

# Guided Missile Destroyer (DDG MOD) 2.0



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PM*



# PMS 421



## Large Surface Combatant Modernization & Sustainment

**Mission Statement:** Lead and integrate all modernization and sustainment policy, planning, and execution for Large Surface Combatants (LSC). Be responsible for the integration of modernization and sustainment throughout the lifecycle including harvesting of critical material from decommissioning platforms. Manage modernization planning and execution across Participating Acquisition Resource Managers (PARMs). Oversee all facets of LSC modernization, advanced planning of availabilities, integration of new technologies, planning yard functions and sustainment. Ensure timely funding and other agreements between SEA 21 and PARMs to improve modernization ration, availability planning and sustainment.

CG 47	DDG 51	DDG 1000	DDG(X)	AEGIS Ashore
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Modernization
<ul style="list-style-type: none"><li>• Planning &amp; Programming<ul style="list-style-type: none"><li>• POM Cycle Advanced Planning</li><li>• PY Oversight - SID Development / LLTM</li><li>• Congressional RFI Responses</li></ul></li><li>• Financial<ul style="list-style-type: none"><li>• Execution of TOA</li><li>• Manage Growth Funding Requests</li><li>• Oversee Upward Obs</li></ul></li><li>• Execution<ul style="list-style-type: none"><li>• Issue LOAs</li><li>• PMR Management</li><li>• NAVSEA Execution Reviews</li></ul></li></ul>

Sustainment
<ul style="list-style-type: none"><li>• Platform Readiness</li><li>• ILS</li><li>• OSLRs</li><li>• Safety</li><li>• Fleet Coordination</li><li>• Fleet Liaison / Feedback</li><li>• Harvesting</li><li>• LCMG support</li></ul>







# DDG MOD 2.0 Overview



## ➤ DDG MOD 2.0 is the next phase of upgrading the DDG 51 Class

- **In addition** to the DDG MOD 1.0 HM&E and Combat Systems/AEGIS upgrades, DDG MOD 2.0 ships will be equipped with:
  - ❑ SPY-6(V)4 Air and Missile Defense Radar (AMDR) with updated AEGIS Baseline
  - ❑ SLQ-32(V)7 Surface Electronic Warfare Improvement Program (SEWIP) Block III
  - ❑ High Efficiency Super-Capacity (HESC) Chillers

## ➤ May 2021 Resources & Requirements Review Board (R3B) Approved

- Smart Start Plan to ramp up to DDG MOD 2.0 production
  - ❑ Four DDGs will complete two modernization availabilities to receive full complement of 2.0 capabilities (DDGs 91, 93, 95, 97):
    - DDG MOD 1.5: Delivers SLQ-32(V)7 in addition to DDG MOD 1.0 HM&E and CS/AMOD packages
    - DMP2: Delivers SPY-6(V)4 and HESC
- Full Scale DDG MOD 2.0 will execute modernization on 2 DDGs per FY
  - ❑ Decision balances the need to deliver the capability to the Fleet while reducing the industrial base risk associated with the technically complex availabilities





# DDG 51 Class Modernization (DDG MOD) 2.0

## *Innovative Approach*



“Crawl – walk – run” approach to ramp up the DDG MOD Program to DDG MOD 2.0 through a Smart Start on four DDGs

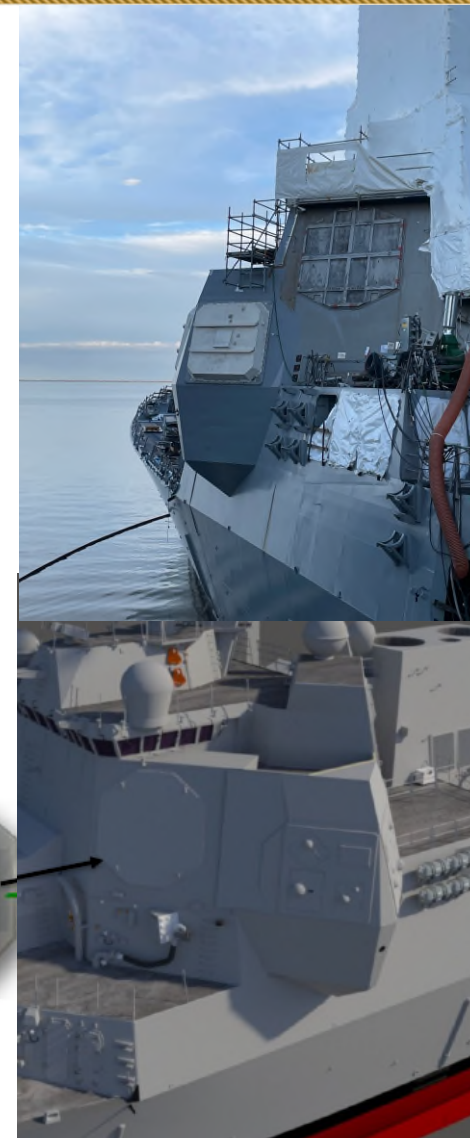
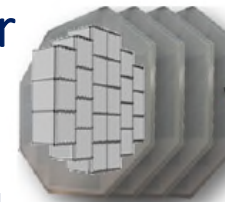
- Incrementally installing 2.0 capabilities across two avails for government and industry learning and training
- Modernization the central focus of DDG MOD 2.0 Availabilities

Transformational efforts in planning and execution phases

- Extensive use of LIDAR scans, 3D computer modeling and 3D printed models to improve engineering drawing quality and installation processes
- Out of the box installation methods to improve efficiency and reduce avail duration towards our BOLD GOAL of 52 weeks which could reduce overall program time

Modeling new construction programs with acquisition rigor

- Developed first Acquisition Strategy specific to surface ship modernization
- Creating new Program Office and Program Manager dedicated to DDG MOD 2.0



**DDG MOD 2.0 provides ESSENTIAL warfighting capabilities to the Surface Fleet through timely modernization of FLT IIA DDGs**







## *Questions / Discussion*