SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

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CAPT Kate Dolloff  Program Executive Officer – Maritime

PEO PORTFOLIO REVIEW

DISTRIBUTION A: APPROVED FOR PUBLIC RELEASE
Program Executive Office – Maritime

- PEO Opening Comments and Portfolio Overview
- PM Surface Systems
- PM Combat Diving
- PMS Naval Special Warfare
- PMS SOF Mobility
- PM Undersea Systems
- S&T and R&D Interests
- Open Forum Questions
Program Executive Office – Maritime

CAPTAIN BRIAN OLAVIN  
CCA  
CCM  
CCFLIR  
SOCR  
LVADS  
MPE

CAPTAIN KATE DOLLOFF  

CAPTAIN JOHN NEWTON  
DDS  
DCS Technical Support

COMMANDER KEITH OSWALD  
DCS

MR JIM KNUDSON  
Combat Diving

CAPTAIN CHAD MUSE  
SDV  
SWCS
Program Executive Office – Maritime

UNDERSEA SYSTEMS
- SEAL Delivery Vehicle
- Dry Deck Shelter
- Shallow Water Combat Submersible
- SOF Combat Diving
- Dry Combat Submersible
- S351

SURFACE SYSTEMS
- Combatant Craft Assault
- Combatant Craft Heavy
- Special Operations Craft - Riverine
- Combatant Craft Medium Mark 1
- Low Velocity Air Delivery
- Combatant Craft FLIR 2
- Maritime Precision Engagement
Program Executive Office – Maritime

Thousands of Dollars

FY16 FY17 FY18 FY19

RDT&E PROC PEO O&M WARCOM O&M TOTAL
Program Executive Office – Maritime

• Continue Fielding Enhanced Capability
  – Recapitalization/Upgrade of the Fleet
    ▪ Combatant Craft/CCFLIR2
    ▪ SDV to SWCS
    ▪ Dry Deck Shelter Modernization
  – New capabilities
    ▪ Dry Combat Submersible
    ▪ Maritime Precision Engagement
    ▪ SOF Combat Diving

• Areas of Interest
  – Maritime Communications
  – Power & Energy
  – Signature Management
  – Training and Operator Performance
  – Enhanced Navigation
  – Improved C4ISR
  – Diving Technologies
  – Fleet Interoperability
  – Unmanned Technologies
  – Survivability and Lethality

• Reaching out to Industry Partners
  – Requests for Proposals
  – Requests for Information
  – Broad Area Announcements
  – SOFWERX Collaboration events
  – S&T Test & Evaluation events
  – Industry Days
SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

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CAPT Brian O’Lavin  Program Manager Surface Systems

PORTFOLIO REVIEW
NSW Surface Craft Roadmap

<table>
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</table>
Combatant Craft Heavy (CCH): SEALION

- SEALION provides long range insertion capabilities for SOF personnel. Supports limited coastal patrol and interdiction
- SEALION I Overhaul contract awarded FY17
- SEALION III Production contract awarded FY17
- 2 of 3 Fielded

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<thead>
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<th>ACQUISITION STRATEGY</th>
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<tr>
<td>• Two tech demonstrators transferred from USN</td>
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<td>• SEALION III sole source award</td>
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<th>PERIOD OF PERFORMANCE</th>
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<tr>
<td>• USSOCOM SOF AT&amp;L, Technology &amp; Industry Liaison Office (TILO) (813) 826-9482</td>
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<th>CURRENT CONTRACT/OEM</th>
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<tr>
<td>• Vigor Works, LLC (OEM)</td>
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<td>• SOFSA / Lockheed Martin (CLS)</td>
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</table>
Combatant Craft Medium (CCM) MK 1

- Multi-role surface combatant craft with the primary mission of inserting and extracting SOF in medium threat environments
- Achieved 2.0 Deployment Presence 2QTR FY18
- 17 of 30 Fielded

### Acquisition Strategy
- Small business set aside using competitive prototyping

### Period of Performance
- FY15 through FY22

### Milestones
- IOC: FY15
- FOC: FY22

### Point of Contact
- USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

### Funding
- RDT&E FY18 through FY24
- PROC FY18 through FY24
- O&M FY18 through FY24

### Current Contract/OEM
- Vigor Works, LLC (OEM)
- SOFSA / Lockheed Martin (CLS)
Combatant Craft Assault (CCA)

- Medium Range, maritime assault, interdiction, insertion and extraction platform. Provides expanded range, speed, and payload capacity over existing Naval Special Warfare Combatant craft of similar size
- Successful execution of the first ever Low Velocity Air Delivery System (LVADS) from an AFSOC MC-130-J
- 24 of 32 Fielded

**ACQUISITION STRATEGY**
- Post-production and contractor logistical support with SOFSA

**PERIOD OF PERFORMANCE**
- FY16 through FY20

**MILESTONES**
- IOC: FY15
- FOC: FY20

**POINT OF CONTACT**
- USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

**FUNDING**
- RDT&E: FY18 through FY24
- PROC: FY18 through FY24
- O&M: FY18 through FY24

**CURRENT CONTRACT/OEM**
- US Marine Inc. (OEM)
- SOFSA / Lockheed Martin (CLS)
Combatant Craft Forward Looking Infrared (CCFLIR)

- The CCFLIR capability provides Special Operations Forces (SOF) with a multi-sensor, electro-optic system that enhances SOF effectiveness by improving their ability to detect, recognize, identify, range, track, and highlight objects of interest in a maritime environment.
- Deployed initial LRIP
- Integration into CCA, CCM, and CCH platforms
- 5 of 58 Fielded

**ACQUISITION STRATEGY**
- Full and Open Competition completed FY15
- Modified GOTS technology

**PERIOD OF PERFORMANCE**
- FY15 through FY24

**MILESTONES**
- IOC: FY18
- FOC: TBD

**POINT OF CONTACT**
- USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

**FUNDING**
- RDT&E: None
- PROC: FY18 through FY21
- O&M: FY18 through FY24

**CURRENT CONTRACT/OEM**
- FLIR Systems, Inc. (OEM)
- NSWC Crane – Sustainment
## Maritime Precision Engagement (MPE)

- MPE is a Family of Standoff, Loitering, Man-in-the-loop Weapons Systems Deployed on Combatant Craft and Capable of Targeting Individuals, Groups, Vehicles, High Value Targets, and Small Oceangoing Craft with Low Collateral Damage. The program consists of combatant craft alterations, launcher systems, and munitions
- Requirement validated by USSOCOM – March 2018
- Government initiated feasibility study in support of CCM and CCH

### Acquisition Strategy
- Full and Open Competition of a Government design

### Period of Performance
- TBD

### Milestones
- TBD

### Point of Contact
- USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

### Funding
- RDT&E: FY19 through FY23
- PROC: FY20 through FY24
- O&M: FY20 through FY24

### Current Contract/OEM
- TBD
- NSWC Dahlgren – Feasibility Study
- NSWC Carderock – Feasibility Study
Combatant Craft Mission Equipment (CCME)

- CCME provides advanced technologies to correct system deficiencies, improve asset life, and augment mission requirements. It provides rapid response solutions to support SOF combatant craft systems, sub-systems, and their evolving requirements
- Successfully integrated Mk50 SOF Mods
- Completed paint upgrade effort to reduce cost, increase sustainability, and improve performance

**ACQUISITION STRATEGY**
- Marinize High TRL Technologies across the family of combatant craft through BAAs, SIBRs, and existing government contracts

**PERIOD OF PERFORMANCE**
- Varies

**MILESTONES**
- Varies

**POINT OF CONTACT**
- USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

**FUNDING**
- RDT&E FY18 through FY24

**CURRENT CONTRACT/OEM**
- SPAWAR Atlantic
- NAVAIR
- NSWC - Carderock
- NAWC – Aircraft Division
Surface Systems Technology Areas of Interest

- SATCOM on the Move
- Wireless Intercoms Interoperable with NSA Type I Certified Radios
- Communications
- Improved Antenna Technology
- Enhanced Radar Systems
- Shock & Vibration Mitigation
- Precision Guided Munition
- Extended Range Operations
- Navigation in GPS Denied Environments
- Enhanced Armor (lightweight)
- Threat Awareness / Warning
- Underwater Mapping
- VTOL UAS for Launch and Recovery on Combatant Craft
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Mr. Jim Knudson  Program Manager Special Operations Forces Combat Diving

PORTFOLIO REVIEW
SOF Combat Diving

- Supports the individual diver as well as integration into PEO Maritime systems
- Planned efforts target equipment such as, maritime protection, propulsion, navigation and communication
- Supports future development for Undersea Mobility involving wet or dry submersibles

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<thead>
<tr>
<th>ACQUISITION STRATEGY</th>
<th>PERIOD OF PERFORMANCE</th>
<th>MILESTONES</th>
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<tbody>
<tr>
<td>• Utilization of existing contracts, other government agencies, and new contracts competitively selected</td>
<td>• Planned FY18-FY24</td>
<td>• Various Based on Projects</td>
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<td>• O&amp;M FY19 through FY24</td>
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</table>
Combat Diver Big 4

• **Survivability**
  – Increased environmental protection
  – Underwater Breathing Apparatus with reduced breathing resistance
  – Increased dive duration
  – Reduced operator signature (noise)
  – Compact/incorporated systems

• **Maneuverability**
  – Individual and multi-diver capability
  – Modularity
  – Compact size/weight reduction
  – Flexible delivery capability (sub, ship, A/C)

• **Communications**
  – Smart phone capabilities in the water column
  – Diver situational awareness both in and out of the water column
  – Communications to and from divers and all host/support platforms both in and out of the water column

• **Navigation**
  – GPS tracking from the water column
  – “Blue Force Tracker” undersea
  – Modular
Shallow Water Combat Submersible (SWCS)

- Next generation free-flooding wet combat manned submersible to transport Special Operations Forces (SOF) personnel and equipment in hostile waters for a variety of missions
- SWCS replaces the current SDV Mk 8, Mod 1 vehicle

**ACQUISITION STRATEGY**
- Full and open competition
- Contract awarded in 2011

**PERIOD OF PERFORMANCE**
- June 2011 – April 2020

**MILESTONES**
- IOC: FY18

**POINT OF CONTACT**
- USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

**FUNDING**
- RDT&E FY18 to FY24
- PROC FY18 to FY24
- O&M FY18 to FY24

**CURRENT CONTRACT/OEM**
- Teledyne Brown Engineering, Huntsville, AL
Shallow Water Combat Submersible (SWCS)

• **SWCS vs SDV Size/Weight Differences**
  – SWCS is 12” longer and 6” taller
  – SWCS is 4000lbs > SDV

• **SWCS Enhancements over SDV**
  – Intel Core i7 Processors, Secure SSD, GB Ethernet Backbone
  – Improved Software and User Interface
  – Higher Accuracy Navigation
  – Bow Thrusters

• **Project Status**
  – Boat 1 & 2 Delivery: May & June 2018
  – Boat 3 & 4 Delivery: September 2019
  – Boat 5 award: May 2018

• **SWCS Related DDS Field Changes**
  – FC-107 (Data Connection from Battery Management System to Hangar)
  – FC-156 (Portable track and Cradle)
  – FC-160 Rev C (Hangar Rearrangement/Hydraulics)
  – FC-174 (Track and Cradle)
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CAPT John Newton  Program Manager  SOF Mobility

PORTFOLIO REVIEW
Dry Deck Shelter

- The Dry Deck Shelter (DDS) is a certified diving system that attaches to modified Submarines. The program provides material safety certification, maintenance, modernization (Field Changes) and minor modifications for the DDS.

- Maintenance and modernization contract to include Restricted Availabilities (RAVs) Regular Overhauls (ROHs) and Configuration Changes.

**ACQUISITION STRATEGY**

- DDS Maintenance Contract (open competition)
- Contract awarded in 2013

**PERIOD OF PERFORMANCE**

- July 2013 – July 2018

**MILESTONES**

- Mod DDS production start May 2018
- Re-compete contract award July 2018
- 6 DDS retire from 2042 thru 2051

**POINT OF CONTACT**

- USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

**FUNDING**

- RDT&E FY18 through FY22
- PROC FY18 through FY24
- O&M FY18 through FY24

**CURRENT CONTRACT/OEM**

- Oceaneering International Inc. – Marine Services Division
- (OII-MSD)
**Dry Deck Shelter**

**Dry Deck Shelter Modernization Project**

- **Mod DDS Configuration Changes**
  - Field Change (FC) 167 – Remotely Operated Hangar Outer Door
  - FC 168 – Extend Shelter 50 inches
  - FC 169 – Increased capacity Payload Launch and Recovery System
  - FC 170 – Remote Control from the Host Submarine
- **Mod DDS Objectives**
  - Increase payload volume by 30%
  - Increase weight capacity by 300%
  - Remote hangar operation from Virginia Class host submarine
  - Reduce risk to host submarine
  - Reduce operator fatigue

- **Project Status**
  - Preliminary Design Review completed Sept 2016
  - Critical Design Review completed Dec 2017
  - Technical Data Package approval by May 2018
  - Tech Demonstrator Production – Start May 2018
- **Target Payloads**
  - Naval Special Warfare (NSW)
  - Shallow Water Combat Submersible (SWCS)
  - Future Dry Combat Submersible (DCS)
  - Large Displacement Unmanned Undersea Vehicle (LDUUV)
  - Littoral Battlespace Sensing-AUV, Submarine (LBS-AUV(S))
Dry Deck Shelter – Project Improvement

DDS “Next”
- Host Sub (HOSUB) interoperability
- DDS Enhancements

ACQUISITION STRATEGY
- DDS Maintenance Contract (open competition)
  - Contract awarded in 2013

FUNDING
- RDT&E FY18 through FY22
- PROC FY18 through FY24
- O&M FY18 through FY24

POINT OF CONTACT
- USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

Host Sub (HOSUB) interoperability
- DATA Transfer between DDS & HOSUB
- Power Distribution between DDS & HOSUB
- Interior Communication between DDS & HOSUB

DDS Enhancements
- External Camera w/ Display on HOSUB
- Ground Fault Detector
- CO2 Scrubber Heater
- Payload Docking Sonar System
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CDR Keith Oswald Program Manager UnderSea Systems

PORTFOLIO REVIEW
Dry Combat Submersible (DCS)

ACQUISITION STRATEGY
- Full and Open Competition for Production Representative System with Options for Up to Two Additional Systems

PERIOD OF PERFORMANCE
- DCS 1: 13 July 2016 to 13 February 2019
- DCS 2/3: Pending Exercise of Options

MILESTONES
- IOC 1st QTR FY20
- FOC 2nd QTR FY22

POINT OF CONTACT
- USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

FUNDING
- RDT&E FY18 through FY24
- PROC FY18 through FY20
- O&M FY20 through FY24

CURRENT CONTRACT/OEM
- Lockheed Martin RMS (Prime)
- Submergence Group, LLC (Major Sub)
- MSubs Ltd. (Major Sub)
# Undersea Systems Schedule & Forecast

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### Notional Submarine Interoperable DCS Schedule

- **ROT&E**: Material Solution Analysis
- **PROC**: Technology Development
- **O&M**: Engineering & Manufacturing Development
- **Production**: Production
DCS Future Projects

Submarine interoperable dry submersible
• Hosted by US Navy submarines
• Min 6 personnel (2 pilots / 4 mission specialist)

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<th>ACQUISITION STRATEGY</th>
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<td>• USOOCOM SOF AT&amp;L, Technology &amp; Industry Liaison Office (TILO) (813) 826-9482</td>
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<tr>
<td>• Acquisition Strategy: In Progress</td>
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Submarine interoperability:
• Launch & recovery
• External attachment solutions
• Wet-matable underwater connections (power, air, comms, etc)

DCS enhancements:
• Undersea communications
• Upgraded sensor suites
• Navigation
• Battery technology (safety / capability)
• C4ISR
• Training & logistics
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Mr. John Bailey  Maritime Chief Engineer

PORTFOLIO REVIEW
S&T / R&D Investment & Opportunities for Industry

- In FY20-24, PEO-M has requested significant additional RDTE funding to build capability in the areas listed below
- FY18-19 investments will align to FY20-24 thrust areas; significant interaction with industry, academia, government labs, and other potential partners is anticipated throughout FY18-19

**ACQUISITION STRATEGY**

- Leverage both existing and new contracts. Use IDIQ / RFP / BAA / SBIR / STTR
- Open architectures – maximize opportunity for rapid integration of new technology

**FY18 – FY19 Planned Investment**

- Maritime Communications
- Power & Energy
- Signature Management
- Maritime Precision Engagement
- Strategic Initiatives

**FY20-FY24 Planned Investment**

- Maritime Communications
- Power & Energy
- Signature Management
- Strategic Initiatives & Fleet Interoperability
- Unmanned Technologies
- Enhanced Navigation
- Improved C4ISR Capabilities
- Diver Technologies
- Surface Craft Survivability & Lethality
- Training & Operator Performance

**Point of Contact**

- USSOCOM SOF AT&L, Technology & Industry Liaison Office (TILO) (813) 826-9482

**FUNDING**

- RDTE FY18 through FY19
- RDTE Requested Increase FY20 through FY24
Planned Investments

• **Maritime Communications**
  – Above & Under Water; Thru interface
  – Open Architectures / Initial Capabilities Document / Standards

• **Power & Energy**
  – Pace the State of the Art
  – Safe For Use Aboard Navy Platforms
    ▪ Li-ion: NAVSEA INST 9310.1c

• **Signature Management**
  – Highly Technical and Complex Field; Significant Barriers to Entry
  – Most Likely Avenue of Entry for New Performers Will Be Thru SOCOM S&T

• **Strategic Initiatives & Fleet Interoperability**
  – Maximize Ability to Operate in Conjunction With, and Deploy From, US Navy Assets

• **Unmanned Technologies**
  – Leverage Services to Greatest Extent Possible
  – Apply SOCOM Funding for SOF Peculiar Capabilities
Planned Investments

• **Enhanced Navigation**
  – Modify Service or SOCOM Common PNT Solutions for Maritime Use
  – Develop Unique Underwater Navigation Technologies as Necessary

• **Improved C4ISR Capabilities**
  – Situational Awareness Enhancements
  – Marinized Intelligence, Surveillance and Reconnaissance Packages

• **Diver Technologies**
  – Continued Transformation to System of Systems
  – Platform Integration of Diver Technology

• **Surface Craft Survivability & Lethality**
  – Lightweight Armor
  – Improved Weapons Systems

• **Training & Operator Performance**
  – Virtual & Augmented Reality Technology
  – Integrated Simulator / Trainers
QUESTIONS?