DCN 1426

180

DATA CALL 66
INSTALLATION RESOURCES

Activity Information:

Activity Name:	CO, Naval Aerospace Medical Research Laboratory
UIC:	66452
Host Activity Name (if response is for a tenant activity):	Naval Air Station, Pensacola, FL
Host Activity UIC:	00204

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 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: NAVAEROMEDRSCHLAB		UIC: 66452	
Category	FY 1996 BOS Costs ($000)		
	Non-Labor	Labor	Total
1. Real Property Maintenance Costs:			
1a. Maintenance and Repair	41.0	220.0	261.0
1b. Minor Construction	3.0	243.0	246.0
1c. Sub-total 1a. and 1b.	44.0	463.0	507.0
2. Other Base Operating Support Costs:			
2a. Utilities	453.0	0	453.0
2b. Transportation	1.0	7.0	8.0
2c. Environmental			
2d. Facility Leases			
2e. Morale, Welfare & Recreation			
2f. Bachelor Quarters			
2g. Child Care Centers			
2h. Family Service Centers			
2i. Administration			
2j. Other (Specify) Custodial,grounds refuse/waste coll.	0	62.0	62.0
2k. Sub-total 2a. through 2j:	454.0	69.0	523.0
3. Grand Total (sum of 1c. and 2k.):	498.0	532.0	1030.0

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:

Appropriation	Amount ($000)
RDT&E	1030.0

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 2l., 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..

DATA CALL 66
INSTALLATION RESOURCES

NOT APPLICABLE

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

4. Grand Total (sum of 1c., 2m., and 3.) :			

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: NAVAEROMEDRSCHLAB	**UIC:** 66452
Cost Category	**FY 1996 Projected Costs ($000)**
Travel:	250.0
Material and Supplies (including equipment):	1739.7
Industrial Fund Purchases (other DBOF purchases):	861.1
Transportation:	7.9
Other Purchases (Contract support, etc.):	4478.6
Total:	7337.3

DATA CALL 66
INSTALLATION RESOURCES

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: NAVAEROMEDRSCHLAB	**UIC:** 66452
Contract Type	**FY 1996 Estimated Number of Workyears On-Base**
Construction:	0.0
Facilities Support:	0.0
Mission Support:	3.0
Procurement:	0.0
Other:*	0.0
Total Workyears:	3.0

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

FACILITIES SUPPORT PROVIDED BY ROICC

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)):

0

2) Estimated number of workyears which would be eliminated:

3.0

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

DATA CALL 66
INSTALLATION RESOURCES

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.)
0	

No. of Additional Contract Workyears Which Would Be Relocated	General Type of Work Performed on Contract (e.g., engineering support, technical services, etc.)
0	

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

8-1-94

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 _____

8/25/94

Title _____ 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

J. C. PATEE, CAPT, MSC, USN
NAME (Please type or print)

Signature

COMMANDING OFFICER (ACTING)
Title

7.19.94
Date

NAVAL AEROSPACE MEDICAL RESEARCH LABORATORY
Activity

Document Separator

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)

Signature

COMMANDING OFFICER
Title

Date 6 May 94

NAVAL MEDICAL RESEARCH AND DEVELOPMENT COMMAND
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

RADM R. I. RIDENOUR
NAME (Please type or print)

Signature

ACTING CHIEF BUMED
Title

Date 5-16-94

BUREAU OF MEDICINE AND 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)

Enclosure (2)

LATA CALL 4
NAVAL AEROSPACE MEDICAL LAB

NAME (Please type or print)

J. B. Greene, Jr.

Title ACTING

Signature

J B Greene Jr

Date

27 MAY 1994

Enclosure (2)

Document Separator

DATA CALL 1: GENERAL INSTALLATION INFORMATION

1. ACTIVITY: Follow example as provided in the table below (*delete the examples when providing your input*). If any of the questions have multiple responses, please provide all. If any of the information requested is subject to change between now and the end of Fiscal Year (FY) 1995 due to known redesignations, realignments/closures or other action, provide current and projected data and so annotate.

- Name

Official name	*NAVAL AEROSPACE MEDICAL RESEARCH LABORATORY*
Acronym(s) used in correspondence	*NAMRL, NAS, PENSACOLA, FL 32508-1046*
Commonly accepted short title(s)	*NAMRL*

- Complete Mailing Address

NAVAL AEROSPACE MEDICAL RESEARCH LABORATORY
51 HOVEY ROAD
NAS, PENSACOLA, FL 32508-1046

- PLAD

NAVAEROMEDRSCHLAB

- PRIMARY UIC: 66452 (Plant Account UIC for Plant Account Holders)

Enter this number as the Activity identifier at the top of each Data Call response page.

- ALL OTHER UIC(s): N/A PURPOSE: _____

2. PLANT ACCOUNT HOLDER:

- Yes X No _____ (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: __00204__
- Primary Host (as of 01 Oct 1995) UIC: __00204__
- Primary Host (as of 01 Oct 2001) UIC: __00204__

• 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)

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
N/A	N/A	N/A

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

Name	UIC	Location	Host name	Host UIC
N/A	N/A	N/A	N/A	N/A

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. **NO.**

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 Missions

- Improve biomedical performance of aircrews.
- Research, develop and test innovations within aviation medicine.
- Enhance aviation safety, health, and readiness.
- Improve human performance of Navy and Marine Corps aviation personnel.
- Testing for aviation and Hovercraft selection.
-

Projected Missions for FY 2001

- Our projected mission is expected to remain the same, but with an increased emphasis in the technology transfer and acceleration arenas.
-
-
-
-

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

- Biological effects of electromagnetical radiation.
- Spatial disorientation of virtual reality environments.
- Selection of personnel for aviation related platforms.
- Gender-neutral psysiological and psychological selection.

Projected Unique Missions for FY 2001

- Spatial disorientation associated with night vision devices.
- Spatial disorientation of virtual reality environments.
- Selection of personnel for aviation related platforms.
- Gender-neutral physiological and psychological selection.

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
NMRDC	00075

• Funding Source	UIC
NMRD	00075

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	20	22	49
• Tenants (total)	N/A	N/A	N/A

Authorized Positions as of 30 September 1994

	Officers	Enlisted		Civilian (Appropriated)
• Reporting Command	~~22~~ 17	~~22~~ 17	MEO-805 GSP 6/30/94	50
• Tenants (total)	N/A	N/A		N/A

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.

Title/Name	Office	Fax	Home
• CO/OIC:			
A. J. MATECZUN, CAPT, MC	(904)452-4480	(904)452-4479	(904)492-5707
• Duty Officer			[N/A]
• F. J. ARENAS, LT, MSC	(904)452-8078	(904)452-4479	(904)453-9856
•			

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
N/A	N/A	N/A	N/A	N/A

- Tenants residing on main complex (homeported units.)

Tenant Command Name	UIC	Officer	Enlisted	Civilian
N/A	N/A	N/A	N/A	N/A

- 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
N/A	N/A	N/A	N/A	N/A	N/A

- Tenants (Other than those identified previously)

Tenant Command Name	UIC	Location	Officer	Enlisted	Civilian
N/A	N/A	N/A	N/A	N/A	N/A

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.)
N/A	*N/A*	*N/A*

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

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

RONALD L. DEAN, HMC(SW), USN
NAME (Please type or print)

Signature

ASSISTANT HEAD, ADMISTRATIVE SUPPORT
Title

22 JUNE 1994
Date

ADMINISTRATIVE SUPPORT DIVISION
Division

ADMINISTRATIVE SUPPORT DEPARTMENT
Department

NAVAL AEROSPACE MEDICAL RESEARCH LABORATORY
Activity

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.

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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

A. J. MATECZUN, CAPT, MC, USN
NAME (Please type or print)

Signature

COMMANDING OFFICER
Title

22 JUNE 1994
Date

NAVAL AEROSPACE 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)

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 6-30-94

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) _____ Signature _____

ACTING

Title _____ Date 06 JUL 1994

Document Separator

 Data Call #1 2VRBWMD824 9/20/94

"LAB" JOINT CROSS-SERVICE GROUP GUIDANCE PACKAGE

Section I: Taskings
1.1 Guidelines
1.2 Standards
1.3 Assumptions
1.4 Measures of Merit
1.5 Activities
1.6 Common Support Functions

Section II: Capacity of DOD Components
2.1 Workload
2.2 Excess Capacity

Section III: Capability of Activities to Perform Common Support Functions
3.0 Mission
3.1 Location
3.2 Personnel
3.3 Workload
3.4 Facilities & Equipment
3.5 Expansion Potential

Section IV: Appendices
A. Macro Process/Schedule
B. List of Activities
C. Common Support Functions

Data Call #12 VRBUMLD824 9/20/94

"LAB" JOINT CROSS-SERVICE GROUP GUIDANCE PACKAGE

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Section I: Taskings
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1.2 Standards
1.3 Assumptions
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1.5 Activities
1.6 Common Support Functions

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3.4 Facilities & Equipment
3.5 Expansion Potential

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B. List of Activities
C. Common Support Functions

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DATACALL # 12

"LAB" JOINT CROSS-SERVICE GROUP GUIDANCE PACKAGE

Section I: Taskings
1.1 Guidelines
1.2 Standards
1.3 Assumptions
1.4 Measures of Merit
1.5 Activities
1.6 Common Support Functions

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C. Common Support Functions

NAVAL RONALD DRSCHILAD
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"LAB" JOINT CROSS-SERVICE GROUP GUIDANCE PACKAGE

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1.6 Common Support Functions	4
SECTION II: CAPACITY OF DOD COMPONENTS	
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SECTION III: CAPABILITY OF ACTIVITIES TO PERFORM COMMON SUPPORT FUNCTIONS	
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3.1 Location	6
3.2 Personnel:	7
3.3 Workload	16
3.4 Facilities and Equipment	19
SECTION IV: APPENDICES	
A. Macro Process/Schedule	
B. List of Activities	
C. Common Support Functions	

SECTION I: TASKING

In accordance with the Deputy Secretary of Defense memorandum dated 7 Jan 94, the Laboratory Joint Cross-Service Group (LJCSG) with DOD components should, where operationally and cost effective, strive to: retain in only one Service militarily unique capabilities used by two or more Services; consolidate workload across the Service to reduce capacity; and assign operational units from more than one Service to a single base. Specifically, the purpose of the LJCSG is:

- Determine common support functions and bases to be addressed by LJCSG
- Establish guidelines, standards, assumptions, measures of merit, data elements and milestone schedules for DOD Component conduct of cross-service analysis of common support functions
- Review excess capacity analysis
- Develop closure or realignment alternatives
- Analyze cross-service trade-offs

The following information identifies to the Services common support functions and data element requirements necessary to support the cross-service analysis of these common support functions.

1.1 Guidelines

Because the DOD components are organized differently, "Lab" activities are considered to be those involved in the following life cycle efforts: Science and technology, and/or engineering development, and/or in-service engineering.

Service missions and force structure will be as stipulated in the FY1995-2000 Defense Planning Guidance and Interim Force Structure Plan.

The Military Departments will use the projected funding in the FY95 President's Budget Submission (Future Years Defense Plan -- FYDP) and an estimate of funds that will be received from outside the military department for execution.

If "lab" excess capacity exists, the Military Departments will start to reduce it where operationally and cost effective through a combination of downsizing in place within the departments, internal service consolidation, and cross service alternatives.

The Military Departments will gather, exchange, and analyze data collected per this guidance call for Common Support Functions (Appendix C) at "lab" activities (Appendix B) in accordance with the milestones and schedule dates identified in Appendix A.

Cross-service alternatives will result in an aggregate reduction in the overall "lab" infrastructure across the Military Departments -- personnel/funding/facilities and equipment.

Common cross-service Measures of Merit will be consistently applied for all cross-service alternatives.

Integration of weapon systems/components into operational forces will remain with the individual Military Departments responsible for those forces.

1.2 Standards

Evaluation of cross-service alternatives will be consistent with PL 101-510 (as amended) and the eight BRAC criteria. Only certified data will be used.

The COBRA cost model will be used to calculate estimated costs, estimated savings, and Return on Investment (ROI) of alternatives leading to proposed closures and realignments. Common inputs will be used for Military COBRA runs incorporating cross-service alternatives.

Military value analysis will be conducted by the Military Departments IAW Title 10, USC responsibilities.

1.3 Assumptions

"Lab" Common Support Functions and activities identified herein represent the major opportunities for developing cross-service alternatives. The Military Departments are not precluded from proposing other cross-service alternatives to reduce excess capacity as they assess the full complement of "lab" functions.

Previous BRAC decisions will be factored into cross-service alternatives.

"Lab" capacity will be based on budgeted workyears. A workyear is considered to be 2080 hours adjusted for time not on the job (e.g. sick leave, annual leave, etc.)

1.4 Measures of Merit

The following Measures of Merit represent the outcome from the DOD component final realignment and closure recommendations that are supported by the capabilities data which will be gathered by activity and common support function in Section III of this guidance.

- Reduction of "lab" infrastructure
- Return on investment (COBRA)
- Military value (BRAC criteria 1-4) -- the composite assessment of the quality of the remaining "lab" infrastructure

1.5 Activities

The Military Departments will collect capacity data for each "lab" activity identified in Appendix B. The "lab" activities were selected by considering all individual aggregates of personnel and facilities located at one base, under the same commander, performing predominantly science and technology (S&T), engineering development, and/or in-service engineering work. Small subelements of these "lab" activities were included with the activity. Larger subelements were broken out and defined as separate activities. The list of activities was then narrowed down to the list in Appendix B based on a joint Military Department assessment of common support functions with cross-service potential.

1.6 Common Support Functions

The common support functions (CSFs) were selected as shown in Appendix C based on a joint Military Department assessment of commonalty and cross-servicing potential. Common support functions which were already consolidated and being cross serviced were not included.

Common Support Functions are divided into two categories: product and pervasive. Product functions include all S&T, engineering development, and in-service engineering efforts associated with a product from all funding sources. Pervasive functions only include those efforts that are S&T funded, i.e. Technology Base (6.1)/Exploratory Development (6.2)/Advanced Development (6.3).

SECTION II: CAPACITY OF DOD COMPONENTS

2.1 Workload. Use the following table to describe historic and projected workload at each activity in terms of funding and workyears. Assume previous BRAC closures and realignments are implemented on schedule. Projected funding will be derived from FY95 President's Budget Submission (Then year dollars). Past fiscal year data shall begin with FY86 or at the inception of the activity as it existed on 1 Oct 93. (BRAC Criteria I & IV)

Information Required	Fiscal Years											
	86	87	88	89	90	91	92	93	94	95	96	97
Total Funds Programmed ($M)	2.557	4.164	3.793	3.863	3.846	2.863	2.844	3.515	4.004	8.963	8.679	8.852
Total Actual Funds ($M)	3.657	3.356	4.220	4.014	4.170	3.818	3.405	4.816				
Programmed Workyears	UNK	UNK	UNK	60.0	57.0	45.0	43.0	45.0	42.0	32.0	34.0	35.0
Actual Workyears	55.0	54.0	68.0	58.0	48.0	48.0	44.0	48.0				

- Budgeted workyears are the selected indicator of the "lab" infrastructure's capacity at an aggregate level for each Military Department. They include both workyears funded directly by the Military Department and the workyears funded from organizations outside the Military Department.

Workyears = government personnel and on-site FFRDCs and SETAs

2.2 Excess "Lab" Capacity -- Measured at the DOD Component Level

- Excess "Lab" Capacity = Sum of the Peak Workyears - Sum of the Projected Workyears
-- Peak at each activity = Highest value between FY86 (or since inception of organization) and FY93
-- Projected at each activity = Estimated at FY97

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SECTION III: CAPABILITY OF ACTIVITIES TO PERFORM COMMON SUPPORT FUNCTIONS

(CSFs): Provide the information described for each common support function listed in Appendix C in which you are actively engaged.

3.0 Mission: Describe the major capabilities at your activity contributing to the common support function in bulletized format. Describe any relationship and interconnectivity with other functions (common or otherwise) in support of the overall activity mission.

Human Systems:

Acceleration: Conduct basic and applied research to determine the perceptual, physiological, and psychophysiological responses to motion-induced stimuli.

Spatial Orientation: Conduct basic and applied research to determine the perceptual, physiological, and psychophysiological responses to motion-induced stimuli.

Visual Performance: Develop and evaluate visual performance test for aviation medical standards. Evaluate night vision device effects on visual performance and develop ways to improve visual performance (image processing, hardware modifications, equipment specifications, adjustment aids, simulation of night vision device images, training devices, and user techniques). Evaluate unaided night vision ability and its effect on night operational performance in the special warfare arena. Evaluate the effects of dietary supplements on improving night visual performance. Provide a real-time objective assessment helicopter instrument scan and determine scan pattern's relationship with flight performance.

Noise: Develop and evaluate tests, devices, methods, and training procedures for assessing, enhancing, and protecting one's ability to hear and communicate effectively and safely in Navy and Marine Corps operational environments. Interact with researchers in vision and spatial orientation in support of overall activity mission.

Heat Stress: Provide heat stress assessment of new aviation life support systems developed by DoD labs and development facilities. Provide functionality assessment of personnel cooling devices developed for military use.

Manpower and Personnel:

Medical Assessment-Selection and Classification: Develop computerized tests and statistical models to assist in selection and classification of naval aviators and naval flight

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SECTION III: CAPABILITY OF ACTIVITIES TO PERFORM COMMON SUPPORT FUNCTIONS

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Visual Performance: Develop and evaluate visual performance test for aviation medical standards. Evaluate night vision device effects on visual performance and develop ways to improve visual performance (image processing, hardware modifications, equipment specifications, adjustment aids, simulation of night vision device images, training devices, and user techniques). Evaluate unaided night vision ability and its effect on night operational performance in the special warfare arena. Evaluate the effects of dietary supplements on improving night visual performance. Provide a real-time objective assessment helicopter instrument scan and determine scan pattern's relationship with flight performance.

Noise: Develop and evaluate tests, devices, methods, and training procedures for assessing, enhancing, and protecting one's ability to hear and communicate effectively and safely in Navy and Marine Corps operational environments. Interact with researchers in vision and spatial orientation in support of overall activity mission.

Heat Stress: Provide heat stress assessment of new aviation life support systems developed by DoD labs and development facilities. Provide functionality assessment of personnel cooling devices developed for military use.

Manpower and Personnel:

Medical Assessment-Selection and Classification: Develop computerized tests and statistical models to assist in selection and classification of naval aviators and naval flight officers. Develop computerized tests and statistical models to assist in selection and classification of Landing Craft Air Cushion Vehicle (LCAC) operators, engineers, and navigators. Conduct research on cognitive and psychomotor capabilities of female aviators. Experimental assessment of cognitive impairment on naval aircrew due to medical prescription for drugs.

Operational Performance and Endurance: Neuropsychological: Improve aircrew safety and mission effectiveness by providing operationally relevant information on Navy/Marine aircrew performance and endurance in night and extended naval air operations. Select and evaluate pharmacological and nonpharmacological countermeasures to the effects of fatigue, sleep loss and circadian phenomena for use in

SECTION III: CAPABILITY OF ACTIVITIES TO PERFORM COMMON SUPPORT FUNCTIONS

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3.0 Mission: Describe the major capabilities at your activity contributing to the common support function in bulletized format. Describe any relationship and interconnectivity with other functions (common or otherwise) in support of the overall activity mission.

3.1 Location

3.1.1 **Geographic/Climatological Features:** Describe any geographic/climatological features in and around your activity that are relevant to each CSF. Indicate and justify those that are required versus those that just serve to enhance accomplishing the mission of the activity. For example, clear air at high altitude that increases quality of atmospheric, ground-based laser experiments in support of the weapons CSF. (BRAC Criteria I)

3.1.2 **Licenses & permits:** Describe and list the licenses or permits (e.g., environmental, safety, etc.) that your activity currently holds and justify why they are required to allow tests, experiments, or other special capabilities at your location for each CSF. For example, permit to store and use high explosives. (BRAC Criteria I)

3.1.3 **Environmental constraints:** Describe and list the environmental or land use constraints present at your activity which limit or restrict your current scope for each CSF, i.e., would not allow increased "volume" or "spectrum" for the CSF. Example -- Volume: frequency of a type of experiment. Example -- Spectrum: Current permit to detonate high explosives will not allow detonation or storage of increased quantity of explosives without legal waiver (state law) or relocation of surrounding (non-govt) buildings. (BRAC Criteria II)

3.1.4 **Special Support Infrastructure:** List and describe the importance of any mission related special support infrastructure (e.g. utilities) present at your location for your activity. (BRAC Criteria I)

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officers. Develop computerized tests and statistical models to assist in selection and classification of Landing Craft Air Cushion Vehicle (LCAC) operators, engineers, and navigators. Conduct research on cognitive and psychomotor capabilities of female aviators. Experimental assessment of cognitive impairment on naval aircrew due to medical prescription for drugs.

Operational Performance and Endurance: Neuropsychological: Improve aircrew safety and mission effectiveness by providing operationally relevant information on Navy/Marine aircrew performance and endurance in night and extended naval air operations. Select and evaluate pharmacological and nonpharmacological countermeasures to the effects of fatigue, sleep loss and circadian phenomena for use in night and extended naval air operations. Determine effects of selected countermeasures on cognitive performance, psychological status, and subjected fatigue. Provide data to inform the development of guidance on the efficacy and use of performance degradation countermeasures in night and extended naval air operations.

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3.1.1 **Geographic/Climatological Features:** Describe any geographic/climatological features in and around your activity that are relevant to each CSF. Indicate and justify those that are required versus those that just serve to enhance accomplishing the mission of the activity. For example, clear air at high altitude that increases quality of atmospheric, ground-based laser experiments in support of the weapons CSF. (BRAC Criteria I).

Temperatures in the area provide an "acclimatization" to heat stress conditions for seven months out of the year.

Proximity to Naval Aerospace and Operational Medical Institute, NAS Pensacola, FL
Proximity to Naval Aviation Schools Command, NAS Pensacola, FL for access to aviator-trainee research subjects for long-duration, sleep-deprivation experiments.
Proximity to Marine Aviation Training Support Group, NAS Pensacola, for access to aviator-trainee research subjects for long-duration sleep deprivation experiments.

3.1.2 **Licenses & permits:** Describe and list the licenses or permits (e.g., environmental, safety, etc.) that your activity currently holds and justify why they are required to allow tests, experiments, or other special capabilities at your location for each CSF. For example, permit to store and use high explosives. (BRAC Criteria I).

Permit from base commander for communications.

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night and extended naval air operations. Determine effects of selected countermeasures on cognitive performance, psychological status, and subjected fatigue. Provide data to inform the development of guidance on the efficacy and use of performance degradation countermeasures in night and extended naval air operations.

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Temperatures in the area provide an "acclimatization" to heat stress conditions for seven months out of the year.

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3.1.2 **Licenses & permits:** Describe and list the licenses or permits (e.g., environmental, safety, etc.) that your activity currently holds and justify why they are required to allow tests, experiments, or other special capabilities at your location for each CSF. For example, permit to store and use high explosives. (BRAC Criteria I).

Permit from base commander for communications.
Permit for incinerator
Permit for radiation experiments
License from DEA for controlled medicines study
AAALAC accreditation for primate usage
All devices man-rated
U.S. Drug Enforcement Agency Research License. Required for pharmacological studies of controlled substances.
Investigation new drug waiver (dextromethamphetamine hydrochloride). Required for studies of unlabeled uses of dextromethamphetamine hydrochloride.

3.1.3 **Environmental constraints:** Describe and list the environmental or land use constraints present at your activity which limit or restrict your current scope for each CSF, i.e., would not allow increased "volume" or "spectrum" for the CSF. Example -- Volume: frequency of a type of experiment. Example -- Spectrum: Current permit to detonate high explosives will not allow detonation or storage of increased quantity of explosives without legal waiver (state law) or relocation of surrounding (non-govt) buildings. (BRAC Criteria II). None

Permit for incinerator
Permit for radiation experiments
License from DEA for controlled medicines study
AAALAC accreditation for primate usage
All devices man-rated
U.S. Drug Enforcement Agency Research License. Required for pharmacological studies of controlled substances.
Investigation new drug waiver (dextromethamphetamine hydrochloride). Required for studies of unlabeled uses of dextromethamphetamine hydrochloride.

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3.1.4 **Special Support Infrastructure:** List and describe the importance of any mission related special support infrastructure (e.g. utilities) present at your location for your activity. (BRAC Criteria I)

Utilities support from NAS Pensacola.

Spatial orientation, acceleration, and vision facilities available for joint hearing/vision/vestibular research (e.g., studies involving more than one sensory modality ("virtual environment"). JTCG elements 5.2.1, 5.2.3, and 5.2.4. Facilities available for studying long endurance auditory/speech communications performance. JTCG element 5.4.5.

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HUMAN SYSTEMS R

3.1.5. Proximity to Mission-Related organizations: List and describe the importance and impact of not having nearby organizations which facilitate accomplishing or performing your mission -- e.g. operational units, FFRDCs, universities/colleges, other government organizations, and commercial activities. Restrict your response to the top five. Complete the following: (BRAC Criteria I)

~~Access to students from Schools Command, and Operational Commands would seriously hinder our ability to perform our unique research. Location of aviation personnel in all phases (candidates, students, and aviators) of aviation allow for cross-sectional evaluation of acceleration and visual performance. Our close working relationship with the Naval Aerospace and Operational Medicine Institute allows for clinical referrals and research collaboration. Close proximity to Naval Hospital for clinical referrals. (Proximity to Fort Rucker, AL, for access to all levels of pilot subjects and clinical referrals in close collaboration with the U.S. Army.)~~ See P9aR

Common Support Functions	Name	Type of Organization	Distance	Workyears Performed by Your Activity	Workyears Funded by Your Activity

3.2 Personnel:

3.2.1 Total Personnel: What is the total number of government (military and civilian), on-site federally funded research and development center (FFRDC), and on-site system engineering technical assistance (SETA) personnel engaged in science and technology (S&T), engineering development and in-service engineering activities as of end FY93? For individuals that predominantly work in CSFs, involved in more than one CSF, account for those individuals in the CSF that represents the preponderance of their effort. (BRAC Criteria I)

Types of Personnel	Number of Personnel			
	Government		On-Site FFRDC	On-Site SETA
	Civilian	Military		
Technical	7	8	15	
Management (Supv)	6	9	15	
Other	0	0	0	

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3.1.5. **Proximity to Mission-Related organizations:** List and describe the importance and impact of not having nearby organizations which facilitate accomplishing or performing your mission -- e.g. operational units, FFRDCs, universities/colleges, other government organizations, and commercial activities. Restrict your response to the top five. Complete the following: (BRAC Criteria I)

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See P 9a R

Common Support Functions	Name	Type of Organization	Distance	Workyears Performed by Your Activity	Workyears Funded by Your Activity

3.2 Personnel:

3.2.1 **Total Personnel:** What is the total number of government (military and civilian), on-site federally funded research and development center (FFRDC), and on-site system engineering technical assistance (SETA) personnel engaged in science and technology (S&T), engineering development and in-service engineering activities as of end FY93? For individuals that predominantly work in CSFs, involved in more than one CSF, account for those individuals in the CSF that represents the preponderance of their effort. (BRAC Criteria I)

Types of Personnel	Number of Personnel			
	Government		On-Site FFRDC	On-Site SETA
	Civilian	Military		
Technical	2	2	4	
Management (Supv)	0	1	1	
Other				

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3.1.5. **Proximity to Mission-Related organizations:** List and describe the importance and impact of not having nearby organizations which facilitate accomplishing or performing your mission -- e.g. operational units, FFRDCs, universities/colleges, other government organizations, and commercial activities. Restrict your response to the top five. Complete the following: (BRAC Criteria I)

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Access to students from Schools Command, and Operational Commands would seriously hinder our ability to perform our unique research. Location of aviation personnel in all phases (candidates, students, and aviators) of aviation allow for cross-sectional evaluation of acceleration and visual performance. Our close working relationship with the Naval Aerospace and Operational Medicine Institute allows for clinical referrals and research collaboration. Close proximity to Naval Hospital for clinical referrals. Proximity to Fort Rucker, AL, for access to all levels of pilot subjects and clinical referrals in close collaboration with the U.S. Army.

Common Support Functions	Name	Type of Organization	Distance	Workyears Performed by Your Activity	Workyears Funded by Your Activity

3.2 Personnel:

3.2.1 **Total Personnel:** What is the total number of government (military and civilian), on-site federally funded research and development center (FFRDC), and on-site system engineering technical assistance (SETA) personnel engaged in science and technology (S&T), engineering development and in-service engineering activities as of end FY93? For individuals that predominantly work in CSFs, involved in more than one CSF, account for those individuals in the CSF that represents the preponderance of their effort. (BRAC Criteria I)

Types of Personnel	Number of Personnel			
	Government		On-Site FFRDC	On-Site SETA
	Civilian	Military		
Technical	9	10	19	0
Management (Supv)	6	9	19	0
Other	0	0	0	0

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Naval Aviation Schools Command, Naval Aviation Training Command, and the Naval Aerospace and Operational Medicine Institute are all collocated with the Naval Aerospace Medical Research Laboratory at NAS Pensacola, Florida. A Naval Hospital, with sophisticated patient evaluation and delivery systems, is also located within three miles of NAS Pensacola. Not having access to students from the Schools and Training Commands would seriously hinder our ability to perform our unique research and development mission. Not being collocated with aviation personnel in all phases (candidates, students, and aviators) would seriously impact the ability to continue cross-sectional evaluation of Naval aviation problems related to acceleration and vision. Lack of proximity to the Naval Aerospace Medicine and Operational Institute and the Naval Hospital would diminish our ability to obtain or assist in immediate clinical referrals, conduct collaborative research, identify and validate emerging operational aviation medicine requirements, and to transition/promulgate advanced medical screening tests and revised medical standards.

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3.1.5. **Proximity to Mission-Related organizations:** List and describe the importance and impact of not having nearby organizations which facilitate accomplishing or performing your mission -- e.g. operational units, FFRDCs, universities/colleges, other government organizations, and commercial activities. Restrict your response to the top five. Complete the following: (BRAC Criteria I)

Access to students from Schools Command, and Operational Commands would seriously hinder our ability to perform our unique research. Location of aviation personnel in all phases (candidates, students, and aviators) of aviation allow for cross-sectional evaluation of acceleration and visual performance. Our close working relationship with the Naval Aerospace and Operational Medicine Institute allows for clinical referrals and research collaboration. Close proximity to Naval Hospital for clinical referrals. Proximity to Fort Rucker, AL, for access to all levels of pilot subjects and clinical referrals in close collaboration with the U.S. Army.

Common Support Functions	Name	Type of Organization	Distance	Workyears Performed by Your Activity	Workyears Funded by Your Activity

ITEM 3.2. N/A FOR UIC 66452

3.2 Personnel:

3.2.1 **Total Personnel:** What is the total number of government (military and civilian), on-site federally funded research and development center (FFRDC), and on-site system engineering technical assistance (SETA) personnel engaged in science and technology (S&T), engineering development and in-service engineering activities as of end FY93? For individuals that predominantly work in CSFs, involved in more than one CSF, account for those individuals in the CSF that represents the preponderance of their effort. (BRAC Criteria I)

Types of Personnel	Number of Personnel			
	Government		On-Site FFRDC	On-Site SETA
	Civilian	Military		
Technical	0	0	0	0
Management (Supv)	0	0	0	0
Other	0	0	0	0

ITEM 3.1.5. N/A FOR UIC 66452

3.1.5. **Proximity to Mission-Related organizations:** List and describe the importance and impact of not having nearby organizations which facilitate accomplishing or performing your mission -- e.g. operational units, FFRDCs, universities/colleges, other government organizations, and commercial activities. Restrict your response to the top five. Complete the following: (BRAC Criteria I)

Common Support Functions	Name	Type of Organization	Distance	Workyears Performed by Your Activity	Workyears Funded by Your Activity

ITEM 3.2. N/A FOR UIC 66452

3.2 Personnel:

3.2.1 **Total Personnel:** What is the total number of government (military and civilian), on-site federally funded research and development center (FFRDC), and on-site system engineering technical assistance (SETA) personnel engaged in science and technology (S&T), engineering development and in-service engineering activities as of end FY93? For individuals that predominantly work in CSFs, involved in more than one CSF, account for those individuals in the CSF that represents the preponderance of their effort. (BRAC Criteria I)

Types of Personnel	Number of Personnel			
	Government		On-Site FFRDC	On-Site SETA
	Civilian	Military		
Technical				
Management (Supv)				
Other				

HUMAN SYSTEMS R

3.2.2 Education: What is the number of government personnel actively engaged in S&T, engineering development and in-service engineering activities by highest degree and type of position? Provide the data in the following table: (BRAC Criteria I)

Type of Degree/Diploma	Number of Government Personnel by Type of Position		
	Technical	Management (Supv)	Other
High School or Less	0	1	12
Associates	0	0	2
Bachelor	5	2	7
Masters	2	2	3
Doctorate (include Med/Vet/etc.)	5	7	3

3.2.3 Experience: What is the experience level of government personnel? Fill in the number of government personnel in the appropriate boxes of the following table. (BRAC Criteria I)

Type of Position	Years of Government and/or Military Service				
	Less than 3 years	3-10 years	11-15 years	16-20 years	More than 20 years
Technical	2	5	1	4	4
Management (Supv)	0	1	3	3	7
Total	2	6	4	7	11

3.2.4 Accomplishments During FY91-93: For government personnel answer the following questions.

MANPOWER AND PERSONNEL

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3.2.2 **Education:** What is the number of government personnel actively engaged in S&T, engineering development and in-service engineering activities by highest degree and type of position? Provide the data in the following table: (BRAC Criteria I)

Type of Degree/Diploma	Number of Government Personnel by Type of Position		
	Technical	Management (Supv)	Other
High School or Less	0	0	0
Associates	0	0	0
Bachelor	0	0	0
Masters	1	0	0
Doctorate (include Med/Vet/etc.)	3	1	0

3.2.3 **Experience:** What is the experience level of government personnel? Fill in the number of government personnel in the appropriate boxes of the following table. (BRAC Criteria I)

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Type of Position	Years of Government and/or Military Service				
	Less than 3 years	3-10 years	11-15 years	16-20 years	More than 20 years
Technical	0	2	1	~~0~~ 1	0
Management (Supv)	0	1	0	0	0
Total	0	3	1	~~0~~ 1	0

3.2.4 **Accomplishments During FY91-93:** For government personnel answer the following questions.

3.2.2 **Education:** What is the number of government personnel actively engaged in S&T, engineering development and in-service engineering activities by highest degree and type of position? Provide the data in the following table: (BRAC Criteria I)

Type of Degree/Diploma	Number of Government Personnel by Type of Position		
	Technical	Management (Supv)	Other
High School or Less		1	12
Associates			2
Bachelor	5	2	7
Masters	3	2	3
Doctorate (include Med/Vet/etc.)	8	8	3

3.2.3 **Experience:** What is the experience level of government personnel? Fill in the number of government personnel in the appropriate boxes of the following table. (BRAC Criteria I)

Type of Position	Years of Government and/or Military Service				
	Less than 3 years	3-10 years	11-15 years	16-20 years	More than 20 years
Technical	2	7	2	4	4
Management (Supv)		2	3	3	7
Total	2	9	5	7	11

3.2.4 **Accomplishments During FY91-93:** For government personnel answer the following questions.

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3.2.2 **Education:** What is the number of government personnel actively engaged in S&T, engineering development and in-service engineering activities by highest degree and type of position? Provide the data in the following table: (BRAC Criteria I)

Type of Degree/Diploma	Number of Government Personnel by Type of Position		
	Technical	Management (Supv)	Other
High School or Less		1	12
Associates			2
Bachelor	5	2	7
Masters	3	2	3
Doctorate (include Med/Vet/etc.)	8	8	3

3.2.3 **Experience:** What is the experience level of government personnel? Fill in the number of government personnel in the appropriate boxes of the following table. (BRAC Criteria I)

Type of Position	Years of Government and/or Military Service				
	Less than 3 years	3-10 years	11-15 years	16-20 years	More than 20 years
Technical	2	7	2	4	4
Management (Supv)		2	3	3	7
Total	2	9	5	7	11

3.2.4 **Accomplishments During FY91-93:** For government personnel answer the following questions.

3.2.2 **Education:** What is the number of government personnel actively engaged in S&T, engineering development and in-service engineering activities by highest degree and type of position? Provide the data in the following table: (BRAC Criteria I)

Type of Degree/Diploma	Number of Government Personnel by Type of Position		
	Technical	Management (Supv)	Other
High School or Less		1	12
Associates			2
Bachelor	5	2	7
Masters	3	2	3
Doctorate (include Med/Vet/etc.)	8	8	3

3.2.3 **Experience:** What is the experience level of government personnel? Fill in the number of government personnel in the appropriate boxes of the following table. (BRAC Criteria I)

Type of Position	Years of Government and/or Military Service				
	Less than 3 years	3-10 years	11-15 years	16-20 years	More than 20 years
Technical	2	7	2	4	4
Management (Supv)		2	3	3	7
Total	2	9	5	7	11

3.2.4 **Accomplishments During FY91-93:** For government personnel answer the following questions.

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3.2.4.1 How many patents were awarded and patent disclosures (only count disclosures with issued disclosure numbers) were made? (BRAC Criteria I)

CSF	Disclosures	Awarded	Patent Titles (List)
Human Systems		07-24-90	Scheiner-Principle Vernier Optometer
Human Systems		11-03-92	Electromagnetic Warming of Submerged Extremities
Human Systems		03-05-91	Scheiner-principle Pocket Optometer for Self Evaluation and Bio-feedback Accommodation Training
Human Systems		10-19-93	Advanced Eye or Sensor Protection and High Speed Variable Optical Attenuation System
Human Systems		06-29-93	Small, Simple, and Cost-effective Scheiner-principle Optometer with Computer Interface for Automated Assessment
Human Systems	02-08-90		Eye or Sensor Protection and High Speed Variable Optical Attenuation System
Human Systems	01-31-91		Conductive Gloves and Socks to Prevent Radiofrequency (RF) Burns
Human Systems	02-16-93		Night Vision Goggle Focusing Aid
Human Systems	03-01-94		Peripheral Vision Attitude Indicator
Evaluation			
Human Systems	04-29-92		Personal Microwave and Radio Frequency Detector
Human Systems	10-13-92		Apparatus to Treat Diabetic Peripheral Neuropathy, Microangiopathy and Slow or Non-healing Wounds
Human Systems	02-16-93		Full-color Night Vision Goggle Compatible Lighting
Human Systems	03-26-93		Artificial Horizon Altitude Warning System
Human Systems	05-20-93		Luminance Optimizer for Night Vision Devices
Human Systems	11-08-93		Acoustic Attenuation and Vibration Damping Materials
Human Systems	01-15-94		Projector Slides for Night Vision Goggle Training
Human Systems	01-31-94		Correction of Night Vision Goggle Depth of Focus for Terrain Board Training
Human Systems	04-21-94		The Strobe Incapacitator (SI)
Human Systems	04-21-94		The Night Vision Goggle Countermeasure (NVG CM)
Human Systems			
Total	14	5	

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Human Systems			
Total	14	5	

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MEMORANDUM

From: HMC(SW) R. L. DEAN

1. The enclosed list of publications are designated as "Peer Reviewed" by the symbol +, and are designated either as human systems or manpower and personnel type research, as we discussed on the phone.

2. The following breakdown of personnel in regard to CSF support is as follows:

	HUMAN SYSTEMS	MANPOWER AND PERSONNEL
HIGH SCHOOL	13	0
ASSOCIATES	2	0
BACHELORS	14	0
MASTERS	7	1
DOCTORATE	15	4

R. L. DEAN

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3.2.4.2 How many papers were published in peer reviewed journals? (BRAC Criteria I)

CSF	Number Published	Paper Titles (List)
Manpower and Personnel	17	See # below
Human Systems	54	See + below
TOTAL	71	

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Holmes, G.P., Hilliard, J.K., Klontz, K.C., Rupert, A.H., Schindler, C.M., Parrish, E., Griffin, G., Ward, G.S., Bernstein, N.D., Bean, T.W., Ball, M.R., Sr., Brady, J.A., Wilder, M.H., and Kaplan, J.E., "B Virus (*Herpesvirus simiae*) Infection in Humans: Epidemiologic Investigation of a Cluster." *Annals of Internal Medicine*, Vol. 112, No. 11, pp. 833-839, June 1990.

+ Marsh, J.S. and Temme, L.A., "Optical Factors in Judgments of Size Through an Aperture." *Human Factors*, Vol. 32, No. 1, pp. 109-118, February 1990.

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Cushman, W.B., "A Low-cost Spatial Contrast Sensitivity Display Driver." *Behavior Research Methods, Instruments, & Computers*, Vol. 24, No. 3, pp. 461-463, August 1992. (AD A259 167)

D'Andrea, J.A., Knepton, J.C., and Reddix, M.D., "Effects of Laser Glare on Visual Search Performance." *SPIE International Symposium and Exhibition on Optical Engineering and Photonics*, 20-24 April 1992, Orlando, FL, Vol. 1694, pp. 60-65. (AD A265 172)

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+ Delaney, H.D., "Dichotic Listening and Psychomotor Task Performance as Predictors of Naval Primary Flight Training Criteria." *The International Journal of Aviation Psychology*, Vol. 2, No. 2, pp. 107-120, July 1992. (AD A260 520)

Dolgin, D.L., Street, D.R., Nontasak, T., Blower, D.J., and Travis, K., "Operational Implementation of a Validated Personnel Selection System for Landing Craft Air Cushion (LCAC) Vehicle Operators." *Proceedings of the 13th Biennial Psychology in the Department of Defense*, Colorado Springs, CO, 15-17 April 1992, pp. 66-70. (AD A259 059)

+ Guedry, F.E., "Perception of Motion and Position Relative to the Earth." *Annals of the New York Academy of Sciences*, Vol. 656, pp. 315-328, May 1992.

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3.3.1 FY93 Workload

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Revised pg

3.3.1.1. **Work Year and Lifecycle:** Identify the number of actual workyears executed for each applicable CSF in FY93 for each of the following: government civilian; military; on-site FFRDCs; and on-site SETAs. (BRAC Criteria I)

"LAB"	Fiscal Year 1993 Actual			
	Civilian	Military	FFRDC	SETA
Science & Technology	20.0	15.0	0	0
Engineering Development	2.0	0	0	0
In-Service Engineering	0	0	0	0

ITEM 3.3. N/A FOR UIC 66452

3.3 Workload

3.3.1 FY93 Workload

3.3.1.1 **Work Year and Lifecycle:** Identify the number of actual workyears executed for each applicable CSF in FY93 for each of the following: government civilian; military; on-site FFRDCs; and on-site SETAs. (BRAC Criteria I)

"LAB"	Fiscal Year 1993 Actual			
	Civilian	Military	FFRDC	SETA
Science & Technology				
Engineering Development				
In-Service Engineering				

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3.3 Workload

3.3.1 FY93 Workload

3.3.1.1 **Work Year and Lifecycle:** Identify the number of actual workyears executed for each applicable CSF in FY93 for each of the following: government civilian; military; on-site FFRDCs; and on-site SETAs. (BRAC Criteria I)

Revised pg

ITEM 3.3.1.2. N/A FOR UIC 66452

3.3.1.2 **Engineering Development By ACAT:** For each Common Support Function (e.g. airborne C4I) at each activity engaged in engineering development, provide:

- For each ACAT IC, ID, and II program (as defined in DODI 5000.2):
  - The name of the program
  - A brief program description

- For each ACAT III and IV programs:
  - The number of such programs
  - A list of program names

- For each program not an ACAT I, II, III, IV:
  - The number of such programs
  - A list of program names

- For the purpose of this question, any program between Milestone I and IV and containing demonstration and validation (Dem/Val 6.4)/Engineering and Manufacturing Development (EMD 6.5) funds in the FY95 PBS is considered to be engaged in engineering development (BRAC Criteria I).

Engineering Development	Name or Number	Workyears (FY93 Actual)	FY93 Funds Received (Obligation Authority)	Narrative
ACAT IC	(Name)			(Description)
ACAT ID	(Name)			(Description)
ACAT II	(Name)			(Description)
ACAT III/IV	(Number)			(List)
Other	(Number)			(List)

ITEM 3.3.1.2. N/A FOR UIC 66452

3.3.1.2 **Engineering Development By ACAT:** For each Common Support Function (e.g. airborne C4I) at each activity engaged in engineering development, provide:

- For each ACAT IC, ID, and II program (as defined in DODI 5000.2):
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- For the purpose of this question, any program between Milestone I and IV and containing demonstration and validation (Dem/Val 6.4)/Engineering and Manufacturing Development (EMD 6.5) funds in the FY95 PBS is considered to be engaged in engineering development (BRAC Criteria I).

Engineering Development	Name or Number	Workyears (FY93 Actual)	FY93 Funds Received (Obligation Authority)	Narrative
ACAT IC	(Name)			(Description)
ACAT ID	(Name)			(Description)
ACAT II	(Name)			(Description)
ACAT III/IV	(Number)			(List)
Other	(Number)			(List)

"LAB"	Fiscal Year 1993 Actual			
	Civilian	Military	FFRDC	SETA
Science & Technology	20.0	15.0	0	0
Engineering Development	2.0	0	0	0
In-Service Engineering	0	0	0	0

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ITEM 3.3.1.3. N/A FOR UIC 66452

3.3.1.3 **In-Service Engineering:** For each Common Support Function at each activity engaged in in-service engineering, list the in-service engineering efforts, the FY93 funds (from all sources) obligated for these efforts, the FY93 workyears for these efforts, and the weapon system(s) supported by these efforts. In-service engineering consists of all engineering support of fielded and/or out of production systems and includes efforts to improve cost, throughput, and schedule to support customer requirements as well as mods and upgrades for reliability, maintainability, and performance enhancements. (BRAC Criteria I) None

Common Support Functions	In-Service Engineering Efforts (List)	FY93 Actual		Weapon System(s) Supported
		Funds Received (Obligation Authority)	Workyears	
None				

3.3.2 **Projected Funding**

3.3.2.1 **Direct Funding:** For each applicable CSF, identify direct mission funding by appropriation from FY94 to FY97. Use FY95 PBS for FY95-FY97. (BRAC Criteria I)

CSF	FY94	FY95	FY96	FY97
Human Systems	4.711	4.496	4.460	4.214
Manpower/Personnel	.313	.339	.349	370

3.3.2.2 **Other Obligation Authority:** For each applicable CSF, identify reimbursable and direct-cite funding (other obligation authority expected) from FY94 to FY97. Funding allocation must be traceable to FY95 PBS. (BRAC Criteria I)

CSF	FY94	FY95	FY96	FY97
Human Systems	.408	4.287	4.375	4.350
Manpower/Personnel	.50	.50	.0	.0

ITEM 3.3.1.3. N/A FOR UIC 66452

3.3.1.3 **In-Service Engineering:** For each Common Support Function at each activity engaged in in-service engineering, list the in-service engineering efforts, the FY93 funds (from all sources) obligated for these efforts, the FY93 workyears for these efforts, and the weapon system(s) supported by these efforts. In-service engineering consists of all engineering support of fielded and/or out of production systems and includes efforts to improve cost, throughput, and schedule to support customer requirements as well as mods and upgrades for reliability, maintainability, and performance enhancements. (BRAC Criteria I)

Common Support Functions	In-Service Engineering Efforts (List)	FY93 Actual		Weapon System(s) Supported
		Funds Received (Obligation Authority)	Workyears	

3.3.2 **Projected Funding**

3.3.2.1 **Direct Funding:** For each applicable CSF, identify direct mission funding by appropriation from FY94 to FY97. Use FY95 PBS for FY95-FY97. (BRAC Criteria I)

CSF	FY94	FY95	FY96	FY97

3.3.2.2 **Other Obligation Authority:** For each applicable CSF, identify reimbursable and direct-cite funding (other obligation authority expected) from FY94 to FY97. Funding allocation must be traceable to FY95 PBS. (BRAC Criteria I)

CSF	FY94	FY95	FY96	FY97

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ITEM 3.3.1.2. N/A FOR UIC 66452

3.3.1.2 **Engineering Development By ACAT:** For each Common Support Function (e.g. airborne C4I) at each activity engaged in engineering development, provide:

- For each ACAT IC, ID, and II program (as defined in DODI 5000.2):
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- For the purpose of this question, any program between Milestone I and IV and containing demonstration and validation (Dem/Val 6.4)/Engineering and Manufacturing Development (EMD 6.5) funds in the FY95 PBS is considered to be engaged in engineering development (BRAC Criteria I).

Engineering Development	Name or Number	Workyears (FY93 Actual)	FY93 Funds Received (Obligation Authority)	Narrative
ACAT IC	(Name)			(Description)
ACAT ID	(Name)			(Description)
ACAT II	(Name)			(Description)
ACAT III/IV	(Number)			(List)
Other	(Number)			(List)

Revised pg

3.4 Facilities and Equipment

3.4.1 **Major Equipment and Facilities:** Describe major facilities and equipment necessary to support each Common Support Function (include SCIFs). If the facilities and equipment are shared with other functions, identify those functions and the percentage of total time used by each of the functions. Provide labeled photographs that picture the breadth and scope of the equipment and facilities described. If it is unique to DOD, to the Federal Government, or to the US, describe why it is unique. Insert the replacement cost. For this exercise, Replacement cost = (Initial cost + capital investment) multiplied by the inflation factor for the original year of construction. (BRAC Criteria II)

Common Support Function	Major Facility or Equipment Description	Unique To			Replacement Cost ($K)
		DOD	Federal Gov't	U. S.	
Human Systems	Building 1953				7,533
Human Systems	Building 1811				2,728
Human Systems	Building 3233				927
Human Systems	Coriolis Acceleration Platform[1]	X			20,000
Human Systems	Dynasim[2]	X			5,000
Human Systems	EMR Anochoic Chamber				30
Human Systems	Environmental Chamber				60
Human Systems	FPS 7B Radar Unit				5,000
Human Systems	FBS 26 Radar Unit				3,500
Human Systems	Human Disorientation Device[3]	X			10,000

[1]The CORIOLIS ACCELERATION PLATFORM (CAP) is the only device worldwide capable of applying combined linear and angular acceleration to the human subject. It is also the only device in the DoD inventory available to study chronic exposure to altered G environments. The CAP is a combined linear and angular motion device, which utilizes two independently controlled power servomechanism drive systems to generate acceleration stimuli originated as a result of rotation about an Earth-vertical axis, and/or rectilinear translation along an Earth-horizontal axis. The device has a 20-ft diameter room, which contains complete life-support and bioinstrumentation equipment for the exposure of 4-8 men to continuous rotation for 30 days or longer. The angular motion drive system is rated to produce velocities to 33 rpm at angular accelerations up to 15 deg/s^2. The CAP, formerly the Slow Rotating Room, was built by K.D.T. Manufacturing Co. of Roseland, New Jersey, with NASA funds. It was installed in 1965.

The CAP has a linear track that passes through the center of the rotating room (capsule) and permits movement of an encapsulated subject along a rail extending 20 ft on either side of the center of rotation. The Counter Rotator of an additional rotating device that can be secured to the platform of the linear track can be rotated in the same direction or opposite to the direction of rotation of the CAP. It can also remain motionless (that is, not rotating but sliding down the rail) and give the illusion of a sudden change in the direction of rotation as it passes through the center of the rotating room. An environmentally controlled room can also be placed on one end of the rotating arm, and subjects can be tested a varying light levels under

3.4 Facilities and Equipment

3.4.1 **Major Equipment and Facilities:** Describe major facilities and equipment necessary to support each Common Support Function (include SCIFs). If the facilities and equipment are shared with other functions, identify those functions and the percentage of total time used by each of the functions. Provide labeled photographs that picture the breadth and scope of the equipment and facilities described. If it is unique to DOD, to the Federal Government, or to the US, describe why it is unique. Insert the replacement cost. For this exercise, Replacement cost = (Initial cost + capital investment) multiplied by the inflation factor for the original year of construction. (BRAC Criteria II)

Common Support Function	Major Facility or Equipment Description	Unique To			Replacement Cost ($K)
		DOD	Federal Gov't	U. S.	
Human Systems	Building 1953				7,533
Human Systems	Building 1811				2,728
Human Systems	Building 3233				927
Human Systems	Coriolis Acceleration Platform[1]	X			20,000
Human Systems	Dynasim[2]	X			5,000
Human Systems	EMR Anochoic Chamber				30
Human Systems	Environmental Chamber				60
Human Systems	FPS 7B Radar Unit				5,000
Human Systems	FBS 26 Radar Unit				3,500
Human Systems	Human Disorientation Device[3]	X			10,000

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ITEM 3.3.1.3. N/A FOR UIC 66452

3.3.1.3 **In-Service Engineering:** For each Common Support Function at each activity engaged in in-service engineering, list the in-service engineering efforts, the FY93 funds (from all sources) obligated for these efforts, the FY93 workyears for these efforts, and the weapon system(s) supported by these efforts. In-service engineering consists of all engineering support of fielded and/or out of production systems and includes efforts to improve cost, throughput, and schedule to support customer requirements as well as mods and upgrades for reliability, maintainability, and performance enhancements. (BRAC Criteria I) **None**

Common Support Functions	In-Service Engineering Efforts (List)	FY93 Actual		Weapon System(s) Supported
		Funds Received (Obligation Authority)	Workyears	
None				

3.3.2 **Projected Funding**

3.3.2.1 **Direct Funding:** For each applicable CSF, identify direct mission funding by appropriation from FY94 to FY97. Use FY95 PBS for FY95-FY97. (BRAC Criteria I)

CSF	FY94	FY95	FY96	FY97
Human Systems	4.711	4.496	4.460	4.214
Manpower/Personnel	.313	.339	.349	370

3.3.2.2 **Other Obligation Authority:** For each applicable CSF, identify reimbursable and direct-cite funding (other obligation authority expected) from FY94 to FY97. Funding allocation must be traceable to FY95 PBS. (BRAC Criteria I)

CSF	FY94	FY95	FY96	FY97
Human Systems	.408	4.287	4.375	4.350
Manpower/Personnel	.50	.50	.0	.0

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varying physiological conditions. Slip rings permit extensive physiological monitoring of the subject during rotation. The contribution of this device to vestibular research has been invaluable since its installation. It has enabled scientists to make accurate simulations of many bizarre combinations of force stimuli and their effects on aerospace crewmen under carefully controlled conditions. Data gathered by various studies utilizing the CAP continue to contribute significantly to the success of the space program and to the safety and well-being of the astronauts.

[2]The Vertifuge or DYNAMIC SIMULATOR (DYNASIM) was installed in 1984 to augment existing NAMRL facilities for research on spatial awareness. This device consists of three main components: A motion system, a visual surround for presentation of Earth-fixed or moving targets, and a computer-controlled system. The motion system is a short-arm centrifuge that provides yaw-axis rotation of an off-center cockpit housed in an aircraft-like fuselage capable of motion about its own pitch-and-roll axes. The computer system presents a variety of displays on two scopes (cathode ray tubes) in the cockpit instrument panel. Currently available scope displays include an Attitude Direction Indicator and five tests of cognitive performance. A functional Malcolm Horizon can also be displayed across the face of the panel. The main axis of the rotary device is centered in a 50-ft diameter white visual surround for presentation of patterns and targets external to the cockpit. Eleven overhead projectors display Earth-fixed or moving scenes and patterns on the visual surround. The chamber wall has been specially prepared for the overhead projection of different visual patterns and scenes viewed by the subject through a clear cockpit canopy, in selected experimental situations. In general, the chamber is kept in complete darkness except during experimental conditions requiring intermittent exposure to the visual stimuli projected on the chamber wall. Five "on-board" projectors can present targets at different angular displacements relative to the subject in the cockpit. Motion characteristics about pitch-and-roll axes and change in visual displays (cockpit and external target) are under computer control. In the cockpit, the "pilot" can fly by instruments and counteract computer control of the device. The computer provides immediate assessment of "man-in-the-loop" performance. The Vertifuge is currently being used to study pilot disorientation, which has been the direct cause of numerous accidents resulting in loss of life and hundreds of millions of dollars worth of aircraft.

[3]The HUMAN DISORIENTATION DEVICE (HDD) is unique in that it is capable of accelerating an instrumented human subject about two head-centered axes simultaneously. Such a tool is indispensable to help differentiate the relative roles played by the various sensory systems involved in the production of disorientation as well as to examine the contribution of each system and subsystem to motion sickness. The HDD is another instrument employed for studying the effects of disorientation caused by rotation and tumbling. The device looks like a large cement mixer and was designed to permit rotation about both an Earth-vertical or Earth-horizontal axis, either singly or in combination, through a speed range of up to 60 rpm. The HDD differs substantially from the Pate device in that the axes of rotation can be made to pass through the intersection of the interaural and naso-occipital lines. The HDD is also unique in that it permits isolation and stimulation of specific portions of the organs of balance in the middle ear. This device, in continuous use since installation in 1960, has provided direct support for many basic and applied research projects sponsored by both the Navy and NASA. Training with this device was responsible for saving the life and mission of one of the early Mercury astronauts who experienced a mechanical malfunction resulting in a violent uncontrolled multiaxial rotation of his space capsule.

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3.4 Facilities and Equipment

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Human Systems	Environmental Chamber				60
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3.5 Expansion Potential

3.5.1 **Laboratory Facilities:** Use facilities records as of fourth-quarter FY93 in answering the following (in sq ft) for each CSF: (BRAC Criteria II)

Common Support Function	Facility or Equipment Description	Type of Space*	Space Capacity (KSF)		
			Current	Used	Excess
Human Systems	Building 3233	Administrative	1.6	1.6	
Human Systems	Building 3233	Technical	4.1	4.1	
Human Systems	Building 3233	Storage	1.7	1.7	
Human Systems	Building 3233	Utility	.7	.7	
Human Systems	Building 1953	Administrative	7.8	7.8	
Human Systems	Building 1953	Technical	31.5	31.5	
Human Systems	Building 1953	Storage	.9	.9	
Human Systems	Building 1953	Utility	25.0	25.0	
Human Systems	Building 1811	Administrative	2.6	2.6	
Human Systems	Building 1811	Technical	9.1	9.1	
Human Systems	Building 1811	Storage	1.2	1.2	
Human Systems	Building 1811	Utility	10.6	10.6	

* Administrative, Technical, Storage, Utility

3.5.1.1 Describe the capacity of your activity to absorb additional similar workyears categorized in the same common support function with minor facility modification. If major modification is required, describe to what extent the facilities would have to be modified. (Use FY97 workyears as your requirement) (BRAC Criteria III).

Minor modifications only.

3.5.1.2 If there is capacity to absorb additional workyears, how many additional workyears can be supported? (BRAC Criteria III)

Approximately 10 additional work years.

3.5.1.3 For 3.5.1.1 and 3.5.1.2 (above) describe the impact of military construction programs or other alteration projects programmed in the FY95 PBS. (BRAC Criteria II) None

3.5.2 **Land Use:** Provide number of buildable acres for additional laboratory/administrative support construction at your installation. (BRAC Criteria II)

Naval Aerospace Medical Research Laboratory is a tenant command.

3.5 Expansion Potential

3.5.1 **Laboratory Facilities:** Use facilities records as of fourth-quarter FY93 in answering the following (in sq ft) for each CSF: (BRAC Criteria II)

Common Support Function	Facility or Equipment Description	Type of Space*	Space Capacity (KSF)		
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Human Systems	Building 1811	Technical	9.1	9.1	
Human Systems	Building 1811	Storage	1.2	1.2	
Human Systems	Building 1811	Utility	10.6	10.6	

* Administrative, Technical, Storage, Utility

ITEM 3.5.1.1. N/A FOR UIC 66452

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ITEM 3.5.1.2. N/A FOR UIC 66452

3.5.1.2 If there is capacity to absorb additional workyears, how many additional workyears can be supported? (BRAC Criteria III)

ITEM 3.5.1.3. N/A FOR UIC 66452

3.5.1.3 For 3.5.1.1 and 3.5.1.2 (above) describe the impact of military construction programs or other alteration projects programmed in the FY95 PBS. (BRAC Criteria II)

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Revised pg

3.5.3 **Utilities:** Provide an estimate of your installation's capability to expand or procure additional utility services (electric, gas, water). Estimates should be provided in appropriate units -- e.g. KWH of electricity. (BRAC Criteria II)

Utilities are provided by NAS. We have unlimited procurement opportunity.

ITEM 3.5.2. N/A FOR UIC 66452

3.5.2 **Land Use:** Provide number of buildable acres for additional laboratory/administrative support construction at your installation. (BRAC Criteria II)

ITEM 3.5.3. N/A FOR UIC 66452

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[9]The HUMAN DISORIENTATION DEVICE (HDD) is unique in that it is capable of accelerating an instrumented human subject about two head-centered axes simultaneously. Such a tool is indispensable to help differentiate the relative roles played by the various sensory systems involved in the production of disorientation as well as to examine the contribution of each system and subsystem to motion sickness. The HDD is another instrument employed for studying the effects of disorientation caused by rotation and tumbling. The device looks like a large cement mixer and was designed to permit rotation about both an Earth-vertical or Earth-horizontal axis, either singly or in combination, through a speed range of up to 60 rpm. The HDD differs substantially from the Pate device in that the axes of rotation can be made to pass through the intersection of the interaural and naso-occipital lines. The HDD is also unique in that it permits isolation and stimulation of specific portions of the organs of balance in the middle ear. This device, in continuous use since installation in 1960, has provided direct support for many basic and applied research projects sponsored by both the Navy and NASA. Training with this device was responsible for saving the life and mission of one of the early Mercury astronauts who experienced a mechanical malfunction resulting in a violent uncontrolled multiaxial rotation of his space capsule.

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Human Systems	Building 1811	Administrative	2.6	2.6	
Human Systems	Building 1811	Technical	9.1	9.1	
Human Systems	Building 1811	Storage	1.2	1.2	
Human Systems	Building 1811	Utility	10.6	10.6	

* Administrative, Technical, Storage, Utility

3.5.1.1 Describe the capacity of your activity to absorb additional similar workyears categorized in the same common support function with minor facility modification. If major modification is required, describe to what extent the facilities would have to be modified. (Use FY97 workyears as your requirement) (BRAC Criteria III).

Minor modifications only.

3.5.1.2 If there is capacity to absorb additional workyears, how many additional workyears can be supported? (BRAC Criteria III)

Approximately 10 additional work years.

3.5.1.3 For 3.5.1.1 and 3.5.1.2 (above) describe the impact of military construction programs or other alteration projects programmed in the FY95 PBS. (BRAC Criteria II)
None

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3.5.2 **Land Use:** Provide number of buildable acres for additional laboratory/administrative support construction at your installation. (BRAC Criteria II)

Naval Aerospace Medical Research Laboratory is a tenant command.

3.5.3 **Utilities:** Provide an estimate of your installation's capability to expand or procure additional utility services (electric, gas, water). Estimates should be provided in appropriate units -- e.g. KWH of electricity. (BRAC Criteria II)

Utilities are provided by NAS. We have unlimited procurement opportunity.

SECTION IV: APPENDICES

A. Macro Process/Schedule
B. List of Activities
C. Common Support Functions

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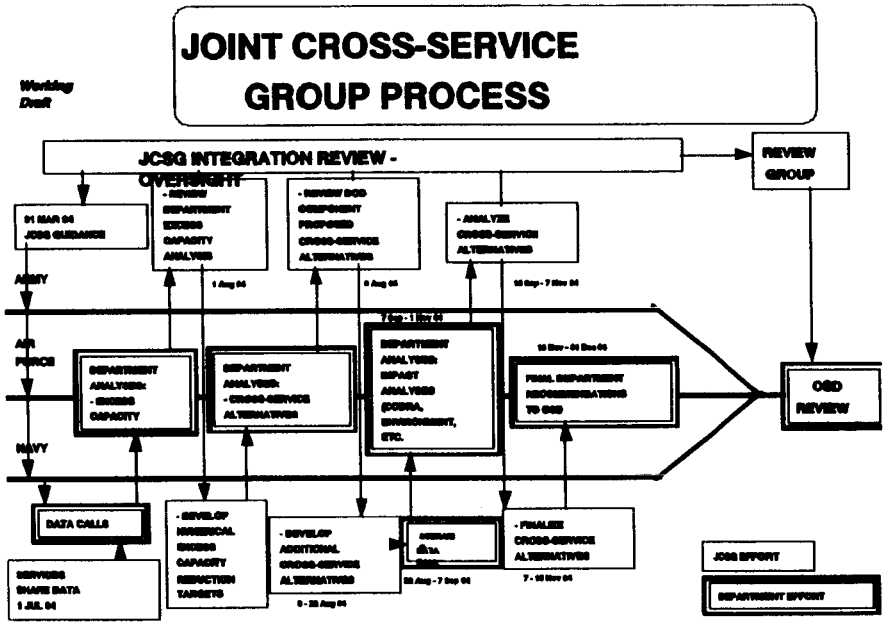
APPENDIX A


JOINT CROSS-SERVICE
GROUP PROCESS
Working Draft
JCSG INTEGRATION REVIEW -
REVIEW GROUP
ARMY
AIR FORCE
NAVY
OSD REVIEW
DATA CALLS

APPENDIX B

LIST OF ACTIVITIES

AIR FORCE

1. Armstrong Lab, Brooks AFB
2. Armstrong Lab, Tyndall AFB
3. Armstrong Lab, Wright-Patterson AFB
4. Armstrong Lab, Williams AFB
5. Human Systems Center, Brooks AFB
6. Wright Lab, Wright-Patterson AFB
7. Wright Lab, Eglin AFB
8. Aeronautical Systems Center, Wright-Patterson AFB
9. Aeronautical Systems Center, Eglin AFB
10. Oklahoma City Air Logistics Center, Tinker AFB (In-service engineering)
11. Ogden Air Logistics Center, Hill AFB (In-service engineering)
12. San Antonio Air Logistics Center, Kelly AFB (In-service engineering)
13. Sacramento Air Logistics Center, McClellan AFB (In-service engineering)
14. Warner-Robins Air Logistics Center, Robins AFB (In-service engineering)
15. Phillips Lab, Kirtland AFB
16. Phillips Lab, Hanscom AFB
17. Phillips Lab, Edwards AFB
18. Space & Missile Center, Los Angeles AFB
19. Space & Missile Center, Norton AFB
20. Sacramento Air Logistics Center, Peterson AFB
21. Rome Lab, Griffiss AFB
22. Rome Lab, Hanscom AFB
23. Electronic Systems Center, Hanscom AFB
24. Sacramento Air Logistics Center, Peterson AFB (In-service engineering)

ARMY

1. Army Research Lab (ARL), Adelphi, MD
2. ARL, Aberdeen Proving Grounds (APG), MD
3. ARL, White Sands Missile Range, NM
4. ARL, NASA Langley, VA
5. ARL, NASA Lewis, OH
6. Natick Research, Development and Engineering Center, Natick, MA
7. Aviation Research, Development and Engineering Center, St Louis, MO
8. Aviation Troop Command, Aeroflight Dynamics Directorate, Moffitt Field, CA
9. Aviation Troop Command, Aviation Applied Technology Directorate, Fort Eustis, VA
10. Edgewood Research, Development and Engineering Center, Aberdeen Proving Ground, MD
11. Communications Electronics Command Research, Development and Engineering Center, Ft Mammoth, NJ
12. Communication Electronics Command Research, Development and Engineering Center - Night Vision EO Directorate, Ft Belvoir, VA
13. Missile Research, Development and Engineering Center, Redstone Arsenal, AL

14. Armaments Research, Development and Engineering Center, Picatinny Arsenal, NJ
15. Armaments Research, Development and Engineering Center, Benet Labs, Watervliet Arsenal, NY
16. Tank-Automotive Command Research, Development and Engineering Center, Warren, MI
17. USA Research Institute of Infectious Diseases, Ft Detrick, MD
18. Walter Reed Army Institute of Research, Washington D.C.
19. USA Institute of Surgical Research, Ft Sam Houston, TX
20. USA Aeromedical Research Lab, Ft Rucker, AL
21. Medical Research Institute of Chemical Defense Aberdeen Proving Grounds, MD
22. USA Research Institute of Environmental Medicine, Natick, MA
23. Construction Engineering Research Laboratory, Champaign, IL
24. Cold Regions Research and Engineering Lab, Hanover, NH
25. Topographic Engineering Center, Alexandria, VA
26. Waterways Experiment Station, Vicksburg, MS
27. USA Research Institute for Behavioral & Social Sciences, Alexandria, VA
28. Simulation, Training and Instrumentation Command (STRICOM), Orlando, FL

NAVY

1. Naval Air Warfare Center, Weapons Division, China Lake
2. Naval Air Warfare Center, Weapons Division, Point Mugu
3. Naval Air Warfare Center, Aircraft Division, Patuxent River
4. Naval Air Warfare Center, Aircraft Division, Indianapolis
5. Naval Air Warfare Center, Aircraft Division, Lakehurst
6. Naval Research Lab, Washington D.C.
7. Naval Research Lab Detachment, Bay St Louis
8. Naval Surface Warfare Center, Carderock Division, Bethesda
9. Naval Surface Warfare Center, Carderock Detachment, Annapolis
10. Naval Surface Warfare Center, Crane Division
11. Naval Surface Warfare Center, Crane Detachment, Louisville
12. Naval Surface Warfare Center, Dahlgren Division
13. Naval Surface Warfare Center, Dahlgren Detachment, Panama City
14. Naval Surface Warfare Center, Indian Head Division
15. Naval Surface Warfare Center, Port Hueneme Division
16. Naval Command, Control, and Ocean Surveillance Center, RDT&E Division, San Diego
17. Naval Command, Control, and Ocean Surveillance Center, In-Service Engineering, West Coast Division, San Diego
18. Naval Command, Control, and Ocean Surveillance Center, In-Service Engineering Division, Charleston
19. Naval Aerospace Medical Research Center, Pensacola
20. Naval Biodynamics Lab, New Orleans
21. Naval Dental Research Lab, Great Lakes
22. Naval Health Research Center, San Diego
23. Naval Medical Research Institute, Bethesda
24. Naval Undersea Warfare Center, Keyport Division, WA
25. Naval Surface Warfare Center, Carderock, Philadelphia Detachment
26. Naval Undersea Warfare Center, Newport, RI
27. Naval Undersea Warfare Center (Newport), New London, CT
28. Naval Personnel Research and Development Center, San Diego, CA

DEPARTMENT OF DEFENSE

1. Armed Forces Radiobiology Research Institute (AFRRI), Bethesda, MD

APPENDIX C

COMMON SUPPORT FUNCTIONS
(DEFINITIONS LISTED FOLLOWING PAGES)

Product Functions

1. Air Vehicles
   - Fixed
     - -- Structure
     - -- Propulsion
     - -- Avionics
     - -- Flight Subsystems
   - Rotary
     - -- Structure
     - -- Propulsion
     - -- Avionics
     - -- Flight Subsystems

2. Weapons
   - ICBMs/SLBMs
   - Conventional Missiles/Rockets
   - Cruise Missiles
   - Guided Projectiles
   - Bombs
   - Guns and Ammunition
   - Directed Energy
   - Chemical/Biological

3. Space Systems
   - Launch Vehicles
   - Satellites
   - Ground Control Systems

4. C4I Systems
   - Airborne C4I
   - Fixed Ground-Based C4I
   - Ground Mobile C4I

Pervasive Functions

1. Electronic Devices
2. Environmental Sciences
3. Infectious Diseases
4. Human Systems
5. Manpower and Personnel
6. Training Systems
7. Environmental Quality
8. Advanced Materials

DEFINITIONS

COMMON SUPPORT FUNCTIONS

Product Functions

1. Air Vehicles. Air vehicles are broken out into common support functions for fixed wing and rotary wing. Includes but not limited to all science and technology, demonstration and validation, engineering development, and production activities which support employment and in-service engineering of air vehicles. Included are all air vehicles including their application as UAV's and targets.

- Structures. Includes but not limited to all air vehicles structure technology, engineering and production efforts. Include technology and engineering practices which advance structural design and analysis; advanced structural concepts and fabrication techniques; and structural integrity.

- Propulsion. Includes but not limited to all technology, engineering and production efforts associated with air vehicle propulsion such as turbine engine, rotorcraft power drive, and hypersonic propulsion components. Such components include compressors, inlets and nozzles, turbines, mechanical systems and control, gears, bearings, shafts, and clutches. In addition, include associated subsystems activities such as turborocket, turboramjet and rotorcraft transmissions; and supporting technical and engineering disciplines.

- Avionics. Includes but not limited to all technology, engineering and production efforts associated with the air platform's integrated avionics system. The avionics suite includes but is not limited to weapon delivery systems, electronic warfare, navigation, communications, radar, electro-optic sensors, signal/data processing and associated software system and support. Includes efforts associated with developing the integrated avionics system (i.e. optimizing functional partitioning, distribution and integration of avionics/related functions).

- Flight Subsystems. Includes but not limited to all technology, engineering and production efforts for air vehicle support systems such as landing gear; transparent crew enclosures; egress systems; mechanical equipment integrity; electrical component integrity; subsystem integration; and aircraft power, pressurization, and temperature control systems.

2. Weapons. Includes but not limited to all science and technology, demonstration and validation, engineering development, and production activities which support employment and in-service engineering of ICBMs/SLBMs, conventional missiles and rockets, cruise missiles, guided projectiles, bombs, guns and ammunition, directed energy and chemical/biological munitions. Include with each weapon as appropriate, all related technology, engineering and production activities such as fusing/safe and arm, missile propulsion, warheads and explosives, and guidance and control.

3. Space. Includes but not limited to all science and technology, demonstration and validation, engineering development, and production activities which support employment and in-service engineering of launch vehicles, satellites and associated ground control systems (satellite control only; ground systems for telemetry of data included in C4I). Include under satellites, all technology, engineering and production activities associated with space communications and space-based surveillance (and associated sensors) and space-based C4I.

4. C4I. Includes but not limited to all science and technology, demonstration and validation, engineering development, and production activities which support employment and in-service engineering of airborne, fixed ground-based and mobile ground based C4I systems. Include all technology, engineering and production activities associated with communications networks, radios and links, distributed information systems, data fusion, decision aids, and associated computer architectures.

Pervasive Functions (6.1, 6.2, and 6.3)

1. Electronic Devices. Includes but not limited to all science and technology activities supporting development of semiconductor and superconductor materials for optoelectronic, acoustic and microwave devices. Include all associated electronic materials/device fabrication and processing.

2. Environmental Sciences. Includes but not limited to all science and technology activities to improve measurement, characterization and modeling of the earth atmosphere and space environment. Examples include global prediction systems, space effects, and celestial backgrounds/astronomical reference sources.

3. Infectious Diseases. Includes but not limited to all science and technology activities which preserve manpower and performance by the prevention and treatment of militarily important infectious diseases that occur naturally worldwide.

4. Human Systems. Includes but not limited to all science and technology activities to enable, protect, sustain and enhance human effectiveness in DOD operations. The foc of this pervasive, multi-disciplinary area is the human and therefore impacts all DOD systems and operations. This area includes: (1) human performance definition, assessment, and aiding; (2) physiologic bioeffects of toxic hazards, ionizing and non-ionizing radiation, biodynamic (bio-mechanical) stress, and extreme environments; (3) military operational medicine; and (4) generic, human-centered design standards/methodologies for crew station subsystems, information management and display, and life support.

5. Manpower and Personnel. Includes but not limited to all science and technology activities which support four broad areas: (1) selection and classification of DOD personnel (including pilots); (2) identification of operational tasks performed and requirements for skills, knowledge, and aptitudes; (3) matching the right people with the jobs they are best suited for according to the needs of DOD, (4) and developing techniques for measuring and enhancing the productivity of the operational force.

6. Training Systems. Includes but not limited to all science and technology which support training of personnel, including training strategies, devices and simulators, and computer aided intelligent tutoring systems.

7. Environmental Quality. Includes but not limited to all science and technology activities which support the development of technologies to reduce the environmental costs of DOD operations while ensuring mission accomplishment is not jeopardized by adverse environmental impacts. Specifically, this area encompasses technologies to: (1) identify and cleanup sites contaminated with hazardous materials as a result of DOD operations (cleanup); (2) ensure DOD compliance with current and anticipated local, national, and international environmental laws and treaties (compliance); (3) minimize DOD use of hazardous materials and reduce DOD hazardous waste generation (pollution prevention); and (4) provide for protection of natural resources under DOD stewardship (conservation).

8. Advanced Materials. Includes but not limited to all science and technology activities related to structural, high temperature, electromagnetic protection, electronic, magnetic, optical, and biomolecular materials. Note: excludes materials areas which were included in DDR&E decision of 18 Mar 94 related to the Army's Materials Research Facility at Aberdeen Proving Ground and the Navy's Materials Facility at Carderock.

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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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.

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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

R. P. OLAFSON
NAME (Please type or print)

Raymond P. Olafson
Signature

ACTING COMMANDING OFFICER
Title

9 May 94
Date

NAVAL AEROSPACE 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)

E. T. FLYNN, CAPT, MC, USN
NAME (Please type or print)

Signature

COMMANDING OFFICER
Title

13 May 94
Date

Naval Medical Research and Development Command
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

RADM R. I. RIDENOUR
NAME (Please type or print)

Signature

ACTING CHIEF BUMED
Title

5-16-94
Date

BUREAU OF MEDICINE AND 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)

Signature

Acting
Title

19 May 1994
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

A. J. MATECZUN, CAPT, MC
NAME (Please type or print)

Signature

COMMANDING OFFICER
Title

Date: 09 AUG 1994

NAVAL AEROSPACE 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. J. SINGER, CDR MSC USN
NAME (Please type or print)

T. J. Singer
Signature

Acting Commanding Officer
Title

11 AUG 94
Date

NAVMEDRSCHDEVCOM BETHESDA MD
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)

Sig

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

RADM HAROLD M. KOENIG, MC, USN
NAME (Please type or print)

Signature

ACTING Chief, Bureau of Medicine and Surgery
Title

8/15/94
Date

Bureau of Medicine and 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)

Signature

ACTING
Title

22 AUG 1994
Date

REVISION DATED 8-24-94

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."

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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

J. C. PATEE
NAME (Please type or print)

J Patee
Signature

COMMANDING OFFICER
Title

24 AUG 94
Date

NAVAL AEROSPACE MEDICAL RESEARCH LAB
Activity

REVISION DATED 8-24-94

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

NEXT ECHELON LEVEL (if applicable)

T. N. JONES
NAME (Please type or print)

Signature

COMMANDING OFFICER
Title

NAVAL MEDICAL RESEARCH AND DEVELOPMENT COMMAND
Activity

30 Aug 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)

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

9-2-94
Date

BUREAU OF MEDICINE AND 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

9/12/94
Date

REVISION OF 9-14-94

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

NEXT ECHELON LEVEL (if applicable)

T. N. JONES, CAPT, MSC, USN

NAME (Please type or print)

Signature

COMMANDING OFFICER

Title

Date 22 Sept 94

NAVAL MEDICAL RESEARCH & DEVELOPMENT COMMAND

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 9-22-94

BUREAU OF MEDICINE AND SURGERY

Activity

REVISIONS OF 9-14-94

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

J. C. PATEE, CAPT, MSC, USN
NAME (Please type or print)

Signature

COMMANDING OFFICER
Title

14 SEPTEMBER 1994
Date

NAVAL AEROSPACE MEDICAL RESEARCH LABORATORY
Activity

ENCL 2

REVISIONS OF 9-14-94

BUMED
DATA CALL 12 REVISION
NAVAL AEROSPACE MEDICAL
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

Title

7/29/94
Date

Revision 9-15-94

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

J.C. PATEE, CAPT, MSC, USN
NAME (Please type or print)

J Patee
Signature

COMMANDING OFFICER
Title

15 SEPTEMBER 1994
Date

NAVAL AEROSPACE MEDICAL RESEARCH LABORATORY
Activity

ENCL (2)

Revision 9-15-94

BUMED
DATA CALL 12 - REVISION
Naval Aerospace Medical
Research Lab

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

9/21/94

Date

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

Naval Aerospace Medical Research Laboratory UIC: 66452

Contents

Section	Page
1. **Historical and Projected Workload**	1
2. **Current Class 2 Assets**	6
3. **Class 2 Space Available for Expansion**	14
4. **Class 1 Space Available for Expansion**	16
5. **Base Infrastructure Capacity**	17
6. **Ship Berthing Capacity**	20
7. **Operational Airfield Capacity**	20
8. **Depot Level Maintenance Capacity**	20
9. **Ordnance Storage Capacity**	20

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

7 April 1994

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

A. J. MATECZUN
NAME (Please type or print)

A. J. Mateczun
Signature

COMMANDING OFFICER
Title

29 Apr 94
Date

NAVAL AEROSPACE MEDICAL LABORATORY
Activity

Enclosure (4)

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 Naval Aerospace Medical Research Laboratory UIC: 66452

Fiscal Year	Total Funds Budgeted ($K)	Total Funds Received w/o Direct Cite ($K)	Direct Cite Funds Received ($K)	Budgeted Wkyrs	Actual In-House Wkyrs	Actual Onsite Contract Wkyrs
86	2,577.0	Unknown	3,656.6	Unknown	55.0	10.0
87	4,164.0	1,135.0	3,356.0	Unknown	54.0	14.0
88	3,793.0	1,492.0	4,220.0	Unknown	68.0	13.0
89	3,863.0	1,446.0	4,014.0	60.0	58.0	17.0
90	3,846.0	1,173.0	4,170.0	57.0	48.0	18.0
91	2,863.0	1,230.0	3,818.0	45.0	48.0	12.0
92	2,844.0	1,007.0	3,405.0	43.0	44.0	9.0
93	3,515.0	592.0	4,816.0	45.0	48.0	10.0
94	4,004.0			42.0		
95	8,963.0			32.0		
96	8,679.0			34.0		
97	8,852.0			35.0		

TABLE 1.2. N/A FOR UIC 66452

Table 1.2 Historical and Projected Workload for Detachments of Activity: N/A UIC N/A

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

TABLE 1.3 FY 1993 Breakout of Funds Budgeted for Naval Aerospace Medical Research Laboratory UIC: 66452

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
ONR	774.0	1,111.0	2,065.0	.0	395.0	471.0	.0							593.0	

TABLE 1.3 FY 1994 Breakout of Funds Budgeted for Naval Aerospace Medical Research Laboratory UIC: 66452

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
ONR	617.0	801.0	1,776.4	.0	1,345.0	485.0	.0							398.1	

TABLE 1.3 FY 1995 Breakout of Funds Budgeted for Naval Aerospace Medical Research Laboratory UIC: 66452

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
ONR	1,207.0	1,060.0	1,696.0	.0	300.0	.0	.0	4,700.0						.0	

TABLE 1.3 FY 1996 Breakout of Funds Budgeted for
Naval Aerospace Medical Research Laboratory UIC: 66452

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
ONR	1,235.0	1,080.0	1,714.0	.0	300.0	.0	.0	4,250.0						.0	

TABLE 1.3 FY 1997 Breakout of Funds Budgeted for
Naval Aerospace Medical Research Laboratory UIC: 66452

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
ONR	1,265.0	1,120.0	1,779.0	.0	338.0	.0	.0	4,350.0						.0	

TABLE 1.4. N/A FOR UIC 66452

TABLE 1.4 FY 199_ BREAKOUT OF FUNDS BUDGETED for DETACHMENTS of
Activity: N/A UIC: N/A

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

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. N/A FOR UIC 66452

Table 2.1 Main Site Class 2 Assets of
Naval Aerospace Medical Research Laboratory UIC: 66452

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				

ITEM D. N/A FOR UIC 66452

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 2.2. N/A FOR UIC 66452

Table 2.2 Main Site Class 2 Space of Activity N/A UIC: N/A Assigned to Tenants

TENANT		NAVFAC (P-80) Category Code	GF/BA Assigned (KSF)
Name	UIC		
		Total:	

TABLE 2.3. N/A FOR UIC 66452

Table 2.3 Class 2 Space Utilized/Leased by
Naval Aerospace Medical Research Laboratory UIC: 66452

Plant Account Holder UIC: 00204 Building type	NAVFAC (P-80) category code	GF/BA (KSF)			
		Adequate	Sub-standard	In-adequate	Total
Operational & Training	100				
Maintenance & Production	200	~~96.6~~			~~96.6~~
Science labs	310	94.1			94.1
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	16.8 ~~19.5~~	2.7		19.5
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	826	3.8			3.8
	Totals	114.7 ~~119.9~~	2.7		117.4 ~~119.0~~

TABLE 2.3. N/A FOR UIC 66452

Table 2.3 Class 2 Space Utilized/Leased by
Naval Aerospace Medical Research Laboratory UIC: 66452

Plant Account Holder UIC: 00204 Building type	NAVFAC (P-80) category code	GF/BA (KSF)			
		Adequate	Sub-standard	In-adequate	Total
Operational & Training	100				
Maintenance & Production	200	96.6			96.6
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	19.5			19.5
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	826	3.8			3.8
	Totals	119.9			119.0

For your Detachment sites not receiving this Data Call directly:

ITEM E. N/A FOR UIC 66452

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.

ITEM F. N/A FOR UIC 66452

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.

ITEM G. N/A FOR UIC 66452

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. N/A FOR UIC 66452

Table 2.4 Class 2 Assets of
Activity: N/A Occupied by Detachments

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				

ITEM H. N/A FOR UIC 66452

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 2.5. N/A FOR UIC 66452

Table 2.5 Class 2 Space at Detachment Sites of _____ (UIC _____)
Assigned to Tenants

TENANT			
Name	UIC	NAVFAC (P-80) Category Code	GF/BA (KSF) Assigned
		Total:	

TABLE 2.6. N/A FOR UIC 66452

Table 2.6 Class 2 Space Utilized/Leased by Detachments of Activity: N/A UIC: N/A

Building type	NAVFAC (P-80) category code	GF/BA (KSF)			
		Adequate	Sub-standard	In-adequate	Total-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				

ITEM 3. N/A FOR UIC 66452

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. _____ 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. _____ 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.

TABLE 3.1. N/A FOR UIC 66452

Table 3.1 Constrained Class 2 Space Available for Expansion at Naval Aerospace Medical Research Laboratory UIC: 66452

Building # / Category Code (3 digit)	Current NFA (KSF)	Additional Capacity Provided By Expansion		Height of High Bay (FT)	Estimated Cost of Rehab ($K's)
		NFA (KSF)	# of Personnel		
Totals					

TABLE 3.2. N/A FOR UIC 66452

Table 3.2 Unconstrained Class 2 Space Available for Expansion at Naval Aerospace Medical Research Laboratory UICL 66452

Building # / Category Code (3 digit)	Current NFA (KSF)	Additional Capacity Provided By Expansion		Height of High Bay (FT)	Estimated Cost of Rehab ($K's)
		NFA (KSF)	# of Personnel		
Totals					

ITEM 4. N/A FOR UIC 66452

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?

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

Class 1 Resources of
Naval Aerospace Medical Research Laboratory UIC: 66452
Site Location: _____

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.

ITEM 5. N/A FOR UIC 66452

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

	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				

ITEM B & TABLE 5.2. N/A FOR UIC 66452

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 Naval Aerospace Medical Research Laboratory UIC: 66452

Fiscal Year	MRP ($M)	CPV ($M)	ACE ($M)
1985			
1986			
1987			
1988			
1989			
1990			
1991			
1992			
1993			
1994			
1995			
1996			
1997			

ITEM C. N/A FOR UIC 66452

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.

Type of Training Facility/CCN	School	Type of Training	FY 1993 Requirements			FY 2001 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.

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.

ITEMS 6-9. N/A FOR UIC 66452

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. N/A FOR UIC 66452

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:

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.

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

2. **[12.]** For each Pier/Wharf at your facility list the following ship support characteristics:

Table 12.1

Pier/ Wharf	OPNAV 3000.8 (Y/N)	Shore Pwr (KVA) & 4160V (KVA)	Comp. Air Press. & Capacity[1]	Potable Water (GPD)	CHT (GPD)	Oily Waste[1] (gpd)	Steam (lbm/hr & PSI)[2]	Fendering limits[3]

[1]List only permanently installed facilities.
[2]indicate if the steam is certified steam.
[3]Describe any permanent fendering arrangement limits on ship berthing.

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.

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.

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.

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.

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.

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.

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

TAB B. N/A FOR UIC 66452

TAB B

OPERATIONAL AIRFIELD CAPACITY

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

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

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.

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

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

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?)

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).

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.

	Main Airfield		Auxiliary Field _____		Auxiliary Field _____		Auxiliary Field _____	
FY	# 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)?

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

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

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

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.

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.

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.

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.

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).

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.

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.

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.

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.

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.).

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.

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.

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

25. [12b.] For each **Special Use Airspace (SUA)** or airspace-for-special use routinely used by squadrons/units assigned to your installation (regardless of location[1]), indicate how many hours per year are **required for** each user to maintain required **readiness**. Special Use Airspace includes alert areas, military operating areas (MOA), restricted areas, and warning areas which are used for air-to-air, air-to-ground, electronic (EW, ECM), low level training routes (MTRs), and other training.

[1] include RON/domestic deployment training

[1] include RON/domestic deployment training

SUA	Location/Distance	Types/Uses	Scheduling Authority (UIC)	Squadron/Unit	Training Requirement (types of training)	Yearly Usage Rate (Hrs)

Remarks:

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

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.

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.

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 accomodate a surge demand for space (maintaining safe operating procedures).

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.

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

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.

Hangar #/ID/Type	SQD/Mod# Assignment[1]	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.

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.

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).

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.

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

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.

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

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.

TAB C. N/A FOR UIC 66452

TAB C

DEPOT LEVEL MAINTENANCE CAPACITY

Maintenance and Industrial Activities

Activities that actually perform Depot Level Maintenance shoudl 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

Commodity Groups List

1. Aircraft Airframes:
   - Rotary
   - VSTOL
   - Fixed Wing
     - Transport / Tanker / Bomber / Command and Control
     - Light Combat
     - Admin / Training
   - Other

2. Aircraft Components
   - Dynamic Components
   - Aircraft Structures
   - Hydraulic/Pneumatic
   - Instruments
   - Landing Gear
   - Aviation Ordnance
   - Avionics/Electronics
   - APUs
   - Other

3. Engines (Gas Turbine)
   - Aircraft
   - Ship
   - Tank
   - Blades / Vanes (Type 2)

4. Missiles and Missile Components
   - Strategic
   - Tactical / MLRS

5. Amphibians
   - Vehicles
   - Components (less GTE)

6. Ground Combat Vehicles
   - Self-propelled
   - Tanks
   - Towed Combat Vehicles
   - Components (less GTE)

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

8. Automotive / Construction Equipment

9. Tactical Vehicles
   - Tactical Automotive Vehicles
   - Components

10. Ground General Purpose Items
    - Ground Support Equipment (except aircraft)
    - Small Arms / Personal Weapons
    - Munitions / Ordnance
    - Ground Generators
    - Other

11. *Sea Systems*
    - Ships
    - Weapons Systems

12. Software
    - Tactical Systems
    - Support Equipment

13. Special Interest Items
    - Bearings Refurbishment
    - Calibration (Type I)
    - TMDE

14. Other

Refer to the following notes when filling out the tables in this TAB.

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**

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**

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**

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**

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**

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**

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.

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?

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.)?

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**

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**

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**

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**

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**

FY 1999 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.f: **PREDICTED WORKLOAD VARIANCE FOR FY 2000**

FY 2000 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.g: **PREDICTED WORKLOAD VARIANCE FOR FY 2001**

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.

2. Core Requirements

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**

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

Table 2.1.b: **Workload Requirements FY 1994**

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

Table 2.1.c: **Workload Requirements FY 1995**

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

Table 2.1.d: **Workload Requirements FY 1996**

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

Table 2.1.e: **Workload Requirements FY 1997**

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

Table 2.1.f: **Workload Requirements FY 1998**

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

Table 2.1.g: **Workload Requirements FY 1999**

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

Table 2.1.h: **Workload Requirements FY 2000**

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

Table 2.1.i: **Workload Requirements FY 2001**

FY 2001	Core Workload (DLMHs)			
Commodity Type	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**

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

Table 2.2.b: **Directed Workloads - FY 1994**

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

Table 2.2.c: **Directed Workloads - FY 1995**

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

Table 2.2.d: **Directed Workloads - FY 1996**

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

Table 2.2.e: **Directed Workloads - FY 1997**

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

Table 2.2.f: **Directed Workloads - FY 1998**

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

Table 2.2.g: **Directed Workloads - FY 1999**

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

Table 2.2.h: **Directed Workloads - FY 2000**

FY 2000 Commodity	Units Throughput						Total
	FMS	Mods	LQNC	BV	Engr	LSOR	
FY 2000 Total:							

Table 2.2.i: **Directed Workloads - FY 2001**

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.

TAB D. N/A FOR UIC 66452

TAB D

ORDNANCE STORAGE CAPACITY

ORDNANCE STORAGE CAPACITY

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

ORDNANCE COMMODITY TYPES		
Mines	Expendables	LOE: Rockets
Torpedoes	INERT	LOE: Bombs
Air Launched	CADS/PADS	LOE: Gun Ammo (20mm-16")
Threat	Strategic Nuclear	LOE: Small Arms(up to 50 cal.)
Surface Launched	Tactical Nuclear	LOE: Pyro/Demo
Threat		Grenades/Mortars/Projectile

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**

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); transhipment/ 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**

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**

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.

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**

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

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DATACALL # 5

MILITARY VALUE DATA CALL

TECHNICAL CENTERS

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MILITARY VALUE DATA CALL
TECHNICAL CENTERS

Category	**RDT&E**
Technical Center Site	**NAVAL AEROSPACE MEDICAL RESEARCH LABORATORY**
Location/Address	**51 HOVEY ROAD, PENSACOLA, FL 32508-1046**

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Enclosure (1)

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.

Ref: Naval Aerospace Medical Research Laboratory Instruction 5404.1H
The mission of the Laboratory is to conduct research, development, test, and evaluation in aviation medicine and the allied sciences to enhance the health, safety, and readiness of Navy and Marine Corps personnel in the effective performance of peacetime and contingency missions, and to perform such other functions or tasks as may be required by higher authority.

ITEM 2. N/A FOR UIC 66452

2. Joint Service Missions. State any officially assigned joint/lead service assignments missions and cite the document(s) that assigned them.

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.

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 Naval Aerospace Medical Research Laboratory UIC: 66452

Function	Space allocated (Gross SQFT)	Work Years	Civilian Personnel Onboard	Contract Work Years	Military Personnel Onboard	
					Off	Enl
ADMINISTRATION						
Command (CO/XO/TD/etc.)	853	5	3		2	
Comptroller	952	3	2		1	
Admin	1460	9	4		1	4
Human Resources	196	1	1			
OPERATIONS SUPPORT						
Supply Management	1509	3	1			2
Consolidated Computational Computer Support						
Information Systems and Communications	1187	3	1	0	0	2
Safety/OSH/Environmental						
INFRASTRUCTURE						
Physical Security						
Public Works/Staff Civil Engr						
Fire Protection						
Medical/Dental						
Military Support						
Air/Waterfront Operations						
Other						
TECHNICAL STAFF						
Technical Operations						
Totals						

ITEM 4.2 N/A FOR UIC 66452

Table 4.2, General Support Resources for all Detachments:
Parent Activity: N/A, UIC: N/A

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						
Other						
TECHNICAL STAFF						
Technical Operations						
Totals						

TABLE 4.3. N/A FOR UIC 66452

Table 4.3, Previous BRAC Impact to General Support Resources for Naval Aerospace Medical Research Laboratory UIC: 66452

Function	Space allocated (Gross SQFT)	Work Years	Civilian Personnel 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						
Other						
TECHNICAL STAFF						
Technical Operations						
Totals						

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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 Naval Aerospace Medical Research Laboratory UIC: 66452

Highest Degree Achieved	Years of Demonstrated and/or Military Service					
	Less than 2 Years	5-10 Years	11-15 Years	16-20 Years	More than 20 Years	Total
Grade School						0
High School						0
B.A./B.S	2				1	3
M.A./M.S		1	1	RD 2		~~RD 4~~
Ph.D./M.D.		3	1	2	2	8
Total	2	4	2	3	3	14

ITEM 5.2 N/A FOR UIC 66452

Table 5.2, Technical Staff Education Level for all Detachments
Parent Activity: N/A, UIC: N/A

Highest Degree Achieved	Years of Demonstrated and/or Military Service					
	Less than 2 Years	5-10 Years	11-15 Years	16-20 Years	More than 20 Years	Total
Grade School						
High School						
B.A./B.S						
M.A./M.S						
Ph.D./M.D.						
Total						

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 Naval Aerospace Medical Research Laboratory UIC: 66452

Highest Degree Attained	Years of Government and/or Military Service					
	Less than 3 Years	3-10 Years	11-15 Years	16-20 Years	More than 20 Years	Total
Grade School						0
High School						0
B.A./B.S	2				1	3
M.A./M.S		1	1	1		3
Ph.D./M.D.		3	1	2	2	8
Total	2	4	2	3	3	14

ITEM 5.2 N/A FOR UIC 66452

Table 5.2, Technical Staff Education Level for all Detachments
Parent Activity: N/A, UIC: N/A

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

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 Naval Aerospace Medical Research Laboratory UIC: 66452

Academic Field	Number
Physics	
Chemistry	
Biology	1
Mathematics/Statistics/Operations Research	
Engineering	2
Medical	
Dental	
Computer Science	
Social Science	8
Other Science	1
Non-Science	
Total	12

ITEM 5.4 N/A FOR UIC 66452

Table 5.4, Technical Staff Academic Fields for all Detachments
Parent Activity: N/A, UIC: N/A

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?

1. Aspects that Help:

- The geographic location, climate, and beaches attract personnel.
- The relatively low cost of living is an attractant.
- The lack of traffic problems is an attractant.
- Large military retirement community with many qualified retirees who serve as skilled labor pool.

2. Aspects that hinder:

- Local schools are not up to national levels.
- Transportation to and from Pensacola is a hindrance.
- Sparsity of higher education institutions deter scientific personnel from being hired.
- Availability of jobs and low pay for spouses.
- Hot/humid summer conditions.

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.

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Blower, D.J. and Dolgin, D.L., "An Evaluation of Performance-based Tests Designed to Predict Success in Primary Flight Training." In *Proceedings of the Human Factors Society 34th Annual Meeting*, Orlando, FL, 8-12 October 1990, pp. 949-953.

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Humphrey, D.G., Kramer, A.F., and Stanny, R.R., "Influence of Extended Wakefulness on Automatic and Nonautomatic Processing." *Human Factors.* Accepted.

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e. List all technical books and/or chapters written by the in-house technical staff that were published or accepted for publication since 1 January 1990.

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ITEM F. N/A FOR UIC 66452

f. Identify any Nobel laureates employed at this activity.

g. List all non-governmental awards for research or technical excellence given to members of your technical staff since 1 January 1990.

Olsen, R.G., Engineer of the Year Award, Northwest Engineer's Council, Feb 1991

h. List all governmental awards for research or technical excellence given to members of your technical staff since 1 January 1990.

DeJohn, C.A., D.O., Meritorious Civilian Service Award. 1991
Neri, D.F., LT MSC USN, Navy Achievement Medal (gold Star in lieu of 2nd award). 1991
Still, D.L., LCDR MSC USN, Navy Commendation Medal. 1991
Atwell G.W., CDR MC USN, Navy Commendation Medal Citation and Certificate (4th award). 1992
Patee, J.C., CAPT MSC USN, *Federal Laboratory Consortium for Technology Transfer Regional Coordinator's Excellence Award.* 1993
Temme, L.A., Ph.D., *Notable Achievement Award.* 1993
Thomas, G.B., Ph.D., *Notable Achievement Award.* 1993

i. List all patents awarded to the in-house technical staff members of this activity since 1 January 1990.

07-24-90 **Scheiner-principle Vernier Optometer**

11-03-92 **Electromagnetic Warming of Submerged Extremities**

03-05-91 **Scheiner-principle Pocket Optometer for Self-evaluation and Bio-feedback Accomodation Training**

10-19-93 **Advanced Eye or Sensor Protection and High Speed Variable Optical Attenuation System**

06-29-93 **Small, Simple, and Cost-effective Scheiner-principle Optometer with Computer Interface for Automated Assessment**

j. List all patents applied for by the in-house technical staff members of this activity since 1 January 1990.

02-08-90 **Eye or Sensor Protection and High Speed Variable Optical Attenuation System**

01-31-91 **Conductive Gloves and Socks to Prevent Radiofrequency (RF) Burns**

02-16-93 **Night Vision Goggle Focusing Aid**

03-01-94 **Peripheral Vision Attitude Indicator**

ITEM K. N/A FOR UIC 66452

k. Identify any in-house staff that are members of the National Academy of Engineering.

ITEM L. N/A FOR UIC 66452

l. Identify any in-house staff that are members of the National Academy of Sciences.

m. How many Cooperative Research and Development Agreements (CRDAs) have been signed by the activity since 1 January 1990?

Six CRDAs signed by UIC 66452 since 1 Jan 90.
1. University of Illinois
2. Delta Airlines
3. Otis Elevator Company
4. University of Louisville (pending)
5. Bristol-Myer Squibb
6. NSP for Electromagnetic Suit Protection

n. What has been the activity's annual royalty income from CRDAs and patent licenses for each year since 1 January 1990?

CRDA:	FY90 = $0	Patents:	$0
	FY91 = $0		$0
	FY92 = $0		$0
	FY93 = $20K		$0
	FY94 = $37K		$0

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.

1. **RF Rewarming Coils for Use in Socks and Gloves**
   Ref: Olsen, R.G., "Resonant Radio Frequency Coil System for Heting Deep Tissue." *9th Annual IEEE Engineering in Medicine and Biology Society*, Vol. 3, pp. 1324, 11/87.

2. **Night Vision Training Facility**
   Ref: *Proceedings of Spatial Disorientation in Rotary Winged Aircaft*, NAMRL/USAARL, 11/93.

3. **Aviator Selection Tests**
   Ref: Street, D.R., Chapman, W. and Helton, K.T., "The Future of Naval Aviation Selection: Broad Spectrum Computer-based Testing." *13th Symposium of Psychology in the DoD*, 93.

4. **Selection Tests for Landing Craft/Air Cushion**
   Ref: Dolgin, D.L., Street, D.R. Nontasak, T., Blower, D.J. and Travis, K., "Operational Implementation of a Validated Personnel Selection System for Landing Craft Air Cushion." *35th Annual Conference of Military Testing Association*, 92.

5. **Laser Threat Charts for Air Crew**
   Ref: Reddix, M.D., D'Andrea, J.A. and Collyer, P.D. *Delays in Laser Glare Onset Differentially Affect Target Location Performance in a Visual Search Task.* NAMRL Report-1367, Jan 92.

6. **New Ear Cup Absorber**
   Ref: Thomas, G.B. and Cushman, W.B. "Acoustic Attenuation and Vibration Damping Materials." *Technology 2004*, Washington, DC, 8-10 Nov 94.

7. **Helo Scan Training Device**
   Ref: *CRDA with University of Illinois*, 4/94.

8. **Unaided and Aided Night Vision Training Kits**
   Ref: *Patent Application*, Navy Case #76,065.

9. **Night Vision Goggle Focusing Device**
   Ref: *Patent Application* #08/195,504.

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.

ITEM 7. N/A FOR UIC 66452

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.

b. What MILCON projects are currently programmed to be completed by the end of FY1995? For each project provide:

(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:

(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.

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?

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.

Yes. The vestibular research facility in building 1811 is a unique, one of a kind facility and is not replicated elsewhere in the world. It cannot be relocated.

Our mission is to study problems encountered by pilots in the aviation environment. Non-pilot experimental subjects may not produce valid results. The proximity of this aviation research facility to the aviation community is required for access to aviators as research subjects.

The proximity to NAMI is important to maintain aeromedical liaison/consultation.

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

The aviation community is our major military customer. Its proximity allows us access to immediate problem solution in areas of life science research.

Just as a flight surgeon must maintain continuous liaison with the members of his squadron to prevent aeromedical safety and health problems from developing, our scientists must have uninterrupted access to aircraft pilots and aircrews, and flight safety equipment to develop research programs for improved selection performance and safety of flight.

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.

1. NAMRL performs no supercomputing, parallel, or distributed computing.
2. NAMRL has four networks currently installed. Three are for divisional research projects, the fourth is a Command Office Automation network.
3. NAMRL has a high-speed modem connection to Naval Communications and Telecommunications Station (NCTS) Pensacola, FL.
4. NAMRL has a fiber-optic cable connecting building 1953 and 1811.
5. NAMRL is in the process of connecting to the Internet host of worldwide scientific bulletin boards.
6. NAMRL has no teleconferencing capabilities at this time.

ITEM 10. N/A FOR UIC 66452

10. Mobilization Responsibility and Capability

a. Describe any mobilization responsibility officially assigned to this site. Cite the document assigning the responsibility.

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

(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?

(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.

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

(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.

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

d. Is your activity used as a Reserve Unit mobilization and/or training site?

ITEM 11. N/A FOR UIC 66452

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.

ITEM 12. N/A FOR UIC 66452

QUALITY OF LIFE

12. Military Housing

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

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

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+		

[1]As 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.

	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)?

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

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?

(b) BEQ:

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

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?

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

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

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

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?

(c) BOQ:

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

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?

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

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

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

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?

(d) BOQ/BEQ 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.

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:

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.

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:

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.

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:

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.

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:

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?

ITEM 13. N/A FOR UIC 66452

13. **MWR Facilities.** For on-base MWR facilities[10] 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.

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		

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

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		

(a) Is your library part of a regional interlibrary loan program?

ITEM 14. N/A FOR UIC 66452

14. Base Family Support Facilities and Programs

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

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:

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.

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

e. Are there other military child care facilities within 30 minutes of the base? State owner and capacity (i.e., 60 children, 0-5 yrs).

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

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	

ITEM 15. N/A FOR UIC 66452

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

City	Distance (Miles)

ITEM 16. N/A FOR UIC 66452

16. Standard Rate VHA Data for Cost of Living

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		

ITEM 17. N/A FOR UIC 66452

17. 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.

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?

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?

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.

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.

ITEM 18. N/A FOR UIC 66452

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

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

ITEM 19. N/A FOR UIC 66452

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

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.

Special Education Available:
Gifted Programs
Student with disabilities (mild)
Students with Moderate or Severe Disabilities
Limited English Proficient Students

Institution	Type	Grade Levels	Special Education Available	Annual Enrollment Cost per Student	1993 Avg SAT/ACT Score	% HS Grad to Higher Educ	Source of Info
Century High School	Pubic	9-12	Yes	See addendum	SAT: 1100 ACT:17.6	56.5%	Florida School Reports 92-93
Escambia High School	Public	9-12	Yes	See addendum	SAT: 888 ACT: 20.8	71.6%	Florida School Reports 92-93
Pensacola High School	Public	9-12	Yes	See addendum	SAT: 1062 ACT: 21.7	77.5%	Florida School Reports 92-93
Pine Forest High School	Pubic	9-12	Yes	See addendum	SAT: 879 ACT: 20.2	60.7%	Florida School Reports 92-93
J.M. Tate High School	Public	9-12	Yes	See addendum	SAT: 908 ACT: 20.2	66.3%	Florida School Reports 92-93
Washington High School	Public	9-12	Yes	See addendum	SAT: 923 ACT: 21.8	79.5%	Florida School Reports 92-93
Woodham High School	Pubic	9-12	Yes	See addendum	SAT: 914 ACT: 20.3	64.9%	Florida School Reports 92-93
Ernest Ward High School	Public	9-12	Yes	See addendum	SAT: 887 ACT: 19.9	41.4%	Florida School Reports 92-93
Sid Nelson Middle/Senior High School	Public	6-12	Yes	See addendum	N/A	N/A	Florida School Reports 92-93
Bellview Middle School	Pubic	6-8	Yes	See addendum	N/A	N/A	Florida School Reports 92-93
Brentwood Middle School	Public	6-8	Yes	See addendum	N/A	N/A	Florida School Reports 92-93
Brown Barge Magnet Middle School	Public	6-8	Yes	See addendum	N/A	N/A	Florida School Reports 92-93
Brownsville Middle School	Pubic	6-8	Yes	See addendum	N/A	N/A	Florida School Reports 92-93
Ferry Pass Middle School	Public	6-8	Yes	See addendum	N/A	N/A	Florida School Reports 92-93

Institution	Type	Grade Levels	Special Education Available	Annual Enrollment Cost per Student	1993 Avg SAT/ACT Score	% HS Grad to Higher Educ	Source of Info
Ranson Middle School	Public	6-8	Yes	See addendum	N/A	N/A	Florida School Reports 92-93
Warrington Middle School	Pubic	6-8	Yes	See addendum	N/A	N/A	Florida School Reports 92-93
Workman Middle School	Public	6-8	Yes	See addendum	N/A	N/A	Florida School Reports 92-93
Wedgewood Middle School	Public	6-8	Yes	See addendum	N/A	N/A	Florida School Reports 92-93
Jim Allen Elementary School	Pubic	PreK-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
Barrineau Elementary School	Pubic	K-5	Yes, gifted, mild disabilities	See addendum	N/A	N/A	Florida School Reports 92-93
Bellview Elementary School	Pubic	K-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
Beulah Elementary School	Pubic	K-5	Yes, gifted, mild disabilities	See addendum	N/A	N/A	Florida School Reports 92-93
Brent Elementary School	Pubic	K-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
Brentwood Elementary School	Pubic	K-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
Byrneville Elementary School	Pubic	PreK-5	Yes, gifted, mild disabilities	See addendum	N/A	N/A	Florida School Reports 92-93
Centry Elementary School	Pubic	PreK-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
N. B. Cook Elementary School	Pubic	K-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
Cordova Park Elementary School	Pubic	K-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
Dixon Elementary School	Pubic	K-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
Edgewater Elementary School	Pubic	K-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
Ensley Elementary School	Pubic	PreK-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
Ferry Pass Elementary School	Pubic	K-5	Yes, gifted, mild disabilities	See addendum	N/A	N/A	Florida School Reports 92-93
George S. Hallmark Elementary School	Pubic	PreK-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
Reinherdt Holm Elementary School	Pubic	PreK-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
R. C. Liscomb Elementary School	Pubic	K-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93

Institution	Type	Grade Levels	Special Education Available	Annual Enrollment Cost per Student	1993 Avg SAT/ACT Score	% HS Grad to Higher Educ	Source of Info
Longleaf Elementary School	Pubic	K-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
McArther Elementary School	Pubic	K-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
Molina Elementary School	Pubic	PreK-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
Myrtle Elementary School	Pubic	PreK-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
Navy Point Elementary School	Pubic	K-5	Yes, gifted, mild disabilities	See addendum	N/A	N/A	Florida School Reports 92-93
O. J. Semmes Elementary School	Pubic	K-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
Oakcrest Elementary School	Pubic	PreK-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
Pine Meadow Elementary School	Pubic	K-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
Pleasant Grove Elementary School	Pubic	PreK-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
Sherwood Elementary School	Pubic	PreK-5	Yes, gifted, mild disabilities	See addendum	N/A	N/A	Florida School Reports 92-93
A. K. Suter Elementary School	Pubic	K-5	Yes, gifted, mild disabilities	See addendum	N/A	N/A	Florida School Reports 92-93
Warrington Elementary School	Pubic	K-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
C. A. Weis Elementary School	Pubic	PreK-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
West Pensacola Elementary School	Pubic	K-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
Allie Ynlestra Elementary School	Pubic	PreK-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
Spencer Bliss Elementary School	Pubic	K-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
Helen Caro Elementary School	Pubic	K-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
Goulding Elementary School	Pubic	PreK-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
Lincoln Park Elementary School	Pubic	PreK-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
Montclair Elementary School	Pubic	K-5	Yes, all classes	See addendum	N/A	N/A	Florida School Reports 92-93
Pensacola Beach Elementary School	Pubic	K-5	Yes, gifted, mild disabilities	See addendum	N/A	N/A	Florida School Reports 92-93

Institution	Type	Grade Levels	Special Education Available	Annual Enrollment Cost per Student	1993 Avg SAT/ACT Score	% HS Grad to Higher Educ	Source of Info
Scenic Heights Elementary School	Pubic	K-5	Yes, gifted, mild disabilities	See addendum	N/A	N/A	Florida School Reports 92-93
Beggs Educational Centre	Pubic	9-12	Yes	See addendum	N/A	33.3%	Florida School Reports 92-93
Escambia Westgate Centre	Public	PreK-12	N/A	N/A	N/A	N/A	Florida School Reports 92-93
Escambia Christian School	Private	PreK-8	No	PreK:1175 1-5:1890 6-8:1995	N/A	N/A	Principal
Montessori Early School	Private	PreK-8	Yes	3000	N/A	N/A	Principal
Gulf Coast Christian School	Private	PreK-12	no	PreK:1180 K-5:1380 1-6:1810 7-12:1845	SAT: 890 ACT: 20.1	50%	Principal
Episcopal Day School	Private	PreK-8	No	PreK:1700 K:2250 1-6:2550 7-8:2600	N/A	N/A	Principal
Chipla Academy	Private	PreK-12	Yes	2500	N/A	69%	Director
East Hill Christian School	Private	6-12	No	2380	N/A	N/A	Director
Pensacola Catholic High School	Private	9-12	Yes	Catholic: 2436 NonCatholic: 3288	SAT: 940 ACT: 22	95%	Admin Office
St. Michael Interparochial School	Private	PreK-12	no	K-5:1400 6-8:2300	N/A	N/A	Admin Office
West Florida Baptist Academy	Private	PreK-12	no	Family Rate, 1 child: 1140 6 Children: 6840	N/A	N/A	Admin Office
Pensacola Christian School	Public	K-12	Yes	K:1150 1-6:1450 7-12:1650	N/A	90%	Admin Office

Addendum for Item 20.a.

Source Florida School Reports 1992-1993. Annual Enrollment Cost Expenditure per Student

High School	School	District	State
Pine Forest High School			
Regular Program	$3,950	$3,909	$3,826
Exceptional Program	$4,992	$7,118	$8,429
At Risk Program	$5,061	$4,326	$4,295
Vocational Program	$4,543	$4,484	$4,590
Tate High School			
Regular Program	$3,738	$3,909	$3,826
Exceptional	$6,609	$7,118	$8,429
At Risk Program	$4,587	$4,326	$4,295
Vocational Program	$4,156	$4,484	$4,590
Pensacola High School			
Regular Program	$3,930	$3,909	$3,826
Exceptional Program	$6,269	$7,118	$8,429
At Risk Program	$3,766	$4,326	$4,295
Vocational Program	$4,881	$4,484	$4,590
Century High School			
Regular Program	$8,761	$3,909	$3,826
Exceptional Program	$12,006	$7,118	$8,429
At Risk Program	$6,452	$4,326	$4,295
Vocational Program	$6,172	$4,484	$4,590
Ernest Ward Jr. and Sr. High School			
Regular Program	$4,592	$4,592	$3,927
Exceptional Program	$8,885	$12,917	$13,188
At Risk Program	$6,450	$6,431	$6,006
Vocational Program	$6,608	$6,608	$6,157
Washington High School			
Regular Program	$4,040	$3,909	$3,826
Exceptional Program	$8,520	$7,118	$8,429
At Risk Program	$3,969	$4,328	$4,295
Vocational Program	$4,451	$4,484	$4,590
W. J Woodham High School			
Regular Program	$3,815	$3,909	$3,826
Exceptional Program	$8,167	$7,118	$8,429
At Risk Program	$3,795	$4,326	$4,295
Vocational Program	$4,842	$4,484	$4,590
Sid Nelson Middle/Senior High School			
Regular Program	$0	$4,592	$3,927
Exceptional Program	$14,094	$12,917	$13,188
At Risk Program	$4,232	$6,431	$6,006
Vocational Program	$0	$6,608	$6,157
Escambia High School			
Regular Program	$3,742	$3,909	$3,826
Exceptional Program	$7,123	$7,118	$8,429
At Risk Program	$3,624	$4,326	$4,295
Vocational Program	$3,906	$4,484	$4,590
Middle School	**School**	**District**	**State**

Ransom Middle School			
Regular Program	$2,892	$3,469	$3,267
Exceptional Program	$6,540	$6,751	$7,615
At Risk Program	$3,116	$3,454	$4,360
Vocational Program	$4,102	$4,629	$4,080
Bellview Middle School			
Regular Program	$2,797	$3,469	$3,267
Exceptional Program	$6,528	$6,759	$7,615
At Risk Program	$3,713	$3,454	$4,360
Vocational Program	$3,500	$4,629	$4,080
Brentwood Middle School			
Regular Program	$3,027	$3,469	$3,267
Exceptional Program	$7,422	$6,751	$7,615
At Risk Program	$4,331	$3,454	$4,360
Vocational Program	$5,155	$4,629	$4,080
Brown Barge Magnet School			
Regular Program	$7,244	$3,469	$3,267
Exceptional Program	$8,144	$6,751	$7,615
At Risk Program	$$0	$3,454	$4,360
Vocational Program	$7,935	$4,629	$4,080
Brownsville Middle School			
Regular Program	$4,701	$3,469	$3,267
Exceptional Program	$5,521	$6,751	$7,615
At Risk Program	$3,041	$3,454	$4,360
Vocational Program	$5,757	$4,629	$4,080
Ferry Pass Middle School			
Regular Program	$3,086	$3,469	$3,267
Exceptional Program	$5,303	$6,751	$7,615
At Risk Program	$3,242	$3,454	$4,360
Vocational Program	$4,351	$4,629	$4,080
J. W. Workman Middle School			
Regular Program	$3,326	$3,469	$3,267
Exceptional Program	$8,029	$6,751	$7,615
At Risk Program	$3,806	$3,454	$4,360
Vocational Program	$4,131	$4,629	$4,080
Warrington Middle School			
Regular Program	$5,525	$3,469	$3,267
Exceptional Program	$6,621	$6,751	$7,615
At Risk Program	$3,179	$3,454	$4,360
Vocational Program	$5,791	$4,629	$4,080
Wedgewood Middle School			
Regular Program	$3,049	$3,469	$3,267
Exceptional Program	$5,964	$6,751	$7,615
At Risk Program	$3,371	$3,454	$4,360
Vocational Program	$4,434	$4,629	$4,080
Elementry School	**School**	**District**	**State**

Byrneville Elementry School			
Regular Program	$4,512	$3,467	$3,521
Exceptional Program	$17,016	$8,942	$9,324
At Risk Program	$6,607	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Helen Caro Elementry School			
Regular Program	$2,592	$3,467	$3,521
Exceptional Program	$7,613	$8,942	$9,324
At Risk Program	$3,939	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Century Elementry School			
Regular Program	$5,427	$3,467	$3,521
Exceptional Program	$9,002	$8,942	$9,324
At Risk Program	$3,850	$3,870	$4,404
Vocational Program	$0	$0	$4,932
N. B. Cook Elementry School			
Regular Program	$3,770	$3,467	$3,521
Exceptional Program	$20,908	$8,942	$9,324
At Risk Program	$3,764	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Cordova Park Elementry School			
Regular Program	$3,021	$3,467	$3,521
Exceptional Program	$11,134	$8,942	$9,324
At Risk Program	$0	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Edgewater Elementry School			
Regular Program	$4,189	$3,467	$3,521
Exceptional Program	$7,088	$8,942	$9,324
At Risk Program	$3,141	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Barrineau Park Elementry School			
Regular Program	$3,609	$3,467	$3,521
Exceptional Program	$12,210	$8,942	$9,324
At Risk Program	$4,189	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Bellview Elementry School			
Regular Program	$2,897	$3,467	$3,521
Exceptional Program	$14,694	$8,942	$9,324
At Risk Program	$3,519	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Beulah Elementry School			
Regular Program	$3,034	$3,467	$3,521
Exceptional Program	$12,175	$8,942	$9,324
At Risk Program	$3,377	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Spencer Bibbs Elementry School			
Regular Program	$4,012	$3,467	$3,521
Exceptional Program	$7,703	$8,942	$9,324
At Risk Program	$3,502	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Bratt Elementry School			
Regular Program	$3,228	$3,467	$3,521
Exceptional Program	$9,349	$8,942	$9,324
At Risk Program	$3,696	$3,870	$4,404
Vocational Program	$0	$0	$4,932

Brentwood Elementry School			
Regular Program	$4,204	$3,467	$3,521
Exceptional Program	$7,772	$8,942	$9,324
At Risk Program	$4,283	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Ensley Elementry School			
Regular Program	$3,706	$3,467	$3,521
Exceptional Program	$5,816	$8,942	$9,324
At Risk Program	$4,538	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Ferry Pass Elementry School			
Regular Program	$2,999	$3,467	$3,521
Exceptional Program	$7,223	$8,942	$9,324
At Risk Program	$4,166	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Goulding Elementry School			
Regular Program	$0	$3,467	$3,521
Exceptional Program	$14,930	$8,942	$9,324
At Risk Program	$0	$3,870	$4,404
Vocational Program	$0	$0	$4,932
George S. Hallmark Elementry School			
Regular Program	$4,668	$3,467	$3,521
Exceptional Program	$8,168	$8,942	$9,324
At Risk Program	$3,382	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Reinherdt Holm Elementry School			
Regular Program	$3,536	$3,467	$3,521
Exceptional Program	$9,550	$8,942	$9,324
At Risk Program	$4,692	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Lincoln Park Elementry School			
Regular Program	$4,052	$3,467	$3,521
Exceptional Program	$10,031	$8,942	$9,324
At Risk Program	$3,980	$3,870	$4,404
Vocational Program	$0	$0	$4,932
R. C. Lipscomb Elementry School			
Regular Program	$2,613	$3,467	$3,521
Exceptional Program	$8,866	$8,942	$9,324
At Risk Program	$3,682	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Longleaf Elementry School			
Regular Program	$2,818	$3,467	$3,521
Exceptional Program	$9,275	$9,842	$9,324
At Risk Program	$3,442	$3,870	$4,404
Vocational Program	$0	$0	$4,932
L. D. McArther Elementry School			
Regular Program	$3,372	$3,467	$3,521
Exceptional Program	$9,966	$8,942	$9,324
At Risk Program	$5,589	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Molino Elementry School			
Regular Program	$5,373	$3,467	$3,521
Exceptional Program	$9,752	$8,942	$9,324
At Risk Program	$5,216	$3,870	$4,404
Vocational Program	$0	$0	$4,932

Montclair Elementry School			
Regular Program	$3,538	$3,467	$3,521
Exceptional Program	$8,255	$8,942	$9,324
At Risk Program	$3,360	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Myrtle Grove Elementry School			
Regular Program	$3,119	$3,467	$3,521
Exceptional Program	$9,121	$8,942	$9,324
At Risk Program	$3,140	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Navy Point Elementry School			
Regular Program	$3,376	$3,467	$3,521
Exceptional Program	$13,496	$8,942	$9,324
At Risk Program	$2,866	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Oakcrest Elementry School			
Regular Program	$4,384	$3,467	$3,521
Exceptional Program	$7,053	$8,942	$9,324
At Risk Program	$3,717	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Pensacola Beach Elementry School			
Regular Program	$4,708	$3,467	$3,521
Exceptional Program	$21,861	$8,942	$9,324
At Risk Program	$5,581	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Pine Meadows Elementry School			
Regular Program	$3,154	$3,467	$3,521
Exceptional Program	$9,972	$8,942	$9,324
At Risk Program	$4,224	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Plesant Grove Elementry School			
Regular Program	$3,604	$3,467	$3,521
Exceptional Program	$8,134	$8,942	$9,324
At Risk Program	$3,745	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Scenic Heights Elementry School			
Regular Program	$2,803	$3,467	$3,521
Exceptional Program	$8,582	$8,942	$9,324
At Risk Program	$3,791	$3,870	$4,404
Vocational Program	$0	$0	$4,932
O. J. Semmes Elementry School			
Regular Program	$3,362	$3,467	$3,521
Exceptional Program	$7,514	$8,942	$9,324
At Risk Program	$4,442	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Sherwood Elementry School			
Regular Program	$3,771	$3,467	$3,521
Exceptional Program	$9,852	$8,942	$9,324
At Risk Program	$3,639	$3,870	$4,404
Vocational Program	$0	$0	$4,932
A. K. Suter Elementry School			
Regular Program	$3,310	$3,467	$3,521
Exceptional Program	$8,553	$8,942	$9,324
At Risk Program	$3,685	$3,870	$4,404
Vocational Program	$0	$0	$4,932

Warrington Elementry School			
Regular Program	$4,048	$3,467	$3,521
Exceptional Program	$7,194	$8,942	$9,324
At Risk Program	$3,894	$3,870	$4,404
Vocational Program	$0	$0	$4,932
C. A. Weis Elementry School			
Regular Program	$3,982	$3,467	$3,521
Exceptional Program	$7,409	$8,942	$9,324
At Risk Program	$4,980	$3,870	$4,404
Vocational Program	$0	$0	$4,932
West Pensacola Elementry School			
Regular Program	$3,666	$3,467	$3,521
Exceptional Program	$10,372	$8,942	$9,324
At Risk Program	$3,382	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Allie Yniestra Elementry School			
Regular Program	$4,578	$3,467	$3,521
Exceptional Program	$9,991	$8,942	$9,324
At Risk Program	$3,598	$3,870	$4,404
Vocational Program	$0	$0	$4,932
A. A. Dixon Elementry School			
Regular Program	$3,947	$3,467	$3,521
Exceptional Program	$5,956	$8,942	$9,324
At Risk Program	$3,848	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Jim Allen Elementry School			
Regular Program	$3,580	$3,467	$3,521
Exceptional Program	$11,245	$8,942	$9,324
At Risk Program	$4,601	$3,870	$4,404
Vocational Program	$0	$0	$4,932
Special Education Schools	**School**	**District**	**State**
Beggs Education Center		3,909	3,826
Regular Program	4,178	7,118	8,429
Exceptional Program	25,760	4,326	4,295
At Risk Program	4,224	4,484	4,590
Vocational Program	0		
Escambia Westgate Center	0	4,592	3,927
Regular Program	12,513	12,917	13,18
Exceptional Program	0	6,431	6,006
At Risk Program	0	6,608	6,157
Vocational Program			

(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.

Institution	Type Classes	Program Type(s)				
		Adult High School	Vocational/ Technical	Undergraduate		Graduate
				Courses Only	Degree Program	
Pensacola Junior College	Day	Yes	Yes	Yes	Yes	Yes
	Night	Yes	Yes	Yes	Yes	Yes
University of West Florida	Day	No	No	Yes	Yes	Yes
	Night	No	No	Yes	Yes	Yes

(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.

*PJC offers DOS, WordPerfect, Spreadsheets, Lotus Classes to Government Employees and military personnel to improve vocational skills during the daytime hour at Bldg. 679.

Institution	Type Classes	Program Type(s)				
		Adult High School	Vocational/ Technical	Undergraduate		Graduate
				Courses only	Degree Program	
Pensacola Junior College	Day	No	*Yes	No	No	No
	Night	No	Yes	Yes	No	No
	Correspondence	No	No	Yes	No	No
Troy State University Florida Region	Day	No	No	No	No	No
	Night	No	No	Yes	Yes	Yes
	Correspondence	No	No	No	No	No
Embry-Riddle Aeronautical University	Day	No	No	No	No	No
	Night	No	No	Yes	Yes	Yes
	Correspondence	No	No	No	No	No

ITEM 21. N/A FOR UIC 66452

21. Spousal Employment Opportunities

Provide the following data on spousal employment opportunities.

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.**

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.

(1) Dental care is not available from the military health care system. Dependents dental care is available through the "Delta Dental Plan" on a monthly fee basis.

(2) Medical care for dependents is based on availability of services at NAVHOSP Pensacola. Many specialty services are limited as closed to dependents as noted in the enclosure. Services are available through the civilian health care system, but at a shared cost to the dependent.

Addendum to Item 22

DEPARTMENT OF THE NAVY
NAVAL HOSPITAL
6000 WEST HIGHWAY 98
PENSACOLA FL 32512-0003

6010
Ser 10/ 0785
14 APR 1994

From: Commanding Officer, Naval Hospital, Pensacola

Subj: CLINIC APPOINTMENT AVAILABILITY FOR OUTPATIENT CARE

Ref: (a) NAVHOSPPNCLAINST 6010.21A

Encl: (1) Clinic Appointment Availability Report for May 1994

1. Per reference (a), enclosure (1) revises the Clinic Availability for Outpatient Care at Naval Hospital, Pensacola for the month of April 1994.

2. Enclosure (1) is intended for use as an aid in determining the availability of outpatient care at our facility. This list **does not** give authorization for non-emergent outpatient surgical procedures or inpatient care from civilian sources. Non-availability Statements (NAS) must be **obtained prior to scheduling** most types of inpatient or outpatient surgical procedures. Beneficiaries should be referred to the Health Benefits Office or call 452-6709/6711 for any questions regarding requirements for Non-availability Statements.

M. BALSAM

DISTRIBUTION:
ALL BRANCH MEDICAL CLINICS
BLUE ANGELS NASP
CHAIRMAN RETIRED MILITARY AND DEPENDENTS
CNET
FAMILY SERVICE CENTER NASP
NAMI
NAMRL
NASWF
NAVSUPCEN
NETPMSA, SAUFLEY FIELD
NETSAFA
NTTC DENTAL
OMBUDSMAN COORDINATOR
PSD NASP
PSD NTTC CORRY
PWC, NASP
RED CROSS
RETIRED AFFAIRS NASP
RETIRED OFFICERS ASSOCIATION (ESCAROSA CHAPTER)
TRAWING 6
USCG AVIATION TRNG CNTR
VT-86
VT-10
VT-4

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Hm2 Stiney -X 88

CLINIC AVAILABILITY REPORT FOR MAY 1994

A closed clinic means that new patients (and in some cases infrequent follow-ups) cannot be accepted. We will help you arrange for care in the civilian community via CHAMPUS or MEDICARE, if you wish. The Health Benefits Advisor at 452-6709/6711, can get appointments with the specialists of your choice who accept CHAMPUS. These limitations are only for outpatient care.

Category Key

1. Emergency
2. Active Duty
3. Active Duty Dependents
4. Retirees/Retiree's Dep/SECNAV Designees

Availability Key

O - Open
L - Limited
SL - Severely limited
CL - Closed
N/A - Not applicable

CLINIC	Category 1 - 2	Category 3	Category 4
Adolescent	N/A	L#	L#
Adult Primary Care	O	O	O
Pap Smears	N/A@	O@	O@
Alcohol Rehabilitation	O	L	L
Dermatology	O	SL#	CL
ENT	O	SL#	SL#
Audiology	O	O	O
General Pediatrics	N/A	O	O
Peds Acute Care	N/A	O	O
Well Baby	N/A	O	O
School Physicals	N/A	O	O
General Surgery	O	O	O
Endoscopy	L	SL	SL
Plastic Surgery	L	SL	SL
Thoracic Surgery	CL	CL	CL
Vascular Surg	CL	CL	CL
General Urology	O	L#	L#
Vasectomy	O	O	O#
Gynecology	O	O	L
Dysplasia	O	SL	CL
Infertility	L	CL	CL
Pap Smears	L	CL	CL
Internal Medicine	O	CL	CL
Cardiology	O	CL	CL
Gastroenterology	O	O	O
Pulmonary	O	L	L
Pulmonary Functions	O	L	L
Allergy Clinic	O	O	O
General IMC	O	CL	CL
Neurology	O	CL	CL

Enclosure (1)

ITEM 23. N/A FOR UIC 66452

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.

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			

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			

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			

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			

Crime Definitions	FY 1991	FY 1992	FY 1993
18. Narcotics (7N)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
19. Perjury (7P)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
20. Robbery (7R)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
21. Traffic Accident (7T)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

Crime Definitions	FY 1991	FY 1992	FY 1993
22. Sex Abuse - Child (8B)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
23. Indecent Assault (8D)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
24. Rape (8F)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
25. Sodomy (8G)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

TAB A

TECHNICAL OPERATIONS

FUNCTIONAL SUPPORT AREA - LIFE CYCLE WORK AREA FORM

TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA/LIFE CYCLE WORK AREA FORM

Technical Center Site	**NAVAEROMEDRSCHLAB UIC: 66452**
Functional Support Area	**10.1.5. Human Resources Research and Development**
Life Cycle Work Area	**6.1 Basic Research**

Note: An example of a functional support area - life cycle work area is "1. Platform, 1.1 Undersea, - 10. Program Support".

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. **8 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) 702.0**

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) 13.5**

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. **$(K) 31.0**

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	**NAVAEROMEDRSCHLAB UIC: 66452**
Functional Support Area	**10.1.5. Human Resources Research and Development**
Life Cycle Work Area	**6.2 Exploratory Development**

Note: An example of a functional support area - life cycle work area is "1. Platform, 1.1 Undersea, - 10. Program Support".

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 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) 949.0**

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) 150.0**

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

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	**NAVAEROMEDRSCHLAB *UIC: 66452***
Functional Support Area	**10.1.5. Human Resources Research and Development**
Life Cycle Work Area	**6.3 Advanced Development**

Note: An example of a functional support area - life cycle work area is "1. Platform, 1.1 Undersea, - 10. Program Support".

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. **22 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) 1,922.5**

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) 51.7**

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. **$(K) 47.9**

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	**NAVAEROMEDRSCHLAB UIC: 66452**
Functional Support Area	**10.1.5. Human Resources Research and Development**
Life Cycle Work Area	**6.4 Engineering and Manufacturing Development**

Note: An example of a functional support area - life cycle work area is "1. Platform, 1.1 Undersea, - 10. Program Support".

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. **3 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) 341.1**

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) 53.9**

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	**NAVAEROMEDRSCHLAB UIC: 66452**
Functional Support Area	**10.1.5. Human Resources Research and Development**
Life Cycle Work Area	**6.5 RDT&E Management Support**

Note: An example of a functional support area - life cycle work area is "1. Platform, 1.1 Undersea, - 10. Program Support".

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. **0 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) 250.7**

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) 87.4**

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. **$(K) 130.0**

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	**NAVAEROMEDRSCHLAB UIC: 66452**
Functional Support Area	**10.1.5. Human Resources Research and Development**
Life Cycle Work Area	**Reimbursables**

Note: An example of a functional support area - life cycle work area is "1. Platform, 1.1 Undersea, - 10. Program Support".

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. **5 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) 581.5**

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**

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.

TAB B

SPECIAL FACILITIES AND EQUIPMENT

FACILITIES/EQUIPMENT CAPABILITY FORM

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site	**NAVAEROMEDRSCHLAB UIC 66452**
Facility/Equipment Nomenclature or Title	**MICROWAVE RESEARCH, BLDG. 3233**

1. State the primary purpose(s) of the facility/equipment.

Used to determine biological effects of microwave radiation. Allow for wide range of electromagnetic radiation (EMR) Studies.

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.

$295,000.00

4. Provide the gross weight and cube of the facility/equipment.

8,000 SF

5. Indicate any "special" utility support required by this facility/equipment other than normal electrical power.

High-power radar units (4 MW at 5400-5900 MHz and 10 MW 1250-1350 MHz) and one outdoor irradiation groundplane. Also, gas, water, and sewage services are required in the proper conduct of its functions.

6. Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).

Shielding and special absorbent materials for "EMR" studies.

7. State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing).

Temperature controlled environment.

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.

The dominant features of microwave facility allows NAMRL to conduct RF Dosimetry, Exposure Effects of EMR on persnnel, and testing of new devices. The facility is unique to biomedical research contributing to areas of research vital to safety of fleet personnel. It's possible to replicate or relocate but would be difficult and expensive under current fiscal climate.

9. Indicate how and when the facility/equipment was transported and or constructed at the site.

Constructed at the site in 1971.

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.

None

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure used.

2900 hours per year based on 8hr/day utilization rate.

12. Provide the projected utilization data out to FY1997.

2900 hours per year.

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

3-4 personnel occupy the microwave facility at any given time during a normal eight-hour work period.

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

General upkeep, maintenance and repairs, of the facility is command's responsibility and accomplished via local NPWC.

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	**NAVAEROMEDRSCHLAB UIC 66452**
Facility/Equipment Nomenclature or Title	**AEROSPACE MED RDT&E, BLDG. 1811**

1. State the primary purpose(s) of the facility/equipment.

To accommodate basic and applied research to determine physiological, perceptual, and psychophysiological responses to motion-induced stimuli associated with aviation and space environments.

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.

$2,662,000.00

4. Provide the gross weight and cube of the facility/equipment.

23,530 SF

5. Indicate any "special" utility support required by this facility/equipment other than normal electrical power.

Strong, special architectural structures are required to support one-of-a-kind basic vestibular physiological research devices. Steam, water, and sewage services are necessary for habitability and occupancy of facility.

6. Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).

Non-destructive inspections of special foundations and support structures. General upkeep to include repairs and maintenance, and telecommunications services.

7. State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing).

Temperature and humidity controlled environment required to protect delicate ADP and vestibular physilogical research devices.

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.

Facility would be extremely difficult to replicate or relocate. Vestibular physiology research providing valuable information about motion sickness and spatial disorientation as well as the NASA/NAMRL agreement for consultation services may be impaired if this facility were lost.

9. Indicate how and when the facility/equipment was transported and or constructed at the site.

Constructed at the site in 1956.

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.

None

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure used.

2920 Hours per year based on an 8 hr/day utilization rate.

12. Provide the projected utilization data out to FY1997.

2920 Hours per year.

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

15-20 personnel occupy the building at any given time during a normal eight hour work period.

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

General upkeep to include repairs and maintenance are command's responsibility and accomplished via local NPWC with appropriated overhead budget.

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	**NAVAEROMEDRSCHLAB UIC 66452**
Facility/Equipment Nomenclature or Title	**AEROSPACE MEDICAL RESEARCH, BLDG. 1953**

1. State the primary purpose(s) of the facility/equipment.

To conduct research, development, test, and evaluation in aviation medicine and the allied sciences to enhance the health, safety, and readiness of the Navy and Marine Corps personnel in the effective performance of peacetime and contingency missions, and to perform such other functions or tasks as may be required by higher authority.

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.

$7,788,000.00

4. Provide the gross weight and cube of the facility/equipment.

62,510 SF

5. Indicate any "special" utility support required by this facility/equipment other than normal electrical power.

Water, sewage, gas, and steam services are required for habitability in a windowless, concrete facility. Increased water pressure are needed for laser studies and vivarium maintenance.

6. Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).

Special shielding for laser and accoustics walling for various research programs.

7. State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing).

Air-conditioning and Humidity controlled environment required for habitability and protection of delicate research devices and ADP equipment.

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.

Valuable research in support of operational fleet will be diminished compromising the health, safety, and overall preparedness of its personnel. Extremely difficult to replicate or relocate due to size and replacement cost.

9. Indicate how and when the facility/equipment was transported and or constructed at the site.

Facility was constructed at the site in 1965.

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.

None

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure used.

2920 Hours per year based on 8 hr/day utilization rate.

12. Provide the projected utilization data out to FY1997.

2920 Hours per year.

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

60-70 personnel occupy the building at any given time during a normal eight-hour work period.

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

General upkeep of bldg. to include repairs and maintenane are accomplished via the local NPWC.

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	**NAVAEROMEDRSCHLAB UIC 66452**
Facility/Equipment Nomenclature or Title	**FPS 26 RADAR UNIT**

1. State the primary purpose(s) of the facility/equipment.

Used to determine biological effects of microwave radiation.

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.

$3,500,000.00

4. Provide the gross weight and cube of the facility/equipment.

10 Ton, 1000 cube feet.

5. Indicate any "special" utility support required by this facility/equipment other than normal electrical power.

1000 amp 208 volts AC 3 phase.

6. Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).

N/A

7. State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing).

Humidity controlled environment.

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 seven components that make up this unit. It is possible to replicate or re-locate but would be difficult and extremely expensive.

9. Indicate how and when the facility/equipment was transported and or constructed at the site.

Unknown

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.

None

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure used.

1800 hours per year

12. Provide the projected utilization data out to FY1997.

1800 hours per year

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

2

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

2

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	**NAVAEROMEDRSCHLAB UIC 66452**
Facility/Equipment Nomenclature or Title	**EMR ANECHOIC CHAMBER**

1. State the primary purpose(s) of the facility/equipment.

Used to determine biological effects of microwave radiation.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 12 of this data call.

Moveable

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.

30,000.00

4. Provide the gross weight and cube of the facility/equipment.

2000 lbs, 960 cube feet.

5. Indicate any "special" utility support required by this facility/equipment other than normal electrical power.

Approved sprinkler system

6. Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).

None

7. State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing).

Air venting

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.

Equipment may be replicated or relocated with little difficulty.

9. Indicate how and when the facility/equipment was transported and or constructed at the site.

Unknown

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.

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure used.

None

12. Provide the projected utilization data out to FY1997.

1500 Hours per year

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

2

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

2

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	**NAVAEROMEDRSCHLAB UIC 66452**
Facility/Equipment Nomenclature or Title	**CORIOLIS ACCELERATION PLATFORM (CAP)**

1. State the primary purpose(s) of the facility/equipment.

The CAP is the only device worldwide capable of applying combined linear and angular acceleration to human subject. It also used to study chronic exposure to altered G environments.

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.

$20,000,000.00

4. Provide the gross weight and cube of the facility/equipment.

20 Tons, 30,000 cubic feet.

5. Indicate any "special" utility support required by this facility/equipment other than normal electrical power.

High voltage, and High amp

6. Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).

Requires a special foundation and annual Non-Destructive Inspection (NDI).

7. State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing).

The device has a 20-ft diameter room, which contains complete life support and bioinstrumentation equipment for the exposure of 4-8 men to continuous rotation for 30 days or longer. Air-conditioning and Humidity are other environmental controlled requirements.

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.

This is the only device of it's kind in the world. Extremely difficult to replicate or relocate due to size and replacement cost.

9. Indicate how and when the facility/equipment was transported and or constructed at the site.

The CAP was constructed on site between 1964-1965. This device was installed piece by piece.

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.

None

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure used.

4 Hours per day

12. Provide the projected utilization data out to FY1997.

4 Hours per day

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

4

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

4

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	**NAVAEROMEDRSCHLAB UIC 66452**
Facility/Equipment Nomenclature or Title	**HUMAN DISORIENTATION DEVICE (HDD)**

1. State the primary purpose(s) of the facility/equipment.

To help differentiate the relative roles played by the various sensory system involved in the production of disorientation as well as to examine the contribution of each system and subsystem to motion 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.

$10,000,000.00

4. Provide the gross weight and cube of the facility/equipment.

10 Tons, 20,000 cubic feet.

5. Indicate any "special" utility support required by this facility/equipment other than normal electrical power.

High voltage and High amp

6. Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).

Requires a special foundation and annual NDI.

7. State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing).

Air-conditioning

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.

This unit is the only one of it's kind. It would be impossible to replicate and impossible to relocate due to size of unit.

9. Indicate how and when the facility/equipment was transported and or constructed at the site.

Constructed on site from 1957-1958

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.

None

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure used.

2 weeks per month

12. Provide the projected utilization data out to FY1997.

3 weeks per month

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

2

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

2

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	**NAVAEROMEDRSCHLAB UIC 66452**
Facility/Equipment Nomenclature or Title	**DYNASIM**

1. State the primary purpose(s) of the facility/equipment.

Used for vestibular and spatial research, DYNASIM is a short arm centrifuge that provides yaw-axis rotation of an off- center cockpit housed in an aircraft-like fuselage capable of motion about its own pitch-and-roll axes.

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.

$5,000,000.00

4. Provide the gross weight and cube of the facility/equipment.

5 Tons, 900 cubic feet.

5. Indicate any "special" utility support required by this facility/equipment other than normal electrical power.

None

6. Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).

Requires a special foundation.

7. State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing).

Air-conditioning

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.

Extremely difficult due to size and replacement cost.

9. Indicate how and when the facility/equipment was transported and or constructed at the site.

1982, Transported on site and installed.

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.

None

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure used.

8 Hours per week

12. Provide the projected utilization data out to FY1997.

16 Hours per week

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

2

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

2

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	**NAVAEROMEDRSCHLAB UIC 66452**
Facility/Equipment Nomenclature or Title	**ENVIRONMENTAL CHAMBER**

1. State the primary purpose(s) of the facility/equipment.

Provide facility for environmental physiology research.

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.

$60,000

4. Provide the gross weight and cube of the facility/equipment.

1 Ton, 640 cube feet

5. Indicate any "special" utility support required by this facility/equipment other than normal electrical power.

De-ionized water system

6. Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).

None

7. State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing).

None

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 require disassembly for relocation. System may replicated.

9. Indicate how and when the facility/equipment was transported and or constructed at the site.

Delivered and installed on site by Vendor in 1992.

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.

None

11. Provide the historical utilization average for the past five fiscal years (1989-1993). Define the unit of measure used.

60 experiments a year.

12. Provide the projected utilization data out to FY1997.

100 experiments a year.

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

3

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

1

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

TAB C. N/A FOR UIC 66452

TAB C

RANGE RESOURCES

RANGE CAPABILITY FORM

RANGE RESOURCES N/A FOR UIC 66452

RANGE RESOURCES
RANGE CAPABILITY FORM

Technical Center Site	
Range Nomenclature or Title	

1. List all the ranges that your activity maintains and operates. Provide the following information on each range:

a.A brief statement of what the range is used for.
b.Geographic location of the range.
c.Distance from the range to the activity's headquarters facility (main site).
d.Range size in square miles.
e.Scheduling authority.
f.Air space available/restrictions.
g.Maximum water depth available/restrictions.
h.Instrumentation capability.
i.Accuracy of tracking.
j.Data collection/replay capability.
k.
What are the maximum hours per year that this range is available to support activities? Provide the actual hours that the range was up and capable of providing services. Do not count "down time" due to maintenance, reconfiguration, or administrative activities (i.e., Holiday shutdowns).
l.What were the actual hours this range was utilized per year for the last five years (FYs 1989-1993)?
m.What were the actual hours that this range was utilized in FY1993?
n.Who are the customers of the range?
o.Of the actual hours utilized what percentage of utilization time was provided to which customers?
p.Provide a sketch, drawing or map of the range.

2. Are any of your ranges part of the DoD Major Range and Test Facility Base (MRTFB)? (yes/no) If yes, which ones?

3. Are there any limiting (current or future) environmental and/or encroachment characteristics that are associated with this range.

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center
Site: NAVAEROMEDRSRCHLAB

Facility/Equipment
Nomenclature or
Title: HUMAN DISORIENTATION DEVICE (HDD)

1. **State the primary purpose(s) of the facility/equipment.**
   To help differentiate the relative roles played by the various sensory system involved in the production of disorientation as well as to examine the contribution of each system and subsystem to motion sickness.

2. **Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 12 of this date 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.**
   $10,000,000.00

4. **Provide the gross weight and cube of the facility/equipment.**
   10 Tons, 20,000 cubic feet.

5. **Indicate any "special" utility support required by the facility/equipment other than normal electrical power.**
   High voltage and High amp

6. **Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).**
   Requires a special foundation and annual NDI.

7. **State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing.).**
   Air-conditioning

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.**
   This unit is the only one of it's kind. It would be impossible

Enclosure (1)

to replicate and impossible to relocate due to size of unit.

9. **Indicate how and when the facility/equipment was transported and or constructed at the site.**
   Constructed on site from 1957-1958

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.**
    None

11. **Provide the historical utilization average for the past five fiscal years (1989-1993)**
    2 weeks per month

12. **Provide the projected utilization data out to FY97.**
    3 weeks per month

13. **What is the approximate number of personnel used to operate the facility/equipment?**
    2

14. **What is the approximate number of personnel needed to maintain the equipment?**
    2

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

MICROWAVE RESEARCH, BLDG 3233
8,000 SQFT

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center
Site: NAVAEROMEDRSRCHLAB

Facility/Equipment
Nomenclature or
Title: MICROWAVE RESEARCH, BLDG. 3233

1. **State the primary purpose(s) of the facility / equipment.**

   Used to determine biological effects of microwave radiation. Allow for wide range of electromagnetic radiation (EMR) Studies.

2. **Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 12 of this date 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.**

   $295,000.00

4. **Provide the gross weight and cube of the facility/equipment.**

   8,000 SF

5. **Indicate any "special" utility support required by the facility/equipment other than normal electrical power.**

   High-power radar units (4 MW at 5400-5900 MHz and 10 MW 1250-1350 MHz) and one outdoor irradiation groundplane. Also, gas, water, and sewage services are required in the proper conduct of its functions.

6. **Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).**

   Shielding and special absorbent materials for "EMR" studies.

7. **State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing.).**

   Temperature controlled environment.

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.**

The dominant features of microwave facility allows NAMRL to conduct RF Dosimetry, Exposure Effects of EMR on persnnel, and testing of new devices. The facility is unique to biomedical research contributing to areas of research vital to safety of fleet personnel. It's possible to replicate or relocate but would be difficult and expensive under current fiscal climate.

9. **Indicate how and when the facility/equipment was transported and or constructed at the site.**

Constructed at the site in 1971.

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.**

None

11. **Provide the historical utilization average for the past five fiscal years (1989-1993)**

2900 hours per year based on 8hr/day utilization rate.

12. **Provide the projected utilization data out to FY97.**

2900 hours per year.

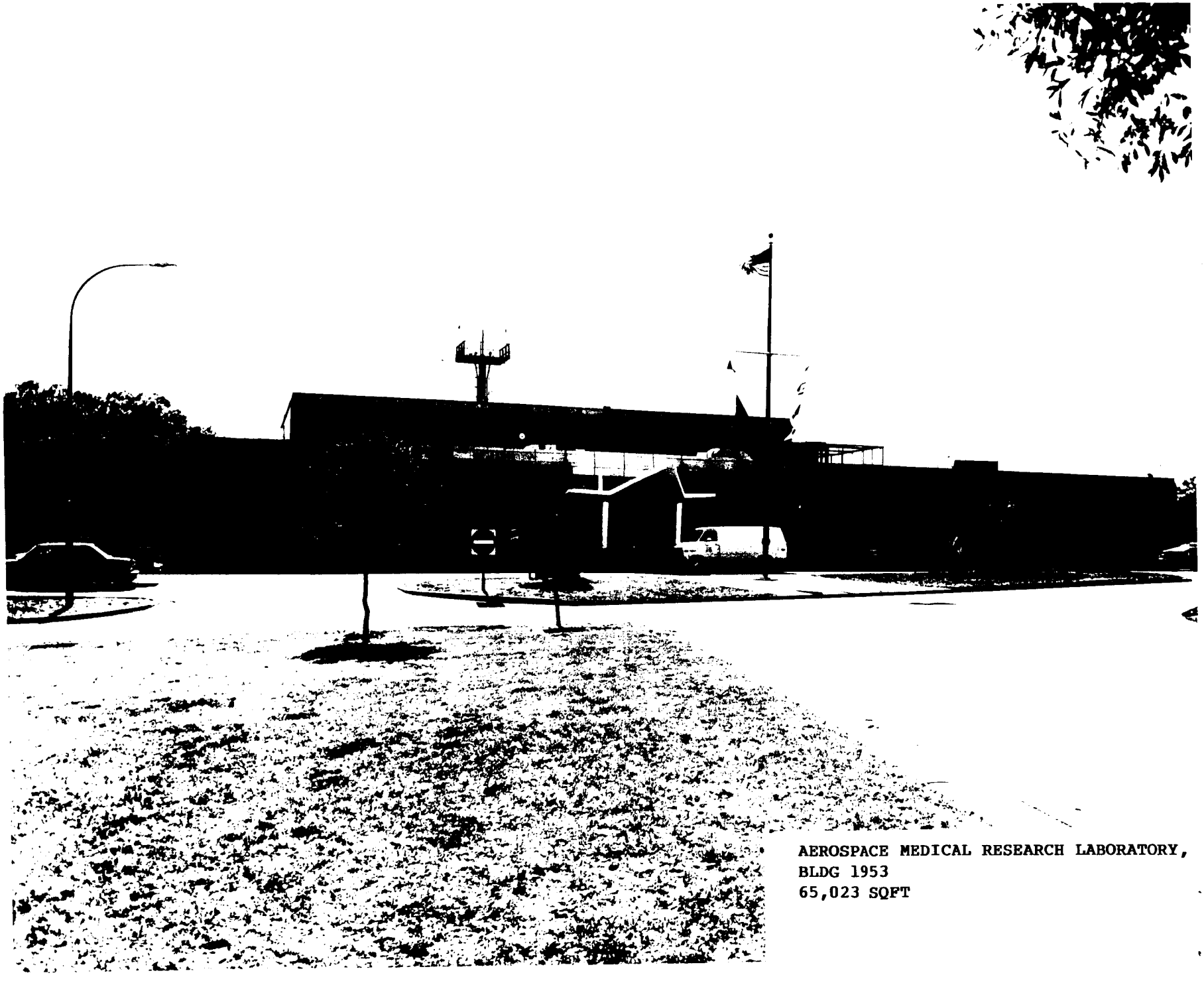
13. **What is the approximate number of personnel used to operate the facility/equipment?**

3-4 personnel are occupy the microwave facility at any given time during a normal eight-hour work period.

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

General upkeep, maintenance and repairs, of the facility is command's responsibility and accomplished via local NPWC.

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



AEROSPACE MEDICAL RESEARCH LABORATORY,
BLDG 1953
65,023 SQFT

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center
Site: NAVAEROMEDRSRCHLAB

Facility/Equipment
Nomenclature or
Title: AEROSPACE MEDICAL RESEARCH, BLDG. 1953

1. **State the primary purpose(s) of the facility / equipment.**

   To conduct research, development, test, and evaluation in aviation medicine and the allied sciences to enhance the health, safety, and readiness of the Navy and Marine Corps personnel in the effective performance of peacetime and contingency missions, and to perform such other functions or tasks as may be required by higher authority.

2. **Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 12 of this date 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.**

   $7,788,000.00

4. **Provide the gross weight and cube of the facility/equipment.**

   ~~62,510~~ SF 65,023

5. **Indicate any "special" utility support required by the facility/equipment other than normal electrical power.**

   Water, sewage, gas, and steam services are required for habitability in a windowless, concrete facility. Increased water pressure are needed for laser studies and vivarium maintenance.

6. **Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).**

   Special shielding for laser and accoustics walling for various research programs.

7. **State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing.).**

   Air-conditioning and Humidity controlled environment required for habitability and protection of delicate research devices and ADP equipment.

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.**

   Valuable research in support of operational fleet will be diminished compromising the health, safety, and overall preparedness of its personnel. Extremely difficult to replicate or relocate due to size and replacement cost.

9. **Indicate how and when the facility/equipment was transported and or constructed at the site.**

   Facility was constructed at the site in 1965.

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.**

    None

11. **Provide the historical utilization average for the past five fiscal years (1989-1993)**

    2920 Hours per year based on 8 hr/day utilization rate.

12. **Provide the projected utilization data out to FY97.**

    2920 Hours per year.

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

    60-70 personnel occupy the building at any given time during a normal eight-hour work period.

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

    General upkeep of bldg. to include repairs and maintenance are accomplished via the local NPWC.

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

AEROSPACE MED RDT&E, BLDG 1811
23,530 SQFT

AEROSPACE MED RDT&E, BLDG 1811
23,530 SQFT

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center
Site: NAVAEROMEDRSRCHLAB

Facility/Equipment
Nomenclature or
Title: AEROSPACE MED RDT&E, BLDG. 1811

1. **State the primary purpose(s) of the facility / equipment.**

   To accommodate basic and applied research to determine physiological, perceptual, and psychophysiological responses to motion-induced stimuli associated with aviation and space environments.

2. **Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 12 of this date 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.**

   $2,662,000.00

4. **Provide the gross weight and cube of the facility/equipment.**

   23,530 SF

5. **Indicate any "special" utility support required by the facility/equipment other than normal electrical power.**

   Strong, special architectural structures are required to support one-of-a-kind basic vestibular physiological research devices. Steam, water, and sewage services are necessary for habitability and occupancy of facility.

6. **Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).**

   Non-desctructive inspections of special foundations and support structures.
   General upkeep to include repairs and maintenance, and telecommunications services.

7. **State any environmental control requirements for the**

facility/equipment (i.e., temperature, humidity, air scrubbing.).

Temperature and humidity controlled environment required to protect delicate ADP and vestibular physilogical research devices.

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.**

   Facility may be extremely difficult to replicate or relocate under the present fiscal climate. Vestibular physiology research providing valuable information about motion sickness and spatial disorientation as well as the NASA/NAMRL agreement for consultation services may be impaired if this facility were lost.

9. **Indicate how and when the facility/equipment was transported and or constructed at the site.**

   Constructed at the site in 1956.

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.**

    None

11. **Provide the historical utilization average for the past five fiscal years (1989-1993)**

    2920 Hours per year based on an 8 hr/day utilization rate.

12. **Provide the projected utilization data out to FY97.**

    2920 Hours per year.

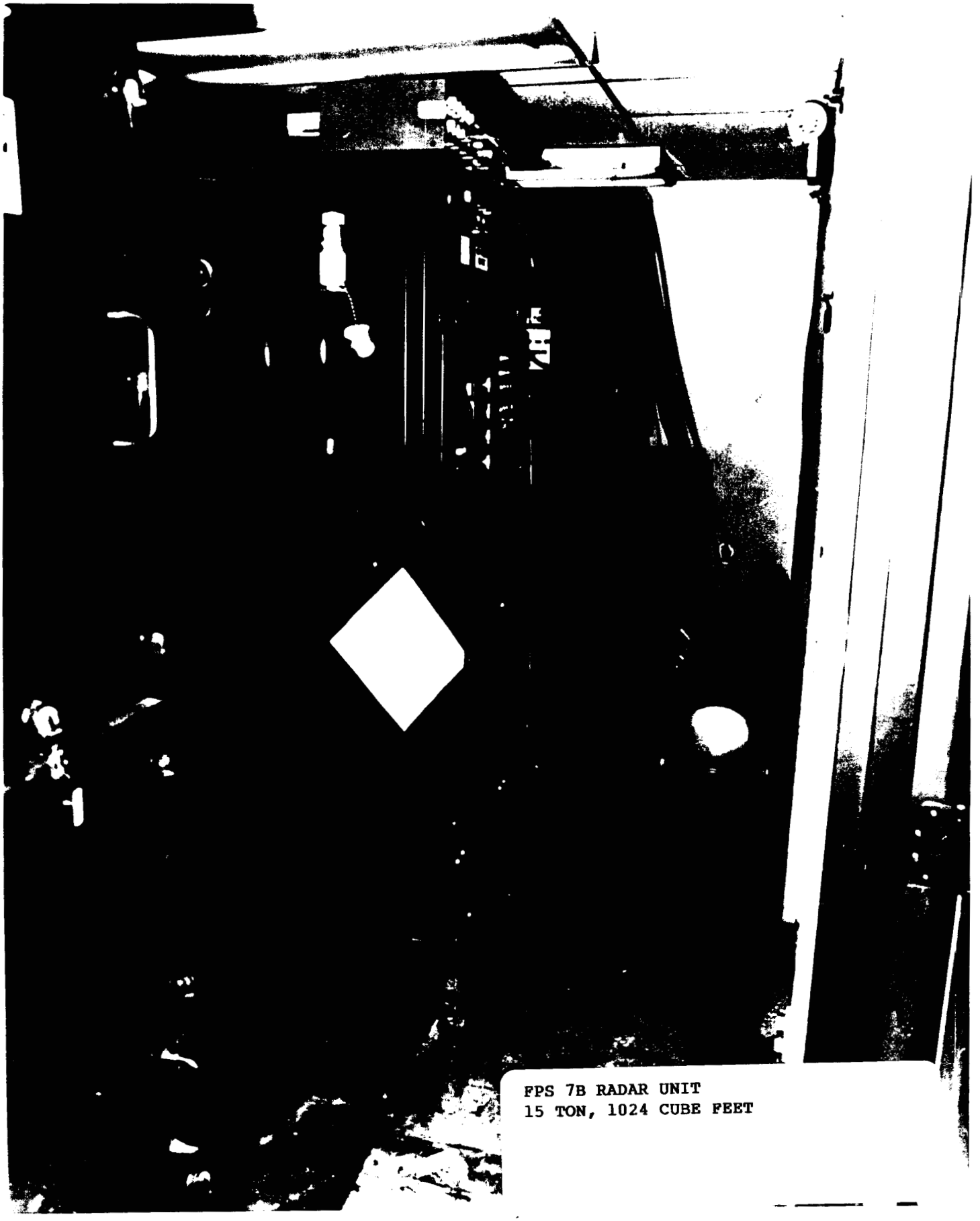
13. **What is the approximate number of personnel used to operate the facility/equipment?**

    15-20 personnel occupy the building at any given time during a normal eight hour work period.

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

    General upkeep to include repairs and maintenance are command's responsibility and accomplished via local NPWC with appropriated overhead budget.

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



FPS 7B RADAR UNIT
15 TON, 1024 CUBE FEET

FPS 7B RADAR UNIT
15 TON, 1024 CUBE FEET

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site: NAVAEROMEDRSRCHLAB

Facility/Equipment Nomenclature or Title: FPS 7B RADAR UNIT

1. **State the primary purpose(s) of the facility / equipment.**
   Used to determine the Biological effects of Microwave radiation.

2. **Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 12 of this date call.**
   Moveable

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.**
   $5,000,000.00

4. **Provide the gross weight and cube of the facility/equipment.**
   15 Tons 1024 cube feet

5. **Indicate any "special" utility support required by the facility/equipment other than normal electrical power.**
   500 amp, 208v AC 3 phase

6. **Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).**
   None

7. **State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing.).**
   None

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.**
The Unit would be difficult to replicate due to nonavailability of same type of unit. The unit would have to be rebuilt for replacement. Relocation would be possible though there are 9 different pieces that make up this unit.

9. **Indicate how and when the facility/equipment was transported and or constructed at the site.**
Unknown

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.**
None

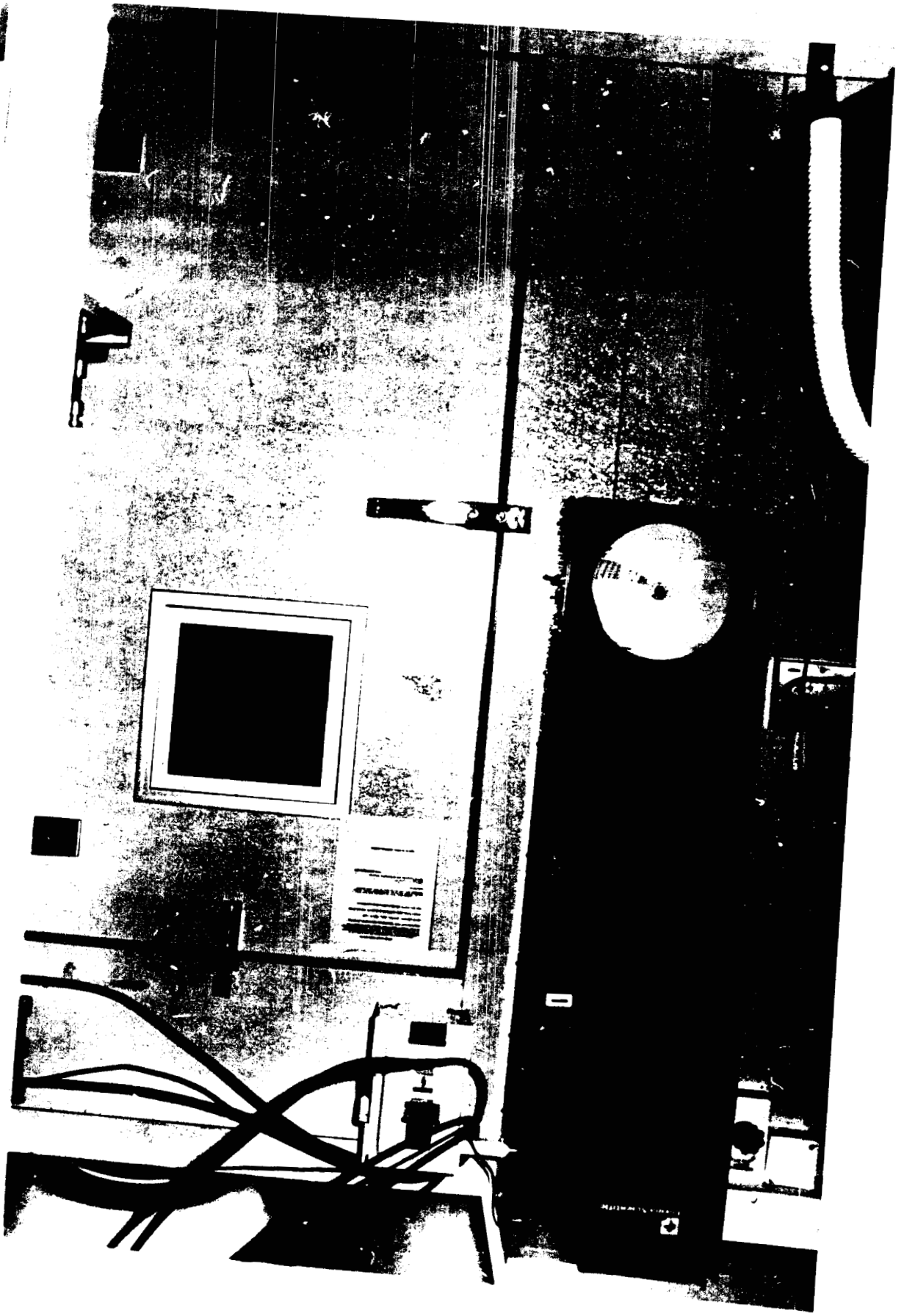
11. **Provide the historical utilization average for the past five fiscal years (1989-1993)**
20 Hours a week

12. **Provide the projected utilization data out to FY97.**
20 hours a week

13. **What is the approximate number of personnel used to operate the facility/equipment?**
2

14. **What is the approximate number of personnel needed to maintain the equipment?**
2

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



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SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center Site: NAVAEROMEDRSRCHLAB

Facility/Equipment Nomenclature or Title: ENVIRONMENTAL CHAMBER

1. **State the primary purpose(s) of the facility / equipment.**
   Provide facility for environmental physiology research.

2. **Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 12 of this date 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.**
   $60,000

4. **Provide the gross weight and cube of the facility/equipment.**
   1 Ton, 640 cube feet

5. **Indicate any "special" utility support required by the facility/equipment other than normal electrical power.**
   De-ionized water system

6. **Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).**
   None

7. **State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing.).**
   None

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 require disassembly for relocation. System may replicated.

9. **Indicate how and when the facility/equipment was transported and or constructed at the site.**
   Delivered and installed on site by Vendor in 1992.

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.**
    None

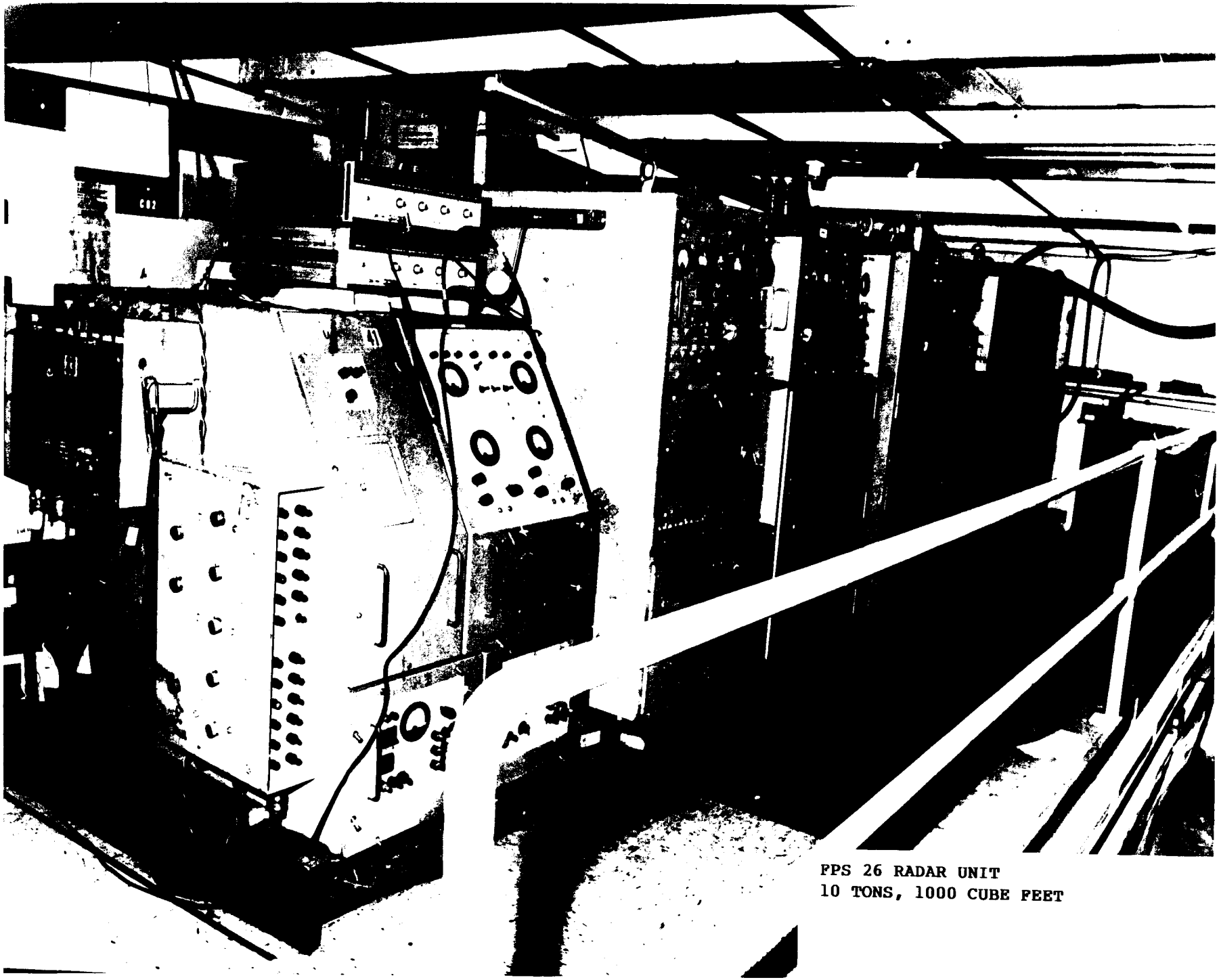
11. **Provide the historical utilization average for the past five fiscal years (1989-1993)**
    60 experiments a year.

12. **Provide the projected utilization data out to FY97.**
    100 experiments a year.

13. **What is the approximate number of personnel used to operate the facility/equipment?**
    3

14. **What is the approximate number of personnel needed to maintain the equipment?**
    1

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



FPS 26 RADAR UNIT
10 TONS, 1000 CUBE FEET

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center
Site: NAVAEROMEDRSRCHLAB

Facility/Equipment
Nomenclature or
Title: FPS 26 RADAR UNIT

1. State the primary purpose(s) of the facility / equipment.
Used to determine biological effects of microwave radiation.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 12 of this date call.
Moveable

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.
$3,500,000.00

4. Provide the gross weight and cube of the facility/equipment.
10 Ton, 1000 cube feet.

5. Indicate any "special" utility support required by the facility/equipment other than normal electrical power.
1000 amp 208 volts AC 3 phase.

6. Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).
N/A

7. State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing.).
Humidity controlled environment.

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 seven components that make up this unit. It is possible to replicate or re-locate but would be difficult.

9. **Indicate how and when the facility/equipment was transported and or constructed at the site.**
   Unknown

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.**
    None

11. **Provide the historical utilization average for the past five fiscal years (1989-1993)**
    1800 hours per year

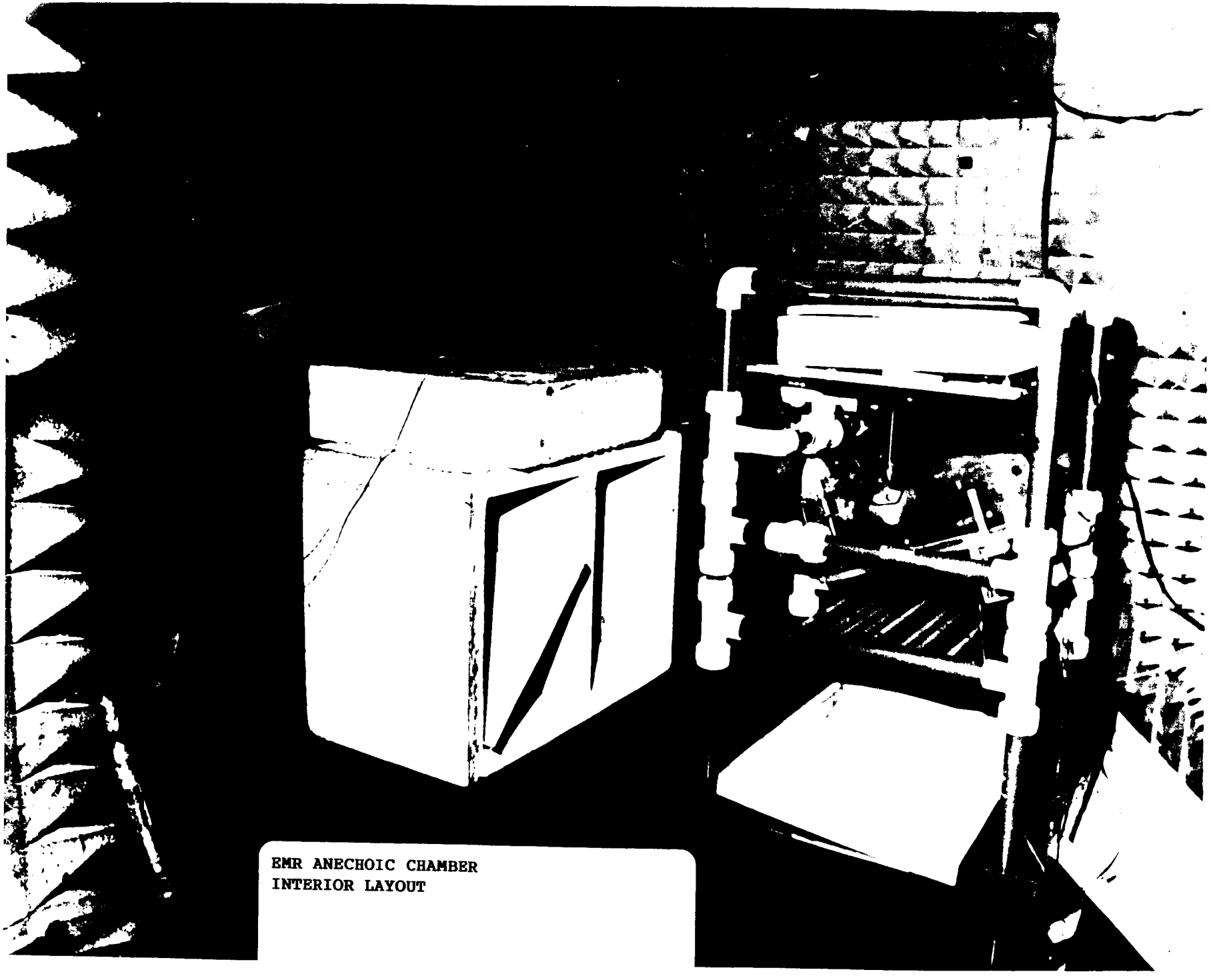
12. **Provide the projected utilization data out to FY97.**
    1800 hours per year

13. **What is the approximate number of personnel used to operate the facility/equipment?**
    2

14. **What is the approximate number of personnel needed to maintain the equipment?**
    2

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

EMR ANECHOIC CHAMBER
2000 LBS, 960 CUBE FEET



EMR ANECHOIC CHAMBER
INTERIOR LAYOUT

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center
Site: NAVAEROMEDRSRCHLAB

Facility/Equipment
Nomenclature or
Title: EMR ANECHOIC CHAMBER

1. **State the primary purpose(s) of the facility / equipment.**
   Used to determine biological effects of microwave radiation.

2. **Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 12 of this date call.**
   Moveable

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.**
   30,000.00

4. **Provide the gross weight and cube of the facility/equipment.**
   2000 lbs, 960 cube feet.

5. **Indicate any "special" utility support required by the facility/equipment other than normal electrical power.**
   Approved sprinkler system

6. **Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).**
   None

7. **State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing.).**
   Air venting

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.**
   Equipment may be replicated or relocated with little difficulty.

9. **Indicate how and when the facility/equipment was transported and or constructed at the site.**
   Unknown

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.**
    None

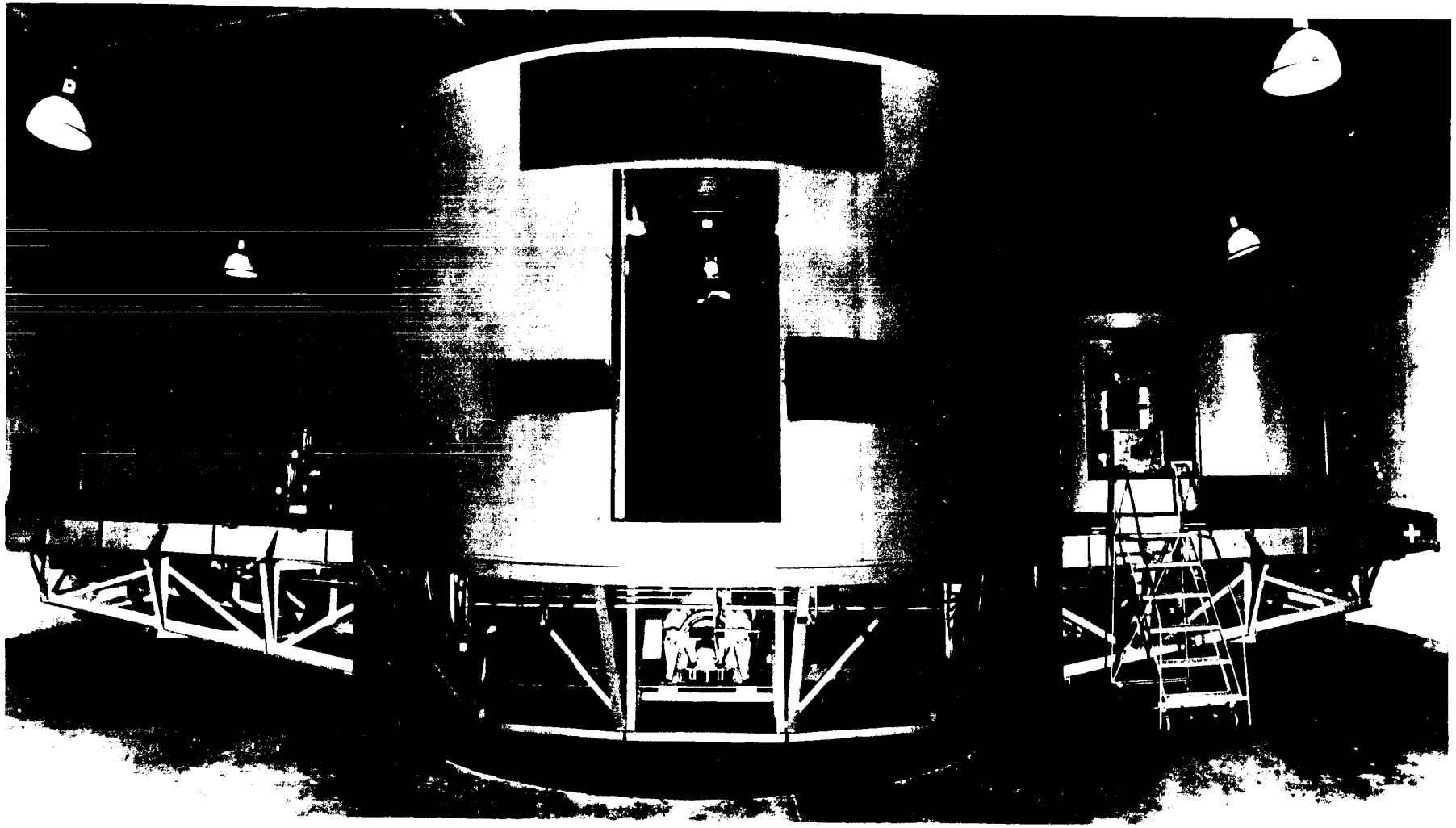
11. **Provide the historical utilization average for the past five fiscal years (1989-1993)**
    1500 Hours per year

12. **Provide the projected utilization data out to FY97.**
    1500 Hours per year

13. **What is the approximate number of personnel used to operate the facility/equipment?**
    2

14. **What is the approximate number of personnel needed to maintain the equipment?**
    2

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



CORIOLIS ACCELERATION PLATFORM (CAP)
20 TONS, 30,000

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center
Site: NAVAEROMEDRSRCHLAB

Facility/Equipment
Nomenclature or
Title: CORIOLIS ACCELERATION PLATFORM (CAP)

1. **State the primary purpose(s) of the facility/equipment.**
   The CAP is the only device worldwide capable of applying combined linear and angular acceleration to human subject. It also used to study chronic exposure to altered G environments.

2. **Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 12 of this date 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.**
   $20,000,000.00

4. **Provide the gross weight and cube of the facility/equipment.**
   20 Tons, 30,000 cubic feet.

5. **Indicate any "special" utility support required by the facility/equipment other than normal electrical power.**
   High voltage, and High amp

6. **Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).**
   Requires a special foundation and annual Non-Destructive Inspection (NDI).

7. **State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing.).**
   The device has a 20-ft diameter room, which contains complete life support and bioinstrumentation equipment for the exposure of 4-8 men to continuous rotation for 30 days or longer. Air-conditioning and Humidity are other environmental controlled requirements.

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.
This is the only device of it's kind in the world. Extremely difficult to replicate or relocate due to size and replacement cost.

9. **Indicate how and when the facility/equipment was transported and or constructed at the site.**
The CAP was constructed on site between 1964-1965. This device was installed piece by piece.

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.**
None

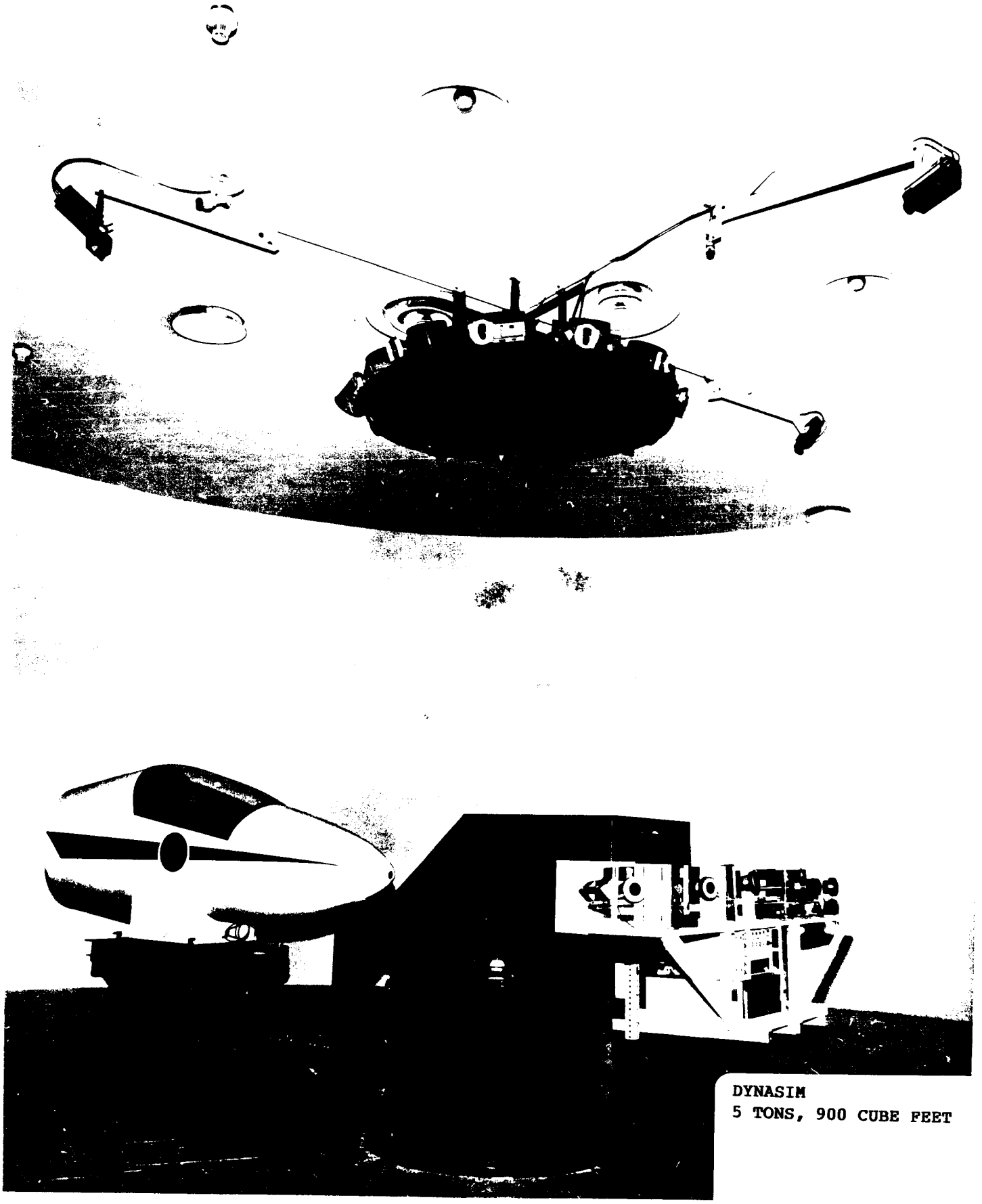
11. **Provide the historical utilization average for the past five fiscal years (1989-1993)**
4 Hours per day

12. **Provide the projected utilization data out to FY97.**
4 Hours per day

13. **What is the approximate number of personnel used to operate the facility/equipment?**
4

14. **What is the approximate number of personnel needed to maintain the equipment?**
4

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



DYNASIM
5 TONS, 900 CUBE FEET

SPECIAL FACILITIES AND EQUIPMENT
FACILITIES/EQUIPMENT CAPABILITY FORM

Technical Center
Site: NAVAEROMEDRSRCHLAB

Facility/Equipment
Nomenclature or
Title: DYNASIM

1. **State the primary purpose(s) of the facility / equipment.**
   Used for vestibular and spatial research, DYNASIM is a short arm centrifuge that provides yaw-axis rotation of an off-center cockpit housed in an aircraft-like fuselage capable of motion about its own pitch-and-roll axes.

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.**
   $5,000,000.00

4. **Provide the gross weight and cube of the facility/equipment.**
   5 Tons, 900 cubic feet.

5. **Indicate any "special" utility support required by the facility/equipment other than normal electrical power.**
   None

6. **Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).**
   Requires a special foundation.

7. **State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing.).**
   Air-conditioning

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.**
   Extremely difficult due to size and replacement cost.

9. **Indicate how and when the facility/equipment was transported**

9. **Indicate how and when the facility/equipment was transported and or constructed at the site.**
1982, Transported on site and installed.

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.**
None

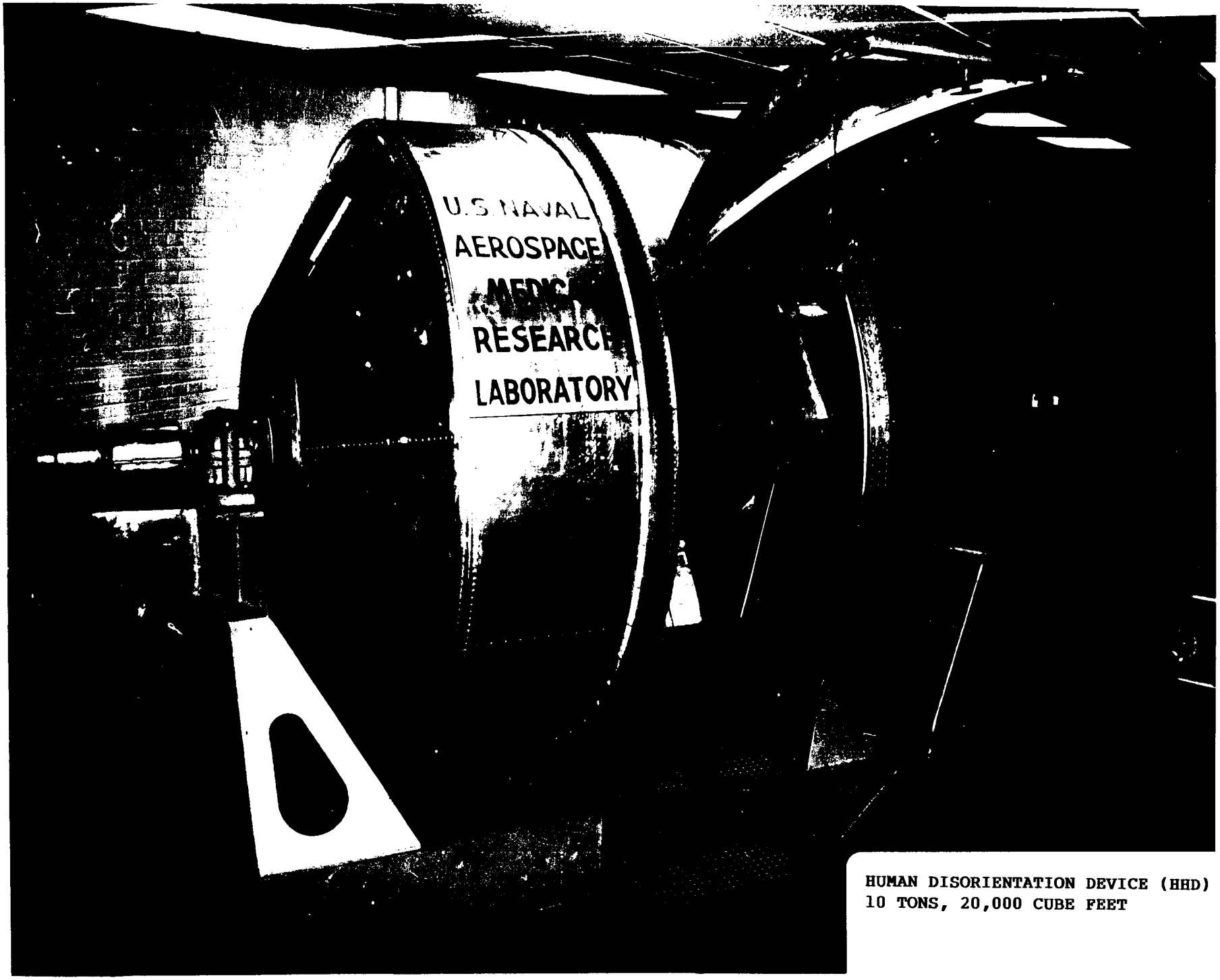
11. **Provide the historical utilization average for the past five fiscal years (1989-1993)**
8 Hours per week

12. **Provide the projected utilization data out to FY97.**
16 Hours per week

13. **What is the approximate number of personnel used to operate the facility/equipment?**
2

14. **What is the approximate number of personnel needed to maintain the equipment?**
2

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



HUMAN DISORIENTATION DEVICE (HHD)
10 TONS, 20,000 CUBE FEET

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

R. P. OLAFSON
NAME (Please type or print)

Raymond P. Olafson
Signature

ACTING COMMANDING OFFICER
Title

9 May 94
Date

NAVAL AEROSPACE 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)

E. T. FLYNN, CAPT, MC, USN
NAME (Please type or print)

Signature

COMMANDING OFFICER
Title

13 May 94
Date

Naval Medical Research and Development Command
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

RADM R. I. RIDENOUR
NAME (Please type or print)

Signature

ACTING CHIEF BUMED
Title

5-16-94
Date

BUREAU OF MEDICINE AND 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)

Signature

ACTING
Title

2 JUN 94
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

J. C. PATEE
NAME (Please type or print)

J. Patee
Signature

COMMANDING OFFICER
Title

24 AUG 94
Date

NAVAL AEROSPACE MEDICAL RESEARCH LAB
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
NAME (Please type or print)

Signature

COMMANDING OFFICER
Title

9.5.94
Date

NAVAL MEDICAL RESEARCH AND DEVELOPMENT COMMAND
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

9-14-94
Date

BUREAU OF MEDICINE AND 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

9/21/94
Date