



FFG(X) Update National Symposium - Surface Navy Association

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FFG(X) System Description



Mission:

Anti-Submarine Warfare, Surface Warfare, Electromagnetic Maneuver Warfare, and Air Warfare

Description:

FFG(X) is an agile, multi-mission platform designed for operation in littoral and blue water environments.

Employment:

Operate independently or integrated with a Task Force to conduct offensive and defensive Surface, Anti-Submarine, and Air Warfare





FFG(X) Capabilities



Evolving threats in the global maritime environment drove the Navy to re-evaluate Frigate requirements and pursue a guided missile Frigate

FFG(X) leverages the proposed capabilities of the original Frigate (FF) program while adding

- Increased Air Warfare (AW) capability in both self-defense and escort roles
- Enhanced survivability (specifically focused on reduced vulnerability)
- Increased Electromagnetic Maneuver Warfare (EMW) capability

Maximizing capabilities while balancing cost

- “High / Low” mix of surface combatant capabilities to meet the increased challenges of future operating environment



FFG(X) Notional Warfare Systems

The following is a list of notional warfare systems that the **Navy** plans to provide as **Government Furnished Equipment** for the **FFG(X)**:

Warfare Systems
C4I suite (with accompanying HF/UHF/EHF/SATCOM antennas/CANES)
COMBATSS-21 Mod Combat Management System (CMS) (Aegis derivative leveraging the common source library)
Enterprise Air Surveillance Radar (EASR) 3 face fixed array (3x3x3 Radar Modular Assembly)
MH-60R x 1
Mk53 Decoy Launching System (Nulka)
OTH Weapon with FCS (2x4) – canister launched
SeaRAM Mk15 Mod 31
VLS
SLQ-32(V)6 (SEWIP Blk II) –SWaP-C reservation for EA
Tactical Cryptological System (TCS)
UAV (1 x MQ-8C) or future similarly sized UAS

Warfare Systems
7m RHIBs x 2
AN/SLQ-61 Light Weight Tow (LWT)
AN/SQS-62 Variable Depth Sonar (VDS)
AN/SQQ-89F Undersea Warfare / ASW Combat System
Cooperative Engagement Capability (CEC)
Integrated 360 degree EO/IR
Mission Control System (MCS) (MD-4A)
Mk110 57mm Gun (with ALaMO)
Mk160 Gun Fire Control System (GFCS)
Next Generation Surface Search Radar (NGSSR)
Surface-to-Surface Missile Module (SSMM Longbow Hellfire)
TB-37 Multi-Function Towed Array (MFTA)
UPX-29 Identification Friend/Foe (IFF)



Conceptual Design Phase



Promote competition through multiple awards

Reduce program risk for Detail Design & Construction; particularly with regard to the integration of warfare system elements and cyber architecture

- Use common Navy systems across the radar, combat system, C4ISR systems, and launcher elements while encouraging hull, mechanical, and electrical system commonality with other US Navy platforms

Mature parent designs* to produce the most cost effective and capable designs to meet FFG(X) requirements

Navy provided System Specification that details technical requirements for the FFG(X)

* Parent Design is a ship design that has been through production and demonstrated (full scale) at sea



FFG(X) Program Schedule



- **Conceptual Design Proposals have been received**
- **Award is expected late 2QFY2018**
- **Period of Performance is ~16 months from award**
- **Full and Open Competition for Detail Design and Construction (DD&C)**
 - Request for Proposals in 4Q2019
 - Contract award in FY2020



Questions?