



N851
NAVAL SPECIAL WARFARE
BRANCH

Captain Bob Wilson
Branch Head

Unclassified



N851 – Primary Responsibilities



- **Resource sponsor for:**
 - Naval Special Warfare (NSW) service common requirements. (FY10 ~\$22.5M)
 - Navy Riverine Force. (FY10 ~\$18.2M)

- **Senior NSW advocate/advisor on the staff of the CNO.**
 - NSW Urgent Operational Need (UON)/SOF - related Joint Urgent Operational Need (JUON) advocate.
 - Advisor in support of N81 analyses and studies that include or support NSW/SOF equities.

- **OPNAV coordinator/advocate for Navy programs that support/involve NSW/ExW. Examples include:**
 - Scan Eagle Unmanned Aircraft System (in support of NSW and USCENTCOM).
 - Small Tactical Unmanned Aircraft System (STUAS).
 - Special Operations Force (SOF) support attributes of future Navy ships.
 - Navy policy for Premeditated Personnel Parachuting (P3) operations.
 - “Naval Solution for Visit, Board, Search and Seizure (VBSS).”
 - Navy rotary wing support to SOF (transitioned to N3N5 Irregular Warfare Office).

- **Represent Commander, NSW Command, as directed, in the National Capital Region.**



N851 - Top Programs



➤ **Naval Special Warfare (NSW)**

- Provide procurement and sustainment resources for service common capabilities, to include:
 - Small Arms & Weapons Mounts
 - Tactical Communications Equipment
 - Night Vision Equipment
 - Training Support Craft
 - Operational Stocks
 - Planning & Management Support Systems

➤ **Riverine Activities Program**

- Provide procurement resources for initial outfitting, capability improvements and phased replacement for Riverine Group ONE and component Riverine Squadrons ONE, TWO and THREE.
- Achieve Full Operational Capability (FOC) by FY 2010 (with exceptions).
- Support establishment of a "Fourth Riverine Squadron."

➤ **Unmanned Aircraft Systems (STUAS) for L-Class ships, NSW and NECC**

- Representing N85 equities (NSW, NECC and L-Class ships) in this N2N6 - resourced program.
- Expeditionary Forces require STUAS Tier II vice STUAS – Lite.

➤ **Procurement/sustainment of Scan Eagle Unmanned Aircraft Systems ISO SOF**

- Requested by NAVSPECWARCOM, via UONS, and USCENTCOM, via JUONS for OIF and OEF.
- Capabilities provided by the JUON employed under custody of NAVSPECWARCOM.
- N851 coordinates execution with NAVAIR program office, Task Force ISR, Naval Special Warfare Command, Special Operations Command Central and other involved/interested parties.



Naval Special Warfare



Capability Description

➤ **Naval Special Warfare (NSW) forces conduct special operations in support of Joint Force and Navy commanders. Examples include, but aren't limited to:**

- *Direct Action*
- *Special Reconnaissance*
- *Foreign Internal Defense*
- *Counter-terrorist Operations*

➤ **NSW Forces have been deployed to OEF since 2001 and OIF since 2003.**

➤ **Navy is responsible for providing resources to support NSW service common capabilities/sustainment.**

➤ **Categorization: Navy - only program (SOCOM interest)**

- *N85 - Principal resource sponsor; responsible for (most) NSW service common procurements/sustainment (OMN, OPN, WPN). [N6F was responsible for resourcing NSW service common portable radios (OPN); resources now in N85.]*
- *N86 - Responsible for resourcing NSW service common Chemical, Biological, Radiological Decontamination Equipment (CBRDE) and Small Tactical Unmanned Aircraft System (STUAS) capabilities (OMN, OPN, APN).*



USSOCOM - Resource sponsor for all **Special Operations peculiar** capabilities/sustainment, capability improvements and all NSW ammunition.



NSW Scan Eagle UAS

Mission: Procured in response to NSW and Joint SOF Urgent Needs, the Scan Eagle UAS provides Full-motion Video (FMV) intelligence, surveillance, reconnaissance, and targeting support to tactical users.

➤ **Operational Employment:**

- 9 Navy-owned systems
 - 6 x Operational, 2 x training, 1 x Op Spare
- Hub & Spoke Operations (300 hrs/month)
 - Spoke (Forward Control Station) ~100km

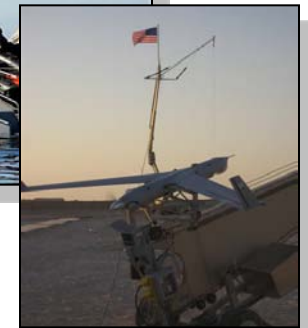
➤ **Equipment:**

- Scan Eagle UAS (12 air vehicles per site)
- Ground Control Stations, Launch/ Recovery, Pack-up & Maintenance kits, Ops/Maintenance Shelters

➤ **Operational Overview**

- **IOC:** Nov 08 (OIF), Aug 09 (OEF)
- **OIF (as of 30 Sep 09):**
 - Sorties: 346
 - Total Flight Hrs: 1847 hrs
- **OEF (as of 30 Sep 09)**
 - Sorties: 58
 - Total Flight Hrs: 450 hrs

➤ **Rapid Development Deployment (RDD) – Special Payload Efforts**



Performance		
Max Level Speed	70 knots	36 m/s
Cruise Speed	49 knots	25 m/s
Service Ceiling	16,400 ft.	5000 m
Endurance	15 hours	15 hours

Dimensions		
Wing Span	10.2 ft.	3.1 m
Fuselage Diameter	7.0 in	0.2 m
Length	3.9 ft	1.2 m

Scan Eagle UAS is an interim capability until fielding of STUAS Program of Record ~4Q FY13

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Riverine Activities



Capability Description

- **Operational Riverine Force components (Riverine Squadrons) are organized, trained and equipped to conduct maritime security operations and theater security cooperation missions along inland waterways. Examples include, but aren't limited to:**
 - *Patrol*
 - *Interdiction/Visit, Board, Search, Seizure*
 - *Troop transport*
 - *Foreign Internal Defense*
- **N851 has been managing initial outfitting resourcing of the Riverine component of NECC since late FY05.**
- **Riverine Squadrons have been deployed to OIF since March 2007.**
- **Categorization: Navy - only program**
 - *N85 - Principal resource sponsor; responsible for procurement resources (OPN, WPN, PANMC, RD TEN)*
 - *N2N6 - Responsible for resourcing portable radios (OPN)*
 - *N43 - Responsible for resourcing readiness funding (OMN)*
 - *N86 - Responsible for resourcing CBRDE (OPN, OMN)*





USN Riverine Craft



Riverine Assault Boat (RAB)

Riverine Patrol Boat (RPB)



Riverine Command Boat (RCB)

***Combat Rubber Raiding Craft
(CRRC)***





Riverine Vehicles



MK 25 MTVR W/ MAS ARMOR KIT



UPARMORED HMMWV



CAT I



CAT II



MRAP (Mine Resistant Ambush Protected)



Weapons



M4



M9



M500



M2HB



GAU-17



MK19



M240G



MK21



MK48

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BACKUPS



What N851 Needs from Industry



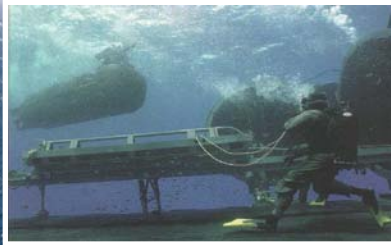
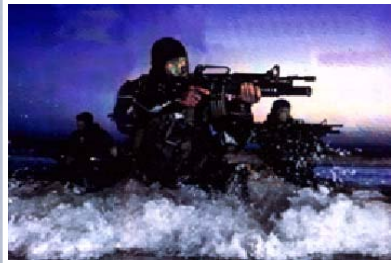
- Lighter weight body armor
- Lighter weight modular/removable vehicle & boat armor
- Improved anti-corrosive coatings for weapons
- Batteries with higher power densities and lighter weight
- Tools to aid with concealment of people and equipment
- Portable translation devices and even better, ability to manage pools of vetted native speakers that can be tapped into
- (N2N6/CT Support) Data mining tools that can reach across the plethora of databases that can't talk to each other
- Heavy Fuel Engine for shipboard UAS ops



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NAVAL SPECIAL WARFARE (N851)



Service Common Capabilities

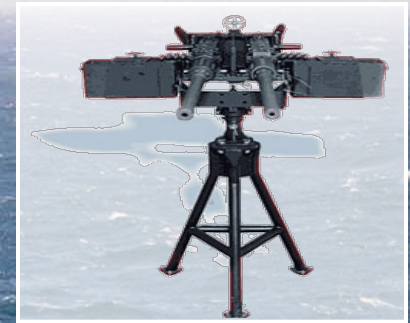
- Pre-positioned operational stocks
- Visual Augmentation Systems
- Training support craft
- Small-arms and weapons mounts
- Tactical Communications Equipment

Irregular Warfare (IW)

- Developing Navy IW portfolio investment strategy
- Provide recommendations for Navy unique, risk-mitigating solutions to Joint IW efforts

Future Capabilities

- Integrate into future Navy capabilities and concept development of unmanned systems
- Provide expertise in development of future Special Warfare service common items



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Riverine Assault Boat (RAB)



Characteristics	
Hull Type	High-grade Aluminum Rigid
Length	33 ft
Beam	9 ft
Draft	2 ft
Crew	7
Passengers	-
Twin Diesels w/Water Jets	Yes
Top Speed: full load	30 knots - cruise 40 knots - sprint
Range	250 nm
Fuel Capacity	250 gallons
C-130 Transportability	No
Combat Load	20, 500 lbs.
Bow Door/Ramp	No
Weapons Foundations	Multiple



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Riverine Patrol Boat (RPB)



Characteristics

Hull Type	High-grade Aluminum Rigid
Length	39 ft
Beam	10 ft – 2 in
Draft	2 ft
Crew	5
Passengers	8
Twin Diesels w/Water Jets	Yes
Top Speed: full load	35 knots - cruise 38 knots - sprint
Range	275 nm
Fuel Capacity	300 gallons
C-130 Transportability	No
Combat Load	22, 800 lbs.
Bow Door/Ramp	Yes
Weapons Foundations	Multiple



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Riverine Command Boat (RCB)



Characteristics	
Hull Type	High-grade Aluminum Rigid
Length	49 ft
Beam	12 ft – 5 in
Draft	3 ft
Crew	4
Passengers	26
Twin Diesels w/Water Jets	Yes
Top Speed: full load	40 knots - cruise 45 knots - sprint
Range	>320 nm
Fuel Capacity	300 gallons
C-130 Transportability	No
Combat Load	40,000 lbs.
Bow Door/Ramp	Yes
Weapons Foundations	Multiple



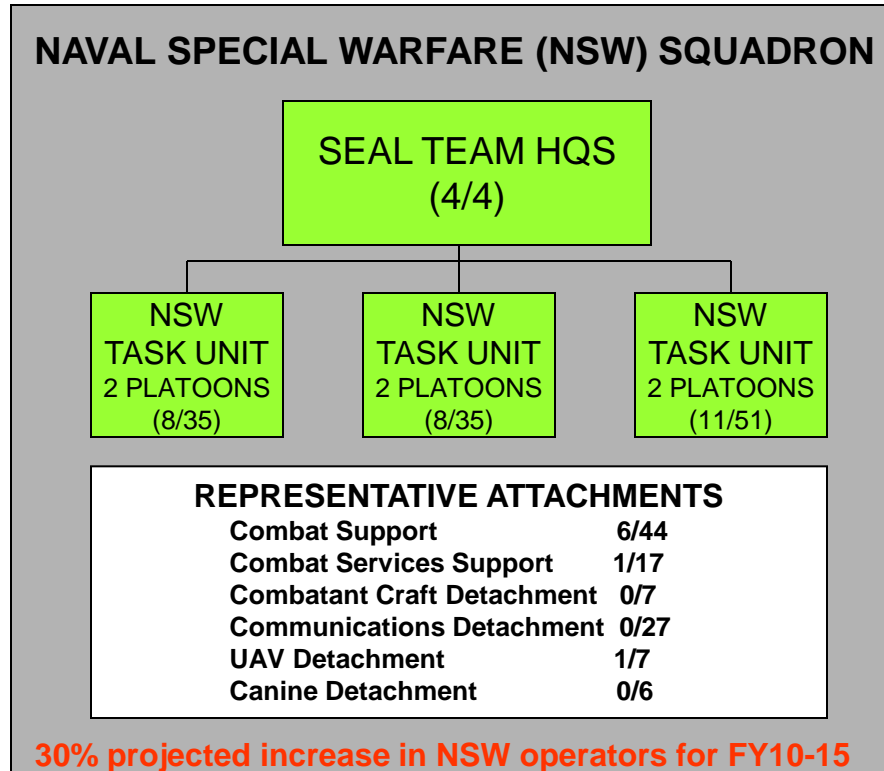
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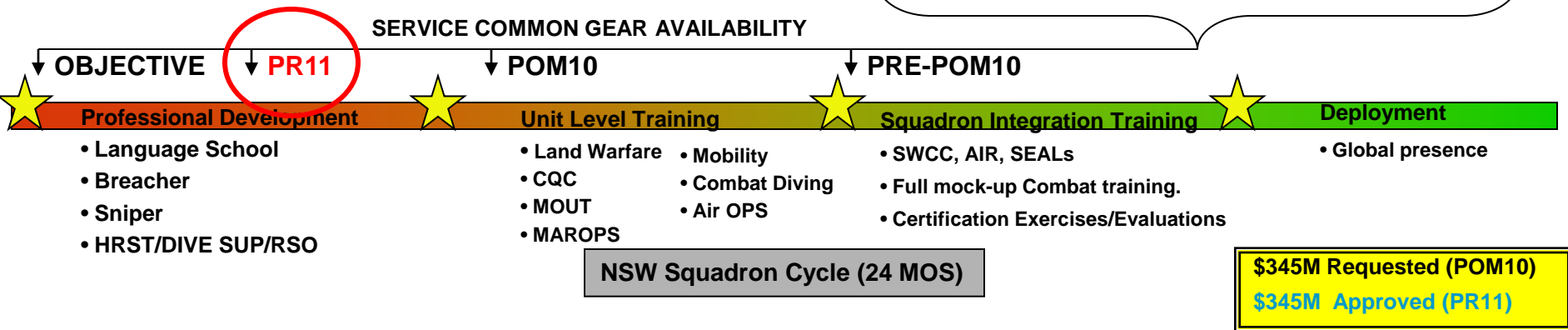


Naval Special Warfare

Navy Service Common Support Rationale



<p>Night Vision Equipment</p>  <p>Current Inv: ~47%</p> <p>Req: 6500 Inv: 2900</p>	<p>Operational Stocks</p>  <p>Current Inv: ~85%</p> <p>Req: 5 Inv: 4.5</p>
<p>Comms/Electronics</p>  <p>Current Inv: ~25%</p> <p>Req: 7200 Inv: 1760</p>	<p>Small Arm/Weapons Mounts</p>  <p>Current Inv: ~50%</p> <p>Req: 8800 Inv: 4500</p>





N85 - Naval Special Warfare Relationship



- **United States Special Operations Command (USSOCOM) has service-like responsibilities to plan, program, budget and execute resources for Special Operations (SO) – peculiar support, services and equipment.**
- **Military Departments have support responsibilities to plan, program, budget and execute resources for service common capabilities for Special Operations Forces (SOF). Principal guidance is provided by:**
 - Title 10, United States Code, Sections 165, 167.
 - DOD Directive 5100.1; Functions of the Department of Defense and Its Major Components.
 - Memorandum of Agreement – Department of the Navy and USSOCOM.
- **N85 is OPNAV's principal advocate and resource sponsor for the Navy component of USSOCOM - Naval Special Warfare (NSW) Command.**
 - Other NSW (resource) sponsors on the OPNAV staff include:
 - N86 – Chem/Bio equipment, Small Tactical Unmanned Aircraft System (STUAS), SOF support attributes on future surface combatants.
 - N88 – Navy helicopter flight hours in support of NSW.
 - N87 – SOF support attributes onboard Navy submarines.
 - N6F – Some service common portable radios and electronics required by NSW (and NECC's Riverine component).
- **During each POM and PR cycle, N85 considers requests submitted by Commander, Naval Special Warfare Command for sustained and/or increased service common resourcing support.**