Unmanned Maritime Systems Update

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UNMANNED AND

ACCELERATE · INNOVATE · DELIVER

PNS 40 6 FRIERE STREET

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Extra

Large

(Pier Launch)

(Dia. >84in)

Large

(Surface or

(Dia. >21in

and ≤84in)

Medium

(Surface or

(Dia. >10in

and ≤21in)

Small

(Man Portable)

Mk18 Mod 1 (Swordfish)

(Surface or Submarine Launch)

(Dia. >3in and ≤10in)

UUV Systems Vision

Enhanced, Efficient Capabilities





IPOE

Sandshark

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IPOE

IVER



USV Systems Vision

Enhanced, Efficient Capabilities







Core Technology Enablers



Endurance

- Improved reliability & safety
- Increased endurance & range
- Support additional & more capable sensors

Autonomy & Precision Navigation

- Increased levels of autonomy & decision making
- Increased accuracy & reliability

Command, Control, and Communications > Safely, autonomously & reliably launch and recover

- Standard Command, Control, and Communications
- **Payloads & Sensors**
 - Increased capacity for sensors and payloads
 - Increased capability
- **Platform Integration**
 - Increased capability to launch and recover
 - Increased coordination with host platforms



- Common C2
- Payload Integration Group Li Ion Battery Certifications

Increasing the Maturity of Critical Technologies is Integral to Success

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USV Platforms



• Large USV (LUSV)

Part of Surface Capability Evolution Plan and Future Surface Combatant Force

Provides distributed fires

Medium USV (MUSV)

- Part of Surface Capability Evolution Plan and Future Surface Combatant Force
- Provides distributed sensing and communications relays

Mine Countermeasures USV (MCM USV)

- Modular USV to support Modular MCM Force from LCS or Vessel of Opportunity
 - Sweep (UISS configuration)
 - Hunt (incorporates towed sonar)
 - Neutralize (incorporates neutralizer round)





MCM USV





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