PMS 406 UNMANNED MARITIME SYSTEMS

APRIL 05, 2022

Sea Air Space Exposition
"...advanced autonomous systems...to gain competitive military advantages” (NDS)

"...accelerating the development of the unmanned capabilities and long-range fires enabled by [Project Overmatch]” (Novel Force)

"Through a capabilities-based approach, we can build a future where unmanned systems are at the front lines of our competitive advantage.” (UCF)

"We are building to a new force architecture that features more, smaller ships distributed across a wider geographic area.” (Surface Warfare)

"Cost-effective platforms and manned-unmanned teaming will increase the capacity of the fleet and expand our ability to distribute our forces” (AaS)

"Unmanned platforms play a vital role in our future fleet” (NAVPLAN)

"To seamlessly integrate [Intelligent Autonomous Systems] as trusted members of the Naval Enterprise” (IAS)
UNMANNED MARITIME SYSTEMS ACQUISITION

PEO Unmanned and Small Combatants (PEO USC)

Expeditionary

- PMS 420
  - MCM USV
  - Knifefish
- PMS 495
  - Barracuda
- PMS 408
  - MK18 MOD 2 Viperfish
  - MK18 MOD 1 Lionfish
- PMS 340
  - MK18 MOD 1 Lionfish

Undersea

- PMS 406
  - Orca XLUUV
  - Snakehead LDUUV
  - Razorback
  - Medusa
  - Enabling Capabilities

Surface

- MUSV
- LUSV

ASN (RDA)

Core Technologies

Enabling Capabilities

Distribution A: Approved for Public Release; Distribution Unlimited
AUTONOMY DEVELOPMENT

Platform-specific monolithic autonomy baselines
Unique platform, payload, C2 interfaces
Defined interfaces for common autonomy services
Unmanned Maritime Autonomy Architecture (UMAA)

Continuous autonomy software pipeline with automated compliance, performance, and certification testing
Rapid Autonomy Integration Lab (RAIL)

Distribution A: Approved for Public Release; Distribution Unlimited
One to One C2 Solutions
Not Integrated Ashore or Afloat
Not Interoperable

Common core software (Common Control System-CCS)
Common Government developer and Software Support Activity
Integration into ashore control centers (UOC) and afloat combat systems by Government PMOs