





Throughout the Entire Life Cycle Applying Corporate Knowledge



Undersea Warfare Analysis



Acquisition Engineering



Technology

Science &

Production Engineering & Support

Test & Evaluation



Platform Engineering



Fleet Engineering Support



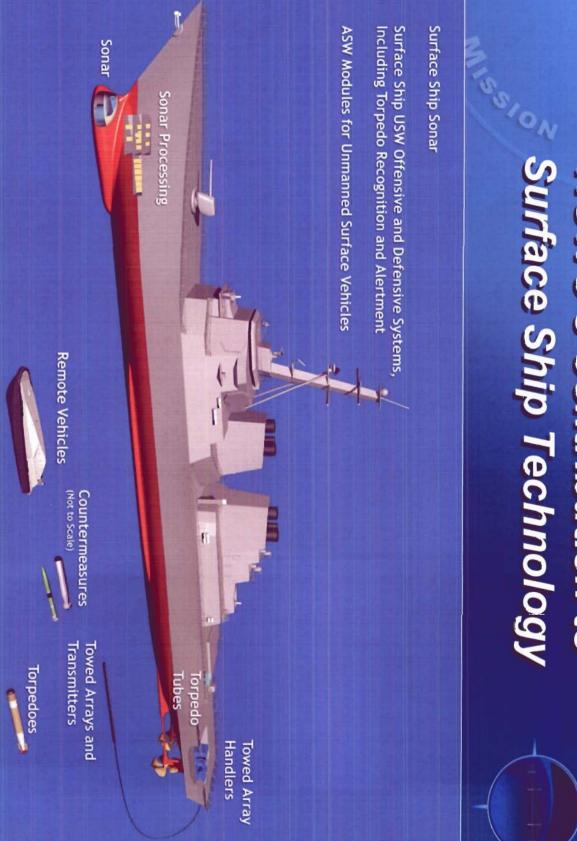
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NUWC's Contribution to Submarine Technology

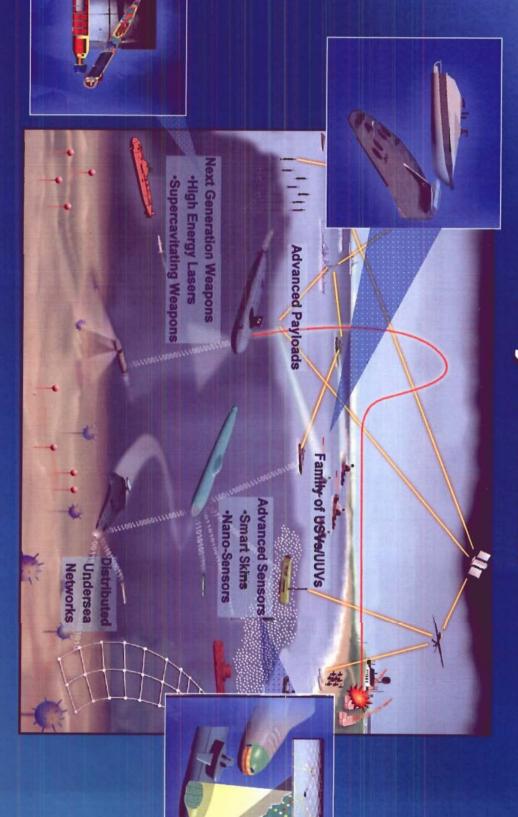


NUWC's Contribution to





NUWC's Contribution to the Navy After Next



SEAPOWER 21 - Transformation for the Navy



Support (2%)

Advanced Degrees

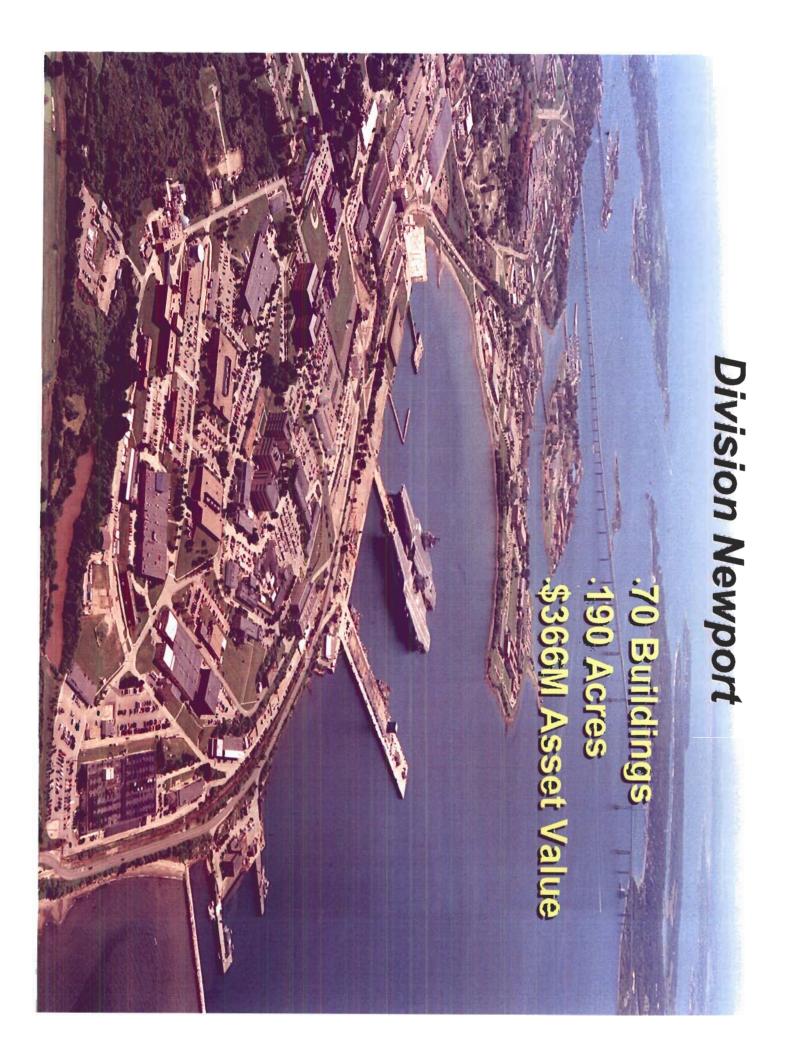
Admin.

Clerical (2.4%)

Our People



Advanced Degrees - 159 PHD's (8%) And 735 Master's (37%) 72% Of Our Workforce are Engineers and Scientists





Unique USW Facilities

- Are highly specialized for USW
- Have full life cycle application
- Reduce cost, risk, and development time
- Make use of state-of-the-art simulations and networking

Weapons



Undersea Warfare Focus

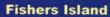


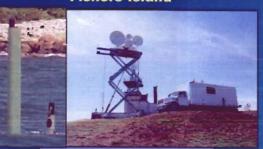
Comms, Imaging & EW Sensors Department Major Facilities

Overwater Arch

EM Sensor Facility



























Roof Top Antennas: • 06-538 • BRA-34 • HOR • GBS • Periscopes • IEM B1319

Antennas & EM Sensors

- ESM Test Bed · WUR-8 W/HPI
- BRD-7
- ES Workstation · COTS ADF



Radio Room

Land Based
 Submarine Radio

Room (LBSAR)

- A Test Lab B1319
- B1319 & Test Lab B68

Combat Control

Sonar



-WSPF · CCS MKI / MK2

· AN/BSYI

Navigation

B1258

B1320

AN/BOQ-5

Unmanned Undersea Vehicles



Advanced Processing & Display Labs







Facility - MX48 - ADCAP - Tomahad · Weapons

Ships, Ranges, and other Land-Based **Facilities**

External Connectivity

• DREN

• SIPRNET

Periscopes



Virtual Virtual

B68

· WAIF · ISDN

• DEP (Future)

ISDN to:

Warfare System

Components

Submarine

B1319

DS-3 (45 Mbsp

Secure Network (Secret System High, OC-3, 155Mbps) ISDN & TI

- •EB
 - Industry: • Canada

÷

Australia

- Raytheon
- Lockheed/Martin
- Sperry Marine
- Northrop Grumman
- Underwater Tracking Ranges
- AUTEC
- SCORE

· AFWTF

· Storm · CM's

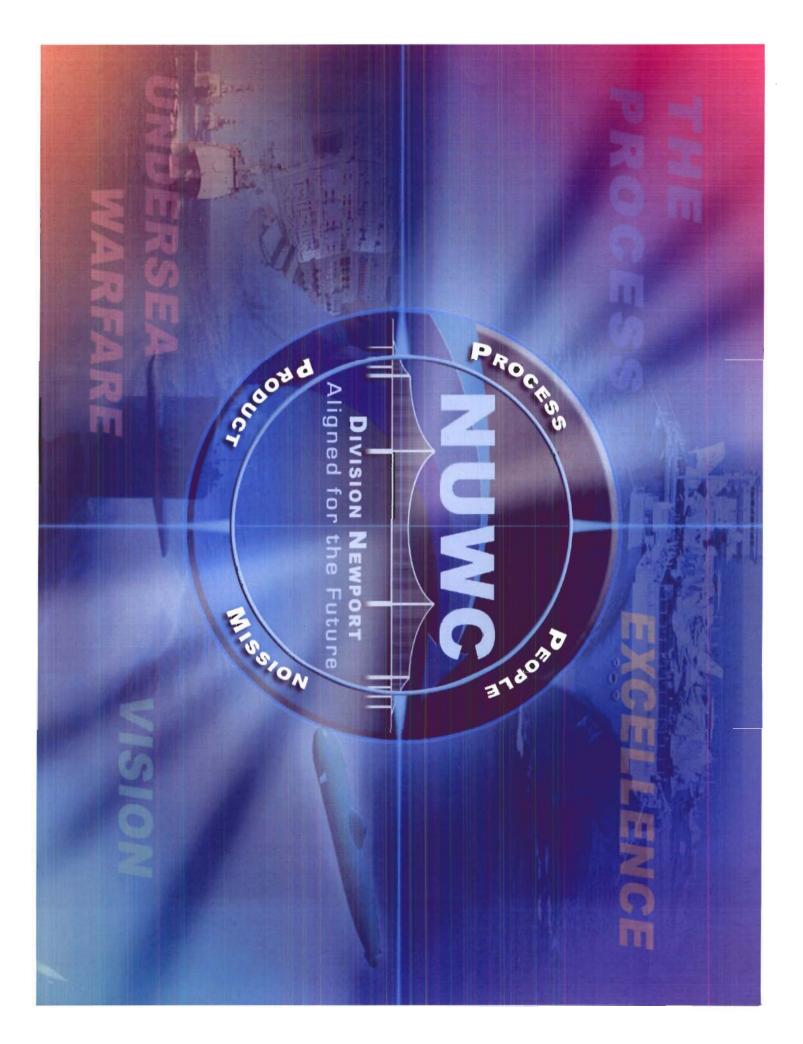
B1346



SUMMARY

NUWC MISSION

and offensive and defensive weapon Operate the Navy's full spectrum autonomous underwater systems, evaluation, engineering, and Fleet research, development, test and support center for submarines, systems associated with USW.



BRAC 2005 DISCUSSION POINTS NUWC DIVISION NEWPORT RI



SOURCE DATA

☐ NUWC DIVISION NEWPORT CERTIFIED DATA RESPONSES TO CAPACITY AND MILITARY VALUE DATA CALLS ☐ NUWC DIVISION NEWPORT CERTIFIED DATA RESPONSES TO DON SCENARIOS TECH 0008F AND TECH 00081 (SUBSEQUENTLY COMBINED BY TECHNICAL JCSG INTO **TECH 0042AR)** ☐ DEFENSELINK BRAC SITE FILES INCLUDING: □ DoD RECOMMENDATION REPORTS ☐ JCSG REPORTS **□ SERVICE REPORTS** □ COBRA DATA ☐ DON AND JCSG MEETING MINUTES, WORKSHEETS,

28 JUNE 2005

CORRESPONDENCE

CONSOLIDATE MARITIME INFORMATION SYSTEMS RESEARCH, DEVELOPMENT & ACQUISITION, TEST & EVALUATION

Systems Command Pacific, Naval Submarine Base Point Loma, San Diego, CA. Diego, CA, and consolidating with the Space Warfare Center to create the new Space Warfare Development & Acquisition, and Test & Evaluation to Naval Submarine Base Point Loma, San VA. and Naval Station Newport, RI. by relocating Maritime Information Systems Research, Realign Naval Base Ventura County, CA, Naval Surface Warfare Center Division, Dahlgren,

Reference: DEPARTMENT OF DEFENSE BASE CLOSURE AND REALIGNMENT REPORT VOLUME I PART 2 MAY 2005

CONSOLIDATE SUBSURFACE MARITIME SENSORS, ELECTRONIC WARFARE AND ELECTRONICS RESEARCH, DEVELOPMENT & **ACQUISITION, TEST & EVALUATION**

Amphibious Base, Little Creek, VA. The remaining Maritime Information Systems Research, Realign Naval Weapons Station Charleston, SC, as follows: relocate Surface Maritime Sensors, Base, Little Creek, VA. Amphibious Base, Little Creek, VA, and consolidate it with billets from Space Warfare Systems Station Newport, RI; and relocate the Command Structure of the Space Warfare Center to Naval VA; relocate Subsurface Maritime Sensors, Electronic Warfare, and Electronics Research, Charleston, SC, are assigned to Space Warfare Systems Command Atlantic, Naval Amphibious Command San Diego to create the Space Warfare Systems Command Atlantic, Naval Development & Acquisition, and Test & Evaluation of the Space Warfare Center to Naval Evaluation of the Space Warfare Center to Naval Surface Warfare Center Division, Dahlgren, Electronic Warfare, and Electronics Research, Development & Acquisition, and Test & Development & Acquisition, and Test & Evaluation functions at Naval Weapons Station

Reference: DEPARTMENT OF DEFENSE BASE CLOSURE AND REALIGNMENT REPORT VOLUME I PART 2 MAY 2005

CONSOLIDATE SUBSURFACE MARITIME SENSORS, ELECTRONIC WARFARE AND ELECTRONICS RESEARCH, DEVELOPMENT & ACQUISITION, TEST & EVALUATION

Realign Naval Air Station Patuxent River, MD, by relocating Subsurface Maritime Sensors, Electronic Warfare, and Electronics Research, Development & Acquisition, and Test & Evaluation of the Naval Air Warfare Center, Aircraft Division to Naval Station Newport, RI.

Realign Naval Submarine Base Point Loma, San Diego, CA, as follows: relocate Surface Maritime Sensors, Electronic Warfare, and Electronics Research, Development & Acquisition, and Test & Evaluation of the Space Warfare Center to Naval Surface Warfare Center Division, Dahlgren, VA; relocate Subsurface Maritime Sensors, Electronic Warfare, and Electronics Research, Development & Acquisition, and Test & Evaluation of the Space Warfare Center to Naval Station Newport, RI; disestablish Space Warfare Systems Center Norfolk, VA, detachment San Diego, CA, and assign functions to the new Space Warfare Systems Command Pacific, Naval Submarine Base Point Loma, San Diego, CA; disestablish Naval Center for

Reference: DEPARTMENT OF DEFENSE BASE CLOSURE AND REALIGNMENT REPORT VOLUME I PARTS MAY 2005

GOVERNMENT CIVILIAN REALIGNMENT

SCENARIO	CIVILIANS OUT	CIVILIANS IN
INFORMATION SYSTEMS TO SPAWAR SYSTEMS CENTER, SAN DIEGO	150	
SUBSURFACE SENSOR TO NUWC DIVISION NEWPORT		169

CONSOLIDATE MARITIME INFORMATION SYSTEMS R,D&A,T&E TO SPAWAR SYSTEMS CENTER, SAN DIEGO

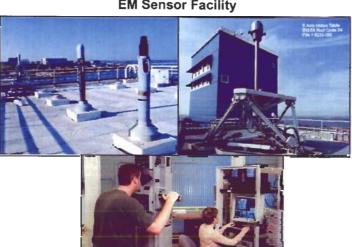
- ☐ JCSG SCENARIO TECH 0042AR
- MAJOR NEWPORT WORK CAPTURED IN SCENARIO
 - □ SUBMARINE RADIO ROOM
 - □ COMMUNICATION ANTENNAS
- □ DIVISION NEWPORT'S SUBMARINE COMMUNICATIONS ANTENNA FACILITIES INTERFACE WITH SUBMARINE COMBAT SYSTEM INFRASTRUCTURE INCLUDING PERISCOPES AND ELECTRONIC WARFARE SENSOR SYSTEMS TO ENABLE REAL-TIME END-TO-END OPERATIONAL WARFARE SYSTEM TEST AND EVALUATION.

COMMS, IMAGING & EW SENSORS MAJOR FACILITIES

Overwater Arch

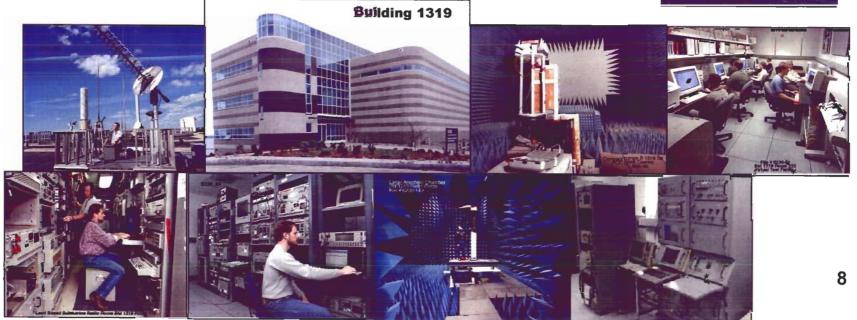








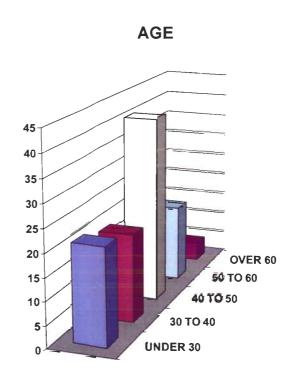




CONSOLIDATE MARITIME INFORMATION SYSTEMS R,D&A,T&E TO SPAWAR SYSTEMS CENTER, SAN DIEGO

PERSONNEL DEMOGRAPHICS

- ☐ COMMUNICATION ANTENNAS
 AND RADIO ROOM EXPERTISE
 TO REALIGN
 - □ 5 PhD
 - ☐ 29 MASTERS
 - ☐ 63 BACHELOR
 - ☐ 13 TECHNICAL
- □ SUBMARINE
 COMMUNICATIONS IS HIGHLY
 ESOTERIC DISCIPLINE
 - □ OVER 2000 YEARS OF EXPERIENCE



CONSOLIDATE SUBSURFACE MARITIME SENSORS, ELECTRONIC WARFARE AND ELECTRONICS R, D&A, T&E TO NUWC DIVISION NEWPORT

- ☐ JCSG SCENARIO TECH 0042AR
- **□** 8 ACTIONS IN ORGINAL SCENARIO DATA CALL:

	ACTIVITY	1	GOVT CIVILIANS	RECOMMENDED IN DoD REPORT?				
1								
2	SPAWAR SAN	DIEGO	118	YES				
3	NAS PAX RI	VER	32	YES				
4	NWS CHARLEST	OWN, SC	19	YES				
5								
6								
7								
8								



RATE SHEET

Included in rental fee:

Audio/Visual Equipment

- Computers for presentations such as Power Point & Excel (Windows XP)
- ♦ Document camera
- ♦ Electronic print board
- Flip chart easel with markers
- ♦ Internet access via dial-up modem
- ♦ LCD projectors, with large 12' x 12' image
- ♦ Lecterns with touch-screen panel
- ♦ Microphones, gooseneck & wireless
- Panel discussion table-top microphones
- ♦ Transparency overhead projectors
- ♦ Video cassette recorder
- Wireless mouse and laser pointer for walk-around ease during presentation
- ♦ Video-taping capabilities with portable camera/TV

Video-Teleconferencing

- ♦ Tandberg Vision 5000, Codec type
- ♦ H.320 Standard ISDN, T1-112K
- ♦ 6 channels, 384 speed

Administrative Resource Office

- ♦ Fax, Copier, Shredder
- Admin desk/work station with telephone, computer & laser printer
- Computer room with 4 computer stations, each with modem & printer capabilities
- ♦ Internet access via dial-up modem

Small Break-Out Rooms

Available for a nominal fee, with conference room rental

Lounge Area

Cable Television, couches & chairs, local visitor information

Complimentary Coffee, etc.

- ♦ Coffee, decaf, tea, expresso & spring water
- Provided from no-cost vending machines

<u>CONTACT</u> : Dave Mower, Manager		DAILY RATE*	Prorated based on multiple days								
Tel. (401) 841-3420 Fax. (401) 841-2612		8:00 am - 4:00 pm	2 days		3	days	4 days		5 days		
(\$ 594.00			save 15%		save 20%		save 25%		
GRAND ISLANDER: Rooms A, B	150 ppl		\$	535.00	\$	505.00	\$	475.00	\$	445.00	
Room A only	80 ppi	\$ 352.00	\$	317.00	\$	299.00	\$	282.00	\$	264.00	
Room B only	48 ppi	\$ 242.00	\$	218.00	\$	208.00	\$	194.00	\$	181.00	
Room C only	14 ppl	\$ 88.00	\$	79.00	\$	75.00	\$	70.00	\$	66.00	
The BOARDROOM: Suites A, B	40 ppi	\$ 198.00	\$	178.00	\$	168.00	\$	158.00	\$	148.00	
Suite A only	20 ppi	\$ 110.00	\$	99.00	\$	93.00	\$	88.00	\$	82.00	
Suite B only	12 ppi	\$ 88.00	\$	79.00	\$	75.00	\$	70.00	\$	66.00	

^{*} Daily rate is for an 8-hour conference from 8am to 4pm, plus a half hour each for set-up & breakdown. Each additional hour or portion thereof is \$40. An additional charge of \$100 per day for the Grand Islander and \$50 per day for the Boardroom applies on holidays & weekends. Prices subject to change without notice.

Catering

- Can be arranged via the Commissioned Officers' Club. (401) 846-2515.
- ♦ You may opt to use any outside caterer, with management approval. Catering recommendations available upon request.

Hotel Accommodations

• For on-base accommodations, contact the Combined Bachelors Quarters Reservations Office at (401) 841-7900.

Naval Station Newport ~ Harbor Island Conference Center ~ 684 Perry Road ~ Newport, RI 02841-1107 (Effective 04/01/04)

Source: Conference Center

From:

Mower, David B CIV 54, Conf Center Tuesday, November 09, 2004 11:26 AM

Sent: To:

Coston, Rachel O CIV N73, CBH

Subject:

RE: CONFERENCE CENTER OCCUPANCY

Rachel.

The occupancy figure for 2004 is 41.2%

V/R Dave

----Original Message-----

From: Sent: Coston, Rachel O CIV N73, CBH Monday, November 08, 2004 8:41

To: Subject: Mower, David B CIV 54, Conf Center RE: CONFERENCE CENTER OCCUPANCY

Thanks Dave

Rachel

-----Original Message-----

From: Mower, David B CIV 54, Conf Center
Sent: Friday, November 05, 2004 15:42
To: Coston, Rachel O CIV N73, CBH

Subject: CONFERENCE CENTER OCCUPANCY

Rachel,

The conference center occupancy figures from FY 1999 - 2003 are as follows:

1999 29 %

2000 31.1 %

2001 25.7 %

2002 36.1 %

2003 39.5 %

I'll have the 2004 figure for you on Tuesday.

V/R

Dave

#3



Submarine Communications Tour Itinerary for

Mr. David Epstein, BRAC staff

Tuesday, June 28, 2005

Naval Undersea Warfare Center Division, Newport

0800	B1319/321 Opening Discussion	(Racette, Molino)
	B1319 Anechoic Chamber	(Swiatowski)
0835	B1319 LBSRR & Land-based Sub- tadio room B1259 Combat Systems	(Sullivan)
		(Sullivan, McLaughlin)
0920	B1258 SSGN/SSBN CSRR € Common Rock Rock Rock	(Sullivan, Warner)
0935	B1258 SSBN Combat System	(Sullivan, Pereira) .
0950	B112 Receiving Facility (DRIVE BY)	(Racette)
1000	B116 MANTA Demo (DRIVE BY)	(Racette)
1010	B1318 Arch (DRIVE BY)	(McMillian/Stefanowicz)
1015	Pier Iridium Cable (DRIVE BY)	(McMillian/Stefanowicz)
1025	B68 SESIF, ESM, Periscopes LEICCTRONIC Support Shb EHF, System Integration FACILity	(Sullivan, McMillian, Britton, Miller) Measures

NUWC BRAC Billet/Personnel/Savings Summary

	5 7 7	NEWLONDON		to VA		/	INFACE	1. 8. 1/1/	North to MA		to MA	SANDIES	NPTO-	Con	to Walley	/VEW/	<i>\</i> /	
\	>	V	1	1	~ 2		15	_	É.		1		_	1	Son ()		
Notes		<	₹	=	=	F	=	=	=	=	<i>!</i>	=	=	V =	=	BRAC		
		NUWCDETORL/NPT	NUWCDETNLON/NPT	NUWCDETNOR/NPT	NOC/NPT	ASMADIE	NETRINGGOSG	NERBINISIVIO	TRICCMANPT	Seabat/NPT	NCCOSC-NRad/NPT	NSWC CRANE/NPT	CSS/NPT	New London/NPT	Newport	Losing/Gaining		
		100	595	651	12	55	3	(18g)	191		188	72	140	895	•	Baseline		Ł
	362/12	45/0	56/0	95/2	0	\$15/mi	0	**************************************	20/2	30/1	0	0	0	110/7	6/0	FTE/MIL	Savings	
	2,415 (5)	55	539	433 (4)	12 (2)	135 (G)	((3))	((781))	191 (3)	•	188	72	140	785 (1)	•	Transferred	Billets	
		96/97	96-97	94-97	94	ર્જી.	%	92	92		92-94	92-94	92-94	92-96	92-96	FY		
	1,237 (5	22	390	76	12	(4)	((31))	(684)	182	•	13	0	ъ	540	•	Transferred	Personnel	
	1,178 (5	33	149	357	0	X 8	ē	0	9 (6	0	175	72	138	245	•	Transfer	Empty Billet	
		22/100 = 22/0	570/545 = 6616	1	Cartefore						San Viery - Ne							

22/0

TO NAT NAT

(1) After savings
(2) Transfer in place
(3) Savings taken after billet transfer
(4) After BRAC II mission purification
(5) Excludes billets transferred out of Newport or to Keyport (shaded area)
(6) Eleven extra billets with personnel transferred prior to achieving all savings
* Counted in BRAC III

Counted in BRAC III