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**DATA CALL 66
INSTALLATION RESOURCES**

Activity Information:

Activity Name:	Naval Submarine Medical Research Lab, Groton, CT
UIC:	N66596
Host Activity Name (if response is for a tenant activity):	Naval Submarine Base, New London Groton, CT
Host Activity UIC:	N00129

General Instructions/Background. A separate response to this data call must be completed for each Department of the Navy (DON) host, independent and tenant activity which separately budgets BOS costs (regardless of appropriation), and, is located in the United States, its territories or possessions.

1. Base Operating Support (BOS) Cost Data. Data is required which captures the total annual cost of operating and maintaining Department of the Navy (DON) shore installations. Information must reflect FY 1996 budget data supporting the FY 1996 NAVCOMPT Budget Submit. Two tables are provided. Table 1A identifies "Other than DBOF Overhead" BOS costs and Table 1B identifies "DBOF Overhead" BOS costs. These tables must be completed, as appropriate, for all DON host, independent or tenant activities which separately budget BOS costs (regardless of appropriation), and, are located in the United States, its territories or possessions. Responses for DBOF activities may need to include both Table 1A and 1B to ensure that all BOS costs, including those incurred by the activity in support of tenants, are identified. If both table 1A and 1B are submitted for a single DON activity, please ensure that no data is double counted (that is, included on both Table 1A and 1B). The following tables are designed to collect all BOS costs currently budgeted, regardless of appropriation, e.g., Operations and Maintenance, Research and Development, Military Personnel, etc. Data must reflect FY 1996 and should be reported in thousands of dollars.

a. Table 1A - Base Operating Support Costs (Other Than DBOF Overhead).

This Table should be completed to identify "Other Than DBOF Overhead" Costs. Display, in the format shown on the table, the O&M, R&D and MPN resources currently budgeted for BOS services. O&M cost data must be consistent with data provided on the BS-1 exhibit. Report only direct funding for the activity. Host activities should not include reimbursable support provided to tenants, since tenants will be separately reporting these costs. Military personnel costs should be included on the appropriate lines of the table. Please ensure that individual lines of the table do not include duplicate costs. Add additional

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lines to the table (following line 2j., as necessary, to identify any additional cost elements not currently shown). Leave shaded areas of table blank.

Table 1A - Base Operating Support Costs (Other Than DBOF Overhead)			
Activity Name: NAVSUBMEDRSRCHLAB, GROTON, CT		UIC: N66596	
Category	FY 1996 BOS Costs (\$000)		
	Non-Labor	Labor	Total
1. Real Property Maintenance Costs:			
1a. Maintenance and Repair	18.5		18.5
1b. Minor Construction	5.0		5.0
1c. Sub-total 1a. and 1b.	23.5		23.5
2. Other Base Operating Support Costs:			
2a. Utilities	125.6		125.6
2b. Transportation	8.3		8.3
2c. Environmental	0		0
2d. Facility Leases	0		0
2e. Morale, Welfare & Recreation	0		0
2f. Bachelor Quarters	0		0
2g. Child Care Centers	0		0
2h. Family Service Centers	0		0
2i. Administration	0		0
2j. Other (Specify)	0		0
2k. Sub-total 2a. through 2j:	133.9		133.9
3. Grand Total (sum of 1c. and 2k.):	157.4		157.4

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b. Funding Source. If data shown on Table 1A reflects more than one appropriation, then please provide a break out of the total shown for the "3. Grand-Total" line, by appropriation:

<u>Appropriation</u>	<u>Amount (\$000)</u>
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N/A	BOMED MED 825 612 814194
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c. Table 1B - Base Operating Support Costs (DBOF Overhead). This Table should be submitted for all current DBOF activities. Costs reported should reflect BOS costs supporting the DBOF activity itself (usually included in the G&A cost of the activity). For DBOF activities which are tenants on another installation, total cost of BOS incurred by the tenant activity for itself should be shown on this table. It is recognized that differences exist among DBOF activity groups regarding the costing of base operating support: some groups reflect all such costs only in general and administrative (G&A), while others spread them between G&A and production overhead. Regardless of the costing process, all such costs should be included on Table 1B. The Minor Construction portion of the FY 1996 capital budget should be included on the appropriate line. Military personnel costs (at civilian equivalency rates) should also be included on the appropriate lines of the table. Please ensure that individual lines of the table do not include duplicate costs. Also ensure that there is no duplication between data provided on Table 1A. and 1B. These two tables must be mutually exclusive, since in those cases where both tables are submitted for an activity, the two tables will be added together to estimate total BOS costs at the activity. Add additional lines to the table (following line 21., as necessary, to identify any additional cost elements not currently shown). **Leave shaded areas of table blank.**

Other Notes: All costs of operating the five Major Range Test Facility Bases at DBOF activities (even if direct RDT&E funded) should be included on Table 1B. Weapon Stations should include underutilized plant capacity costs as a DBOF overhead "BOS expense" on Table 1B..

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Table 1B - Base Operating Support Costs (DBOF Overhead)			
Activity Name: NAVSUBMEDRESRCHLAB GROTON, CT		UIC: N66596	
Category	FY 1996 Net Cost From UC/FUND-4 (\$000)		
	Non-Labor	Labor	Total
1. Real Property Maintenance Costs:			
1a. Real Property Maintenance (> \$15K)	N/A	N/A	N/A
1b. Real Property Maintenance (< \$15K)	N/A	N/A	N/A
1c. Minor Construction (Expensed)	N/A	N/A	N/A
1d. Minor Construction (Capital Budget)	N/A	N/A	N/A
1c. Sub-total 1a. through 1d.	N/A	N/A	N/A
2. Other Base Operating Support Costs:			
2a. Command Office	N/A	N/A	N/A
2b. ADP Support	N/A	N/A	N/A
2c. Equipment Maintenance	N/A	N/A	N/A
2d. Civilian Personnel Services	N/A	N/A	N/A
2e. Accounting/Finance	N/A	N/A	N/A
2f. Utilities	N/A	N/A	N/A
2g. Environmental Compliance	N/A	N/A	N/A
2h. Police and Fire	N/A	N/A	N/A
2i. Safety	N/A	N/A	N/A
2j. Supply and Storage Operations	N/A	N/A	N/A
2k. Major Range Test Facility Base Costs	N/A	N/A	N/A
2l. Other (Specify)	N/A	N/A	N/A
2m. Sub-total 2a. through 2l:	N/A	N/A	N/A
3. Depreciation	N/A	N/A	N/A
4. Grand Total (sum of 1c., 2m., and 3.) :	N/A	N/A	N/A

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2. Services/Supplies Cost Data. The purpose of Table 2 is to provide information about projected FY 1996 costs for the purchase of services and supplies by the activity. (Note: Unlike Question 1 and Tables 1A and 1B, above, this question is not limited to overhead costs.) The source for this information, where possible, should be either the NAVCOMPT OP-32 Budget Exhibit for O&M activities or the NAVCOMPT UC/FUND-1/IF-4 exhibit for DBOF activities. Information must reflect FY 1996 budget data supporting the FY 1996 NAVCOMPT Budget Submit. Break out cost data by the major sub-headings identified on the OP-32 or UC/FUND-1/IF-4 exhibit, disregarding the sub-headings on the exhibit which apply to civilian and military salary costs and depreciation. Please note that while the OP-32 exhibit aggregates information by budget activity, this data call requests OP-32 data for the activity responding to the data call. Refer to NAVCOMPTINST 7102.2B of 23 April 1990, Subj: Guidance for the Preparation, Submission and Review of the Department of the Navy (DON) Budget Estimates (DON Budget Guidance Manual) with Changes 1 and 2 for more information on categories of costs identified. Any rows that do not apply to your activity may be left blank. However, totals reported should reflect all costs, exclusive of salary and depreciation.

Table 2 - Services/Supplies Cost Data	
Activity Name: NAVSUBMEDRSRCHLAB, GROTON,CT	UIC: N66596
Cost Category	FY 1996 Projected Costs (\$000)
Travel:	400
Material and Supplies (including equipment):	828
Industrial Fund Purchases (other DBOF purchases):	16
Transportation:	8
Other Purchases (Contract support, etc.):	4961
Total:	6213

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3. Contractor Workyears.

a. **On-Base Contract Workyear Table.** Provide a projected estimate of the number of contract workyears expected to be performed "on base" in support of the installation during FY 1996. Information should represent an annual estimate on a full-time equivalency basis. Several categories of contract support have been identified in the table below. While some of the categories are self-explanatory, please note that the category "mission support" entails management support, labor service and other mission support contracting efforts, e.g., aircraft maintenance, RDT&E support, technical services in support of aircraft and ships, etc.

Table 3 - Contract Workyears	
Activity Name: NAVSUBMEDRSRCHLAB, GROTON, CT	UIC: N66596
Contract Type	FY 1996 Estimated Number of Workyears On-Base
Construction:	N/A
Facilities Support:	2
Mission Support:	14
Procurement:	N/A
Other:*	N/A
Total Workyears:	16

* **Note:** Provide a brief narrative description of the type(s) of contracts, if any, included under the "Other" category.

* **Table 2:** The \$5.8M in "other support (contracts, etc)" is specifically devoted to executing R&D, and not to base operating support.

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b. Potential Disposition of On-Base Contract Workyears. If the mission/functions of your activity were relocated to another site, what would be the anticipated disposition of the on-base contract workyears identified in Table 3.?

1) Estimated number of contract workyears which would be transferred to the receiving site (This number should reflect the number of jobs which would in the future be contracted for at the receiving site, not an estimate of the number of people who would move or an indication that work would necessarily be done by the same contractor(s)):

14

2) Estimated number of workyears which would be eliminated:

2

3) Estimated number of contract workyears which would remain in place (i.e., contract would remain in place in current location even if activity were relocated outside of the local area):

0

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c. "Off-Base" Contract Workyear Data. Are there any contract workyears located in the local community, but not on-base, which would either be eliminated or relocated if your activity were to be closed or relocated? If so, then provide the following information (ensure that numbers reported below do not double count numbers included in 3.a. and 3.b., above):

No. of Additional Contract Workyears Which Would Be Eliminated	General Type of Work Performed on Contract (e.g., engineering support, technical services, etc.)
N/A	N/A

No. of Additional Contract Workyears Which Would Be Relocated	General Type of Work Performed on Contract (e.g., engineering support, technical services, etc.)
N/A	N/A

BRAC-95 CERTIFICATION

FOR DATA CALL #66

Reference: SECNAVNOTE 11000 of 08 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to this package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

CAPT P.K. WEATHERSBY, MSC, USN
NAME (Please type or print)


Signature

COMMANDING OFFICER
Title

1 Aug 1994
Date

NAVAL SUBMARINE MEDICAL RESEARCH LABORATORY, GROTON, CT.
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

HAROLD M. KOENIG, RADM, MC, USN

NAME (Please type or print)



Signature

ACTING CHIEF BUMED

Title

AUG 4 1994

Date

Title

Date

BUREAU OF MEDICINE & SURGERY

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

W. A. EARNER

NAME (Please type or print)



Signature

Title

8/30/94

Date

Document Separator

2. PLANT ACCOUNT HOLDER:

- Yes _____ No X (check one)

3. ACTIVITY TYPE: Choose most appropriate type that describes your activity and completely answer all questions.

• **HOST COMMAND:** A host command is an activity that provides facilities for its own functions and the functions of other (tenant) activities. A host has accountability for Class 1 (land), and/or Class 2 (buildings, structures, and utilities) property, regardless of occupancy. It can also be a tenant at other host activities.

- Yes _____ No X (check one)

• **TENANT COMMAND:** A tenant command is an activity or unit that occupies facilities for which another activity (i.e., the host) has accountability. A tenant may have several hosts, although one is usually designated its primary host. If answer is "Yes," provide best known information for your primary host only.

- Yes X No _____ (check one)
- Primary Host (current) UIC: N00129
- Primary Host (as of 01 Oct 1995) UIC: N00129
- Primary Host (as of 01 Oct 2001) UIC: N00129

• **INDEPENDENT ACTIVITY:** For the purposes of this Data Call, this is the "catch-all" designator, and is defined as any activity not previously identified as a host or a tenant. The activity may occupy owned or leased space. Government Owned/Contractor Operated facilities should be included in this designation if not covered elsewhere.

- Yes _____ No X (check one)

UIC: N66596

4. SPECIAL AREAS: List all Special Areas. Special Areas are defined as Class 1/Class 2 property for which your command has responsibility that is not located on or contiguous to main complex.

Name	Location	UIC
NONE		

5. DETACHMENTS: If your activity has detachments at other locations, please list them in the table below.

Name	UIC	Location	Host name	Host UIC
NONE				

6. BRAC IMPACT: Were you affected by previous Base Closure and Realignment decisions (BRAC-88, -91, and/or -93)? If so, please provide a brief narrative.

NOT PREVIOUSLY AFFECTED BY BRAC

7. MISSION: Do not simply report the standard mission statement. Instead, describe important functions in a bulletized format. Include anticipated mission changes and brief narrative explanation of change; also indicate if any current/projected mission changes are a result of previous BRAC-88, -91,-93 action(s).

Current Mission: Provide timely, high quality R&D to the Submarine force to enhance auditory and visual sonar operator performance, submariner health and physical standards, closed environment atmospheric monitoring, submarine escape and rescue, and hearing conservation both in air and under the sea. NSMRL's specific research efforts include:

Current Missions

- ▶ Sonar Display Enhancements, including development of headsets, analog and digital signal processing techniques, to maximize the intelligent, efficient use of man's visual and auditory systems.
- ▶ Submarine Escape and Rescue, developing decision guidelines for survivors based upon physiological, engineering and operational factors, and providing guidance to operational commanders in establishing procedures and equipment for escape and rescue.
- ▶ Submarine Clinical Issues, reducing the loss of talented personnel by instituting data-based decisions on Submarine Disquals/Waivers for conditions of kidney Stones and asthma.
- ▶ Hearing Conservation, developing guidelines for diver safe exposure limits to underwater noise from tools and sonars; exploring the use of evoked otoacoustic emissions to detect the early stages of hearing loss
- ▶ Tactical Displays, providing ways to enhance operator performance by applying our knowledge of the human sensory systems, specifically using color, symbology, highlighting cues, orientation, and default presentations.
- ▶ Psychiatric Screening of all enlisted and officer submarine candidates undergoing training at Basic Enlisted Submarine School and Submarine officers Basic Course.
- ▶ Submarine Atmospheres, develop, maintain data base of submarine atmosphere constituents from varied data sources, answer such health questions as arise from data, and recommend better submarine atmospheric monitoring and control

Projected Missions for FY 2001

- All present missions plus
- Human Design Engineering for tactical displays for the newest class of submarines

8. **UNIQUE MISSIONS:** Describe any missions which are unique or relatively unique to the activity. Include information on projected changes. Indicate if your command has any National Command Authority or classified mission responsibilities.

Current Unique Missions

Current Unique Missions:

- Diver hearing conservation
- Human end of sonar signal processing development
- Submarine Escape and Rescue
- Submariners' Clinical Health
- Monitoring of Submarine Atmospheres and effects on health and performance of submariners.

Projected Unique Missions for FY 2001

- All of present unique missions

UIC: N66596

9. IMMEDIATE SUPERIOR IN COMMAND (ISIC): Identify your ISIC. If your ISIC is not your funding source, please identify that source in addition to the operational ISIC.

- Operational name UIC
Naval Medical Research and Development
Command, Bethesda, MD N0075

- Funding Source UIC
CNO N-87 N00011

10. PERSONNEL NUMBERS: Host activities are responsible for totalling the personnel numbers for all of their tenant commands, even if the tenant command has been asked to separately report the data. The tenant totals here should match the total tally for the tenant listing provided subsequently in this Data Call (see Tenant Activity list). (Civilian count shall include Appropriated Fund personnel only.)

On Board Count as of 01 January 1994

	Officers	Enlisted	Civilian
(Appropriated)			
● Reporting Command	<u>10</u>	<u>16</u>	<u>34</u>
● Tenants (total) N/A	<u> </u>	<u> </u>	<u> </u>

Authorized Positions as of 30 September 1994

	Officers	Enlisted	Civilian
(Appropriated)			
● Reporting Command	<u>13</u>	<u>15</u>	<u>49</u>
● Tenants (total) N/A	<u> </u>	<u> </u>	<u> </u>

UIC: N66596

11. **KEY POINTS OF CONTACT (POC):** Provide the work, FAX, and home telephone numbers for the Commanding Officer or OIC, and the Duty Officer. Include area code(s). You may provide other key POCs if so desired in addition to those above.

<u>Title/Name</u>	<u>Office</u>	<u>Fax</u>	<u>Home</u>
Commanding Officer P.K. Weathersby CAPT, MSC, USN	449-3263	449-4809	464-0304
Executive Officer M.D. CURLEY CDR, MSC, USN	449-3265	449-4809	464-8715
Director for Admin S.F. Blacke CDR, MSC, USN	449-2501	449-4809	464-9763
Fiscal Officer S.P. Murphy LT, MSC, USN	449-3267	449-4809	535-3643
Command Duty Officer	449-3822	449-4809	

12. **TENANT ACTIVITY LIST:** This list must be all-inclusive. Tenant activities are to ensure that their host is aware of their existence and any "subleasing" of space. This list should include the name and UIC(s) of all organizations, shore commands and homeported units, active or reserve, DOD or non-DOD (include commercial entities). The tenant listing should be reported in the format provide below, listed in numerical order by UIC, separated into the categories listed below. Host activities are responsible for including authorized personnel numbers, on board as of **30 September 1994**, for all tenants, even if those tenants have also been asked to provide this information on a separate Data Call. (Civilian count shall include Appropriated Fund personnel only.)

- Tenants residing on main complex (shore commands)

Tenant Command Name	UIC	Officer	Enlisted	Civilian
NOT APPLICABLE				

- Tenants residing on main complex (homeported units.)

Tenant Command Name	UIC	Officer	Enlisted	Civilian
NOT APPLICABLE				

- Tenants residing in Special Areas (Special Areas are defined as real estate owned by host command not contiguous with main complex; e.g. outlying fields).

Tenant Command Name	UIC	Location	Officer	Enlisted	Civilian
NOT APPLICABLE					

- Tenants (Other than those identified previously)

Tenant Command Name	UIC	Location	Officer	Enlisted	Civilian
NOT APPLICABLE					

13. REGIONAL SUPPORT: Identify your relationship with other activities, not reported as a host/tenant, for which you provide support. Again, this list should be all-inclusive. The intent of this question is capture the full breadth of the mission of your command and your customer/supplier relationships. Include in your answer any Government Owned/Contractor Operated facilities for which you provide administrative oversight and control.

Activity name	Location	Support function (include mechanism such as ISSA, MOU, etc.)
<i>U.S. COAST GUARD ACADEMY</i>	<i>NEW LONDON, CT</i>	<i>RANGE LIGHTING RESEARCH - MIPR</i>
<i>SUBMARINE SCHOOL</i>	<i>GROTON, CT</i>	<i>SUBMARINE PSYCHOLOGICAL SCREENING</i>
<i>NAVAL UNDERSEA MEDICINE INSTITUTE</i>	<i>GROTON, CT</i>	<i>UNDERSEA MEDICAL OFFICER THESIS SCIENTIFIC AND LIBRARY SUPPORT</i>
<i>NAVAL HOSPITAL</i>	<i>GROTON, CT</i>	<i>LIBRARY SUPPORT</i>
<i>COMSUBDEVRON TWELVE</i>	<i>GROTON, CT</i>	<i>TECHNICAL EVALUATIONS OF TACTICAL DISPLAYS, SONAR HEADSET EVALUATION</i>
<i>SUBBRONTWO</i>	<i>GROTON, CT</i>	<i>TECHNICAL EVALUATIONS OF TACTICAL DISPLAYS, SONAR HEADSET EVALUATION</i>
<i>NAVAL UNDERWATER WAFARE CENTER</i>	<i>NEW LONDON, CT</i>	<i>SONAR HUMAN/SYSTEM INTERFACE, NOISE LEVELS FOR BSY-2 SONAR OPERATORS</i>

14. FACILITY MAPS: This is a primary responsibility of the plant account holders/host commands. Tenant activities are not required to comply with submission if it is known that your host activity has complied with the request.

Maps and photos should not be dated earlier than 01 January 1991, unless annotated that no changes have taken place. Any recent changes should be annotated on the appropriate map or photo. Date and label all copies.

- **Local Area Map.** This map should encompass, at a minimum, a 50 mile radius of your activity. Indicate the name and location of all DoD activities within this area, whether or not you support that activity. Map should also provide the geographical relationship to the major civilian communities within this radius. (Provide 12 copies.)
- **Installation Map / Activity Map / Base Map / General Development Map / Site Map.** Provide the most current map of your activity, clearly showing all the land under ownership/control of your activity, whether owned or leased. Include all outlying areas, special areas, and housing. Indicate date of last update. Map should show all structures (numbered with a legend, if available) and all significant restrictive use areas/zones that encumber further development such as HERO, HERP, HERF, ESQD arcs, agricultural/forestry programs, environmental restrictions (e.g., endangered species). (Provide in two sizes: 36"x 42" (2 copies, if available); and 11"x 17" (12 copies).)
- **Aerial photo(s).** Aerial shots should show all base use areas (both land and water) as well as any local encroachment sites/issues. You should ensure that these photos provide a good look at the areas identified on your Base Map as areas of concern/interest - remember, a picture tells a thousand words. Again, date and label all copies. (Provide 12 copies of each, 8½"x 11".)
- **Air Installations Compatible Use Zones (AICUZ) Map.** (Provide 12 copies.)

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to this package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

P. K. WEATHERSBY, CAPT, MSC, USN
NAME (Please type or print)

A. F. Black for
Signature

COMMANDING OFFICER
Title

21 Jun 1994
Date

NAVAL SUBMARINE MEDICAL RESEARCH LABORATORY, GROTON, CT
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

D. F. HAGEN, VADM, MC, USN

D. F. Hagen

Signature

NAME (Please type or print)

Date
6-30-94

CHIEF BUMED/SURGEON GENERAL

Title

Date

BUREAU OF MEDICINE & SURGERY

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)
J. B. GREENE, JR.

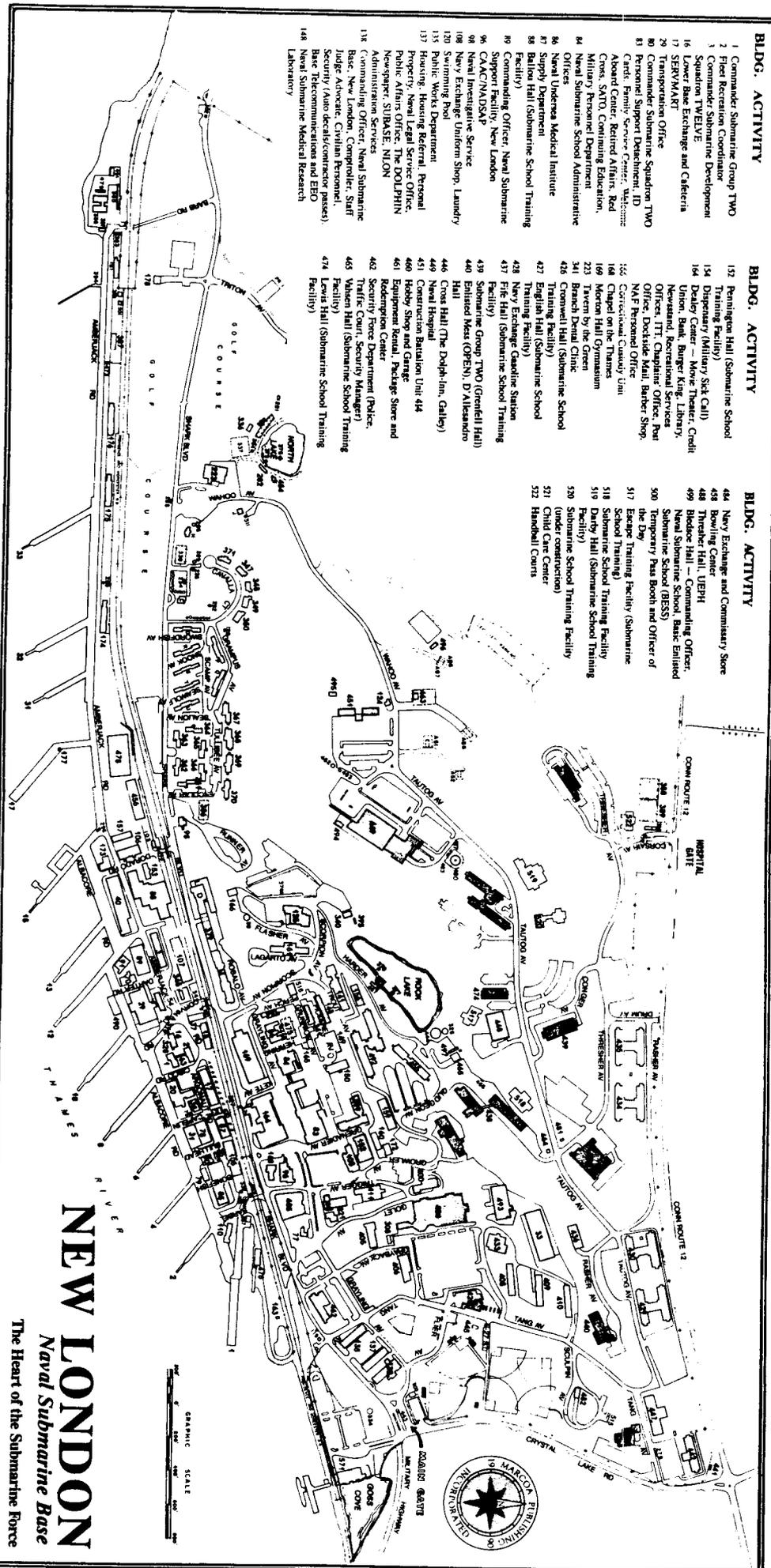
NAME (Please type or print)
ACTING

J. B. Greene, Jr.

Signature

Title

Date
06 JUL 1994



BLDG. ACTIVITY

- 1 Commander Submarine Group TWO
- 2 Fleet Recreation Coordinator
- 3 Commander Submarine Development
- 4 Squadron 14 ELVIS
- 16 SERVICEMEX Exchange and Cafeteria
- 29 Transportation Office
- 80 Commander Submarine Squadron TWO
- 81 Personal Support Department (D)
- 82 Board Center, Behind Officers' Red Cross, SATO, Continuing Education, Military Personnel Department
- 84 Naval Submarine School Administrative Offices
- 86 Naval Undersea Medical Institute
- 87 Supply Department
- 88 Ballroom (Submarine School Training Facility)
- 89 Commanding Officer, Naval Submarine Support Facility, New London
- 96 CAC/NAVDASAP
- 108 Naval Investigative Service
- 109 Navy Exchange Uniform Shop, Laundry
- 120 Swimming Pool
- 121 Public Works Department
- 122 Printing, Newsing Section, Personal Property, Naval Regal Service Office, Public Affairs Office, Services Office, Newspaper, SIBASE, NILON
- 126 Administration Services
- 128 Commanding Officer, Naval Submarine Base, New London, Comptroller, Staff Security (Also decorations and ERO Base Telecommunications and ERO Naval Submarine Medical Research Laboratory

BLDG. ACTIVITY

- 123 Pennington Hall (Submarine School Training Facility)
- 154 Dispensary (Military Sick Call)
- 164 Dealey Center - Movie Theater, Credit Union, Bank, Burger King, Library, Newsstand, Recreational Services Office, ITT, Chaplain's Office, Post Office, Deckside Mail, Barber Shop, NAF Personnel Office
- 165 Convalescent Casualty Unit
- 169 Chapel on the Thames
- 223 Theater
- 341 Branch Dental Clinic
- 426 Cromwell Hall (Submarine School Training Facility)
- 427 English Hall (Submarine School Training Facility)
- 428 Navy Exchange Gasoline Station
- 437 File Hall (Submarine School Training Facility)
- 439 Submarine Group TWO (Greenhall Hall)
- 440 Entitled Mess (OPEN), D'Aleashandro Hall
- 446 Cross Hall (The Dolphin, Galley)
- 449 Naval Hospital
- 450 Construction Battalion Unit 44
- 460 Hobby Shop and Garage
- 461 Equipment Rental, Package Store and Requisition Center
- 462 Security Force Department (Police)
- 465 Mess Hall (Submarine School Training Facility)
- 474 Lewis Hall (Submarine School Training Facility)

BLDG. ACTIVITY

- 484 Navy Exchange and Commissary Store
- 488 Bowling Center
- 499 Theater Hall, UEBH
- 500 Submarine School, Basic Entitled Submarine School (BESS)
- 501 Temporary Pass Booth and Office of the Day
- 517 Escape Training Facility (Submarine School Training)
- 518 Submarine School Training Facility
- 519 Darty Hall (Submarine School Training Facility)
- 520 Submarine School Training Facility (Under construction)
- 521 Child Care Center
- 522 Handball Courts

NEW LONDON
 Naval Submarine Base
 The Heart of the Submarine Force



Document Separator

**CAPACITY ANALYSIS:
DATA CALL #4 WORK SHEET FOR
TECHNICAL CENTER or LABORATORY:**

Naval Submarine Medical Research Laboratory, Groton, CT

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*****If any responses are classified, attach a separate classified annex. *****

7 April 1994

1. Historical and Projected Workload. Use Tables 1.1, 1.2, 1.3 & 1.4 below to provide historical and currently projected workload data for your activity in terms of funding and workyears. Assume previous BRAC closures and realignments are implemented on schedule. Dollar amounts should be in then-year dollars. Workyears should be separated for in-house government efforts and on-site contractor work.

- a. Use Table 1.1 to provide data on your site.
- b. Use Table 1.2 to provide data on your Detachments that did not receive this Data Call directly. Compile the information from all of these Detachments into one table. Attach a list of the titles & UIC's of the Detachments included in the table.
- c. For FY's 1993 thru 1997 provide a breakout of the "Total Funds Budgeted" line showing the appropriation and amounts of funding budgeted from your major customers. Major resource Sponsors are defined as, but not limited to, all systems commands, ONR, SSPO, CNO, FLT CINCs, Other DON, Other DOD by Department, Other Federal Government, All other. Use Table 1.3 to report this breakout for your site. Use Table 1.4 to report this breakout for your compiled Detachments that did not receive this Data Call directly. Provide separate tables for FY's 1993 thru 1997.

Use the following definitions when providing data for the tables below:

Workyears: Consistent with those used in the preparation of inputs to the President's budget.

In-House government efforts or In-House workyears: Includes both military and civil servant employees

On-Site Contractor workyears: Actual or estimated workyears performed by support contractors with workyears defined consistent with the definition used in the President's budget.

On-site Contractors: Those contractors that occupy space directly on the site on nearly a full time basis.

Total Funds Budgeted: The funds used as inputs to the President's Budget.

Civilian Personnel On-Board: Full Time Permanent employees (FTP).

Table 1.1 Historical and Projected Workload for NSMRL
(UIC N66596)

Fiscal Year	Total Funds Budgeted (\$K)	Total Funds Received w/o Direct Cite (\$K)	Direct Cite Funds Received (\$K)	Budgeted Wkys (K's)*	Actual In-House Wkys (K's)*	Actual Onsite Contract Wkys (K's)*
86	Not Av					
87	Not Av					
88	Not Av	231	2682		.072	
89	2695	207	2087	.072	.072	
90	2697	380	2688	.072	.072	.004
91	2965	1479	2991	.072	.070	.004
92	3947	591	3729	.072	.068	.004
93	3728	1481	4107	.072	.068	.004
94	4037			.064		
95	4394			.064		
96	8824			.064		
97	8528			.064		

Assumption - workyears not \$\$\$\$s

Table 1.2 Historical and Projected Workload for Detachments of NSMRL
(UIC N66596)

NOT APPLICABLE TO THIS ACTIVITY

Fiscal Year	Total Funds Budgeted (\$K)	Total Funds Received w/o Direct Cite (\$K)	Direct Cite Funds Received (\$K)	Budgeted Wkys	Actual In-House Wkys	Actual Onsite Contract Wkys
86						
87						
88						
89						
90						
91						
92						
93						
94						
95						
96						
97						

**TABLE 1.3 FY 1993 BREAKOUT OF FUNDS
BUDGETED for Naval Submarine Medical Research Laboratory
(UIC N66596)**

SPONSOR	RDT&E(N)							Other RDT& E	Other Appropriation					
	6.1	6.2	6.3a	6.3b	6.4	6.5	6.6		OMN	APN	OPN	WPN	SCN	Other Navy
NMRDC	116	268	815		20	364								
CNO-N872						1358								
CNO-N873				1193										
CNO-N874		145							762					
CNO-N879									125					
COMARCOR SYSCOM														42
NCCOSC			109											
US COAST GUARD														102
NASA														1

Data presented in Thousands of Dollars - (\$ K)

**TABLE 1.3 FY 1994 BREAKOUT OF FUNDS BUDGETED for Naval Submarine Medical Research Laboratory
(UIC N66596)**

SPONSOR	RDT&E(N)						Other RDT& E	Other Appropriation							
	6.1	6.2	6.3a	6.3b	6.4	6.5		6.6	OMN	APN	OPN	WPN	SCN	Other Navy	All Other
NMRDC	388		225		120	48									
CNO-N871									370						
CNO-N872						841									
CNO-N873				904											
CNO-N874									1015						
CNO-N879									30						
US COAST GUARD															97

Data presented in Thousands of Dollars - (\$ K)

**TABLE 1.3 FY 1995 BREAKOUT OF FUNDS BUDGETED for Naval Submarine Medical Research Laboratory
(UIC N66596)**

SPONSOR	RDT&E(N)						Other RDT& E	Other Appropriation						
	6.1	6.2	6.3a	6.3b	6.4	6.5		6.6	OMN	APN	OPN	WPN	SCN	Other Navy
NMRDC	716		234		103									
CNO-N871								1160						
CNO-N872				180		866								
CNO-N873				958										
CNO-N879								120						
ONR	57													

Data presented in Thousands of Dollars - (\$ K)

**TABLE 1.3 FY 1996 BREAKOUT OF FUNDS BUDGETED for Naval Submarine Medical Research Laboratory
(UIC N66596)**

SPONSOR	RDT&E(N)							Other RDT& E	Other Appropriation						
	6.1	6.2	6.3a	6.3b	6.4	6.5	6.6		OMN	APN	OPN	WPN	SCN	Other Navy	All Other
NMRDC	1146		264												
CNO-N871									1300						
CNO-N872				1938		2958									
CNO-N873				1034											
CNO-N879									125						
ONR	59														

Data presented in Thousands of Dollars - (\$ K)

**TABLE 1.3 FY 1997 BREAKOUT OF FUNDS BUDGETED for Naval Submarine Medical Research Laboratory
(UIC N66596)**

SPONSOR	RDT&E(N)							Other RDT& E	Other Appropriation						
	6.1	6.2	6.3a	6.3b	6.4	6.5	6.6		OMN	APN	OPN	WPN	SCN	Other Navy	All Other
NMRDC	1059		300												
CNO-N871									1080						
CNO-N872				1901		2998									
CNO-N873				1060											
CNO-N879									130						

Data presented in Thousands of Dollars - (\$ K)

2. Current Class 2 Assets. Complete Tables 2.1 thru 2.6 below as directed. Tables 2.1, 2.2 & 2.3 will define the Class 2 property owned or leased by your activity (less Detachments). Tables 2.4, 2.5 & 2.6 will define the combined Class 2 assets owned or occupied at your Detachment sites which did not receive this Data Call directly. Report space holdings and assignments as of 31 March 1994. Provide numbered notes to explain imminent changes, additions & deletions such as previous BRAC realignments, MILCON (including BRAC related MILCON) & Special Projects that are currently programmed in the FYDP. Give the project number & title, cost, short description, quantity of additional square footage, award date, estimated/actual construction start date and estimated BOD. Square footage of space is to be reported in "Gross Floor/Building Area" (GF/BA) as defined in NAVFAC P-80. Many of the P-80 Category Code Numbers (CCN's) have assets that are reported in units of measure other than square feet (SF). The only unit of measure desired for this Data Call is SF. Only report the assets in each CCN that are normally reported in SF.

For your Site:

- a. Use Table 2.1 below to indicate the total amount of Class 2 space at your site for which you are the plant account holder as of 31 March 1994.
- b. Use Table 2.2 below to indicate the total amount of your Class 2 space reported in Table 2.1 that is assigned to your tenant commands and/or independent activities at your site as of 31 March 1994.
- c. Use Table 2.3 below to indicate the total amount of Class 2 space, for which you are not the plant account holder, but which is utilized/leased by you (less Detachments). Provide numbered notes to identify the title and UIC of the plant account holder/lessor, quantity of leased space and the associated lease cost.

Table 2.1 Main Site Class 2 Assets of _____ (UIC _____)

NOT APPLICABLE TO THIS ACTIVITY

Building type	NAVFAC (P-80) category code	Gross Floor/Building Area (KSF)			
		Adequate	Sub-standard	In-adequate	Total
Operational & Training	100				
Maintenance & Production	200				
Science labs	310				
Aircraft labs	311				
Missile and Space labs	312				
Ship and Marine labs	313				
Ground Transportation labs	314				
Weapon and Weapon Systems labs	315				
Ammunition, Explosives, & Toxics labs	316				
Electrical Equip. labs	317				
Propulsion labs	318				
Miscellaneous labs	319				
Underwater Equip. labs	320				
Technical Services labs	321				
Supply Facilities	400				
Hospital & other Medical	500				
Administrative Facilities	600				
Housing & Community	700				
Utilities & Grounds	800				
Other					
Totals					

d. In accordance with NAVFACINST 11010.44E, an Inadequate facility cannot be made Adequate for its present use through "economically justifiable means". For all the categories above where Inadequate facilities are identified provide the following information:

- (1) FACILITY TYPE/CODE:
- (2) WHAT MAKES IT INADEQUATE?
- (3) WHAT USE IS BEING MADE OF THE FACILITY?
- (4) WHAT IS THE COST TO UPGRADE THE FACILITY TO SUBSTANDARD?
- (5) WHAT OTHER USE COULD BE MADE OF THE FACILITY AND AT WHAT COST?
- (6) CURRENT IMPROVEMENT PLANS AND PROGRAMMED FUNDING:
- (7) HAS THIS FACILITY CONDITION RESULTED IN C3 OR C4 DESIGNATION ON YOUR BASEREP?

Table 2.3 Class 2 Space Utilized/Leased by Naval Submarine Medical Research Lab (UIC N66596)

Building type	NAVFAC (P-80) category code	GF/BA (KSF)			
		Adequate	Sub-standard	In-adequate	Total
Operational & Training	100				
Maintenance & Production	200				
Science labs	310	39.5			39.5
Aircraft labs	311				
Missile and Space labs	312				
Ship and Marine labs	313				
Ground Transportation labs	314				
Weapon and Weapon Systems labs	315				
Ammunition, Explosives, and Toxics labs	316				
Electrical Equip. labs	317				
Propulsion labs	318				
Miscellaneous labs	319	6.6			6,6
Underwater Equip. labs	320				
Technical Services labs	321				
Supply Facilities	400				
Hospital & other Medical	500				
Administrative Facilities	600	15,7			15.7
Housing & Community	700				
Utilities & Grounds	800				
Other					
Totals		61.8			61,8

Tenant of Submarine Base New London, Groton, CT UIC: N00129

For your Detachment sites not receiving this Data Call directly:

e. Use Table 2.4 below to indicate the combined total amount of Class 2 space that is occupied by your Detachments for which you are the plant account holder as of 31 March 1994. Attach a list with the titles and UIC's of these Detachments.

f. Use Table 2.5 below to indicate the total amount of your Class 2 space reported in Table 2.4 that is assigned to tenant commands and/or independent activities as of 31 March 1994. Include numbered notes to indicate the Detachment site that hosts the tenant.

g. Use Table 2.6 below to indicate the combined total amount of Class 2 space utilized/leased by your Detachments for which you are not the plant account holder. Provide numbered notes to indicate the quantity of leased space and their associated rental cost.

Table 2.4 Class 2 Assets of NSMRL Occupied by Detachments
NOT APPLICABLE TO THIS ACTIVITY

Building type	NAVFAC (P-80) category code	GF/BA (KSF)			
		Adequate	Sub-standard	In-adequate	Total
Operational & Training	100				
Maintenance & Production	200				
Science labs	310				
Aircraft labs	311				
Missile and Space labs	312				
Ship and Marine labs	313				
Ground Transportation labs	314				
Weapon and Weapon Systems labs	315				
Ammunition, Explosives, and Toxics labs	316				
Electrical Equip. labs	317				
Propulsion labs	318				
Miscellaneous labs	319				
Underwater Equip. labs	320				
Technical Services labs	321				
Supply Facilities	400				
Hospital & other Medical	500				
Administrative Facilities	600				
Housing & Community	700				
Utilities & Grounds	800				
Other					
Totals					

h. In accordance with NAVFACINST 11010.44E, an Inadequate facility cannot be made Adequate for its present use through "economically justifiable means". For all the categories above where Inadequate facilities are identified provide the following information:

- (1) FACILITY TYPE/CODE:
- (2) WHAT MAKES IT INADEQUATE?
- (3) WHAT USE IS BEING MADE OF THE FACILITY?
- (4) WHAT IS THE COST TO UPGRADE THE FACILITY TO SUBSTANDARD?
- (5) WHAT OTHER USE COULD BE MADE OF THE FACILITY AND AT WHAT COST?
- (6) CURRENT IMPROVEMENT PLANS AND PROGRAMMED FUNDING:
- (7) HAS THIS FACILITY CONDITION RESULTED IN C3 OR C4 DESIGNATION ON YOUR BASEREP?

Table 2.6 Class 2 Space Utilized/Leased by Detachments of NSMR. (UIC N66596)
NOT APPLICABLE TO THIS ACTIVITY

Building type	NAVFAC (P-80) category code	GF/BA (KSF)			
		Adequate	Sub-standard	In-adequate	Total
Operational & Training	100				
Maintenance & Production	200				
Science labs	310				
Aircraft labs	311				
Missile and Space labs	312				
Ship and Marine labs	313				
Ground Transportation labs	314				
Weapon and Weapon Systems labs	315				
Ammunition, Explosives, and Toxics labs	316				
Electrical Equip. labs	317				
Propulsion labs	318				
Miscellaneous labs	319				
Underwater Equip. labs	320				
Technical Services labs	321				
Supply Facilities	400				
Hospital & other Medical	500				
Administrative Facilities	600				
Housing & Community	700				
Utilities & Grounds	800				
Other					
Totals					

3. Class 2 Space Available for Expansion. An activity's expansion capability is a function of it's ability to reconfigure and/or expand existing facilities to accept new or increased roles. Such a reconfiguration may require rehabilitation or buildout of a space to support the new or expanded role. A space expansion could include converting an underutilized storage space into laboratory spaces, or buildout of a high bay area into a multifloor office/laboratory space. All questions refer to Class 2 property for which you are the plant account holder as of 31 March 1994. Do not report any currently programmed changes or additions previously reported in question #2 above. Expansion opportunities must follow the guidance of NAVFAC P-80 for the appropriate facility category code, as well as applicable fire and safety codes. Personnel loading density should not exceed those specified in the P-80. Space is only available if it is currently unoccupied or the current occupants are officially designated for relocation. Report space as Net Floor Area (NFA) as defined in the P-80. Do not include opportunities that are being reported by your Detachments who received this Data Call directly. Reported expansion opportunities must be able to accommodate the necessary ancillary facilities and equipment, such as adequate parking space, required to support the amount of people projected.

a. What is the maximum quantity of space that could be made available for expansion to accommodate other functions and/or increased efforts? Report in terms of the "Current NFA" as shown in Tables 3.1 & 3.2. NA SQFT.

b. How much of the space reported in question 3.a. above is currently available with minimal or no reconfiguration costs? Report in terms of the "Current NFA" as shown in Tables 3.1 & 3.2. NA SQFT.

c. Use Table 3.1 below to indicate the constrained growth opportunities for accepting expanded or new roles. Constrained growth is defined as growth limited to buildings and structures currently on your Class 2 plant account. Add numbered notes to highlight and explain opportunities that require remediation or waiver of a restriction or encumbrance as part of the expansion. Provide lettered notes to clearly identify each opportunity with the title & UIC of the site it refers to. The "Current NFA (KSF)" column total should match the quantity provided in question #3.a. above. Annotate those opportunities that were used to obtain the answer to question #3.b. above. Report space once, do not use the same space for different expansion opportunities. Include in this table space that will become available once planned downsizing (separate from BRAC realignments) has been completed, provide the estimated completion date of the downsizing effort.

d. Use Table 3.2 below to indicate additional unconstrained growth opportunities for accepting expanded or new roles. Unconstrained growth allows for construction of new facilities on existing buildable Class 1 property. The only constraint being that the land must currently be on your plant account holdings as of 31 March 1994 and free of existing land use constraints. Limit new buildings to three stories. Add numbered notes to highlight and

explain additional opportunities that would require remediation or waiver of a land use constraint as part of the expansion. Provide lettered notes to clearly identify each opportunity with the title & UIC of the site it refers to. Do not include space that has been reported in Table 3.1.

4. Class 1 Space Available for Expansion.

a. Identify in Table 4.1 below the real estate resources which have the potential to facilitate future development, and for which you are the plant account holder as of 31 March 1994, or into which, though a tenant, your activity could reasonably expect to expand. Complete a separate table for each individual site (i.e., main base, outlying airfields, special off-site areas, etc.) and Detachment that did not receive this Data Call directly. The unit of measure is acres. Developed area is defined as land currently with buildings, roads, and utilities where further development is not possible without demolition of existing improvements. Include in "Restricted" acreage that is restricted for future development due to environmental constraints (e.g. wetlands, landfills, archaeological sites), operational restrictions (e.g. ESQD arcs, HERO, HERP, HERF, AICUZ, ranges) or cultural resources restrictions. Identify the reason for the restriction when providing the acreage in the table. Specify any entry in "Other" (e.g. submerged lands).

b. Are there any constraints such as parking, utilities, legal restrictions that limit the potential for using Undeveloped land for expansion?

NOT APPLICABLE TO THIS ACTIVITY

c. Explain the radio frequency constraints/opportunities within your Class 1 holdings.

NOT APPLICABLE TO THIS ACTIVITY

Class 1 Resources of _____ (UIC: _____)

Site Location: _____

NOT APPLICABLE TO THIS ACTIVITY

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance				
Operational				
Training				
R & D				
Supply & Storage				
Admin				
Housing				
Recreational				
Navy Forestry Program				
Navy Agricultural Outlease Program				
Hunting/Fishing Programs				
Other				
Total:				

d. Of the total Unrestricted Acres reported above, how much of it has existing roads and/or utilities that could support expansion efforts? _____ Acres. Explain.

5. Base Infrastructure Capacity. Provide base infrastructure data as of 31 March 1994. Provide numbered notes to explain imminent changes, additions & deletions driven by previous BRAC realignments, MILCON (including BRAC related MILCON) & Special Projects that are currently programmed in the FYDP. Give the project number & title, cost, short description, quantity of additional square footage, award date, estimated/actual construction start date and estimated BOD.

a. Utilize Table 5.1 below to provide information on your activity's base infrastructure capacity and load. Do not report this information if you are a tenant activity.

Table 5.1 Base Infrastructure Capacity & Load

Tenant - NOT APPLICABLE TO THIS ACTIVITY

	On Base Capacity	Off base long term contract	Normal Steady State Load	Peak Demand
Electrical Supply (KWH)				
Natural Gas (CFH)				
Sewage (GPD)				
Potable Water (GPD)				
Steam (PSI & lbm/Hr)				
Long Term Parking				
Short Term Parking				

b. Maintenance, Repair & Equipment Expenditure Data: Use Table 5.2 below to provide data on facilities and equipment expenditures at your activity. Project expenditures to FY 1997. Do not include data on Detachments who have received this Data Call directly. Do not report this information if you are a tenant activity. The following definitions apply:

Maintenance of Real Property (MRP) Dollars: MRP is a budgetary term used to gather the expenses or budget requirements for facility work including recurring maintenance, major repairs & minor construction (non-MILCON) inclusive of all Major Claimant funded Special Projects. It is the amount of funds spent on or budgeted for maintenance

and repair of real property assets to maintain the facility in satisfactory operating condition. For purposes of this Data Call MRP includes all M1/R1 and M2/R2 expenditures.

Current Plant Value (CPV) of Class 2 Real Property: The hypothetical dollar amount to replace a Class 2 facility in kind with today's dollars. Example: the cost today to replace a wood frame barracks with a wood frame barracks.

Acquisition Cost of Equipment (ACE): The total cumulative acquisition cost of all "personal property" equipment maintained at your activity which includes the cost of installed equipment directly related to mission execution, such as lab test equipment. Class 2 installed capital equipment that is an integral part of the facility will not be reported as ACE.

**Table 5.2 Maintenance, Repair & Equipment Expenditure Data
for NSMRL (UIC: N66596)**

Fiscal Year	MRP (\$M)	CPV (\$M)	ACE (\$M)
1985	no longer avail	N/A	no longer avail
1986	no longer avail	N/A	no longer avail
1987	.022	N/A	no longer avail
1988	.029	N/A	.163
1989	.019	N/A	.065
1990	.040	N/A	.283
1991	.036	N/A	.374
1992	.027	N/A	.770
1993	.018	N/A	.275
1994	.020	N/A	.117
N/A1995	.020	N/A	.250
1996	.020	N/A	.250
1997	.020	N/A	.250

c. Training Facilities:

(1) By facility Category Code Number (CCN), provide the usage requirements for each course of instruction required for all formal schools on your installation. A formal school is a programmed course of instruction for military and/or civilian personnel that has been formally approved by an authorized authority (ie: Service Schools Command, Weapons Training Battalion, Human Resources Office). Do not include requirements for maintaining unit readiness, GMT, sexual harassment, etc. Include all applicable 171-xx, 179-xx CCN's.

NOT APPLICABLE TO THIS ACTIVITY

Type of Training Facility/CCN	School	Type of Training	FY 1993			FY 2001		
			Requirements			Requirements		
			A	B	C	A	B	C

A = STUDENTS PER YEAR

B = NUMBER OF HOURS EACH STUDENT SPENDS IN THIS TRAINING FACILITY FOR THE TYPE OF TRAINING RECEIVED

C = A x B

(2) By Category Code Number (CCN), complete the following table for all training facilities aboard the installation. Include all 171-xx and 179-xx CCN's.

For example: in the category 171-10, a type of training facility is academic instruction classroom. If you have 10 classrooms with a capacity of 25 students per room, the design capacity would be 250. If these classrooms are available 8 hours a day for 300 days a year, the capacity in student hours per year would be 600,000.

NOT APPLICABLE TO THIS ACTIVITY

Type Training Facility/CCN	Total Number	Design Capacity (PN) ¹	Capacity (Student HRS/YR)

(3) Describe how the Student HRS/YR value in the preceding table was derived.

¹ Design Capacity (PN) is the total number of seats available for students in spaces used for academic instruction; applied instruction; and seats or positions for operational trainer spaces and training facilities other than buildings, i.e., ranges. Design Capacity (PN) must reflect current use of the facilities.

6. Ship Berthing Capacity. If your activity has the capacity to berth ships fill out the data sheets provided at TAB A.

7. Operational Airfield Capacity. If your activity owns and operates an operational airfield fill out the data sheets provided at TAB B.

8. Depot Level Maintenance Capacity. Fill out the data sheets provided at TAB C if you or your subordinate activities perform depot level maintenance on a piece of equipment or system.

9. Ordnance Storage Capacity. If your activity has the capability to store or maintain weapons and ordnance fill out the data sheets provided at TAB D.

TAB A

SHIP BERTHING CAPACITY

Note: Question numbers in []'s are for internal BSAT purposes.

SHIP BERTHING CAPACITY

1. [11.] For each Pier/Wharf at your facility list the following structural characteristics. Indicate the additional controls required if the pier is inside a Controlled Industrial Area or High Security Area. Provide the average number of days per year over the last eight years that the pier was out of service (OOS) because of maintenance, including dredging of the associated slip:

NOT APPLICABLE TO THIS ACTIVITY

Table 11.1

Pier/Wharf & Age ¹	CCN ²	Moor Length (ft)	Design Dredge Depth ³ (ft) (MLLW)	Slip Width ⁴ (ft)	Pier Width (ft) ⁵	CIA/Security Area? (Y/N) ⁶	ESQD Limit ⁷	# Days OOS for maint.

¹Original age and footnote a list of MILCON improvements in the past 10 years.
²Use NAVFAC P-80 for category code number.
³Comment if unable to maintain design dredge depth
⁴Water distance between adjacent finger piers.
⁵Indicate if RO/RO and/or Aircraft access.
⁶Describe the additional controls for the pier.
⁷Net explosive weight. List all ESQD waivers that are in effect with expiration date.

3. [13.] For each pier/wharf listed above state today's normal loading, the maximum capacity for berthing, maximum capacity for weapons handling evolutions, and maximum capacity to conduct intermediate maintenance.

NOT APPLICABLE TO THIS ACTIVITY

Table 13.1

Pier/Wharf	Typical Steady State Loading ¹	Ship Berthing Capacity	Ordnance Handling Pier Capacity ²	IMA Maintenance Pier Capacity ³

¹ Typical pier loading by ship class with current facility ship loading.

² List the maximum number of ships that can be moored to conduct ordnance handling evolutions at each pier/berth without berth shifts. Consider safety, ESQD and access limitations.

³ List the maximum number of ships that can be serviced in maintenance availabilities at each pier without berth shifts because of crane, laydown or access limitations.

4. [14.] For each pier/wharf listed above, based on Presidential Budget 1995 budgeted infrastructure improvements in the Presidential Budget 1995 through FY 1997 and the BRAC-91 and BRAC-93 realignments, state the expected normal loading, the maximum capacity for berthing, maximum capacity for weapons handling evolutions, and maximum capacity to conduct intermediate maintenance.

NOT APPLICABLE TO THIS ACTIVITY

Table 14.1

Pier/ Wharf	Typical Steady State Loading ¹	Ship Berthing Capacity	Ordnance Handling Pier Capacity ²	IMA Maintenance Pier Capacity ³

¹ Typical pier loading by ship class with current facility ship loading.

² List the maximum number of ships that can be moored to conduct ordnance handling evolutions at each pier/berth without berth shifts. Consider safety, ESQD and access limitations.

³ List the maximum number of ships that can be serviced in maintenance availabilities at each pier without berth shifts because of crane, laydown, or access limitations.

TAB B

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UIC N66596

5. [15.a.] How much pier space is required to berth and support ancillary craft (tugs, barges, floating cranes, etc.) currently at your facility? Indicate if certain piers are uniquely suited to support these craft.

NOT APPLICABLE TO THIS ACTIVITY

6. [15.b.] What is the average pier loading in ships per day due to visiting ships at your base. Indicate if it varies significantly by season.

NOT APPLICABLE TO THIS ACTIVITY

7. [15.c.] Given no funding or manning limits, what modifications or improvements would you make to the waterfront infrastructure to increase the cold iron ship berthing capacity of your installation? Provide a description, cost estimates, and additional capacity gained.

NOT APPLICABLE TO THIS ACTIVITY

8. [15.d.] Describe any unique limits or enhancements on the berthing of ships at specific piers at your base.

NOT APPLICABLE TO THIS ACTIVITY

TAB B

OPERATIONAL AIRFIELD CAPACITY

Note: Question numbers in []'s are for internal BSAT purposes.

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1. [1a.] For the main airfield and each auxiliary airfield, answer the following questions:

NOT APPLICABLE TO THIS ACTIVITY

Airfield Name _____

For each runway, give its designation, length, width, load capacity, lighting configurations, and arresting gear types. For each runway list any approach obstructions or any restrictions on flight patterns.

Runway	Length (ft)	Width (ft)	Max load	Lighting				Arresting Gear Type(s)
				F	P	C	N	

F -- Full lighting (runway edge, center, and threshold)

P -- Partial lighting (less than full)

C -- Carrier deck lighting simulated

N -- No lighting

2. [1b.] Provide the composition (concrete, asphalt) and load bearing capacity of your aprons, ramps and taxiway.

Apron/ramp/taxiway Location - ID	SF	Comp.	Load Bearing Capacity	Comments

3. [1c.] Do you have high speed taxiways? Discuss number and impact on airfield operations.

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4. [1d.] Are all runways with approved instrument approaches served by hi-speed taxiways?

NOT APPLICABLE TO THIS ACTIVITY

5. [1e.] List any restrictions to runways with approach obstructions or any restrictions on flight patterns. Explain

NOT APPLICABLE TO THIS ACTIVITY

6. [1f.] For the main airfield and each auxiliary and outlying field, discuss any runway design features that are specific to particular types of aircraft (i.e., are the airfield facilities designated primarily fixed wing jet, prop, or helo aircraft?)

NOT APPLICABLE TO THIS ACTIVITY

7. [2a.] List the number of flight operations (take-off, landing, or approach without landing) that the main airfield and all auxiliary fields can support on an hourly basis in both VMC and IMC. Comment on the factors at each field that limit this capacity (e.g., taxiway/runway limitations, airspace, ATC restrictions, environmental restrictions).

NOT APPLICABLE TO THIS ACTIVITY

Airfield	# Flight Ops/Hr		Comments on Limiting Factors
	IMC	VMC	
Main			
Auxiliary			
Auxiliary			
Auxiliary			

8. [2b.] Provide the average number of (historical) flight operations per month conducted at this station and the total number of days during which these operations were conducted. If data is not normally recorded, include estimates (and how derived). A flight operation is defined as a take-off, landing, or approach without a landing.

NOT APPLICABLE TO THIS ACTIVITY

FY	Main Airfield		Auxiliary Field		Auxiliary Field		Auxiliary Field	
	# Ops	# Days	# Ops	# Days	# Ops.	# Days	# Ops.	# Days
1991								
1992								
1993								

9. [2c.] What percent of your flight operations are Fleet Carrier Landing Practices (FCLPs)?

NOT APPLICABLE TO THIS ACTIVITY

10. [2d.] Are you designated as an authorized divert field for any non-DoD aircraft? Explain.

NOT APPLICABLE TO THIS ACTIVITY

11. [2d.] Is your airfield designated as a joint use airfield (i.e. civilian/military)? Explain.

NOT APPLICABLE TO THIS ACTIVITY

12. [2e.] What percentage of total operations are civilian?

NOT APPLICABLE TO THIS ACTIVITY

13. [2f.] Describe the major civilian air traffic structures (routes, terminal control areas, approaches, etc.) discuss the present and likely future impact of each on air station operations.

NOT APPLICABLE TO THIS ACTIVITY

14. [2g.] Are there any air traffic control constraints/procedures that currently, or may in the future, limit air station operations? If yes, fully explain impact.

NOT APPLICABLE TO THIS ACTIVITY

15. [4.] List all NAVAIDS with published approaches that support the main airfield and/or your auxiliary airfields. Note any additions/upgrades to be added between now and FY1997.

NOT APPLICABLE TO THIS ACTIVITY

NAVAID	DESCRIPTION/LOCATION

16. [5a.] List all active duty Navy/USMC squadrons/detachments and the number of aircraft by type, model, and series (T/M/S), that will be permanently stationed/are scheduled to be stationed at this air station at the end of the indicated fiscal years.

NOT APPLICABLE TO THIS ACTIVITY

Squadron/Det	# of Aircraft (PAA)	Aircraft (T/M/S)	FY 1994	FY 1995	FY 1997	FY 1999	FY 2001

17. [5b.] Summarize average visiting squadron/det loading on air station operations(i.e. airwing/wing weapons deployment).

NOT APPLICABLE TO THIS ACTIVITY

Squadron/Det Size (#A/C)	Apron Space Used	Hangar Space Assigned	Maintenance Support	Ave length of stay

18. [5c.] If a major percent of flight operations at your air station is from other than permanently stationed squadron/detachments, provide explanation.

NOT APPLICABLE TO THIS ACTIVITY

19. [6a.] List all reserve Navy/USMC squadrons/detachments and the number of aircraft by type, model, and series (T/M/S), which will be stationed/are scheduled to be stationed at this air station at the end of the indicated fiscal years.

NOT APPLICABLE TO THIS ACTIVITY

Squadron/Det	# of Aircraft (PAA)	Aircraft (T/M/S)	FY 1994	FY 1995	FY 1997	FY 1999	FY 2001

20. [7.] List all Station aircraft by number, type, model, and series (T/M/S), which will be parked or stationed/are scheduled to be stationed at this air station at the end of the indicated fiscal years.

NOT APPLICABLE TO THIS ACTIVITY

Squadron/ Custodian	# of Aircraft (PAA)	Aircraft (T/M/S)	FY 1994	FY 1995	FY 1997	FY 1999	FY 2001

21. [8.] List all DoD and non-DoD aircraft not previously listed, by custodian, including number, type, model, and series (T/M/S) of aircraft, which will be parked or stationed/are scheduled to be stationed at this air station at the end of the indicated fiscal years.

NOT APPLICABLE TO THIS ACTIVITY

Service/ Agency/ Custodian	# of Aircraft (PAA)	Aircraft (T/M/S)	FY 1994	FY 1995	FY 1997	FY 1999	FY 2001

22. [9a.] List other operational command or support units (ie. air wing staffs, MWSG, MWSS, MACG, MASS, etc.) stationed at this installation. For each Unit, give the unit identification number/UIC, mission, and facilities required (currently being used) to support the unit (i.e. equipment parking - 2500 SF; maintenance shop-200 SF; etc.).

NOT APPLICABLE TO THIS ACTIVITY

Support Unit Identification/ UIC	Mission	Facilities Required	Equipment Laydown Requirement (covered/ uncovered in SF)

23. [9b.] Due to BRAC or other realignments, what increases/decreases in operational command or support units will occur at your installation. Provide expected gains/losses by year through 2001.

NOT APPLICABLE TO THIS ACTIVITY

24. [10a.] List all other USN/USNR, USMC/USMCR, and other DoD or non-DoD active and SELRES units not listed previously, that are scheduled to be stationed at this air station at the end of the indicated fiscal years.

NOT APPLICABLE TO THIS ACTIVITY

Unit	Active or Reserve	FY 1994	FY 1995	FY 1997	FY 1999	FY 2001

26. [12c.] For each Special Use Airspace (SUA) or airspace-for-special-use complete the following table:

NOT APPLICABLE TO THIS ACTIVITY

SUA	Location/ Distance	Types/Uses	Scheduling Authority (UIC)	Fiscal Year	Scheduled	Utilized ¹	Operating Limitations ²
					# Hours	# Hours	
				1991			
				1992			
				1993			
				1991			
				1992			
				1993			
				1991			
				1992			
				1993			

¹ For the "Utilized" values, provide reasons for hours scheduled, but not utilized (e.g. 40% cancelled due to weather; 10% cancelled for unscheduled range maintenance, etc.).

² Provide any comments on operating limitations.

27. [12d.] Assuming that the flight training facility is **not constrained by operational funding** (personnel support, increased overhead costs, etc.), with the present equipment, physical plant, etc. , what **additional use of airspace assets** could be realized? Provide details and assumptions for all calculations.

NOT APPLICABLE TO THIS ACTIVITY

28. [12h.] In the event that it became necessary to increase base loading at your installation, does the **airspace** overlying and adjacent to your installation have the **capacity** to assume an additional workload? Estimate the percentage of the possible increase. Provide the basis/calculations for these estimates.

NOT APPLICABLE TO THIS ACTIVITY

29. [17a.] Using the types (and mix) of aircraft currently stationed at your installation, project the additional number of these aircraft (maintain approximate current mix/ratio of A/C) that could be based and parked on your current parking aprons.

Provide two estimates:

1. Using NAVFAC P-80 standard measures
2. Using real world planning factors to accommodate a surge demand for space (maintaining safe operating procedures).

NOT APPLICABLE TO THIS ACTIVITY

Aircraft Type	Current # of Aircraft Parked/Stationed	Maximum Additional Capacity (# of Aircraft)		Total	
		NAVFAC	Surge	NAVFAC	Surge

Provide the details of your calculations, including your assumptions on the minimum separation between aircraft, parking angle, folding of aircraft wings and any obstructions that may limit the placement of aircraft on the parking apron spaces. Indicate if taxiway aprons are used in the projection.

NOT APPLICABLE TO THIS ACTIVITY

30. [18a.] List the hangars at the air station. Identify by (P-80) type, year built, dimensions.

NOT APPLICABLE TO THIS ACTIVITY

Hangar ID/#	Type I, II or (O)ther	Year Built	Hangar Deck Dimensions	Limiting Height	Current Usage	In SF			
						Adequate	Substandard	Inadequate	Total

In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified describe why the facility is inadequate; indicate how it is being used and list other possible uses; and specify the costs to remove the deficiencies that make it inadequate. Indicate current plans to remove these deficiencies and the amount of any programmed funds. Discuss any material conditions of substandard facilities which have resulted in a C3 or C4 designation on your BASEREP.

31. [18b.] For each hangar provide space allocation information listed in table below. Indicate if OPS/ADMIN space is in a non-contiguous building, Provide subtotal for each hangar.

NOT APPLICABLE TO THIS ACTIVITY

Hangar #/ID/Type	SQD/Mod# Assignment	Ops + Admin Spaces SF/ Module	Maint Shops SF/ Module (O Level)	Hangar Deck SF/Module	A/C Line parking spaces ^{2,3}		
					#/ Module	SF	Elec. Pwr.
TOTAL							

- ¹ Provide which SQD/Det was assigned to the specific module at receipt of this Data Call. (i.e., VFA-15, Hgr 1, Mod C)
- ² Dedicated aircraft parking spaces per Module and total square feet (SF) of A/C line parking spaces
- ³ Are there A/C line parking spaces supported by permanently installed electric power? (Y/N)

32. [18f.] List all squadrons/detachments normally homeported at this air station that were deployed and not assigned hangar/maintenance spaces at receipt of this data call.

NOT APPLICABLE TO THIS ACTIVITY

Squadron/Detachment	#/Type Aircraft	Deployed Location

33. [18g.] List all squadrons/detachments normally homeported at this air station that were deployed and were assigned hangar/maintenance spaces at receipt of this data call.

NOT APPLICABLE TO THIS ACTIVITY

Squadron/Detachment	#/Type Aircraft	Hanger Module Assignment

34. [18h.] Using the types (and mix) of aircraft currently stationed at your installation, project the maximum additional number of these aircraft (maintain approximate current mix/ratio of A/C) that could be housed and maintained in your current hangars. Provide two estimates:

1. Using NAVFAC P-80 standard measures
2. Using real world planning factors to accomodate a surge demand for space (maintaining safe operating procedures).

NOT APPLICABLE TO THIS ACTIVITY

Aircraft Type	Current # of Aircraft Parked/Stationed	Maximum Additional Capacity (# of Aircraft)		Total (Current + Additional)	
		NAVFAC	Surge	NAVFAC	Surge

Provide the details of your calculations, including your assumptions on the minimum separation between aircraft, folding of aircraft wings and any obstructions that may limit the placement of aircraft in the hangars.

36. [21a.] For the following aircraft support facility category codes, provide the amount of adequate substandard, and inadequate facilities.

NOT APPLICABLE TO THIS ACTIVITY

CCN	Facility Type	Unit of Measure	Adequate	Substandard	Inadequate	Total	Number of Units
111-20	Landing Pads	SF					
121-10	Direct Fueling	OL/GM					
124-30	Fuel Storage	GA					
421-xx	Ammunition Storage	CF/TONS					
425-xx	Open Ammunition Storage	SF					
113-20	Parking Aprons	SF					
113-40	Access Aprons	SF					
116-56	Combat Aircraft Ordnance Loading Area	SF					
	Other						

In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified describe why the facility is inadequate; indicate how it is being used and list other possible uses; and specify the costs to remove the deficiencies that make it inadequate. Indicate current plans to remove these deficiencies and the amount of any programmed funds. Discuss any material conditions of substandard facilities which have resulted in a C3 or C4 designation on your BASEREP.

35. [19.] Do you have any of the following special use facilities at the Air Station?

NOT APPLICABLE TO THIS ACTIVITY

CCN	Type of Facility	In SF				# of Units	Year Built
		Adequate	Substandard	Inadequate	Total		
211-01	Aircraft Acoustical Enclosure						
211-02	Nose Hangar						
211-03	Corrosion Control Hangar						
211-75	Parachute/Survival Equipment Shop						
211-81	Engine Test Cell						
211-88	Power Check Pad with Sound Suppression						
211-89	Power Check Pad without Sound Suppression						
211-96	Maintenance, Aircraft Spares Storage						
116-10	Airfield Washrack Pavement						
116-15	Aircraft Rinse Facility						
214-30	Refueling Vehicle Shop						
218-60	Aircraft Ground Support Equipment						
	Other						

In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified describe why the facility is inadequate; indicate how it is being used and list other possible uses; and specify the costs to remove the deficiencies that make it inadequate. Indicate current plans to remove these deficiencies and the amount of any programmed funds. Discuss any material conditions of substandard facilities which have resulted in a C3 or C4 designation on your BASEREP.

TAB C

DEPOT LEVEL MAINTENANCE CAPACITY

Maintenance and Industrial Activities

Activities that actually perform Depot Level Maintenance should complete **PART I** of this TAB. Warfare Center Headquarters (Owners & Operators) whose subordinate activities actually perform Depot Level Maintenance should complete **PART II** of this TAB. Depot and/or industrial workload capacity is to be reported as a function of the following categories for the period requested.

JCSG-DM: Maintenance and Industrial Activities
 Refer to the following notes when filling out the tables in this TAB.

Commodity Groups List	
1. Aircraft Airframes: Rotary VSTOL Fixed Wing Transport / Tanker / Bomber / Command and Control Light Combat Admin / Training Other	7. Ground and Shipboard Communications and Electronic Equipment Radar Radio Communications Wire Communications Electronic Warfare Navigational Aids Electro-Optics / Night Vision Satellite Control / Space Sensors
2. Aircraft Components Dynamic Components Aircraft Structures Hydraulic/Pneumatic Instruments Landing Gear Aviation Ordnance Avionics/Electronics APUs Other	8. Automotive / Construction Equipment
3. Engines (Gas Turbine) Aircraft Ship Tank Blades / Vanes (Type 2)	9. Tactical Vehicles Tactical Automotive Vehicles Components
4. Missiles and Missile Components Strategic Tactical / MLRS	10. Ground General Purpose Items Ground Support Equipment (except aircraft) Small Arms / Personal Weapons Munitions / Ordnance Ground Generators Other
5. Amphibians Vehicles Components (less GTE)	11. Sea Systems Ships Weapons Systems
6. Ground Combat Vehicles Self-propelled Tanks Towed Combat Vehicles Components (less GTE)	12. Software Tactical Systems Support Equipment
	13. Special Interest Items Bearings Refurbishment Calibration (Type I) TMDE
	14. Other

Notes:

1. "Production" equates to the number of items processed per Fiscal Year (FY), unless otherwise specified.
2. Base your responses for FY 1994 and previous years on executed workload, and for FY 1995 and subsequent years on workload as programmed. Unless otherwise specified, use workload mixes as programmed. In estimating projected workload capabilities, use the Activity's configuration as of completion of implementation of the BRAC-88/91/93 actions.
3. Use single shift operations (1-8-5) as the basis for your calculations. Report in specified units of throughput and Direct Labor Man Hours (DLMHs).
4. If any responses are classified, so annotate the applicable question and include those responses in a separate classified annex.
5. Capacity Index and Utilization Index will be calculated in accordance with the Defense Depot Maintenance Council approved update to Department of Defense Instruction (DoDInst) 4151.15H, "Depot Maintenance Capacity/Utilization Index Measurement."
6. The Major Owner/Operator questions will be answered by the Major Claimant/Systems Commander.
7. Utilize the tables provided to answer each question. Answer the questions for all of the commodity groups that are applicable to your activity. In the Aircraft Airframes and Engines (Gas Turbine) commodity groups break out the information by aircraft type, model, series or by engine type as applicable when filling out the tables.

PART I: MAINTENANCE & INDUSTRIAL ACTIVITIES

1. Historic and Predicted Workload

1.1 Given the current configuration and operation of your activity, provide the depot/industrial level maintenance by commodity group (from the List above) that was executed in and is programmed for the Fiscal Years (FY) requested in units throughput (Tables 1.1.a and 1.1.b) and in Direct Labor Man Hours (DLMHs) (Tables 1.1.c and 1.1.d). Add additional rows as required to report all commodity types serviced at this activity.

Table 1.1.a: Historic and Predicted Depot/Industrial Workload

NOT APPLICABLE TO THIS ACTIVITY

Commodity Type	Throughput (Units)							
	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Total:								

Table 1.1.b: Historic and Predicted Depot/Industrial Workload

NOT APPLICABLE TO THIS ACTIVITY

Commodity Type	Throughput (Units)							
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total:								

Table 1.1.c: Historic and Predicted Depot/Industrial Workload

NOT APPLICABLE TO THIS ACTIVITY

Commodity Type	Throughput (DLMHs)							
	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Total:								

Table 1.1.d: Historic and Predicted Depot/Industrial Workload

NOT APPLICABLE TO THIS ACTIVITY

Commodity Type	Throughput (DLMHs)							
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total:								

1.2 For each commodity type reported in Tables 1.1.a through 1.1.d, assume (a) the current projected total depot / industrial workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which depot / industrial maintenance operations could be expanded at this activity, based on the current and future planned workload mixes, for the requested period? Please provide your response in both the absolute maximum number of units and DLMHs that could be processed at this activity by applicable commodity group. Add additional rows as necessary to accommodate all commodity types serviced at this activity.

Table 1.2.a: Maximum Potential Depot/Industrial Workload

NOT APPLICABLE TO THIS ACTIVITY

Commodity Type	Throughput (Units)						
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total:							

Table 1.2.b: Maximum Potential Depot/Industrial Workload

NOT APPLICABLE TO THIS ACTIVITY

Commodity Type	Throughput (DLMHs)							
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total:								

1.3 Provide details of your calculations including assumptions on additional space utilized, major equipment required, production rates, and constraints that limit increased workload by commodity group at this activity.

NOT APPLICABLE TO THIS ACTIVITY

1.4 Given an environment unconstrained by funds or manning, what Industrial Plant Equipment (IPE) would you change (add, delete, or modify) to increase your activity's capability to perform workload in each of the applicable commodity groups? Describe quantitatively how the changes above would increase your activity's depot/industrial level maintenance capabilities. What would the associated costs be? What would be the payback period and return on investment?

NOT APPLICABLE TO THIS ACTIVITY

1.5 Are there any environmental, legal, or otherwise limiting factors that inhibit further the development of depot/industrial level workload and this activity (AICUZ encroachment, pollutant discharge, etc.)?

NOT APPLICABLE TO THIS ACTIVITY

2. Workload Summary

2.1 Enter the information from the Predicted and Potential Workload sections of the previous question into the table below and calculate the variance between projected and potential workloads. Again, clearly identify each commodity and include all commodities serviced at this activity.

Table 2.1.a: PREDICTED WORKLOAD VARIANCE FOR FY 1995

NOT APPLICABLE TO THIS ACTIVITY

FY 1995 Commodity Type	Product (units)			DLMHs		
	Predicted Workload	Potential Workload	Variance	Predicted Workload	Potential Workload	Variance
Total	N / A	N / A	N / A			

¹ This workload is not duplicative of any previously reported workload. Detail all production categorized as "other".

Table 2.1.b: PREDICTED WORKLOAD VARIANCE FOR FY 1996

NOT APPLICABLE TO THIS ACTIVITY

FY 1996 Commodity Type	Product (units)			DLMHs		
	Predicted Workload	Potential Workload	Variance	Predicted Workload	Potential Workload	Variance
Total	N / A	N / A	N / A			

¹ This workload is not duplicative of any previously reported workload. Detail all production categorized as "other".

Table 2.1.c: PREDICTED WORKLOAD VARIANCE FOR FY 1997

NOT APPLICABLE TO THIS ACTIVITY

FY 1997 Commodity Type	Product (units)			DLMHs		
	Predicted Workload	Potential Workload	Variance	Predicted Workload	Potential Workload	Variance
Total	N / A	N / A	N / A			

¹ This workload is not duplicative of any previously reported workload. Detail all production categorized as "other".

Table 2.1.d: PREDICTED WORKLOAD VARIANCE FOR FY 1998

NOT APPLICABLE TO THIS ACTIVITY

FY 1998 Commodity Type	Product (units)			DLMHs		
	Predicted Workload	Potential Workload	Variance	Predicted Workload	Potential Workload	Variance
Total	N / A	N / A	N / A			

¹ This workload is not duplicative of any previously reported workload. Detail all production categorized as "other".

Table 2.1.e: PREDICTED WORKLOAD VARIANCE FOR FY 1999

NOT APPLICABLE TO THIS ACTIVITY

Commodity Type <i>FY 1999</i>	Product (units)			DLMHs		
	Predicted Workload	Potential Workload	Variance	Predicted Workload	Potential Workload	Variance
Total	N / A	N / A	N / A			

¹ This workload is not duplicative of any previously reported workload. Detail all production categorized as "other".

Table 2.1.f: PREDICTED WORKLOAD VARIANCE FOR FY 2000

NOT APPLICABLE TO THIS ACTIVITY

Commodity Type <i>FY 2000</i>	Product (units)			DLMHs		
	Predicted Workload	Potential Workload	Variance	Predicted Workload	Potential Workload	Variance
Total	N / A	N / A	N / A			

¹ This workload is not duplicative of any previously reported workload. Detail all production categorized as "other".

Table 2.1.g: PREDICTED WORKLOAD VARIANCE FOR FY 2001

NOT APPLICABLE TO THIS ACTIVITY

FY 2001 Commodity Type	Product (units)			DLMHs		
	Predicted Workload	Potential Workload	Variance	Predicted Workload	Potential Workload	Variance
Total	N / A	N / A	N / A			

¹ This workload is not duplicative of any previously reported workload. Detail all production categorized as "other".

PART II: HEADQUARTERS (MAJOR OWNERS & OPERATORS)

1. Interservicing Candidates

1.1 Specify all depot and/or industrial workload programs, performed by any of your activities, that are possible candidates for interservicing, *both* in to and out from the activity. Provide detailed supporting data for your recommendations.

NOT APPLICABLE TO THIS ACTIVITY

2. Core Requirements

NOT APPLICABLE TO THIS ACTIVITY

2.1 Given the current programmed configuration and operation for these activities, provide the projected Core Workload, Directed workload, Core "Plus" Workload, and Workload required to be retained to meet the Secretary of the Navy's Title 10 responsibilities. Within each Fiscal Year (FY) requested, provide your response in Units of throughput (where applicable) and Direct Labor Man Hours (DLMHs) for the categories in the following Tables. Core workload includes all Core work performed for other Military Departments (please specify such work within each commodity category).

- Core workload calculations are to be performed in accordance with the Office of the Under Secretary of Defense (Logistics) (OUSD(L)) Memorandum dated 15 November 1993 (subject: "Policy for Maintaining Core Depot Maintenance Capability").
- Directed workload includes: Foreign Military Sales (FMS); Low Quantity Non-Core; Low Quantity Above Core; Best Value; Engineering Support; and Last Source of Repair. Directed workload is tabulated in Section 2.2, following.
- Core-Plus workload is the sum of Core workload and Directed workload.
- Title 10 workload is that portion of Core workload that must be retained within the Department of the Navy in order to meet the Secretary of the Navy's Title 10 responsibilities.

Table 2.1.a: Workload Requirements FY 1993

NOT APPLICABLE TO THIS ACTIVITY

<i>FY 1993</i>	Core Workload (DLMHs)			
Commodity Type	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

Table 2.1.b: Workload Requirements FY 1994

NOT APPLICABLE TO THIS ACTIVITY

<i>FY 1994</i>	Core Workload (DLMHs)			
Commodity Type	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

Table 2.1.c: Workload Requirements FY 1995

NOT APPLICABLE TO THIS ACTIVITY

<i>FY 1995</i>	Core Workload (DLMHs)			
Commodity Type	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

Table 2.1.d: Workload Requirements FY 1996

NOT APPLICABLE TO THIS ACTIVITY

<i>FY 1996</i>	Core Workload (DLMHs)			
Commodity Type	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

Table 2.1.e: Workload Requirements FY 1997

NOT APPLICABLE TO THIS ACTIVITY

<i>FY 1997</i>	Core Workload (DLMHs)			
Commodity Type	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

Table 2.1.f: Workload Requirements FY 1998

NOT APPLICABLE TO THIS ACTIVITY

<i>FY 1998</i>	Core Workload (DLMHs)			
Commodity Type	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

Table 2.1.g: Workload Requirements FY 1999

NOT APPLICABLE TO THIS ACTIVITY

<i>FY 1999</i>	Core Workload (DLMHs)			
Commodity Type	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

Table 2.1.h: Workload Requirements FY 2000

NOT APPLICABLE TO THIS ACTIVITY

<i>FY 2000</i>	Core Workload (DLMHs)			
Commodity Type	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

Table 2.1.i: Workload Requirements FY 2001

NOT APPLICABLE TO THIS ACTIVITY

FY 2001 Commodity Type	Core Workload (DLMHs)			
	Core Workload	Directed Workload	Core "Plus" Workload	Title 10 Workload
Total:				

2.2 Given the current programmed configuration and operation of the NADEPs, provide the projected Directed Workload. Within each Fiscal Year (FY) requested, provide your response in units throughput (where available) and Direct Labor Man Hours (DLMHs) for the categories requested.

- Foreign Military Sales (FMS) include airframe, engine and component maintenance and manufacturing support.
- Modifications (Mods) include *only those modifications* performed concurrently with scheduled depot level work packages constituting Core workload.
- Low Quantity Non-Core (LQNC) is that Non-Core workload with insufficient programmed quantity for competition. This category also includes above threshold Core workload for weapons systems which have a total projected workload greater than the computed core quantity (above core workload).
- Best Value (BV) includes items that have been offered for maintenance under competitive rules and no offerer has provided a bid that is equal to or better than the value provided by a current organic source.
- Engineering Support (Engr) consists of Engineering Support to field, modify, operate, and maintain aviation weapon systems (i.e. RCM analysis, defining maintenance intervals, developing

maintenance concepts, modification management, industrial support, investigations, bulletins and flight safety, and environmental issues).

- Last Source of Repair (LSOR) comprises Non-Core workload which has been offered for maintenance under competitive rules and no offerer has provided a bid, and for which a workload requirement exists and the organic depot is the only remaining source of repair.

Table 2.2.a: Directed Workloads - FY 1993

NOT APPLICABLE TO THIS ACTIVITY

FY 1993 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 1993 Total:							

Table 2.2.b: Directed Workloads - FY 1994

NOT APPLICABLE TO THIS ACTIVITY

FY 1994 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 1994 Total:							

Table 2.2.c: Directed Workloads - FY 1995

NOT APPLICABLE TO THIS ACTIVITY

FY 1995 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 1995 Total:							

Table 2.2.d: Directed Workloads - FY 1996

NOT APPLICABLE TO THIS ACTIVITY

FY 1996 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 1996 Total:							

Table 2.2.e: Directed Workloads - FY 1997

NOT APPLICABLE TO THIS ACTIVITY

FY 1997 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 1997 Total:							

Table 2.2.f: Directed Workloads - FY 1998

NOT APPLICABLE TO THIS ACTIVITY

FY 1993 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 1998 Total:							

Table 2.2.g: Directed Workloads - FY 1999

NOT APPLICABLE TO THIS ACTIVITY

FY 1999 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 1999 Total:							

Table 2.2h Directed Workload for FY 2000

NOT APPLICABLE TO THIS ACTIVITY

FY 2000 Commodity	Unit Throughputs						Total
	FMS	MODE	LQNC	BV	ENGR	LSOR	
FY 2000 Total:							

Table 2.2.i: Directed Workloads - FY 2001

NOT APPLICABLE TO THIS ACTIVITY

FY 2001 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 2001 Total:							

3.Organization

3.1 Can the depot/industrial level workload be transferred to other sources such as other Navy activities, interservice to other DoD entities, or outsourced to commercial activities? Identify all applicable considerations to your recommendations.

NOT APPLICABLE TO THIS ACTIVITY

TAB D

ORDNANCE STORAGE CAPACITY

TAB C

Page 81 of 84

UIC: N66596

ORDNANCE STORAGE CAPACITY

Please answer the following questions if your activity performs any stowage or maintenance on any of the following ordnance commodities types:

1. Ordnance Stowage and Support

1.1 Provide present and predicted inventories (coordinate with inventory control manager) and maximum rated capability of all stowage facilities at each weapons storage location controlled by this activity. In predicting the out year facility utilization, distribute overall ordnance compliment to the most likely configuration. The maximum rated capability is also an out year projection taking into account any known or programmed upgrades that may increase current stowage capacity. When listing stowage facilities, group by location (e.g. main base, outlying field, special area).

Table 1.1: Total Facility Ordnance Stowage Summary

NOT APPLICABLE TO THIS ACTIVITY

Facility Number	PRESENT INVENTORY		PREDICTED INVENTORY FY 2001		MAXIMUM RATED CAPABILITY	
	TONS	SQ FT	TONS	SQ FT	TONS	SQ FT
TOTAL						

1.2 For each Stowage facility identified in question 1.1 above, identify the type of facility (specify if "igloo", "box", etc.). Identify the type of ordnance commodity (from the list above) which are currently stowed in that facility and all other ordnance types which, given existing restrictions, could be physically accommodated in that stowage facility. Specify below if such additional accommodation would require a modification of the facility (e.g. enhanced environmental controls, ESQD waiver).

- Identify the reason(s) for which this ordnance is stored at your facility from the following list: own activity use (training); own activity use (operational stock); Receipt/Segregation/ Stowage/Issue (RSSI); transshipment/awaiting issue; deep stow (war reserve); deep stow (awaiting Demil); other. Explain each "other" entry in the space provided, including ordnance stowed which is not a DON asset.

Table 1.2: Total Facility Ordnance Stowage Summary

NOT APPLICABLE TO THIS ACTIVITY

Facility Number/Type	Currently Stowed Commodity Type(s)	Reason for Stowage at your Activity	Commodity Type(s) Which Can Be Stowed

Additional comments:

1.3 Identify the rated category, rated NEW and status of ESQD arc for each stowage facility listed above.

Table 1.3: Facility Rated Status

NOT APPLICABLE TO THIS ACTIVITY

Facility Number / Type	Hazard Rating (1.1-1.4)	Rated NEW	ESQD Arc		
			Established (Y / N)	Waiver (Y / N)	Waiver Expiration Date

1.4 Identify any restrictions which prevent maximum utilization of your facilities. If restrictions are based on facility conditions, specify reason, the cost to correct the deficiency, and identify any programmed projects that will correct the deficiency and/or increase your capability.

NOT APPLICABLE TO THIS ACTIVITY

1.5 Identify if your activity performs any of the following functions on any of the ordnance commodities previously listed. Technical support includes planning, financial, administrative, process engineering and SOP support. Within each related function identify each ordnance commodity type for which you provide these services and the total Direct Labor Man Hours (DLMHs) expended (FY 1994); identify only those DLMHs expended by personnel under your command.

Table 1.5: Related Ordnance Support

NOT APPLICABLE TO THIS ACTIVITY

Related Functions	Performed? (Y / N)	Type of Commodity	DLMHs
Maintenance (specify level)			
Testing			
Manufacturing			
Outload			
Technical Support			

TAB D

Page ____ of ____

UIC: _____

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

E. T. FLYNN, CAPT, MC, USN

NAME (Please type or print)

COMMANDING OFFICER

Title
Naval Medical Research and
Development Command

Activity

E. T. Flynn
Signature

12 MAY 94
Date

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Title

Activity

Signature

Date

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

RADM R. I. RIDENOUR

NAME (Please type or print)

ACTING CHIEF BUMED

Title

BUREAU OF MEDICINE AND SURGERY

Activity

R. I. Ridenour
Signature

5-16-94
Date

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

J. B. Greene, Jr.

NAME (Please type or print)

Acting
Title

J. B. Greene Jr.
Signature

27 May 1994
Date

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to this package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

CAPT P. K. WEATHERSBY, MSC, USN
NAME (Please type or print)

PK Weathersby
Signature

COMMANDING OFFICER
Title

3 May 94
Date

Naval Submarine Medical Research Laboratory, Groton, CT
Activity

Document Separator

MILITARY VALUE DATA CALL

TECHNICAL CENTERS

Category	RESEARCH
Technical Center Site	NAVSUBMEDRSCHLAB
Location/Address	SUBASE, GROTON, CT

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2. Joint Service Missions	1
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MILITARY VALUE MEASURES

MISSION

1. **Mission Statement.** State the officially assigned mission of this activity and cite the reference document(s) that assigns the mission. **NSMRLINST 5450.1G**

Current Mission: Provide timely, high quality R&D to the Submarine force to enhance auditory and visual sonar operator performance, submariner health and physical standards, closed environment atmospheric monitoring, submarine escape and rescue, and hearing conservation both in air and under the sea. NSMRL's specific research efforts include:

- ▶ Sonar Display Enhancements, including development of headsets, analog and digital signal processing techniques, sonar and tactical displays including applications of virtual auditory and visual reality techniques; to maximize the intelligent, efficient use of man's visual and auditory systems.
- ▶ Submarine Escape and Rescue, developing decision guidelines for survivors based upon physiological, engineering and operational factors, performing studies as necessary to address data gaps and providing guidance to operational commanders in establishing procedures and equipment for escape and rescue.
- ▶ Submarine Clinical Issues, reducing the loss of talented personnel by instituting data-based decisions on Submarine Disqual/Waivers for conditions of kidney stones and asthma.
- ▶ Hearing Conservation, developing guidelines for diver safe exposure limits to underwater noise from tools and sonars; exploring the use of evoked otoacoustic emissions to detect the early stages of hearing loss
- ▶ Tactical Displays, providing ways to enhance operator performance by applying our knowledge of the human sensory systems, specifically using color, symbology, highlighting cues, orientation, and default presentations.
- ▶ Psychiatric Screening of all enlisted and officer submarine candidates undergoing training at Basic Enlisted Submarine School and Submarine officers Basic Course.
- ▶ Submarine Atmospheres, develop, maintain data base of submarine atmosphere constituents from varied data sources, answer such health questions as arise from data, and recommend better submarine atmospheric monitoring and control

2. **Joint Service Missions.** State any officially assigned joint/lead service assignments missions and cite the document(s) that assigned them. **NOT APPLICABLE**

TECHNICAL FUNCTIONS

3. **Technical Functions Resource Allocations.** Appendix A provides a list of numbered functional support areas that cover the spectrum of naval warfare and support operations. Additionally, Appendix A provides a list of numbered life-cycle work areas that cover the "cradle to grave" spectrum of Navy systems acquisition. Utilizing the two lists at Appendix A, each activity will break out its entire FY1993 technical program within any applicable intersections of these two defining schemes (for example, functional support area #5.2 - life cycle work area #3 will identify the activity's level of resources allocated to sensors and surveillance systems, radar systems in advanced development). Definitions for each functional support and life cycle work area are provided in Appendix B for reference.

a. Use the form at Tab A of this data call to provide data on work years and expenditures for FY1993 to support each applicable intersection of functional support areas and life cycle work areas. When necessary, estimate data to the best of your ability

b. Similarly, use the Tab A forms to report separately on your detachments or sites that have not received this data call directly. This data may be consolidated when the detachments or sites perform work in the same area. When necessary, estimate data to the best of your ability.

**TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA/LIFE CYCLE WORK AREA FORM**

Technical Center Site	NSMRL, GROTON, CT
Functional Support Area	5.1 Sonar Systems
Life Cycle Work Area	15. Program Support

VISUAL, AUDITORY AND DIGITAL SONAR

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 9.25 WYS

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. \$(K) 1203

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. **Do not** include direct cite funding. \$(K) 155

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. \$(K) 24

Note:

In-House Expenditures - Is comprised of the total obligation authority for direct labor, direct material, direct travel, direct equipment, direct computer support, other direct support services and all overhead.

Out-of-House Expenditures - Is comprised of total obligational authority for direct work (customer funded, mission oriented) performed or to be performed by other than the organizational entity. Out-of-house performers may include other departmental or DoD organizational entities, industrial firms, educational institutions, not-for-profit institutions and private individuals.

**TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA/LIFE CYCLE WORK AREA FORM**

Technical Center Site	NSMRL, GROTON, CT
Functional Support Area	10.6.4 Medical Research and Combat Casualty Care
Life Cycle Work Area	1. Basic Research

OTO-ACOUSTIC EMISSIONS (EOAE)

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 1.125 WYS

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. **\$(K) 116**

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. **Do not include direct cite funding.**
\$(K) 0

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. **\$(K) 0**

**TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA/LIFE CYCLE WORK AREA FORM**

Technical Center Site	NSMRL, GROTON, CT
Functional Support Area	10.6.4 Medical Research and Combat Casualty Care
Life Cycle Work Area	3. Advanced Development

DIET/KIDNEY STONE/PRE-ATD/USMC EQUIP

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 6.625 WYS

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. **\$(K) 719**

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. Do not include direct cite funding. **\$(K) 137**

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. **\$(K) 24**

**TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA/LIFE CYCLE WORK AREA FORM**

Technical Center Site	NSMRL, GROTON, CT
Functional Support Area	10.4 Diving, Salvage and Ocean Engineering
Life Cycle Work Area	3. Advanced Development

SUBMARINE DECOMPRESSION/HEARING CONSERVATION

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 13.625WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. \$(K) 1154

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. Do not include direct cite funding. \$(K) 18

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. \$(K) 67

**TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA/LIFE CYCLE WORK AREA FORM**

Technical Center Site	NSMRL, GROTON, CT
Functional Support Area	10.1.1 Submarine Related Training Systems
Life Cycle Work Area	17. Training & Operational Support

SUB SCREEN

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 1.125 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. **\$(K) 125**

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. Do not include direct cite funding. **\$(K) 0**

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. **\$(K) 0**

**TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA/LIFE CYCLE WORK AREA FORM**

Technical Center Site	NSMRL, GROTON, CT
Functional Support Area	7.4 Land Based C ³ I
Life Cycle Work Area	10. Program Support

COAST GUARD

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 1 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. \$(K) 5

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. Do not include direct cite funding. \$(K) 0

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. \$(K) 0

**TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA/LIFE CYCLE WORK AREA FORM**

Technical Center Site	NSMRL, GROTON, CT
Functional Support Area	5.1 Sonar Systems
Life Cycle Work Area	10. Program Support

LOW FREQUENCY ACTIVE

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 7.25WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. **\$(K) 464**

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. **Do not** include direct cite funding. **\$(K) 443**

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. **\$(K) 8**

**TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA/LIFE CYCLE WORK AREA FORM**

Technical Center Site	NSMRL, GROTON, CT
Functional Support Area	10.6.4 Medical Research and Combat Casualty Care
Life Cycle Work Area	4. RET&E Management Support

REFLUPS

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. .2 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. \$(K) 20

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. Do not include direct cite funding. \$(K) 0

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. \$(K) 0

**TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA/LIFE CYCLE WORK AREA FORM**

Technical Center Site	NSMRL, GROTON, CT
Functional Support Area	3.4 Multiplatform Combat System Integration
Life Cycle Work Area	3. Advanced Development

NCCOSC

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. .875 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. **\$(K) 102**

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. **Do not** include direct cite funding. **\$(K) 7**

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. **\$(K) 0**

**TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA/LIFE CYCLE WORK AREA FORM**

Technical Center Site	NSMRL, GROTON, CT
Functional Support Area	10.6.4 Medical Research and Combat Casualty Care
Life Cycle Work Area	2. Exploratory Development

AURAL ENHANCEMENT/IED

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 1.75 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. \$(K) 124

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 for this functional support area - life cycle work area. Do not include direct cite funding. \$(K) 145

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. \$(K) 0

MANPOWER

4. Work Breakdown Structure.

a. Use Table 4.1 (below) to provide data on the general support functions at your activity. Report data as of 31 March 1994. If you are collocated with one of your subordinate base keeper commands (i.e., a NAWS or NAS collocated with a NAWC Division), describe the differences in the functions of each and provide a separate Table 4.1 for the subordinate command. Include this command in the Table 4.1 submission for your Activity.

b. Similarly, use Table 4.2 (below) to provide general support function data for all your detachments or sites that did not receive this data call directly. Consolidate data from all of these detachments into one table (4.2). Provide a list of the detachments whose data is included in Table 4.2. For each identified detachment in this list, include its name, location, UIC, and number of civilian and military personnel onboard.

In addition, if any of your detachments or separate sites not receiving an individual data call have over 50 civilian personnel or own technical facilities, provide separately a description of the site, the functions performed there, photographs showing the facilities and state the reason for that site's existence and the necessity for it to be at that location.

c. Use Table 4.3 (below) to provide estimated data, for your activity only, to reflect the anticipated impact of previous BRAC decisions that have not yet been implemented. This data should provide the deltas from Table 4.1.

NOTES:

[1] Use the following definitions when providing data for the tables below:

Workyears: Consistent with those used in the preparation of inputs to the President's budget.

Contract Workyears: Actual or estimated workyears performed by support contractors with workyears defined consistent with the definition used in the President's budget.

Civilian Personnel Onboard: Full Time Permanent (FTP) employees.

[2] Any categories of personnel that are employed to support other Activities should be noted with the name of the additional Activity supported.

**Table 4.1, General Support Resources for
(Activity: NAVAL SUBMARINE MEDICAL RESEARCH LABORATORY) (UIC: N66596)**

Function	Space allocated (Gross SQFT)	Work Years	Civilian Persnel onboard	Contract Work Years	Military Personnel Onboard	
					Off	Enl
ADMINISTRATION						
Command (CO/XO/TD/etc.)	525	2.5	1	0	1.5	0
Comptroller	320	2.6	2	0	.6	0
Admin	420	2.5	0	0	1	1.5
Human Resources	0	0	0	0	0	0
OPERATIONS SUPPORT						
Supply Management	444	2.4	1	0	.4	1
Consolidated Computational Computer Support	480	2	1	0	0	1
Information Systems and Communications	0	0	0	0	0	0
Safety/OSH/Environmental	270	.4	.4	0	0	0
INFRASTRUCTURE						
Physical Security	0	0	0	0	0	0
Public Works/Staff Civil Engr	0	0	0	0	0	0
Fire Protection	0	0	0	0	0	0
Medical/Dental	0	0	0	0	0	0
Military Support	0	0	0	0	0	0
Air/Waterfront Operations	0	0	0	0	0	0
Other	0	3	3	0	0	0
TECHNICAL STAFF						
Technical Operations		48.6	25.6	3	7.5	12.5
Totals	2459	64	34	3	11	16

**Table 4.2, General Support Resources for all Detachments (Activity: NSMRL)
(UIC: N66596) **Not Applicable****

Function	Space allocated (Gross SQFT)	Work Years	Civilian Persnel onboard	Contract Work Years	Military Personnel Onboard	
					Off	Enl
ADMINISTRATION						
Command (CO/ XO/ TD/etc.)						
Comptroller						
Admin						
Human Resources						
OPERATIONS SUPPORT						
Supply Management						
Consolidated Computational Computer Support						
Information Systems and Communications						
Safety/OSH/Environmental						
INFRASTRUCTURE						
Physical Security						
Public Works/Staff Civil Engr						
Fire Protection						
Medical/Dental						
Military Support						
Air/Waterfront Operations						
TECHNICAL STAFF						
Technical Operations						
Totals						

**Table 4.3, Previous BRAC Impact to General Support Resources for (Activity: NSMRL)
(UIC: N66596) NOT APPLICABLE TO THIS ACTIVITY**

Function	Space allocated (Gross SQFT)	Work Years	Civilian Persnel onboard	Contract Work Years	Military Personnel Onboard	
					Off	Enl
ADMINISTRATION						
Command (CO/XO/ TD/etc.)						
Comptroller						
Admin						
Human Resources						
OPERATIONS SUPPORT						
Supply Management						
Consolidated Computational Computer Support						
Information Systems and Communications						
Safety/OSH/Environmental						
INFRASTRUCTURE						
Physical Security						
Public Works/Staff Civil Engr						
Fire Protection						
Medical/Dental						
Military Support						
Air/Waterfront Operations						
TECHNICAL STAFF						
Technical Operations						
Totals						

5. Technical Staff Qualifications.

a. Use Table 5.1 (below) to provide data on the civilian personnel allocated to Technical Operations having the educational and experience levels indicated in the table for your activity. Report data as of 31 March 1994. Similarly, use Table 5.2 (below) to provide data for all your separate detachments or sites that did not receive this data call directly. Consolidate data from all of these detachments into one table (5.2). Provide a list of the detachments whose data is included in Table 5.2.

Table 5.1, Technical Staff Education Level for (Activity: NSMRL) (U: N66596)

Highest Degree Attained	Years of Government and/or Military Service					Total
	Less than 3 Years	3-10 Years	11-15 Years	16-20 Years	More than 20 Years	
Grade School					1	1
High School	2	1	2		1	6
B.A./B.S	3	2			1	6
M.A./M.S		1			3	4
Ph.D./M.D.	2	3		1	2	8
Total	7	7	2	1	8	25

****** There are 9 military officers (4 MDs and 5 PHDs) on staff not shown in this table who greatly increase the scientific and research capability of this laboratory.**

Table 5.2, Technical Staff Education Level for all Detachments
 (Parent Activity: _____) (UIC: _____)

NOT APPLICABLE TO THIS ACTIVITY

Highest Degree Attained	Years of Government and/or Military Service					Total
	Less than 3 Years	3-10 Years	11-15 Years	16-20 Years	More than 20 Years	
Grade School						
High School						
B.A./B.S						
M.A./M.S						
Ph.D./ M.D.						
Total						

R

allocated to Technical Operations with graduate degrees and at least three years of applicable experience that have their highest degree in the fields indicated. Report data as of 31 March 1994. Similarly, use Table 5.4 (below) to provide data for all your separate detachments or sites that did not receive this data call directly. Consolidate data from all of these detachments into one table (5.4). Provide a list of the detachments whose data is included in Table 5.4

**Table 5.3, Technical Staff Academic Fields for
(Activity: NSMRL) (UIC: N66596)**

Academic field	Number - Civilian/Military		
Physics	0 R	/	0
Chemistry	0	/	0
Biology	0 R	/	2
Mathematics/Statistics/ Operations Research	0	/	0
Engineering	1 R	/	1
Medical	0	/	4
Dental	0	/	0
Computer Science	1	/	0
Social Science	7 R	/	2
Other Science	0	/	0
Non-Science	1	/	0
Total	10 R	/	9

R
↓

b. Use Table 5.3 (below) to provide data on the number of civilian personnel allocated to Technical Operations with graduate degrees and at least three years of applicable experience that have their highest degree in the fields indicated. Report data as of 31 March 1994. Similarly, use Table 5.4 (below) to provide data for all your separate detachments or sites that did not receive this data call directly. Consolidate data from all of these detachments into one table (5.4). Provide a list of the detachments whose data is included in Table 5.4

**Table 5.3, Technical Staff Academic Fields for
(Activity: NSMRL) (UIC: N66596)**

Academic field	Number - Civilian/Military	
Physics	1	/ 0
Chemistry	0	/ 0
Biology	1	/ 2
Mathematics/Statistics/ Operations Research	0	/ 0
Engineering	3	/ 1
Medical	0	/ 4
Dental	0	/ 0
Computer Science	1	/ 0
Social Science	11	/ 2
Other Science	0	/ 0
Non-Science	1	/ 0
Total	18	/ 9

Table 5.4, Technical Staff Academic Fields for all Detachments
 (Parent Activity: _____) (UIC: _____)

NOT APPLICABLE TO THIS ACTIVITY

Academic field	Number
Physics	
Chemistry	
Biology	
Mathematics/Statistics/ Operations Research	
Engineering	
Medical	
Dental	
Computer Science	
Social Science	
Other Science	
Non-Science	
Total	

c. Are there unique aspects of the activity's location that help or hinder in the hiring of qualified personnel? **The cost of living is high, but there has not been a great deal of difficulty in hiring when authorized and necessary.**

d. List all articles written by the in-house technical staff that were published or accepted for publication in refereed journals since 1 January 1990.

Journals

American Psychol.

More about psychology and the military. S. Luria. Feb 1990. Vol 45(2) pp. 296-297.

Aviation Space and Environmental Medicine

The effect of hypoxia on psychomotor performance during graded exercise. D. Knight, C. Schlichting, J. Dougherty, A. Messier, and D. Tappan. 1991, 17(3), 223-229.

Moderate cold exposure shortens evoked potential latencies in humans. K. Van Orden, S. Ahlers, J. Thomas, J. House, and J. Schrot. 1990, 61, 636-639.

Clinical Vision & Sciences

Age-related amplitude changes of the pattern reversal evoked potential depend on stimulus spatial frequency and contrast. K. Van Orden and J. Sturr. 1990, 6, 31-37.

Ergonomics in Design

Vision and displays: Making the most of parallel processing. T. Santoro, K. Laxar, and S. Luria. 1994. pp 10-15.

Human Factors Journal

Spatial and spectral release from masking in three dimensional auditory displays. T. Doll and T. Hanna. May 1993.

Masking in three-dimensional auditory displays. T. Doll, T. Hanna, and J. Russotti. Jun 1992. 34(3) pp. 255-65.

The redundant use of brightness and flashing with shape and color as highlighting codes in symbolic displays. K. Van Orden, J. DiVita, and M. Shim. June 1993. 35(2). pp. 195-204.

Flashing stimuli and viewing discomfort. K. Laxar and S. Luria. Oct 1992.

Journal of the Acoustical Society of America

Field calibration of two types of microphones in hyperbaric air. P. Smith, S. Carpenter, and J. Green. Jan 1990.

An interleaved tracking procedure to monitor unstable psychometric functions. M. R. Leek, T. E. Hanna, and L. Marshall. 1990, 90 (2) pp. 1385-1397.

Human efficiency for visual detection of targets on CRT displays using a two-level multiple-channel time history format. J. DiVita and T. Hanna. May 1992. 91(3) pp. 1552-64.

Modulation-rate perception: Discrimination and identification of modulation rate using a noise carrier. T. Hanna. April 1992. 91(4) pp. 2122-28.

Journal of Applied Physiology

How countercurrent blood flow and uneven perfusion affect the motion of inert gas. L. Homer, P. Weathersby, and S. Survanshi. 1990. 69(1) pp. 162-70.

Adrenergic response to cognitive activity in a cold environment. J. Thomas, S. Ahlers, J. Schrot, J. House, K. Van Orden, and R. Hesslink. March 1990. 68(3) pp. 962-66.

Predicting the time of occurrence of decompression sickness. P. Weathersby, S. Survanshi, L. Homer, E. Parker, and E. Thalmann. April 1992. 72(4) pp. 1541-48.

Journal of Neuroscience Methods

Age-related features of the resting and P300 auditory evoked responses using the dipole localization method and cortical imaging technique. R. Sidman, M. Ford, G. Ramsey, and C. Schlichting. July 1990. 33(1) pp. 23-32.

Age-related features of the resting pattern-reversal visual evoked response using Dipole Source Localization method and cortical imaging technique. R. D. Sidman, D. J. Major, M. R. Ford, G. G. Ramsey, and C. L. Schlichting. March 1991. 37(1) pp. 27-36.

Journal of Gerontology

Decision criteria for pure-tone detection used by two age groups of normal-hearing and hearing impaired elderly listeners for pure-tone detection. L. Marshall. 1991, 46(2) pp. 67-70.

Military Medicine

Predicting percent body fat from circumference measurements. C. Shake, C. Schlichting, L. Mooney, A. Callahan, and M. Cohen. Jan 1993. 158(1) pp. 26-31.

Optometry and Visual Science

Predicting visual acuity from detection thresholds. J. Newacheck, Haegerstrom-Portnoy, and A. Adams. March 1990. 67(3) pp.184-91.

Perception

The effect of defocussing the image on the perception of the temporal order of flashing lights. S. Luria and J. Newacheck. 1992. 21(3) pp. 359-63.

Perception & Psychophysics

Estimation of psychometric functions from adaptive tracking procedures. M. Leek, T. Hanna, and L. Marshall. 1992. 51(3) pp. 247-56.

Psychometric function re-construction from 2AFC, 3AFC, and 4AFC adaptive tracking procedures. (In press).

Perceptual & Motor Skills

The effect of luminance on the perception of temporal order of flashing lights. S. Luria. December 1990. 71(3 pt 2) pp. 115-19.

Psychopharmacology

Diphenhydramine increases the intra-subject variability of event related potential (ERP) amplitudes. K. Van Orden, Schrot, and Thomas.

The Lancet

Effects of sunlight deprivation on vitamin D metabolism in the submarine environment. D. Dlugos, P. Perrotta, and W. Horn. Jun 1993

Transportation research record

Judging a ship's lateral position and direction of motion with simulated visual aids to navigation. Transportation Research Record, NO. 1316: Visibility for Airways,

REPORTS

- 1153 Field calibration of two types of microphones in hyperbaric air. Smith, P. F. Carpenter, S., and Green, J. 1990.
- 1154 Effect of extraneous color-coded targets on identification of targets on CRT displays. S. Luria, D. Neri, M. Shim, and Bivenour. 1990.
- 1155 Perception of temporal order of flashing lights as a navigation aid. S. Luria. 1990.
- 1156 A computer assisted program for the management of acute dental pain -- Programmer's Manual. C. Burgess-Russotti. 1990.
- 1157 Frequency of a flashing light as a navigational aid. K. Laxar and S. Luria. 1990.
- 1158 A portable ECG recorder for shipboard use. Ryack, B. 1990.
- 1160 Target detection on a waterfall display with the target bearing delineated with a straight edge. S. Luria, J. DiVita, and M. Shim. 1990.
- 1161 Preliminary investigations on the utility of saturation and brightness as redundant and non-redundant codes with hue in tactical displays. K. Van Orden, J. DiVita, and M. Shim. 1990.
- 1162 A clinical test of a computer diagnosis program. S. Luria, D. Southerland, and D. Stetson. 1990.
- 1163 The effectiveness of a color-saturation beacon as a navigational range indicator. K. Laxar and S. Luria. 1990.
- 1164 Identification of color coded target lines of different orientations on CRT screens. S. Luria, D. Neri, and M. Shim. 1990.
- 1165 Contributions of envelope information to classification of brief sounds. T. E. Hanna. 1990.
- 1166 Identification of the bandwidth required for auditory sonar. L. Marshall. 1991.
- 1167 The medical hazards of flame suppressant atmospheres. D. R. Knight. 1991.
- 1168 A comparison of simulated parallax and single-station aids to navigation: Final Report. K. Laxar, S. Luria, and Mandler. 1991.

- 1990.
- 1166 Identification of the bandwidth required for auditory sonar. L. Marshall. 1991.
- 1167 The medical hazards of flame suppressant atmospheres. D. R. Knight. 1991.
- 1168 A comparison of simulated parallax and single-station aids to navigation: Final Report. K. Laxar, S. Luria, and Mandler. 1991.
- 1169 Sonar Technician's Ratings. M. Nash and L. Marshall. 1990.
- 1170 The effect of blinking on subsequent dark adaptation. S. Luria. 1991.
- 1171 Narrowband and broadband envelope cues for aural classification. T. E. Hanna and Y. Masakowski. 1991.
- 1172 A comparison of the usability of three versions of a computerized medical diagnostic assistance program for abdominal pain. E. Chouinard, B. Ryack, and D. Stetson. 1991.
- 1173 Computer aided ocular assessment: Programmer's Manual. J. Newacheck. 1991.
- 1174 Frequency of color names for colors generated on a CRT. J. Divita, D. Neri, and M. Shim. 1991.
- 1175 An evaluation of alternative maritime tactical display formats I: Visual search. K. Van Orden, Osga, and Lauben. 1991.
- 1176 Effect on target detection of isolating the target bearing area on a waterfall display with a neutral filter. S. Luria, J. DiVita, and K. Johnson. 1991.
- 1177 A clinical test of the computer-supported treatment and consultation for emotional crisis program (CATCEC). B. Ryack, E. Noddin, D. Stetson, and S. M. Luria. 1992.
- 1178 Pressurized submarine rescue: A manual for Undersea Medical Officers. C. Harvey, D. Stetson, A. Burns, P. K. Weathersby, J. Parker, and M. Mole. 1992.
- 1179 An evaluation of alternative maritime tactical display formats II: Working memory. K. Van Orden, M. Capone-Williams, Osga, and Lauben. 1992.

- 1180 An evaluation of the usability of the MEPSS prototype decision support program for abdominal pain with two user populations. E. Chouinard. 1992.
- 1181 Trial of a computer based program for the diagnosis of abdominal pain in males. D. Perrotta & D. Stetson. 1992.
- 1182 Statistically based decompression tables - VII: Selection and treatment of primary air and N2O2 data. P. K. Weathersby, S. S. Survanshi, Nishi, and E. Thalmann. (ALSO NMRI 92-85) 1992.
- 1183 Analysis of kidney stones in the submarine force. D. Perrotta, J. Hyashi, and D. Dlugos. 1992
- 1184 Effects of digital sampling rate and bit quantization on passive auditory sonar target detection performance. J. S. Russotti, T. Santoro, T. E. Hanna, and J. J. Wojtowicz. 1993.
- 1185 Characterizing noise fields in shipboard spaces. R. Sylvester. 1993.
- 1186 A history of computer-assisted medical diagnosis at Naval Submarine Medical Research Laboratory. P. Perrotta and E. M. Perkins. 1993.
- 1187 Conspicuity of aids to navigation: I. Temporal patterns for flashing lights. K. Laxar, and S. Benoit. 1993.
- 1188 Evaluation of communication during active sonar transmissions with a speech-recognition model. L. Marshall, T. Hanna, and C. Pavlovic. 1993.
- 1189 The relative effectiveness of four color coding techniques for intensity coding on simulated advanced mine detection system (AMDS) displays. K. Laxar, J. DiVita, S. Gallagher, and S. Benoit. 1993
- 1190 Storage stability of lithium hydroxide used in the submarine force. P. Perrotta, A. Davis, and A. McCarrick. 1993.
- 1191 Evaluation of field clinical laboratory equipment for fleet marine services. P. Perrotta, C. Bolecek-Skeggs, E. Christ, and D. Hobson. 1994.
- 1192 Color recommendations for prototype maritime tactical displays. K. Van Orden and S. Benoit. 1994.

Books - Proceedings

Navigating channels using parallax range lights. In D. H. Lindsley (Ed.), Proceedings of the Twelfth Symposium on Psychology in the Department of Defense. K. Laxar, and M. B. Mandler. 1990.

- f. Identify any Nobel laureates employed at this activity. **None**
- g. List all non-governmental awards for research or technical excellence given to members of your technical staff since 1 January 1990. **None**
- h. List all governmental awards for research or technical excellence given to members of your technical staff since 1 January 1990. **None**
- i. List all patents awarded to the in-house technical staff members of this activity since 1 January 1990. **None**
- j. List all patents applied for by the in-house technical staff members of this activity since 1 January 1990. **None**
- k. Identify any in-house staff that are members of the National Academy of Engineering. **None**
- l. Identify any in-house staff that are members of the National Academy of Sciences. **None**
- m. How many Cooperative Research and Development Agreements (CRDAs) have been signed by the activity since 1 January 1990? **None**
- n. What has been the activity's annual royalty income from CRDAs and patent licenses for each year since 1 January 1990? **Zero**
- o. List and describe any major end item prototypes, either product or process technology, developed in-house by the activity that are currently in production and/or are currently in use by the U.S. Armed Forces or by industry. Cite a published reference that documents the work.

Prototype headset for ACINT riders - CO, NSMRL ltr 3960 Ser 40/418 of 12 Oct 93

Prototype headset for AN/BSY-2 operators - CO, NSMRL ltr 3960 Ser 50/459

**Prototype headset for AN/BSY-2 operators - CO, NSMRL ltr 3960 Ser 50/459
of 13 Apr 90**

Air and O.S ATA N₂O₂ Decompression Tables - (1994 US Navy Diving Manual, in press)

Prototype spectral shaper

Prototype differential filter



both now on trial on SSN-688 class ships

FACILITIES AND EQUIPMENT

6. Special Facilities/Equipment Resources. Include a copy of the form provided at Tab B of this data call for each facility and "major" piece of equipment located at this activity. Include information on separate detachments. The following definitions will apply:

Facilities - Will include such things as rocket firing bays, towing tanks, anechoic chambers, hypervelocity gun ranges, hyperbaric chambers, wind tunnels, simulation/emulation laboratories, etc. Include buildings that are integral to the facility/equipment. Do not include major outdoor ranges or land.

Also, describe modeling and simulation capabilities, hardware in-the-loop facilities and analysis or wargaming capabilities.

Equipment - Resources used to support the operation of the site with a replacement value of \$500,000 or greater. Do not include land or buildings in this category. In reporting equipment, provide information to indicate the degree of portability of the equipment. Class 3 Personal Property items ("plant equipment" or "equipment in place") by definition are highly portable and can be moved easily. Some Class 2 Installed Equipment, such as Main-frame computers, test stands and small hyperbaric chambers, require more extensive utilities support and assembly of components, but can be relocated without damage to the facility or equipment, and therefore are considered "moveable" assets. Other Class 2 items are so large and/or integral to the facility that houses them that major demolition and construction would be required to relocate them, and therefore are considered "fixed" assets. Where appropriate, pieces of equipment can be aggregated for the purposes of completing Tab B.

**SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM**

Technical Center Site	SUBMARINE DECOMPRESSION
Facility/Equipment Nomenclature or Title	Hyperbaric Chambers - 2

1. State the primary purpose(s) of the facility/equipment. **The chamber is used in research various gas mixtures to develop diver decompression tables. It is also used as a backup treatment facility for decompression sickness.**
2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 12 of this data call. **Fixed**
3. Provide the replacement value of the facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment. **\$2,500,000**
4. Provide the gross weight and cube of the facility/equipment. **Approx. 167,300 lbs, 7,223 cu ft and 3,640 sq ft area**
5. Indicate any "special" utility support required by this facility/equipment other than normal electrical power. **Compressed air and gas mixtures as well as air scrubbers, uninterruptable & emergency power supply, high pressure gas/gas piping, CO₂ absorption capabilities, gas analysis equipment, high pressure sanitation system**
6. Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.). **Stainless steel piping, large gas tank storage.**
7. State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing). **Required controls are temperature, humidity, gas composition.**
8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the Department of the Navy if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated. **There are other hyperbaric chambers at other Navy Installations and there would not be a seriously negative impact if this equipment were no longer in use, except for the special sound-lowered areas that would cost \$200K**

to create elsewhere.

9. Indicate how and when the facility/equipment was transported and or constructed at the site. **The hyperbaric chambers were installed along with the construction of the structure where they are housed beginning in July 1960 and completed some time in 1961. The installation and construction was contracted to International Radiant Corporation of New York City, NY.**

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

Diving, Salvage and Ocean Engineering

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure used. **For FYs 1989-1992 this lab conducted an average of 6 to 8 Hyperbaric dives per year with each dive taking approximately 1½ months. The purpose of these dives was to conduct Tri-mix, Multi-sat, Long Shallow duration experiments and research - Unit of Measure - Number of Hyperbaric Dives. Funding for Diving Research was severely curtailed in FY 1993 and only one dive was conducted.**

12. Provide the projected utilization data out to FY1997. **Projected utilization only scheduled as far as FY 95 when there is a 4 week experiment to be conducted.**

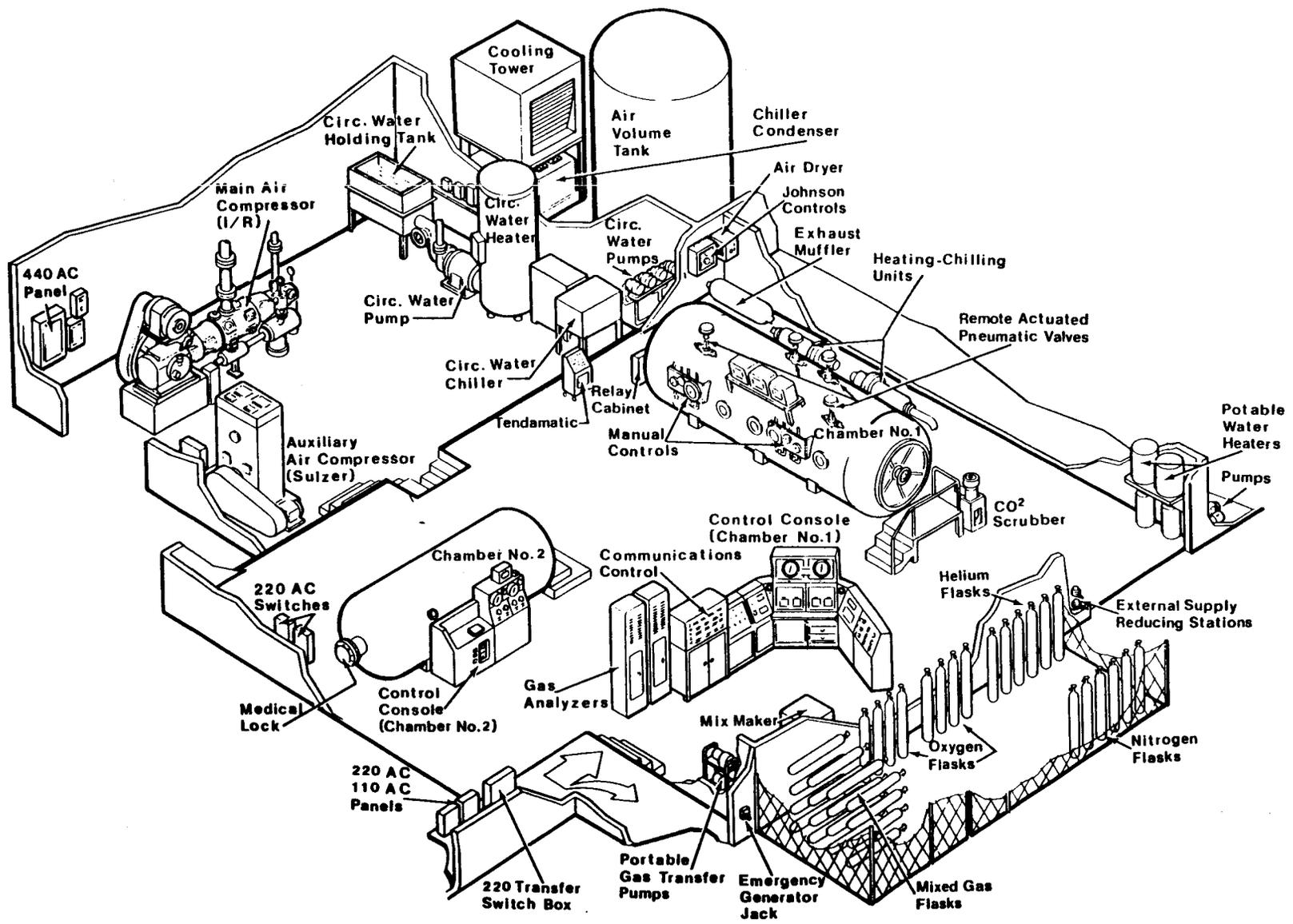
13. What is the approximate number of personnel used to operate the facility/equipment?

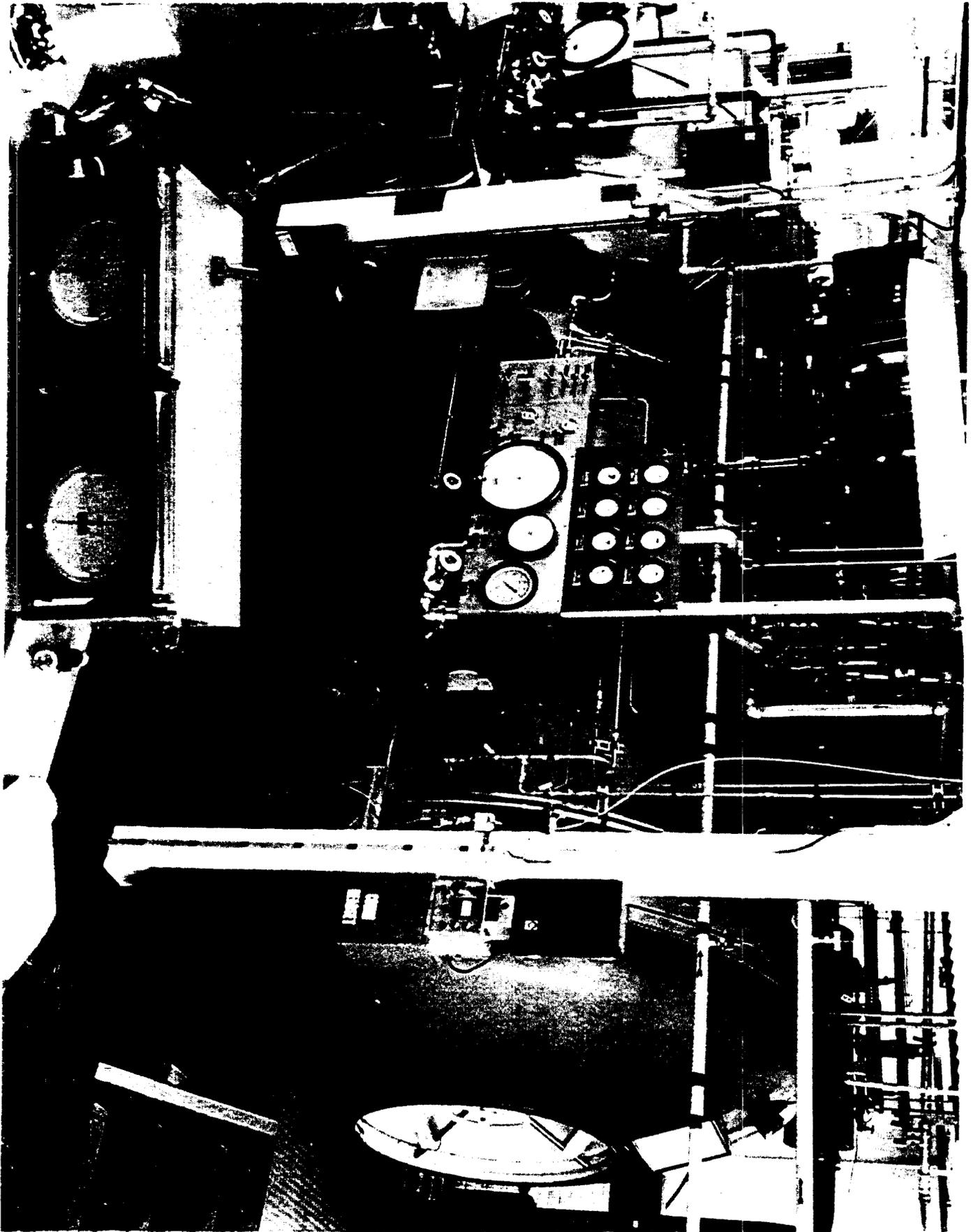
Twelve

14. What is the approximate number of personnel needed to maintain the equipment?

Two

15. Provide one 8 1/2 x 11 black and white photo of the facility/equipment.





**SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM**

Technical Center Site	Submarine Systems
Facility/Equipment Nomenclature or Title	Anechoic Chamber

1. State the primary purpose(s) of the facility/equipment. **The primary purpose of the anechoic chamber for research and measurement of: (1) human sound localization, auditory displays and auditory virtual environments, (2) electro-acoustic measurement, transducer measurement, and (3) will become a critical facility when the Advanced Research Initiative (ARI) "Enhancement and Utility of Auditory Virtual Environments" begins in FY 96.**

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 12 of this data call. **Fixed, it is part of the structure of the building where it is located.**

3. Provide the replacement value of the facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment. **Approximate replacement cost is \$650,000 if it is replaced in its current structure. To build an entirely new facility would be extremely expensive, the most current replacement cost estimate is \$1,407,310. This estimate addresses only the anechoic chamber and does not include the rest of the Sound Suite of which it is only a part.**

4. Provide the gross weight and cube of the facility/equipment. **42,575 cu ft**

5. Indicate any "special" utility support required by this facility/equipment other than normal electrical power. **A separate HVAC system is required in addition to humidity control, some EMI shielding and acoustically non-reflective lighting.**

6. Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.). **Foundation must include dampening to prevent transmission of low frequency vibrations, room-in-room construction with air space and isolated concrete slab floors atop concrete slabs for low frequency decoupling. All air-handling duct work must be "Q" type and low-velocity, located in isolated crawl-space above inner rooms. Outer structure requires sand-filled concrete block; no voids or penetrations are permitted. All laterals to the building must be isolated; all plant associated sources of vibration (machinery, compressors, air-**

handlers, etc) must be isolated. Walls must be made of steel or 12" concrete and doors must be sand-filled with specialized gaskets.

7. State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing). **Temperature, humidity, sound and vibration control are required in addition to isolation capabilities. It is essential that an anechoic chamber not be placed near high ambient sound levels.**

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the Department of the Navy if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated. **It would be extremely expensive to replicate this chamber at another facility because of its size, specialized usage and the fact there are few anechoic chambers of this type in existence.**

9. Indicate how and when the facility/equipment was transported and or constructed at the site. **The chamber construction started in January 1957 and was completed in September of 1957. The Gramarcy Construction Company of New York City was the contractor for this construction.**

10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.
Sonar Systems, Medical Research and Casualty Care

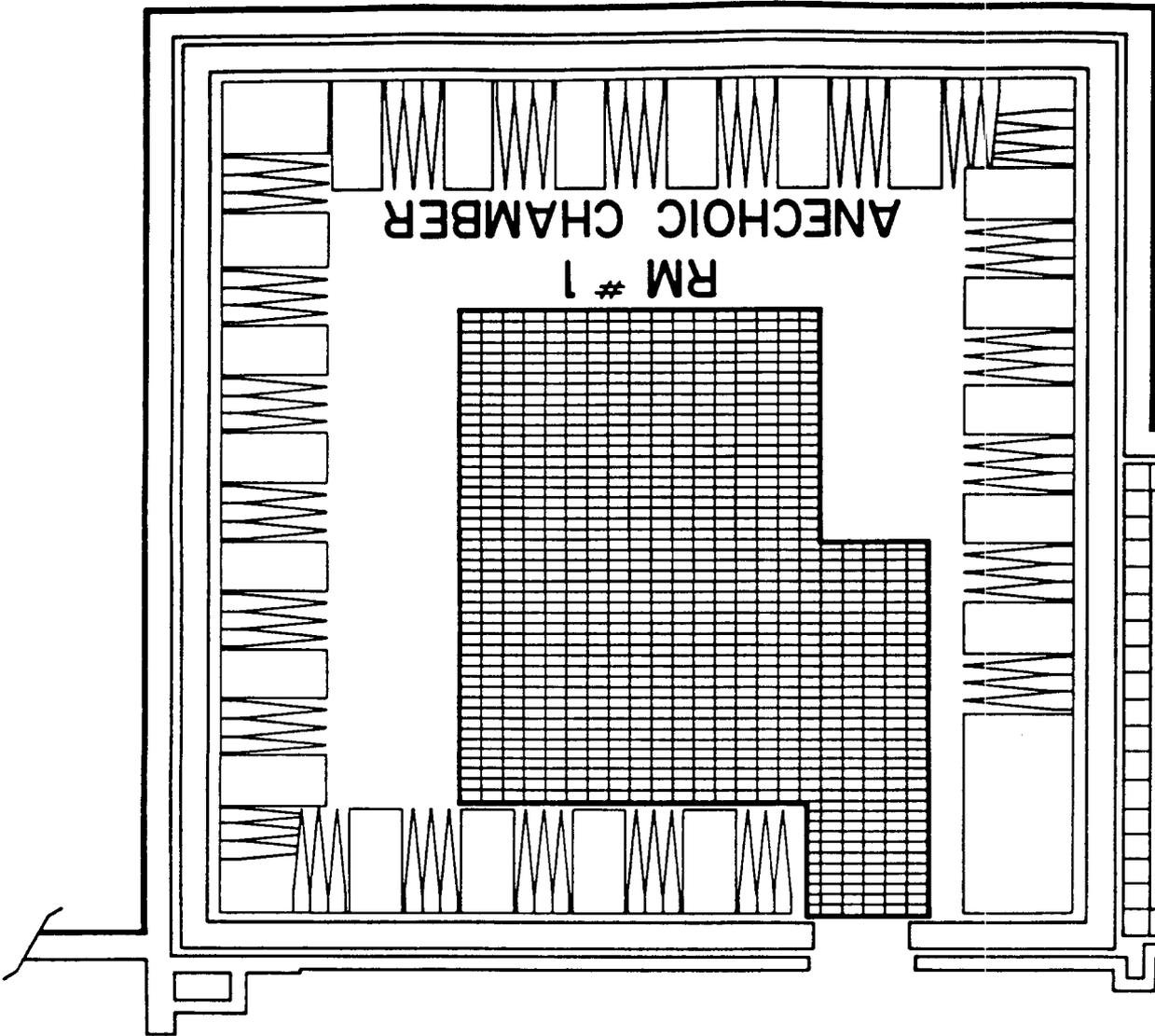
11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure used. **The chamber has had limited use over the past 5 years due to disrepair, however, NUWC-NLON and this lab have done some calibration work. There is do definitive utilization measure.**

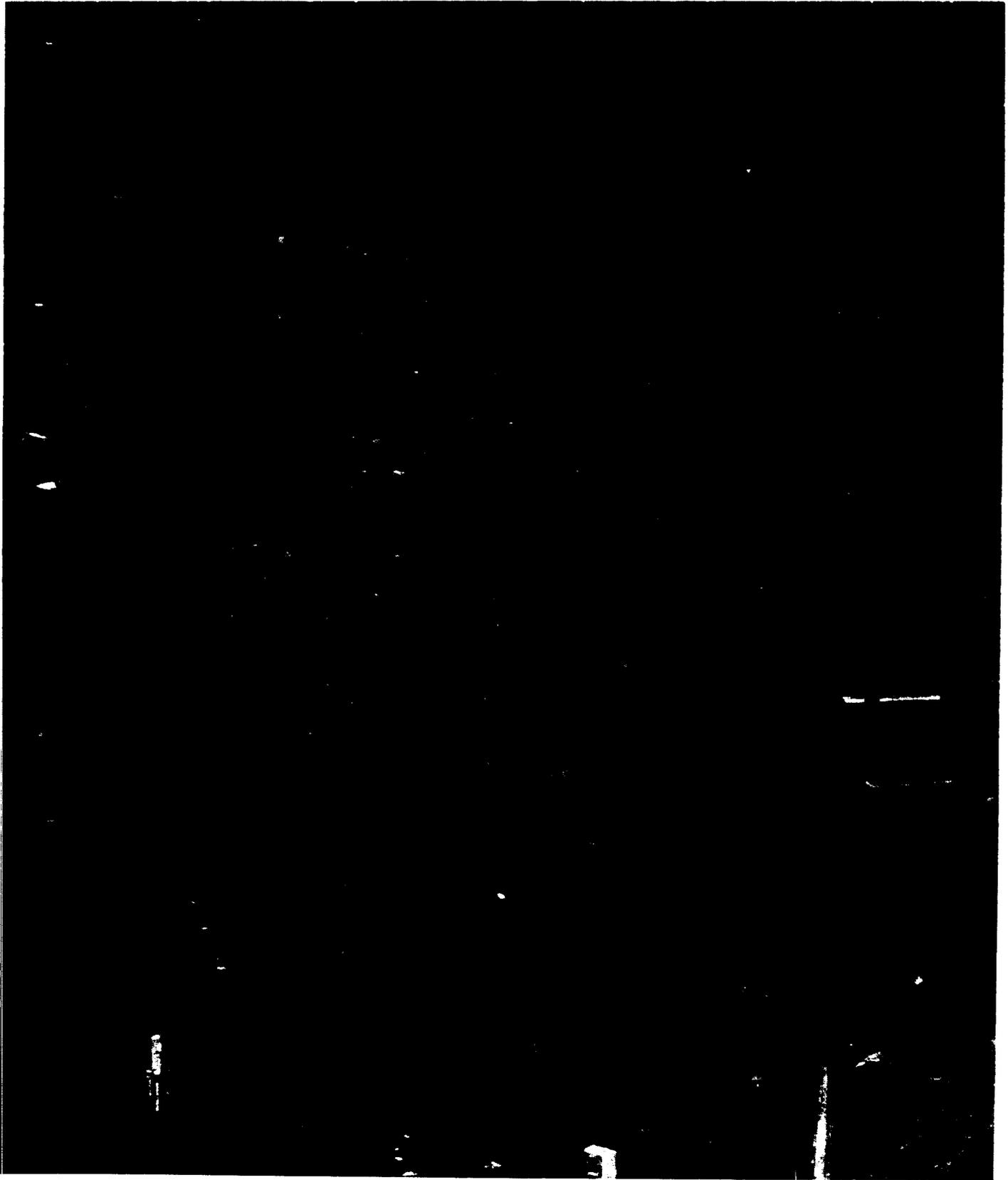
12. Provide the projected utilization data out to FY1997. **There will be substantial utilization when the ARI "Enhancement and Utility of Auditory Virtual Environments" is being conducted in FYs 96 & 97.**

13. What is the approximate number of personnel used to operate the facility/equipment? **There is no set standard number of personnel needed to operate the chamber because it is just a large room filled with fiberglass cones and it would depend on what equipment was being used and the type of experiment/research being conducted.**

14. What is the approximate number of personnel needed to maintain the equipment? **Little maintenance is required other than for installation of special purpose equipment within the chamber.**

15. Provide one 8 1/2 x 11 black and white photo of the facility/equipment.





7. General Facilities.

a. Is there any cash revenue generated by this activity? Example: Electricity generated at this activity and sold to the local community. If yes, describe. **NO**

b. What MILCON projects are currently programmed to be completed by the end of FY1995? For each project provide: **None**

(1) A description of the proposed facility with title and project number. Be sure to include the trailing alpha designator for BRACs-88, 91 and 93 realignment projects, i.e., P-xxxR, P-xxxS, P-xxxT .

(2) The functional support area(s) that the new facility will support. Refer to Appendix A.

(3) Identify installed equipment to be provided based on the threshold guidance of paragraph 6, page 12, of this data call.

(4) The additional square footage that this project will provide to the functional support area(s).

(5) The current working estimate (CWE) & planned beneficial occupancy date (BOD) of the project.

c. What MILCON projects are currently programmed to be executed/completed after FY1995? For each project provide: **None**

(1) A description of the proposed facility with title and project number.

(2) The functional support area(s) the new facility will support.

(3) The identified installed equipment to be provided based on the threshold guidance of paragraph 6, page 12, of this data call.

(4) The additional square footage this project will provide to the functional support area(s).

(5) CWE & planned BOD.

d. What is the distance (in miles) to the nearest military airfield and/or pier not located at your site? Describe. Assume all previous BRAC closures have been executed.

NAS South Weymouth, MA

NETC Newport, RI

e. How many certified magazines, used for the storage of explosives, does this activity own or control? What is the total explosive weight storage capacity? None

LOCATION

8. Geographic Location.

a. Is there an imperative in facility, function or synergy that requires the installation/base/facility to be in its present location? If yes, describe.

This activity is located perfectly to serve the needs of its customers. Submarine school gains the benefit of the lab's psychological screening expertise and provides the senior instructor expertise on many aspects of submarine force life. SUBRON TWO and especially SUBDEVRON TWELVE provide readily negotiable test platforms for the lab's products, in a personally customized manner; and gains the experience and operational perspective of the front line operators. The Naval Undersea Medical Institute's location allows frequent and productive interplay of the research and training aspects of Navy-unique undersea medicine. The close location of NUWC-NLON allows convenient technical collaboration and NUWC-NPT is close enough to avoid sacrificing a full day for a two hour meeting; unlike, a typical meeting in Washington, DC. Finally, the geographical cultural proximity of the U.S. Coast Guard Research and Development Center in the same town allows mutually supportive discussions and a useful outlet for lab skills when the Navy is under-supported relative to her Maritime Service sister.

b. What is the importance of the present location relative to customers supported?

Same answer as provided immediately above.

FEATURES AND CAPABILITIES

9. Computational Facilities.

a. Describe the general and special computational capabilities at this site. Include super computing, parallel computing, distributed computing and networking. Include high-speed data transfer, fiber optic links, microwave links, network interconnectivity and video teleconferencing capabilities. Do not discuss desktops and laptops except as they relate to

networking.

Computational facilities included a VAX 11/750 with DECNET gateway to internet through the Naval Underwater Warfare Center, New London, CT. The VAX is networked locally via ethernet to 30+ PC's.

10. Mobilization Responsibility and Capability.

a. Describe any mobilization responsibility officially assigned to this site. Cite the document assigning the responsibility. **None assigned**

(1) What functional support area(s) does this responsibility support? Refer to Appendix A for the list of functional support areas? **N/A**

(2) What portion of the work years and dollars, as reported in each applicable functional support area reported in Tab A, are spent solely on maintaining your activity's readiness to execute the mobilization responsibilities? **N/A**

(3) How many additional personnel (military & civilian) would be assigned to your activity as part of the mobilization responsibility? Include separately any contractor assets that would be added. **N/A**

b. Does your activity have adequate facilities to support your mobilization responsibilities? (yes/no) **N/A**

(1) If yes, is any space assigned for the sole purpose of maintaining mobilization readiness? (yes/no) If yes, list the square footage assigned.

(2) If no, what repairs, renovations and/or additions are required to provide adequate facilities? What is the estimated cost of this work?

(3) Are there any restrictions that would prevent work (noted in paragraph 10.b.(2) above) from taking place (i.e., AICUZ, environmental constraints, HERO, etc.)? If yes, describe. **N/A**

c. Describe any production facilities that would be activated in case of a future contingency. **N/A**

d. Is your activity used as a Reserve Unit mobilization and/or training site? **NO**

11. Range Resources. Include a copy of the form provided at Tab C of this data call for

each range located at this activity or operated by this activity. Also, report ranges at detachments and sites not receiving a separate data call. The following definition of a range will apply:

Range - An instrumented or non-instrumented area that utilizes air, land, and/or water space to support test and evaluation, measurements, training and data collection functions, but is not enclosed within a building.

**THIS SECTION IS NOT PROVIDED AS NSMRL IS A TENANT COMMAND
ABOARD SUBMARINE BASE NEW LONDON, GROTON, CT. UIC-N00129**

QUALITY OF LIFE

12. Military Housing NOT APPLICABLE TO THIS ACTIVITY

(a) Family Housing:

(1) Do you have mandatory assignment to on-base housing? (circle) yes no

(2) For military family housing in your locale provide the following information:

Type of Quarters	Number of Bedrooms	Total number of units	Number Adequate	Number Substandard	Number Inadequate
Officer	4+				
Officer	3				
Officer	1 or 2				
Enlisted	4+				
Enlisted	3				
Enlisted	1 or 2				
Mobile Homes					
Mobile Home lots					

(3) In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified provide the following information:

Facility type/code:

What makes it inadequate?

What use is being made of the facility?

What is the cost to upgrade the facility to substandard?

What other use could be made of the facility and at what cost?

Current improvement plans and programmed funding:

(4) Complete the following table for the military housing waiting list.

NOT APPLICABLE TO THIS ACTIVITY

Pay Grade	Number of Bedrooms	Number on List ¹	Average Wait
O-6/7/8/9	1		
	2		
	3		
	4+		
O-4/5	1		
	2		
	3		
	4+		
O-1/2/3/CWO	1		
	2		
	3		
	4+		
E7-E9	1		
	2		
	3		
	4+		
E1-E6	1		
	2		
	3		
	4+		

¹As of 31 March 1994.

(5) What do you consider to be the top five factors driving the demand for base housing? Does it vary by grade category? If so provide details.

NOT APPLICABLE TO THIS ACTIVITY

Top Five Factors Driving the Demand for Base Housing	
1	
2	
3	
4	
5	

(6) What percent of your family housing units have all the amenities required by "The Facility Planning & Design Guide" (Military Handbook 1190 & Military Handbook 1035-Family Housing)?

NOT APPLICABLE TO THIS ACTIVITY

(7) Provide the utilization rate for family housing for FY 1993.

NOT APPLICABLE TO THIS ACTIVITY

Type of Quarters	Utilization Rate
Adequate	
Substandard	
Inadequate	

(8) As of 31 March 1994, have you experienced much of a change since FY 1993? If so, why? If occupancy is under 98% (or vacancy over 2%), is there a reason?

NOT APPLICABLE TO THIS ACTIVITY

(b) BEQ:

(1) Provide the utilization rate for BEQs for FY 1993.

NOT APPLICABLE TO THIS ACTIVITY

Type of Quarters	Utilization Rate
Adequate	
Substandard	
Inadequate	

(2) As of 31 March 1994, have you experienced much of a change since FY 1993? If so, why? If occupancy is under 95% (or vacancy over 5%), is there a reason?

NOT APPLICABLE TO THIS ACTIVITY

(3) Calculate the Average on Board (AOB) for geographic bachelors as follows:

NOT APPLICABLE TO THIS ACTIVITY

$$\text{AOB} = \frac{(\# \text{ Geographic Bachelors} \times \text{average number of days in barracks})}{365}$$

(4) Indicate in the following chart the percentage of geographic bachelors (GB) by category of reasons for family separation. Provide comments as necessary.

NOT APPLICABLE TO THIS ACTIVITY

Reason for Separation from Family	Number of GB	Percent of GB	Comments
Family Commitments (children in school, financial, etc.)			
Spouse Employment (non-military)			
Other			
TOTAL		100	

(5) How many geographic bachelors do not live on base?

NOT APPLICABLE TO THIS ACTIVITY

(c) **BOQ:**

(1) Provide the utilization rate for BOQs for FY 1993.

NOT APPLICABLE TO THIS ACTIVITY

Type of Quarters	Utilization Rate
Adequate	
Substandard	
Inadequate	

(2) As of 31 March 1994, have you experienced much of a change since FY 1993? If so, why? If occupancy is under 95% (or vacancy over 5%), is there a reason?

NOT APPLICABLE TO THIS ACTIVITY

(3) Calculate the Average on Board (AOB) for geographic bachelors as follows:

NOT APPLICABLE TO THIS ACTIVITY

$$\text{AOB} = \frac{(\# \text{ Geographic Bachelors} \times \text{average number of days in barracks})}{365}$$

(4) Indicate in the following chart the percentage of geographic bachelors (GB) by category of reasons for family separation. Provide comments as necessary.

NOT APPLICABLE TO THIS ACTIVITY

Reason for Separation from Family	Number of GB	Percent of GB	Comments
Family Commitments (children in school, financial, etc.)			
Spouse Employment (non-military)			
Other			
TOTAL		100	

(5) How many geographic bachelors do not live on base?

NOT APPLICABLE TO THIS ACTIVITY

(d) BOO/BEO Housing and Messing.

(1) Provide data on the BOQs and BEQs assigned to your current plant account. The desired unit of measure for this capacity is people housed. Use CCN to differentiate between pay grades, i.e., E1-E4, E5-E6, E7-E9, CWO-O2, O3 and above.

NOT APPLICABLE TO THIS ACTIVITY

Facility Type, Bldg. # & CCN	Total No. of Beds	Total No. of Rooms	Adequate		Substandard		Inadequate	
			Beds	Sq Ft	Beds	Sq Ft	Beds	Sq Ft

(2) In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified provide the following information:

NOT APPLICABLE TO THIS ACTIVITY

- a. FACILITY TYPE/CODE:
- b. WHAT MAKES IT INADEQUATE?
- c. WHAT USE IS BEING MADE OF THE FACILITY?
- d. WHAT IS THE COST TO UPGRADE THE FACILITY TO SUBSTANDARD?
- e. WHAT OTHER USE COULD BE MADE OF THE FACILITY AND AT WHAT COST?
- f. CURRENT IMPROVEMENT PLANS AND PROGRAMMED FUNDING:
- g. HAS THIS FACILITY CONDITION RESULTED IN C3 OR C4 DESIGNATION ON YOUR BASEREP?

(3) Provide data on the BOQs and BEQs projected to be assigned to your plant account in FY 1997. The desired unit of measure for this capacity is people housed. Use CCN to differentiate between pay grades, i.e., E1-E4, E5-E6, E7-E9, CWO-O2, O3 and above.

NOT APPLICABLE TO THIS ACTIVITY

Facility Type, Bldg. # & CCN	Total No. of Beds	Total No. of Rooms	Adequate		Substandard		Inadequate	
			Beds	Sq Ft	Beds	Sq Ft	Beds	Sq Ft

(4) In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified provide the following information:

NOT APPLICABLE TO THIS ACTIVITY

- a. FACILITY TYPE/CODE:
- b. WHAT MAKES IT INADEQUATE?
- c. WHAT USE IS BEING MADE OF THE FACILITY?
- d. WHAT IS THE COST TO UPGRADE THE FACILITY TO SUBSTANDARD?
- e. WHAT OTHER USE COULD BE MADE OF THE FACILITY AND AT WHAT COST?
- f. CURRENT IMPROVEMENT PLANS AND PROGRAMMED FUNDING:
- g. HAS THIS FACILITY CONDITION RESULTED IN C3 OR C4 DESIGNATION ON YOUR BASEREP?

(5) Provide data on the messing facilities assigned to your current plant account.

NOT APPLICABLE TO THIS ACTIVITY

Facility Type, CCN and Bldg. #	Total Sq. Ft.	Adequate		Substandard		Inadequate		Avg # Noon Meals Served
		Seats	Sq Ft	Seats	Sq Ft	Seats	Sq Ft	

(6) In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified provide the following information:

NOT APPLICABLE TO THIS ACTIVITY

- a. FACILITY TYPE/CODE:
- b. WHAT MAKES IT INADEQUATE?
- c. WHAT USE IS BEING MADE OF THE FACILITY?
- d. WHAT IS THE COST TO UPGRADE THE FACILITY TO SUBSTANDARD?
- e. WHAT OTHER USE COULD BE MADE OF THE FACILITY AND AT WHAT COST?
- f. CURRENT IMPROVEMENT PLANS AND PROGRAMMED FUNDING:
- g. HAS THIS FACILITY CONDITION RESULTED IN C3 OR C4 DESIGNATION ON YOUR BASEREP?

(7) Provide data on the messing facilities projected to be assigned to your plant account in FY 1997.

NOT APPLICABLE TO THIS ACTIVITY

Facility Type, CCN and Bldg. #	Total Sq. Ft.	Adequate		Substandard		Inadequate		Avg # Noon Meals Served
		Seats	Sq Ft	Seats	Sq Ft	Seats	Sq Ft	

(8) In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified provide the following information:

NOT APPLICABLE TO THIS ACTIVITY

- a. FACILITY TYPE/CODE:
- b. WHAT MAKES IT INADEQUATE?
- c. WHAT USE IS BEING MADE OF THE FACILITY?
- d. WHAT IS THE COST TO UPGRADE THE FACILITY TO SUBSTANDARD?
- e. WHAT OTHER USE COULD BE MADE OF THE FACILITY AND AT WHAT COST?
- f. CURRENT IMPROVEMENT PLANS AND PROGRAMMED FUNDING:
- g. HAS THIS FACILITY CONDITION RESULTED IN C3 OR C4 DESIGNATION ON YOUR BASEREP?

13. **MWR Facilities.** For on-base MWR facilities¹⁰ available, complete the following table for each separate location. For off-base government owned or leased recreation facilities indicate distance from base. If there are any facilities not listed, include them at the bottom of the table.

NOT APPLICABLE TO THIS ACTIVITY

LOCATION _____ DISTANCE _____

Facility	Unit of Measure	Total	Profitable (Y,N,N/A)
Auto Hobby	Indoor Bays		
	Outdoor Bays		
Arts/Crafts	SF		
Wood Hobby	SF		
Bowling	Lanes		
Enlisted Club	SF		
Officer's Club	SF		
Library	SF		
Library	Books		
Theater	Seats		
ITT	SF		
Museum/Memorial	SF		
Pool (indoor)	Lanes		
Pool (outdoor)	Lanes		
Beach	LF		
Swimming Ponds	Each		
Tennis CT	Each		

¹⁰Spaces designed for a particular use. A single building might contain several facilities, each of which should be listed separately.

NOT APPLICABLE TO THIS ACTIVITY

Facility	Unit of Measure	Total	Profitable (Y,N,N/A)
Volleyball CT (outdoor)	Each		
Basketball CT (outdoor)	Each		
Racquetball CT	Each		
Golf Course	Holes		
Driving Range	Tee Boxes		
Gymnasium	SF		
Fitness Center	SF		
Marina	Berths		
Stables	Stalls		
Softball Fld	Each		
Football Fld	Each		
Soccer Fld	Each		
Youth Center	SF		

14. Base Family Support Services

a. Complete the following table on the availability of child care in a child care center on your base.

NOT APPLICABLE TO THIS ACTIVITY

Age Category	Capacity (Children)	SF			Number on Wait List	Average Wait (Days)
		Adequate	Substandard	Inadequate		
0-6 Mos						
6-12 Mos						
12-24 Mos						
24-36 Mos						
3-5 Yrs						

b. In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means." For all the categories above where inadequate facilities are identified provide the following information:

NOT APPLICABLE TO THIS ACTIVITY

Facility type/code:

What makes it inadequate?

What use is being made of the facility?

What is the cost to upgrade the facility to substandard?

What other use could be made of the facility and at what cost?

Current improvement plans and programmed funding:

Has this facility condition resulted in C3 or C4 designation on your BASEREP?

c. If you have a waiting list, describe what programs or facilities other than those sponsored by your command are available to accommodate those on the list.

NOT APPLICABLE TO THIS ACTIVITY

d. How many "certified home care providers" are registered at your base?

NOT APPLICABLE TO THIS ACTIVITY

f. Complete the following table for services available on your base. If you have any services not listed, include them at the bottom.

NOT APPLICABLE TO THIS ACTIVITY

Service	Unit of Measure	Qty
Exchange	SF	
Gas Station	SF	
Auto Repair	SF	
Auto Parts Store	SF	
Commissary	SF	
Mini-Mart	SF	
Package Store	SF	
Fast Food Restaurants	Each	
Bank/Credit Union	Each	
Family Service Center	SF	
Laundromat	SF	
Dry Cleaners	Each	
ARC	PN	
Chapel	PN	
FSC Classrm/Auditorium	PN	

15. Proximity of Closest Major Metropolitan Areas (provide at least three):

City	Distance (Miles)
NEW YORK CITY	120
PROVIDENCE	65
BOSTON	100

16. Standard Rate VHA Data for Cost of Living:
NOT APPLICABLE TO THIS ACTIVITY

Paygrade	With Dependents	Without Dependents
E1		
E2		
E3		
E4		
E5		
E6		
E7		
E8		
E9		
W1		
W2		
W3		
W4		
O1E		
O2E		
O3E		
O1		
O2		
O3		
O4		
O5		
O6		
O7		

7. Off-base Housing Rental and Purchase

(a) Fill in the following table for average rental costs in the area for the period 1 April 1993 through 31 March 1994.

NOT APPLICABLE TO THIS ACTIVITY

Type Rental	Average Monthly Rent		Average Monthly Utilities Cost
	Annual High	Annual Low	
Efficiency			
Apartment (1-2 Bedroom)			
Apartment (3+ Bedroom)			
Single Family Home (3 Bedroom)			
Single Family Home (4+ Bedroom)			
Town House (2 Bedroom)			
Town House (3+ Bedroom)			
Condominium (2 Bedroom)			
Condominium (3+ Bedroom)			

(b) What was the rental occupancy rate in the community as of 31 March 1994?

NOT APPLICABLE TO THIS ACTIVITY

Type Rental	Percent Occupancy Rate
Efficiency	
Apartment (1-2 Bedroom)	
Apartment (3+ Bedroom)	
Single Family Home (3 Bedroom)	
Single Family Home (4+ Bedroom)	

Town House (2 Bedroom)	
Town House (3+ Bedroom)	
Condominium (2 Bedroom)	
Condominium (3+ Bedroom)	

(c) What are the median costs for homes in the area?

NOT APPLICABLE TO THIS ACTIVITY

Type of Home	Median Cost
Single Family Home (3 Bedroom)	
Single Family Home (4+ Bedroom)	
Town House (2 Bedroom)	
Town House (3+ Bedroom)	
Condominium (2 Bedroom)	
Condominium (3+ Bedroom)	

(d) For calendar year 1993, from the local MLS listings provide the number of 2, 3, and 4 bedroom homes available for purchase. Use only homes for which monthly payments would be within 90 to 110 percent of the E5 BAQ and VHA for your area.

NOT APPLICABLE TO THIS ACTIVITY

Month	Number of Bedrooms		
	2	3	4+
January			
February			
March			
April			
May			

June			
July			
August			
September			
October			
November			
December			

(e) Describe the principle housing cost drivers in your local area.

NOT APPLICABLE TO THIS ACTIVITY

18. For the top five sea intensive ratings in the principle warfare community your base supports, provide the following:

NOT APPLICABLE TO THIS ACTIVITY

Rating	Number Sea Billets in the Local Area	Number of Shore billets in the Local Area

19. Complete the following table for the average one-way commute for the five largest concentrations of military and civilian personnel living off-base.

NOT APPLICABLE TO THIS ACTIVITY

Location	% Employees	Distance (mi)	Time(min)

20. Complete the tables below to indicate the civilian educational opportunities available to service members stationed at the installation (to include any outlying sites) and their dependents:

(a) List the local educational institutions which offer programs available to dependent children. Indicate the school type (e.g. DODDS, private, public, parochial, etc.), grade level (e.g. pre-school, primary, secondary, etc.), what students with special needs the institution is equipped to handle, cost of enrollment, and for high schools only, the average SAT score of the class that graduated in 1993, and the number of students in that class who enrolled in college in the fall of 1994.

NOT APPLICABLE TO THIS ACTIVITY

Institution	Type	Grade Level(s)	Special Education Available	Annual Enrollment Cost per Student	1993 Avg SAT/ACT Score	% HS Grad to Higher Educ	Source of Info

(b) List the educational institutions within 30 miles which offer programs off-base available to service members and their adult dependents. Indicate the extent of their programs by placing a "Yes" or "No" in all boxes as applies.

NOT APPLICABLE TO THIS ACTIVITY

Institution	Type Classes	Program Type(s)				
		Adult High School	Vocational/ Technical	Undergraduate		Graduate
				Courses only	Degree Program	
	Day					
	Night					
	Day					
	Night					
	Day					
	Night					
	Day					
	Night					

(c) List the educational institutions which offer programs on-base available to service members and their adult dependents. Indicate the extent of their programs by placing a "Yes" or "No" in all boxes as applies.

NOT APPLICABLE TO THIS ACTIVITY

Institution	Type Classes	Program Type(s)				
		Adult High School	Vocational/ Technical	Undergraduate		Graduate
				Courses only	Degree Program	
	Day					
	Night					
	Correspondence					
	Day					
	Night					
	Correspondence					
	Day					
	Night					
	Correspondence					
	Day					
	Night					
	Correspondence					

21. Spousal Employment Opportunities.

Provide the following data on spousal employment opportunities.

NOT APPLICABLE TO THIS ACTIVITY

Skill Level	Number of Military Spouses Serviced by Family Service Center Spouse Employment Assistance			Local Community Unemployment Rate
	1991	1992	1993	
Professional				
Manufacturing				
Clerical				
Service				
Other				

22. Medical/Dental.

a. Do your active duty personnel have any difficulty with access to medical or dental care, in either the military or civilian health care system? Develop the why of your response. **No, active military are provided excellent service by the Naval Hospital including appropriate referral for civilian care when necessary.**

b. Do your military dependents have any difficulty with access to medical or dental care, in either the military or civilian health care system? Develop the why of your response. **Military dependents have the usual difficulties in accessing the military health care system such as long waiting periods, inability to make contact utilizing telephone appointment system, etc.**

23 **Crime Rate.** Complete the table below to indicate the crime rate for your air station for the last three fiscal years. The source for case category definitions to be used in responding to this question are found in NCIS - Manual dated 23 February 1989, at Appendix A, entitled "Case Category Definitions." Note: the crimes reported in this table should include 1) all reported criminal activity which occurred on base regardless of whether the subject or the victim of that activity was assigned to or worked at the base; and 2) all reported criminal activity off base.

NOT APPLICABLE TO THIS ACTIVITY

Crime Definitions	FY 1991	FY 1992	FY 1993
1. Arson (6A)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
2. Blackmarket (6C)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
3. Counterfeiting (6G)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
4. Postal (6L)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

NOT APPLICABLE TO THIS ACTIVITY

Crime Definitions	FY 1991	FY 1992	FY 1993
5. Customs (6M)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
6. Burglary (6N)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
7. Larceny - Ordnance (6R)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
8. Larceny - Government (6S)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

NOT APPLICABLE TO THIS ACTIVITY

Crime Definitions	FY 1991	FY 1992	FY 1993
9. Larceny - Personal (6T)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
10. Wrongful Destruction (6U)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
11. Larceny - Vehicle (6V)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
12. Bomb Threat (7B)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

NOT APPLICABLE TO THIS ACTIVITY

Crime Definitions	FY 1991	FY 1992	FY 1993
13. Extortion (7E)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
14. Assault (7G)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
15. Death (7H)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
16. Kidnapping (7K)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

In accordance with policy set forth by the Secretary of the Navy, personnel of the Department of the Navy, uniformed and civilian, who provide information for use in the BRAC-95 process are required to provide a signed certification that states "I certify that the information contained herein is accurate and complete to the best of my knowledge and belief."

The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes of this certification sheet, the commander of the activity will begin the certification process and each reporting senior in the Chain of Command reviewing the information will also sign this certification sheet. This sheet must remain attached to this package and be forwarded up the Chain of Command. Copies must be retained by each level in the Chain of Command for audit purposes.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

CAPT P. K. WEATHERSBY, MSC, USN
NAME (Please type or print)

P/K Weathersby
Signature

COMMANDING OFFICER
Title

3 May 94
Date

Naval Submarine Medical Research Laboratory, Groton, CT
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

CAPT E. T. FLYNN, MC, USN
NAME (Please type or print)
COMMANDING OFFICER
Title
NAVAL MEDICAL RESEARCH AND DEVELOPMENT COMMAND
Activity

E. T. Flynn
Signature
6 May 94
Date

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Title

Activity

Signature

Date

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

RADM R. I. RIDENOUR
NAME (Please type or print)
ACTING CHIEF BUMED
Title
BUREAU OF MEDICINE AND SURGERY
Activity

R. I. Ridenour
Signature
5-16-94
Date

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

J. B. Greene, Jr
NAME (Please type or print)
Acting
Title

J. B. Greene Jr.
Signature
19 May 1994
Date

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Signature

Title

Date

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

D. F. HAGEN, VADM, MC, USN

NAME (Please type or print)

Signature

CHIEF BUMED/SURGEON GENERAL

Title

Date

BUREAU OF MEDICINE & SURGERY

Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

W. A. EARNER

NAME (Please type or print)

Signature

Title

Date

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

P. K. WEATHERSBY
NAME (Please type or print)

P. K. Weathersby
Signature

COMMANDING OFFICER
Title

11 Jul 1994
Date

NAVAL SUBMARINE MEDICAL RESEARCH LABORATORY, GROTON, CT.
Activity

Rev. pg 19

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

S. F. Blacke, CDR, MSC, USN

NAME (Please type or print)

S. F. Blacke

Signature

Commanding Officer (Acting)

Title

14 September 1994

Date

Naval Submarine Medical Research Laboratory
Activity

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

T. N. JONES, CAPT, MSC, USN

NAME (Please type or print)

COMMANDING OFFICER

Title
NAVAL MEDICAL RESEARCH & DEVELOPMENT COMMAND

Activity

Signature 

Date 21 Sept 94

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Title

Activity

Signature

Date

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MAJOR CLAIMANT LEVEL

D. F. HAGEN, VADM, MC, USN

NAME (Please type or print)

CHIEF BUMED/SURGEON GENERAL

Title
BUREAU OF MEDICINE AND SURGERY

Activity

Signature 

Date 9-22-94

Data Call 5 revision Naval Submarine Research Laboratory

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)

W. A. EARNER

NAME (Please type or print)

Signature

10/5/74

Title

Date

Document Separator