015
 - Lay Keel completed 23 May 2016



- **DDG 121 (19% complete)**
 - Start Fab achieved 27 Apr 2016
 - Lay Keel planned Feb 2017



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



- **DDG 115 (98% complete)**
 - Trial ALPHA completed 18 Oct 2016
 - Trial BRAVO completed 17 Nov 2016
 - Trial CHARLIE completed 16 Dec 2016
 - Delivery planned Feb 2017
- **DDG 116 (75% complete)**
 - Lay Keel completed 06 Nov 2015
 - ALO scheduled Apr 2017
 - Launch scheduled Apr 2017
- **DDG 118 (20% complete)**
 - Start Fab completed Aug 2015
 - Lay Keel planned Feb 2018
- **DDG 120 (3% complete)**
 - Start Fab milestone achieved on 11 Sep 2016
 - Lay Keel planned Jan 2019





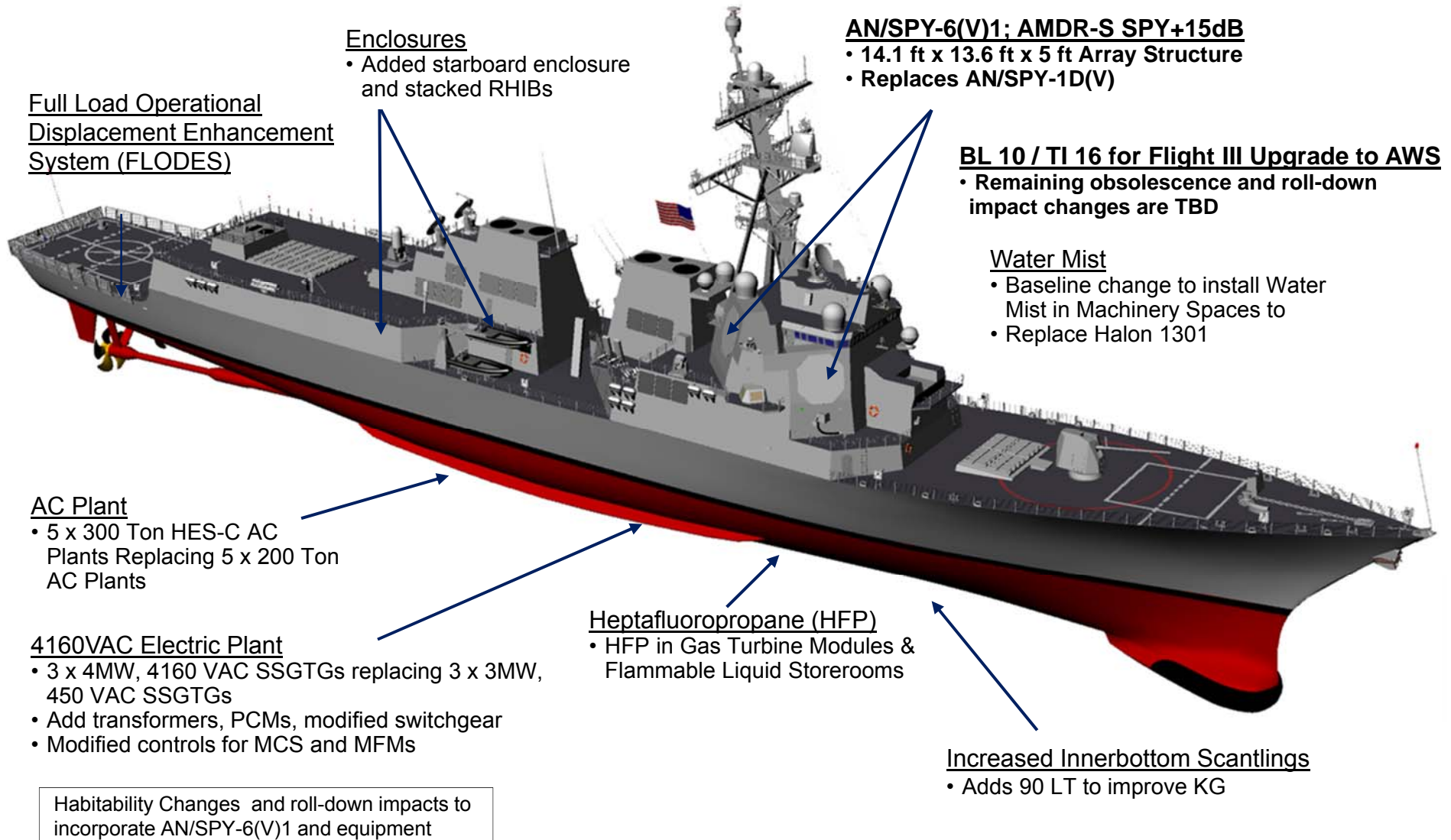
DDG 113 Bravo Trials Video



161025-N-AT101-721 GULF OF MEXICO (Oct. 25-26 2016) The pre-commissioning unit John Finn (DDG 113) conducts builder's trials, Oct. 24. John Finn, built by Huntington Ingalls Shipbuilding, will conduct the final phase of builder's trials, known as acceptance trials, in early November. (U.S. Navy video by Petty Officer First Class Maddelin Angebrand/Released)

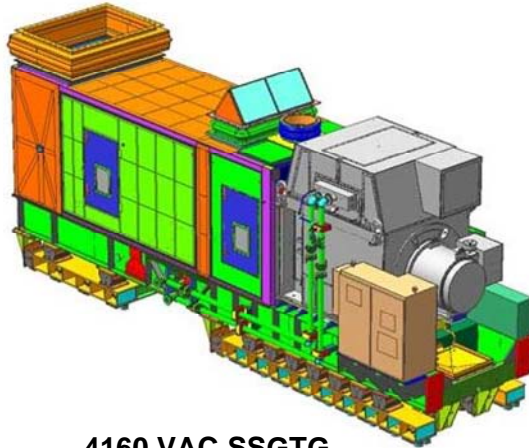


Flight III Changes





Flight III Distributive Systems Status



4160 VAC SSGTG

- Completed Preliminary Design Review (PDR) Sep 2015
- Critical Design Review (CDR) May 2016
- First delivery to Land Based Engineering Site (LBES) Nov 2017
- First Flight III order placed by shipyard December 2016

- Completed PDR Feb 2015
- Completed CDR Sep 2015
- Test Readiness Review (TRR) Jan 2017
- First Delivery to LBES Q3FY17



1000 VDC Power Conversion Module



300 Ton HES-C AC Plant

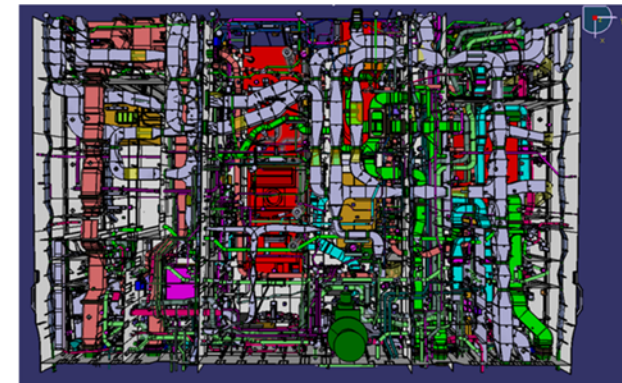
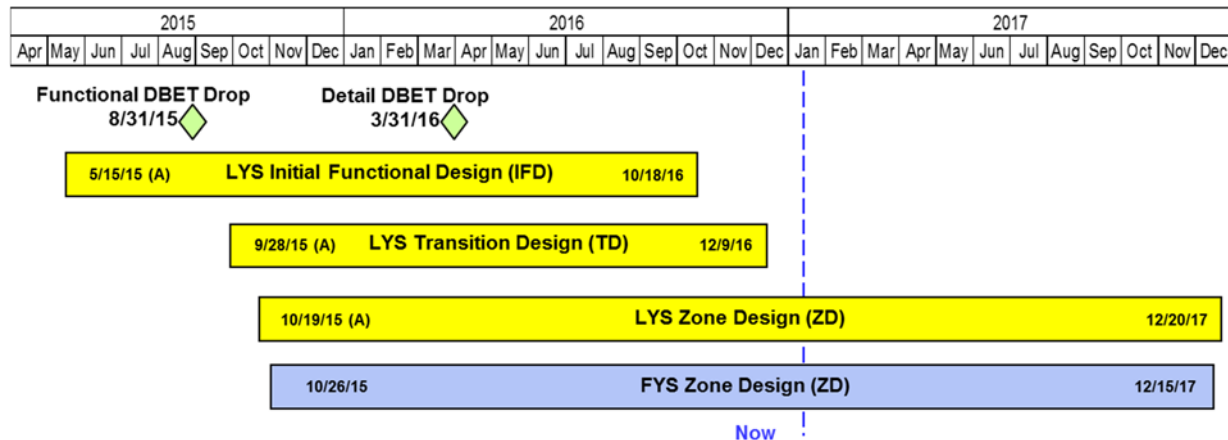
- Variable Speed Drive (VSD) CDR2 Completed Nov 2015
- VSD First Article Test (FAT) completed Mar 2016
- Chiller FAT ongoing (vibration and shock testing)



Flight III Design / Review Progression



- Flight III Preliminary Design Review (PDR) complete September 2015
- Critical Design Review (CDR) complete November 2016
- Initial Functional Design and Transition Design complete; Zone Design in progress; Will be complete before start of construction



Flight III Design Progressing to Support Start of Construction with a Mature / Stable Design



Summary



- **Initial DDG 51 Restart Ships at each shipyard have completed successful trials, and first ship delivered**
- **Shipyards reestablishing serial DDG 51 production, 13 more ships on contract through FY17**
- **Flight III Detail Design efforts on track for start of construction**
- **Flight III acquisition efforts in progress with shipbuilders**



Delivering capability to the fleet for current and future missions