N851
NAVAL SPECIAL WARFARE BRANCH

Captain Evin Thompson
Branch Head
N851 – Primary Responsibilities

- Resource sponsor for:
  - Naval Special Warfare (NSW) service common requirements. (FY11 ~$22.5M)
  - Navy Riverine Force. (FY11 ~$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 Seize (VBSS).”
  - Common Seaframe for Navy/SOF

- 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.
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, RDTEN)
  - N2N6 - Responsible for resourcing portable radios (OPN)
  - N43 - Responsible for resourcing readiness funding (OMN)
  - N86 - Responsible for resourcing CBRDE (OPN, OMN)
## Riverine Force OIF Activities

<table>
<thead>
<tr>
<th>Activity</th>
<th>Count</th>
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</thead>
<tbody>
<tr>
<td>River/Lake Security Patrols</td>
<td>923</td>
</tr>
<tr>
<td>Quick Response Force missions</td>
<td>100</td>
</tr>
<tr>
<td>Riverine Convoy missions</td>
<td>689</td>
</tr>
<tr>
<td>Shoreline sweeps</td>
<td>354</td>
</tr>
<tr>
<td>Joint operations conducted</td>
<td>240</td>
</tr>
<tr>
<td>Iraq Security Force Patrols</td>
<td>245</td>
</tr>
<tr>
<td>Detainees screened</td>
<td>389</td>
</tr>
<tr>
<td>Boats impounded</td>
<td>76</td>
</tr>
<tr>
<td>Weapons caches found</td>
<td>142</td>
</tr>
<tr>
<td>Combined operations conducted</td>
<td>156</td>
</tr>
<tr>
<td>Unmanned aircraft hours flown</td>
<td>667</td>
</tr>
<tr>
<td>Aircraft control hours</td>
<td>268</td>
</tr>
<tr>
<td>Iraqi River Police trained</td>
<td>217</td>
</tr>
<tr>
<td>Partnership training (Mandays)</td>
<td>3501</td>
</tr>
<tr>
<td>Key Leader engagements</td>
<td>165</td>
</tr>
<tr>
<td>Allocations of micro grants ($K)</td>
<td>111</td>
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</tbody>
</table>
Future Navy - SOCOM Common Combatant Craft Possibilities

**Navy**
- 11M Standard RIB
- Riverine Assault Boat
- Riverine Patrol Boat
- VBSS-capable craft
- Force Protection Coastal

**SOCOM**
- 11M NSW RIB Replacement
- SOCR Replacement
- 11M NSW RIB Replacement
- MK V SOC Replacement

**Current Navy - SOCOM Combatant Craft Commonalities**
- Navy’s Riverine Assault Boat and SOCOM’s SOCR (they are the same craft)
- Small arms, weapons mounts and ammunition
- Tactical communications equipment
- On-board sensors (Electro Optic/InfraRed systems)
- Individual visual augmentation systems
- Chemical-Bio protective/decontamination equipment
- (Tier I) Unmanned Aircraft System (Puma All Environment Capable Vehicle)

**Key:***
- RIB – Rigid Inflatable Boat
- VBSS – Visit, Board, Search & Seizure
- HSAC – High Speed Assault Craft
- SOCR – Special Operations Craft Riverine
- CCM – Combatant Craft Medium
- SOC – Special Operations Craft
What N851 Needs from Industry

• Common Combatant Craft
  – Versatility/Modularity
  – Speed
  – Seakeeping

• Modular Armor
  – People
  – Equipment
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
BACKUPS
Expeditionary Basing

• LAND Basing
  – Expeditionary Camp
  – Force Protection
  – Civil Affairs
  – Medical
  – Expeditionary Logistics

• SEA Basing
  – High Speed Vessel
  – Landing Ship Dock (LSD)
  – Landing Platform Dock (LPD)
  – Littoral Combat Ship (LCS)
  – Utility Craft

Unclassified
Combatant craft on ships is not new!

16 Swedish RCBs landing in the LSD 41 class (USS TORTUGA) well deck
Lessons Learned
(Representative)

• All sailors aren’t prepared for ‘riverine’ duty.

• ‘You don’t know what you don’t know.’

• All small craft have payload limitations.

• Need for a robust (non-organic) intelligence collection/analysis capability.

• Sustained awareness of ‘burn rate’ of major equipment, based on training usage, environmental factors, etc.

• Timing of personnel assignment with training cycle/deployment rotations.

• Sufficient time to incorporate counter-insurgency/foreign internal defense training into pre-deployment cycle.
USN Riverine Craft

Riverine Assault Boat (RAB)

Riverine Patrol Boat (RPB)

Riverine Command Boat (RCB)
Combat Rubber Raiding Craft (CRRC)
Fourth (Composite) Riverine Squadron (Alternative)

Composite RIVRON HQ

Offshore Patrol Division
1 x RCB
2 x FP-C

Support Division
C2, VBSS, Medical, Maintenance, etc

Inshore Patrol Division
4 x LCS compatible Patrol craft

LOA: 15m (Actual)

LOA: 20m-22m (Notional)

LOA: 11m-12m (Notional)
Riverine Vehicles

MK 25 MTVR W/ MAS ARMOR KIT

UPARMOREO HMMWV

CAT I

CAT II

MRAP (Mine Resistant Ambush Protected)
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
NSW Scan Eagle UAS

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

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

Scan Eagle UAS is an interim capability until fielding of STUAS Program of Record ~4Q FY13
## Riverine Assault Boat (RAB) Characteristics

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>Hull Type</td>
<td>High-grade Aluminum Rigid</td>
</tr>
<tr>
<td>Length</td>
<td>33 ft</td>
</tr>
<tr>
<td>Beam</td>
<td>9 ft</td>
</tr>
<tr>
<td>Draft</td>
<td>2 ft</td>
</tr>
<tr>
<td>Crew</td>
<td>7</td>
</tr>
<tr>
<td>Passengers</td>
<td>-</td>
</tr>
<tr>
<td>Twin Diesels w/ Water Jets</td>
<td>Yes</td>
</tr>
<tr>
<td>Top Speed: full load</td>
<td>30 knots - cruise 40 knots - sprint</td>
</tr>
<tr>
<td>Range</td>
<td>250 nm</td>
</tr>
<tr>
<td>Fuel Capacity</td>
<td>250 gallons</td>
</tr>
<tr>
<td>C-130 Transportability</td>
<td>No</td>
</tr>
<tr>
<td>Combat Load</td>
<td>20, 500 lbs.</td>
</tr>
<tr>
<td>Bow Door/Ramp</td>
<td>No</td>
</tr>
<tr>
<td>Weapons Foundations</td>
<td>Multiple</td>
</tr>
</tbody>
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Unclassified
# Riverine Patrol Boat (RPB)

## Characteristics

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

*Unclassified*
## Riverine Command Boat (RCB) Characteristics

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>Hull Type</td>
<td>High-grade Aluminum Rigid</td>
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<tr>
<td>Length</td>
<td>49 ft</td>
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<tr>
<td>Beam</td>
<td>12 ft – 5 in</td>
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<tr>
<td>Draft</td>
<td>3 ft</td>
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<tr>
<td>Crew</td>
<td>4</td>
</tr>
<tr>
<td>Passengers</td>
<td>26</td>
</tr>
<tr>
<td>Twin Diesels w/ Water Jets</td>
<td>Yes</td>
</tr>
<tr>
<td>Top Speed: full load</td>
<td></td>
</tr>
<tr>
<td></td>
<td>40 knots - cruise</td>
</tr>
<tr>
<td></td>
<td>45 knots - sprint</td>
</tr>
<tr>
<td>Range</td>
<td>&gt;320 nm</td>
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<tr>
<td>Fuel Capacity</td>
<td>300 gallons</td>
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<tr>
<td>C-130 Transportability</td>
<td>No</td>
</tr>
<tr>
<td>Combat Load</td>
<td>40, 000 lbs.</td>
</tr>
<tr>
<td>Bow Door/Ramp</td>
<td>Yes</td>
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<tr>
<td>Weapons Foundations</td>
<td>Multiple</td>
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Naval Special Warfare
Navy Service Common Support Rationale

NAVAL SPECIAL WARFARE (NSW) SQUADRON

SEAL TEAM HQS
(4/4)

NSW TASK UNIT
2 PLATOONS
(8/35)

NSW TASK UNIT
2 PLATOONS
(8/35)

NSW TASK UNIT
2 PLATOONS
(11/51)

REPRESENTATIVE ATTACHMENTS

Combat Support 6/44
Combat Services Support 1/17
Combatant Craft Detachment 0/7
Communications Detachment 0/27
UAV Detachment 1/7
Canine Detachment 0/6

30% projected increase in NSW operators for FY10-15

OBJECTIVE

Professional Development
- Language School
- Breacher
- Sniper
- HRST/DIVE SUP/RSO

POM10

Unit Level Training
- Land Warfare
- CQC
- MOUT
- MAROPS

- Mobility
- Combat Diving
- Air OPS

Squadron Integration Training
- SWCC, AIR, SEALs
- Full mock-up Combat training.
- Certification Exercises/Evaluations

Deployment
- Global presence

NSW Squadron Cycle (24 MOS)

SERVICE COMMON GEAR AVAILABILITY

Night Vision Equipment
Current Inv: ~47%
Req: 6500
Inv: 2900

Operational Stocks
Current Inv: ~85%
Req: 5
Inv: 4.5

Current Inv: ~25%
Req: 7200
Inv: 1760

Small Arm/Weapons Mounts
Current Inv: ~50%
Req: 8800
Inv: 4500

Night Vision Equipment
Operational Stocks

$345M Requested (POM10)
$345M Approved (PR11)
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:
  - 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.