

**MILITARY VALUE DATA CALL**  
**TECHNICAL CENTERS**

<b>Category</b>	
<b>Technical Center Site</b>	<b>Naval Biodynamics Laboratory</b>
<b>Location/Address</b>	<b>13800 Old Gentilly Blvd New Orleans, LA 70189</b>

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**TAB A Technical Operations: Functional Support Area - Life Cycle Work Area Form**

**TAB B Facilities and Equipment: Facilities/Equipment Capability Form**

**TAB C Range Resources: Range Capability Form**

**Appendix A Functional Support Areas - Life Cycle Work Areas List**

**Appendix B Definitions for Functional Support Areas - Life Cycle Work Areas**

## 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.

**To be the principal Navy activity to conduct biomedical research on the effects of mechanical forces (motion, vibration, and impact) encountered in ships and aircraft on naval personnel; to establish human tolerance limits for these forces; and to develop preventive and therapeutic methods to protect personnel from the deleterious effects of such forces.**

**BUMEDINST 5450.153**

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

**N/A**

## 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.

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## 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.

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BUMED-822  
MVA, 22 Jul 99

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Table 4.1, General Support Resources for  
(Activity: NAVBIODYNLAB ) (UIC: 66863 )

Function	Space allocated (Gross SQFT)	Work Years	Civilian Persnel onboard	Contract Work Years	Military Personnel Onboard	
					Off	Enl
<b>ADMINISTRATION</b>						
Command (CO/XO/TD/etc.)	560	4	1		2	1
Comptroller	140	2	2			
Admin	980	6	5		1	
Human Resources						
<b>OPERATIONS SUPPORT</b>						
Supply Management	420	2	1			1
Consolidated Computational Computer Support	1260	4	4			
Information Systems and Communications						
Safety/OSH/Environmental						
<b>INFRASTRUCTURE</b>						
Physical Security	N/A					
Public Works/Staff Civil Engr	N/A					
Fire protection	N/A					
Medical/Dental	1400	4			1	3
Military Support	2380	17				17
Air/Waterfront Operations	N/A					
Other	N/A					
<b>TECHNICAL STAFF</b>						
Technical Operations	2240	24	22	2	2	
Totals	7280	63	35	2	6	22

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SMC (2)

**Table 4.1, General Support Resources for  
(Activity: NAVBIODYNLAB ) (UIC: 66863 )**

Function	Space allocated (Gross SQFT)	Work Years	Civilian Persnel onboard	Contract Work Years	Military Personnel Onboard	
					Off	Enl
<b>ADMINISTRATION</b>						
Command (CO/XO/TD/etc.)	560	4	1		2	1
Comptroller	140	1	1			
Admin	980	7	6		1	
Human Resources	2380	17				17
<b>OPERATIONS SUPPORT</b>						
Supply Management	420	1				1
Consolidated Computational Computer Support	1260	9	9			
Information Systems and Communications						
Safety/OSH/Environmental	140	1	1			
<b>INFRASTRUCTURE</b>						
Physical Security	N/A					
Public Works/Staff Civil Engr	N/A					
Fire protection	N/A					
Medical/Dental	1400	4			1	3
Military Support	N/A					
Air/Waterfront Operations	N/A					
Other	N/A					
<b>TECHNICAL STAFF</b>						
Technical Operations	2240	17	16	1		
Totals	7280	61	34	1	4	22

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**Table 4.2, General Support Resources for all Detachments**  
 (Activity: NAVBIODYNLAB ) (UIC: 66863 ) NOT APPLICABLE. THIS  
 COMMAND DOES NOT HAVE DETACHMENTS.

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

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**Table 4.3, Previous BRAC Impact to General Support Resources for (Activity: NAVBIODYNLAB ) (UIC: 66863) THIS PAGE NOT APPLICABLE**

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

**5. Technical Staff Qualifications.**

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TECHNICAL STAFF						
Technical Operations						
Total						1

5. Technical Staff Qualifications.

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

Table 5.1, Technical Staff Education Level for  
(Activity: NAVBIODYNLAB) (UIC: 66863)

Highest Degree Attained	Years of Government and/or Military Service					Total
	Less than 3 Years	3-10 Years	11-15 Years	16-20 Years	More than 20 Years	
Grade School	0	0	0	0	0	0
High School	0	1	5	0	4	10
B.A./B.S	0	3	1	1	0	5
M.A./M.S	1	2	1	0	1	5
Ph.D./M.D.	0	2	0	0	0	2
Total	1	8	7	1	5	22

Technical Operations						
Totals						

**5. Technical Staff Qualifications.**

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

Table 5.1, Technical Staff Education Level for  
(Activity: NAVBIODYNLAB) (UIC: 66863)

Highest Degree Attained	Years of Government and/or Military Service					Total
	Less than 3 Years	3-10 Years	11-15 Years	16-20 Years	More than 20 Years	
Grade School	0	0	0	0	0	0
High School	0	4	7	3	5	19
B.A./B.S	0	3	1	2	1	7
M.A./M.S	1	2	1	1	1	6
Ph.D./M.D.	0	2	0	0	1	3
<b>Total</b>	<b>1</b>	<b>11</b>	<b>9</b>	<b>6</b>	<b>8</b>	<b>35</b>

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

**Table 5.3, Technical Staff Academic Fields for  
(Activity: NAVBIODYNLAB ) (UIC: 66863 )**

Academic field	Number
Physics	0
Chemistry	0
Biology	0
Mathematics/Statistics/ Operations Research	3
Engineering	2
Medical	0
Dental	0
Computer Science	0
Social Science	1
Other Science	0
Non-Science	0
<b>Total</b>	<b>6</b>

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

**Table 5.3, Technical Staff Academic Fields for  
(Activity: NAVBIODYNLAB ) (UIC: 66863 )**

Academic field	Number
Physics	0
Chemistry	0
Biology	0
Mathematics/Statistics/ Operations Research	3
Engineering	6
Medical	6
Dental	0
Computer Science	6
Social Science	3
Other Science	0
Non-Science	0
<b>Total</b>	<b>24</b>

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**Table 5.4, Technical Staff Academic Fields for all Detachments  
(Parent Activity: NAVBIODYNLAB) (UIC: 66863) NOT APPLICABLE. THIS  
COMMAND DOES NOT HAVE DETACHMENTS.**

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

c. Are there unique aspects of the activity's location that help or hinder in the hiring of qualified personnel?

**NO**

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.

**BRAC INPUT**

29 April 1994

Dobie, T. G. and May, J. G., "Generalization of Tolerance to Motion Environments." *Aviation, Space, and Environmental Medicine*, Vol. 61, pp. 707-711, August 1990.

Dobie, T. G., May, J. G., Gutierrez, C. A., and Heller, S. S., "The Transfer of Adaptation Between Actual and Simulated Rotary Stimulation." *Aviation, Space, and Environmental Medicine*, Vol. 61, pp. 1085-1091, December 1990.

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Starr, J. B., Webb, S. C., Day, H. R., Frey, R., "Aptitude Measurement in U.S. Subcultures." *International Journal of Intercultural Relations*, Vol. 15, pp. 149-161, 1991.

Willems, G. C. and Knouse, D. R., "A Detailed Evaluation of the ATA Angular Motion Sensor in Realistic Simulated Crash Environments." *Proceedings of the 35th STAPP Car Crash Conference*, Society of Automotive Engineers, San Diego, CA, pp. 303-334, 1991.

Gluck, G. S. and Mawn, S. V., "The Klippel-Feil Syndrome: Implications for Naval Service." *Military Medicine*, Vol. 157, pp. 318-322, June 1992.

Mawn, S. V., Lambert, J. J., and Catyb, J. L. "The Relationship Between Head and Neck Anthropometry and Kinematic Response During Impact Acceleration." *Aviation, Space and Environmental Medicine*, Vol. 63, pp. 32-36, January 1992.

Willems, G. C. and Knouse, D. R. "A Simple Step Procedure Finds the Time Response of Filtered Data." *EDN-Design Feature*, pp. 139-142, December 9, 1993.

Dobie, T. G. and May, J. G., "Cognitive-Behavioral Management of Motion Sickness." *Aviation, Space, and Environmental Medicine*, Accepted for publication, 1994.

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.

Guignard, J. C. and McCauley, M. E., "The Accelerative Stimulus for Motion Sickness." In George H. Crampton (Ed.), *Motion and Space Sickness*, CRC Press, Inc., Boca Raton, FL, pp. 123-152, 1990.

f. Identify any Nobel laureates employed at this activity.

NONE

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

NONE

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

NONE

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

NONE

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NONE

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

NONE

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

NONE

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

NONE

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

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

NONE

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.

NONE

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## 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.

- a. **Horizontal Accelerator experimental facility**
- b. **Vertical Accelerator experimental facility**
- c. **Ship Motion Simulator experimental facility**

### 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.

- None

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

**NONE**

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

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

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

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

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

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

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

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

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

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

(5) CWE & planned BOD.

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

**Nearest military airfield is Naval Air Station, New Orleans, in Bellechase, 25 miles away. NASA owns a pier at the site of this facility.**

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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?

**No explosive storage magazines exist at this site.**

### **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.

**NO**

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

**minor**

**The customer base could be served from anywhere. The importance of the present location relative to the customer base is that a significant portion of highly experienced technical and scientific staff are unlikely to relocate.**

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## 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.

The NBDL has several mini-computers which support the research programs. These are Unix-based systems ranging in size and processing capability. They are networked to provide in-house file and data sharing. Each system independently supports a research effort. Network interconnectivity is achieved using two Novell based client/server platforms. These provide both research and administrative support. Email communication outside the command is done via modem dial-up access to an Internet/email Mode.

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**10. Mobilization Responsibility and Capability.**

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

**Continue research and develop peacetime mission, accelerating advanced development programs and delivering existing product transition programs with appropriately skilled technical personnel as required.**

**BUMEDINST 4812.1**

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

**General Mission Support**

(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?

**None**

(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.

**2**

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

**Yes**

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

**NO**

(2) If no, what repairs, renovations and/or additions are required to provide adequate facilities? What is the estimated cost of this work? **NONE**

(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.

**No**

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

None

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

No

11. **Range Resources.** Include a copy of the form provided at Tab C of this data call for each range located at this activity or operated by this activity. Also, report ranges at detachments and sites not receiving a separate data call. The following definition of a range will apply:

N/A

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.

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**QUALITY OF LIFE**

**12. Military Housing- NOT APPLICABLE TO NAVBIODYNLAB. THIS COMMAND DOES NOT UTILIZE 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?

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

Pay Grade	Number of Bedrooms	Number on List <sup>1</sup>	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+		

<sup>1</sup>As of 31 March 1994.

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(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?

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(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:

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

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

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

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

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(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:

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

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

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

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

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(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?

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(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?

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(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?

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(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?

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13. **MWR Facilities.** For on-base MWR facilities<sup>10</sup> available, complete the following table for each separate location. For off-base government owned or leased recreation facilities indicate distance from base. If there are any facilities not listed, include them at the bottom of the table. NOT APPLICABLE. NAVBIODYNLAB DOES NOT OPERATE MWR FACILITIES.

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		

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

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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?

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**14. Base Family Support Facilities and Programs. NOT APPLICABLE. NAVBIODYNLAB DOES NOT UTILIZE BASE FAMILY SUPPORT FACILITIES AND PROGRAMS. NOT APPLICABLE. NAVBIODYNLAB IS NOT LOCATED ON A MILITARY BASE.**

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).

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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	

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

City	Distance (Miles)
NEW ORLEANS, LA	10
BATON ROUGE, LA	75
BILOXI, MS	60

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16. Standard Rate VHA Data for Cost of Living:

Paygrade	With Dependents	Without Dependents
E1	47.53	26.60
E2	47.53	29.89
E3	47.53	31.66
E4	40.26	28.10
E5	52.79	36.86
E6	69.83	47.54
E7	84.42	57.25
E8	73.76	55.76
E9	35.64	27.06
W1	114.58	87.02
W2	67.01	52.56
W3	68.94	56.04
W4	40.72	36.10
O1E	75.43	55.95
O2E	33.43	26.66
O3E	23.04	27.23
O1	59.96	44.18
O2	79.88	62.44
O3	30.06	25.31
O4	45.37	39.46
O5	25.59	21.17
O6	0	0
O7	0	0

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**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	275	235	50
Apartment (1-2 Bedroom)	425	325	65
Apartment (3+ Bedroom)	550	475	90
Single Family Home (3 Bedroom)	750	575	135
Single Family Home (4+ Bedroom)	900	725	180
Town House (2 Bedroom)	500	450	65
Town House (3+ Bedroom)	600	525	90
Condominium (2 Bedroom)	500	450	65
Condominium (3+ Bedroom)	600	525	90

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

Type Rental	Percent Occupancy Rate
Efficiency	98
Apartment (1-2 Bedroom)	95
Apartment (3+ Bedroom)	99
Single Family Home (3 Bedroom)	99
Single Family Home (4+ Bedroom)	99
Town House (2 Bedroom)	95
Town House (3+ Bedroom)	99

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Condominium (2 Bedroom)	95
Condominium (3+ Bedroom)	99

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

Type of Home	Median Cost
Single Family Home (3 Bedroom)	72k
Single Family Home (4+ Bedroom)	95k
Town House (2 Bedroom)	39k
Town House (3+ Bedroom)	50k
Condominium (2 Bedroom)	72k
Condominium (3+ Bedroom)	98k

(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 N/A	3	4+ N/A
January		2	
February		2	
March		3	
April		3	
May		5	
June		8	
July		7	
August		9	
September		5	

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October		6	
November		5	
December		7	

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

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
N/A	N/A	N/A

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)
New Orleans East, LA	27	10	15
New Orleans, LA	15	17	23
Slidell, LA	13	22	25
New Orleans, West Bank	12	25	30
Chalmette, LA	2	11	15

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**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.

Institution	Type	Grade Level(s)	Special Education Available	Annual Enrollment Cost per Student	1993 Avg SAT/ACT Score	% HS Grad to Higher Educ	Source of Info
8 ELEMENTARY	PUB	K-6	2 SCHOOLS	NONE	N/A	N/A	N.O SCHOOLS
2 MIDDLE SCHOOLS	PUB	7-9	SPEC ED AT 1 SCHOOL	NONE	N/A	N/A	"
2 HIGH SCHOOLS	PUB	10-12	NONE	NONE	ACT 15.8	N/A	"
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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(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	
10 COLLEGES AND UNIV	Day YES	NO	YES	YES	YES	YES
	Night YES	NO	YES	YES	YES	YES
4 JUNIOR COLLEGES	Day YES	NO	YES	YES	YES	NO
	Night YES	NO	YES	YES	YES	NO
5 VO TECH SCHOOLS	Day YES	NO	YES	NO	NO	NO
	Night YES	NO	YES	NO	NO	NO
30 ADULT ED-HIGH	Day YES	YES	NO	NO	NO	NO
	Night YES	YES	NO	NO	NO	NO

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(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.

Institution	Type Classes	Program Type(s)				
		Adult High School	Vocational/ Technical	Undergraduate		Graduate
				Courses only	Degree Program	
NORTHWOOD UNIVERSITY	Day	NO	NO	NO	NO	NO
	Night	NO	NO	YES	YES	NO
	Correspondence	NO	NO	NO	NO	NO
TROY STATE UNIVERSITY	Day	NO	NO	NO	NO	NO
	Night	NO	NO	NO	NO	YES
	Correspondence	NO	NO	NO	NO	NO
	Day					
	Night					
	Correspondence					
	Day					
	Night					
	Correspondence					

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**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	N/A	33	64	N/A
Manufacturing	N/A	0	3	N/A
Clerical	N/A	82	199	N/A
Service	N/A	5	7	N/A
Other	N/A	N/A	N/A	7%

**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 - The active duty personnel have three military medical facilities within 180 mile radius and numerous civilian treatment facilities for acute or urgent care.**

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.

**No - The dependents have CHAMPUS Prime for civilian treatment and access to the military treatment facilities.**

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R

Question #23, Data Call #5

Based on a 1992 estimated population of 489,595 the following 1993 crime rates are provided per 100,000 population:

OFFENSE	RATE PER 100,000
Murder	80.88
Rape	60.86
Armed Robbery	852.94
Simple Robbery	204.86
Assault	1337.84
Burglary	2284.33
Theft	4497.39
Auto Theft	1949.77
Drug Crimes	113.15

9/15/94  
39 R VERBUMED 824 9/22/94

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

NOT APPLICABLE. NBDL IS NOT ON AN AIR STATION.

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			

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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			

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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			

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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			

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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			

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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			

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**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	NAVAL BIODYNAMICS LABORATORY
Functional Support Area	10.6.4 - MEDICAL RESEARCH AND COMBAT CASUALTY CARE
Life Cycle Work Area	RDT&E - 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. 21 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) 4,068

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) 594

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. \$(K) 747

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.

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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.

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

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

Technical Center Site	NAVBIODYNLAB
Facility/Equipment Nomenclature or Title	HORIZONTAL ACCELERATOR

1. This facility is used to impart a controlled acceleration pulse to living human subjects and to anthropomorphic manikins in order to study the effects of impact acceleration. This facility consists of a 12" diameter pneumatic-hydraulic actuator, three sleds, a 700 ft indoor, environmentally controlled track, control and safety interlock subsystems and instrumentation and data acquisition subsystems. The accelerator can propel test specimens at up to 200G and over 200,000 G's/sec.
2. Most of the equipment such as accelerator, rails, controls and ancillary equipment are moveable. The track foundation and reaction thrust block are not, but form an integral part of the facility.
3. Replacement value is 7.5M
4. Gross weight is 72000#. Gross volume is 810 cubic feet.
5. Special utility support required is high volume, high pressure (3000 psi) gaseous dry nitrogen supply (GN2). Supply must be able to pressurize a 7 cubic feet volume to 3000 psi in less than 10 minutes and provide turn-around time of no more than 30 minutes.
6. The accelerator track requires a solid foundation that will allow maintaining very tight track runout and gage tolerances over time. The accelerator itself requires a thrust reaction block capable of sustaining repeated impacts at 225000 pounds of force.
7. The facility requires an environmentally controlled shelter to protect electrical/electronic systems, rails and accelerator from moisture and to maintain track tolerances.
8. With the exception of thrust block and rail foundation all equipment could be relocated. These could be replicated via a MILCON. Accelerator and all other ancillary equipment are commercial products and could be replicated. Effect of loss of facility--Although there are similar devices elsewhere, the horizontal accelerator at NAVBIODYNLAB has a number of

**TAB B**  
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unique features:

a. Single impulse. Devices used in impact testing generally have discrete impacts at both the beginning and end of each experiment, the latter due to braking.

Because of its 700-ft track, NAVBIODYNLAB's accelerator is capable of boost-coast operation, i.e. a single acceleration pulse followed by minimal deceleration (0.2G) via friction. The implications of this capability are:

(1) "cleaner" data - With two impact events, there arises a question as to which impact caused a given result. This question is obviated when only a single impact is used.

(2) Safer experiments - With two impact events, there is an increased likelihood that the subject will be out of position and vulnerable to injury. In contrast, a safe initial position to avoid misalignment injuries can be virtually assured on this accelerator. Also, the possibility of human subject injury due to braking system failure is nonexistent. Short tracks require substantial braking capability.

b. Continuous physiological monitoring. The track is instrumented along its entire length with a telemetry link. This feature allows continuous physiological monitoring of test subjects before, during and after impact regardless of location of subject along track at sled stoppage. The implications of this capability are:

(1) More comprehensive physiological data acquisition capability

(2) Safer monitoring of subjects.

9. Track, track foundation, shelter, thrust block and control room were constructed via MILCON in 1971/2. Installed equipment was shipped to the site by the applicable vendors and installed by in-house staff.

10. Functional support areas: 1.1 (Undersea), 1.2 (Aircraft), 1.3 (Surface Ships), 1.5 (Ground Vehicles).

11. Usage: Unit of measure is number of experiments conducted.

FY89 - 36

FY90 - 3

FY91 - 116

FY92 - 23

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FY93 - 90

Projected usage: FY94 - 0 (Facility down)  
FY95 - 224  
FY96 - 182

13. Minimum number to operate: 4.  
For typical human experiment: 12
14. Number required to maintain equipment: 4
15. Picture enclosed.

Technical Center Site: NAVBIODYNLAB  
Facility/Equipment  
Nomenclature or Title: Vertical Accelerator Facility.

1. This facility is used to impart a controlled acceleration pulse to living human subjects and to anthropomorphic manikins in order to study the effects of vertical impact acceleration. This facility consists of a 6" diameter pneumatic-hydraulic actuator, a carriage, a 42 ft indoor, environmentally controlled tower, control and safety interlock subsystems and instrumentation and data acquisition subsystems. The accelerator can propel test specimens at up to 80G.
2. Most of the equipment such as accelerator, rails, controls and ancillary equipment are moveable. The tower foundation and reaction thrust block are not, but form an integral part of the facility.
3. Replacement value is \$1M
4. Gross weight is 20000#. Gross volume is 360 cubic feet. Facility shares ancillary equipment with horizontal accelerator  
/
5. Special utility support required is high volume, high pressure (3000 psi) gaseous dry nitrogen supply (GN2). Supply must be able to pressurize a 1.2 cubic feet volume to 2000 psi in less than 10 minutes and provide turn-around time of no more than 30 minutes.
6. The support tower requires a solid foundation that will allow maintaining very tight rail

**TAB B**  
**Page** 3 **of** 8  
**UIC:** 66863

runout and gage tolerances over time. The accelerator itself requires a thrust reaction block capable of sustaining repeated impacts at 40000 pounds of force.

7. The facility requires an environmentally controlled shelter to protect electrical/electronic systems, rails and accelerator from moisture and to maintain track tolerances.

8. With the exception of thrust block and rail foundation all equipment could be relocated. These could be replicated via a MILCON. Accelerator and all other ancillary equipment are commercial products and could be replicated. Effect of loss of facility--Although there are similar devices elsewhere, the accelerator at NAVBIODYNLAB has a number of unique features:

a. Co-location with the horizontal accelerator in the same environmentally controlled space.

This feature has allowed the sharing of the data acquisition systems originally developed for the horizontal impact facility. The implication of this capability is:

(1) Great economy, because the duplication of very expensive equipment is avoided. Because availability of the data acquisition systems is not the limiting productivity factor, scheduling conflicts are not an issue.

b. Continuous physiological monitoring. The tower is instrumented along its entire length with a telemetry link. This feature allows continuous physiological monitoring of test subjects before, during and after impact regardless of location of subject along tower at carriage stoppage. The implications of this capability are:

(1) More comprehensive physiological data acquisition capability

(2) Safer monitoring of subjects.

9. Tower foundation, shelter and thrust block were constructed via MILCON in 1974. Installed equipment was shipped to the site by the applicable vendors and installed by in-house staff.

10. Functional Support Areas: 1.1 (Undersea), 1.2 (Aircraft), 1.3 (Surface Ships), 1.5 (Ground Vehicles).

11. Usage: Unit of measure is number of experiments conducted.

FY89 - 55

FY90 - 177

FY91 - 390

FY92 - 74

FY93 - 58

Page 4 of 8  
UIC: 66863

12. Projected Usage: FY94 - 100  
FY95 - 150  
FY96 - 150
13. Minimum number to operate: 4  
For typical human experiment: 12
14. Number required to maintain equipment: 4
15. Picture enclosed.

Technical Center Site: NAVBIODYNLAB  
Facility/Equipment  
Nomenclature or Title: Ship Motion Simulator Facility.

1. This facility is used to replicate ship behavior in sea states up to 5. This provides the capability to assess human performance and activities in various controlled conditions and to assess the effects of ship design modifications on human performance. The simulator provides the capability to move an air conditioned, man-rated testing cab in three degrees of freedom: Heave (22 ft total stroke), pitch and roll (30 degrees each). It has a total load capacity of 5000 pounds.
2. Most of the equipment such as the support tower, cabs, controls, hydraulic pumps and ancillary equipment are moveable. The foundation, piping trenches, hydraulic pump shelter, and welded piping are not.
3. Replacement value is 3M
4. Gross weight is 120,000#. Gross volume is 5000 cubic feet.
5. Special utility support required is a high volume chilled water source to cool the heat exchangers of two 1000 gallons/minute hydraulic pumps.
6. The support tower requires an indoor solid supporting structure 50 feet high, to which it can be attached.
7. The facility requires an environmentally controlled shelter to protect electrical/electronic systems, rails and simulator from moisture and heat.
8. With the exception of pumphouse, piping trenches, tower foundation and possibly the heave cylinder casing, all equipment could be relocated. These could be replicated via a MILCON. The simulator is a one-of-a-kind device for which original drawings do not exist, and it would be very difficult to replicate. The control console is also one-of-a-kind but is well documented and could conceivably be replicated. Other ancillary equipment are

commercial products and could be replicated. Effect of loss of facility--This is the only such simulator in the USA and without it the U.S. Navy would lose all of its capability to perform this type research.

9. The simulator, hydraulic systems, tower foundation and control room were constructed via MILCON in 1980/81. Installed equipment was shipped to the site by the applicable vendors and installed by in-house staff.

10. Functional Support Areas: 1.1 (Undersea), 1.2 (Aircraft), 1.3 (Surface Ships), 1.5 (Ground Vehicles)

11. Usage: Unit of measure is number of experiments conducted.

FY89 - 167

FY90 - 32

FY91 - 12

FY92 - 98

FY93 - 155

12. Projected Usage: FY94 - 50

FY95 - 120

FY96 - 150

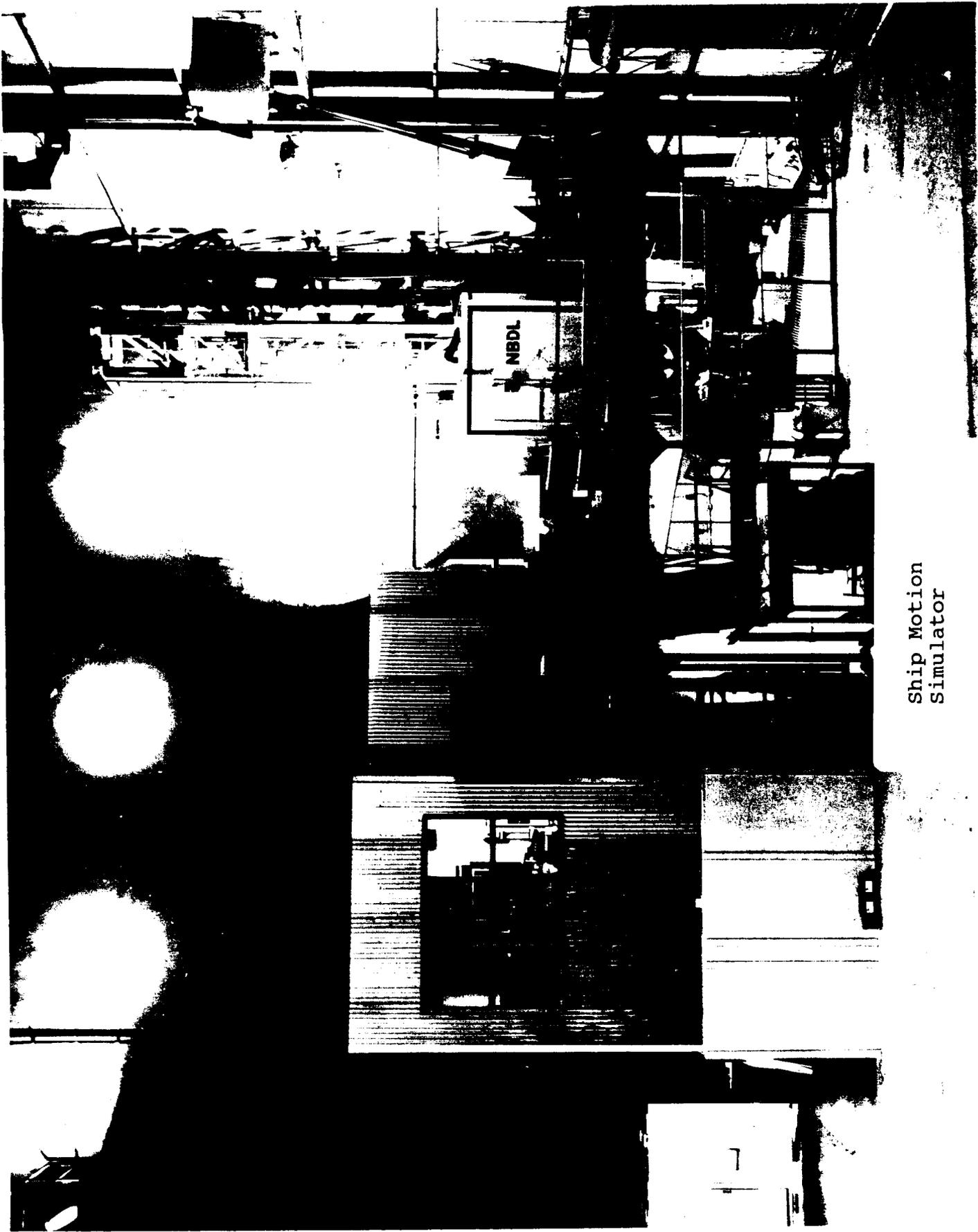
13. Minimum number to operate: 3

For typical human experiment: 6

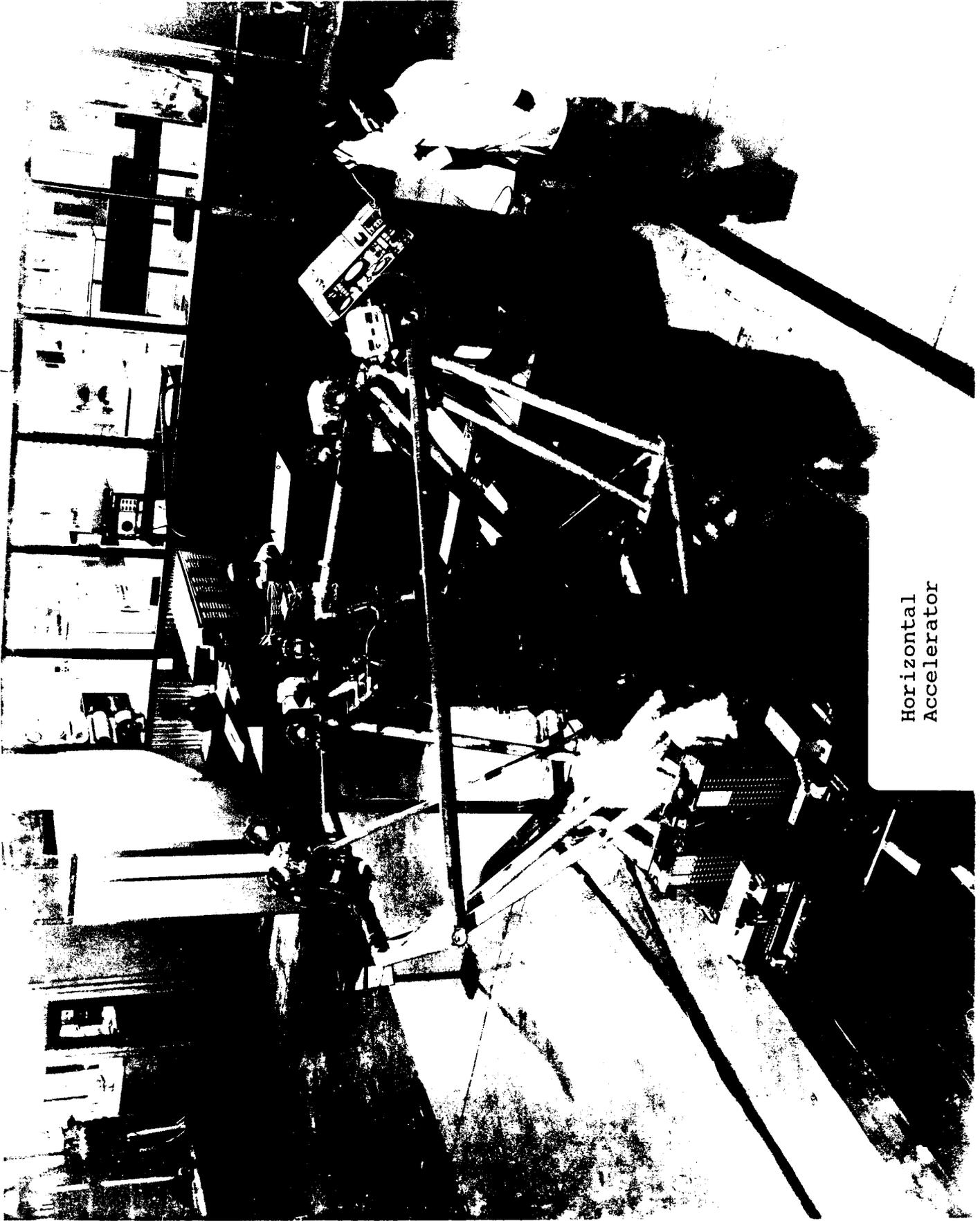
14. Number required to maintain equipment: 4

15. Picture enclosed.

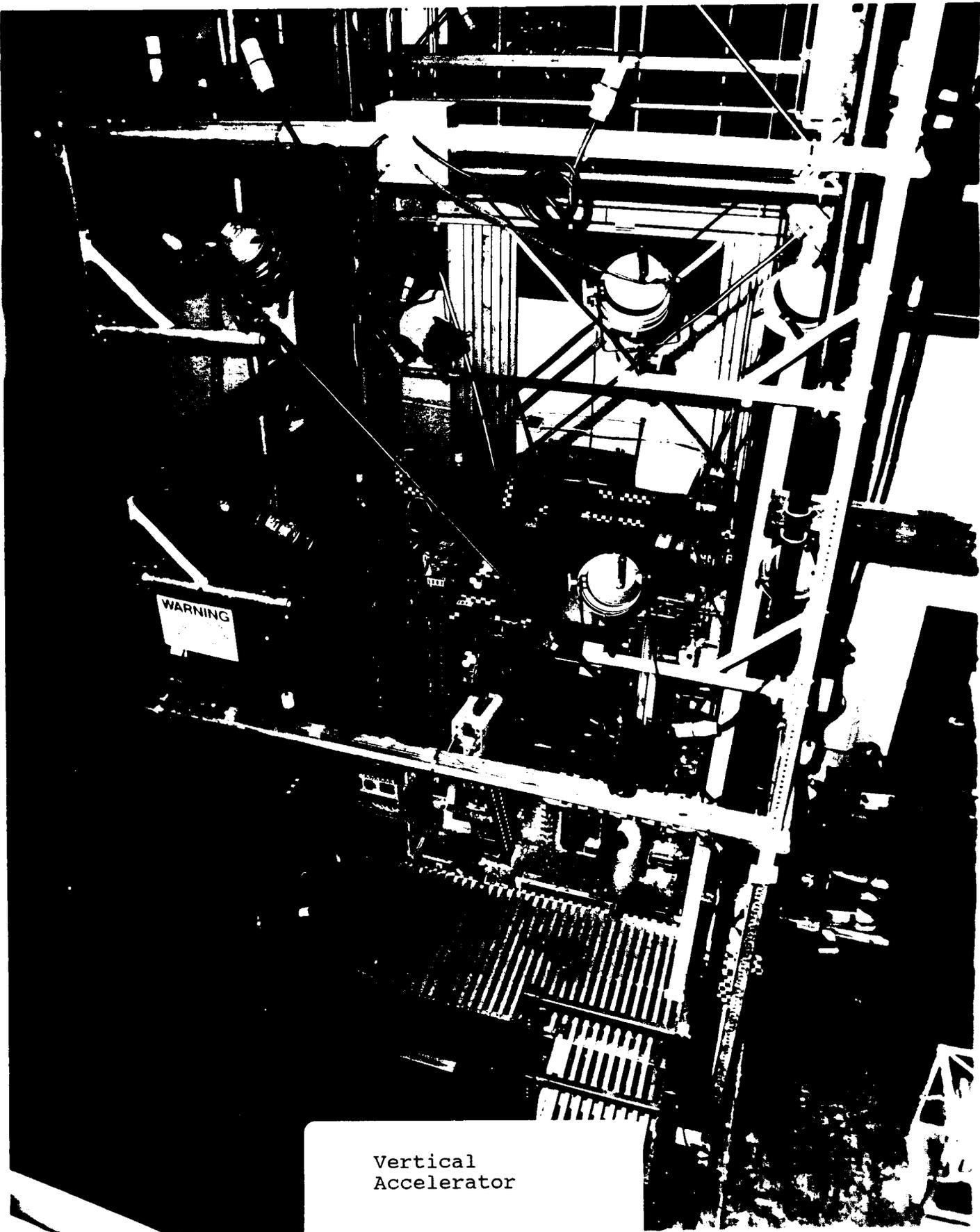
TAB B  
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Ship Motion  
Simulator



Horizontal  
Accelerator



Vertical  
Accelerator

Page 8 of 8  
UIC: 66863

**TAB C**  
**RANGE RESOURCES**  
**RANGE CAPABILITY FORM**

**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).

1. What were the actual hours this range was utilized per year for the last five years (FYs 1989-1993)?

**TAB C**  
**Page** 2 **of** 3  
**UIC:** 66863

- 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.

TAB C  
Page 3 of 3  
UIC: 6681a3

Data Call #5

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.

F. D. Holcombe  
Lieutenant Commander  
Medical Service Corps  
United States Navy  
\_\_\_\_\_  
NAME (Please type or print)

ACTIVITY COMMANDER

  
\_\_\_\_\_  
Signature

Acting  
\_\_\_\_\_  
Title

9 May 94  
\_\_\_\_\_  
Date

Naval Biodynamics 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)

COMMANDING OFFICER

Title  
Naval Medical Research and  
Development Command

Activity

*E. T. Flynn*  
Signature

12 May 94  
Date

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

NEXT ECHELON LEVEL (if applicable)

\_\_\_\_\_  
NAME (Please type or print)

\_\_\_\_\_  
Title

\_\_\_\_\_  
Activity

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

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

MAJOR CLAIMANT LEVEL

RADM R. I. RIDENOUR

NAME (Please type or print)

ACTING CHIEF BUMED

Title

BUREAU OF MEDICINE AND SURGERY

Activity

*R. I. Ridenour*  
Signature

5-16-94  
Date

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

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

J. B. Greene, Jr.

NAME (Please type or print)

Acting  
Title

*J. B. Greene, Jr.*  
Signature

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

R. W. RENDIN, CDR, MSC, USN  
NAME (Please type or print)

*R. W. Rendin*  
Signature

COMMANDING OFFICER  
Title

19 JUL 94  
Date

NAVAL BIODYNAMICS LABORATORY  
Activity

ENCL (1)

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)  
COMMANDING OFFICER  
Title  
NAVAL MEDICAL RESEARCH AND DEVELOPMENT COMMAND  
Activity

*T. N. Jones*  
Signature  
21 July 94  
Date

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

NEXT ECHELON LEVEL (if applicable)

\_\_\_\_\_  
NAME (Please type or print)  
\_\_\_\_\_  
Title  
\_\_\_\_\_  
Activity

\_\_\_\_\_  
Signature  
\_\_\_\_\_  
Date

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

MAJOR CLAIMANT LEVEL

D. F. HAGEN, VADM, MC, USN  
NAME (Please type or print)  
CHIEF BUMED/SURGEON GENERAL  
Title  
BUREAU OF MEDICINE & SURGERY  
Activity

*D. F. Hagen*  
Signature  
7-24-94  
Date

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

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

W. A. EARNER  
NAME (Please type or print)  
\_\_\_\_\_  
Title

*W. A. Earner*  
Signature  
8/4/94  
Date

Rev.  
Pg 39

Data Call #5  
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

L. W. SCHOENBERG, CDR, MSC, USN  
NAME (Please type or print)

*L. W. Schoenberg*  
Signature

COMMANDING OFFICER  
Title ACTING

15 SEP 94  
Date

NAVAL BIODYNAMICS LABORATORY  
Activity

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

NEXT ECHELON LEVEL (if applicable)

T. N. JONES, CAPT, MSC, USN

NAME (Please type or print)

Signature

*T. N. Jones*

COMMANDING OFFICER

Date

*22 Sept 94*

Title

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

*D. F. Hagen*

CHIEF BUMED/SURGEON GENERAL

Date

*9-22-94*

Title

BUREAU OF MEDICINE AND SURGERY

Activity

Data Call 5 Revision Naval Biodynamics 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)

W. A. Earner  
\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

10/5/94  
\_\_\_\_\_  
Date

Data Call #12 VR BUMED824  
9/19/94

**"LAB" JOINT CROSS-SERVICE GROUP GUIDANCE PACKAGE**

NAVAL BIODYNAMICS LAB

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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

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**"LAB" JOINT CROSS-SERVICE GROUP GUIDANCE PACKAGE**

Section I: Taskings

- 1.1 Guidelines
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- 1.5 Activities
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**"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

Revised total  
DC

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

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**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.

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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

PAGE 3

31 March 1994

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

PAGE 4

31 March 1994

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### **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 commonality 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).

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**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)	N/A	N/A	3	3	3	4	3	4	4	1.5	1.3	.68
Total Actual Funds (\$M)	N/A	N/A	3	3	4	4	3	4				
Programmed Workyears	N/A	N/A	70	72	86	83	75	66	54	54	54	54
Actual Workyears	N/A	N/A	70	72	79	76	70	65				

- 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

PAGE 6 R

~~31 March 1994~~ 17 AUG 94

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**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)	N/A	N/A	3	3	3	4	3	4	4	1.5		
Total Actual Funds (\$M)	N/A	N/A	3	3	4	4	3	4				
Programmed Workyears	N/A	N/A	70	72	86	83	75	66	54	54		
Actual Workyears	N/A	N/A	70	72	79	76	70	65				

- 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

Upon review of question 3.0 and the common support function definitions, the following information is provided:

The Naval Biodynamics Laboratory conducts biomedical research on the effects of mechanical forces encountered by crew members in Navy/Marine Corps aircraft and ships, establishing human tolerance limits to these forces, and developing approaches to minimize their adverse effects.

Although the primary common support function in which we are actively engaged is Human Systems, there is some interconnectivity with Air Vehicles, fixed, flight subsystems; Air Vehicles, rotary, flight subsystems; and Ships work in support of our overall mission.

The information provided as a result of our research has resulted in recommendations to redesign or modify some flight or ship subsystems. Impact studies for rotary air vehicles have resulted in modifications to the cockpit environment to improve crash survivability. In addition, egress systems could be modified as a result of physiological data provided from our research programs in order to reduce the risk of aircrew injury during ejection. Results of human factors research have resulted in modifications to the design and configuration of ship equipment displays and controls. Recommendations for improved hull design could also result from our research on the effects of ship motion on human physical and mental performance. Data from our ship shock research has been used by the Naval Sea Systems Command to determine the risk to shipboard personnel resulting from underwater explosions. Our data collection equipment has also provided the capability to determine the efficacy of platform modifications to reduce the risk of injury to personnel exposed to underwater explosions.

P 6a added 8-17-94

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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:

**The common support function in which we are actively engaged is Human Systems. Major capabilities are as follows:**

- **Horizontal Accelerator:** Used in studying human response to impact acceleration. Nitrogen powered piston propels sled carrying human test subject down a 700 ft track. This capability is used to obtain data for analyzing human response to simulated crashes.
- **Vertical Accelerator.** Also nitrogen powered, this 36 ft accelerator tower simulates forces encountered during aircrew ejections. Like horizontal accelerator, a precise and sophisticated data acquisition system is used to collect and analyze inertial and physiological measurements.
- **Ship Motion Simulator.** The Navy's only ship motion simulator is housed at NBDL and is used in Human Factors research. This device is capable of simulating ship motion in conditions up to Sea State 5 with three degrees of freedom: heave, pitch and roll.
- **Tri-Axial Tilt Rotation Chair.** This chair, with a visual effects device, is used, as is the Ship Motion Simulator, to study the effects of motion on human physical and mental performance.
- **Electrohydraulic Shaker.** This low frequency oscillating chair is used for conducting research on human response to repetitive motion. An example would be the vibration crewmembers experience in rotary wing aircraft.

**There is no interconnectivity or relationship between Human Systems common support function and any other functions. Human Systems is the only common support function in which we are actively engaged.**

### **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

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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)

**- Flat terrain is required for construction of the 700 ft track that supports horizontal impact acceleration research.**

**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)

**None**

**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**

**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)

**- Nitrogen gas supply used to pressurize test cylinders for impact acceleration research. Nitrogen is supplied by NASA Michoud Facility.**

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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)

Common Support Functions	Name	Type of Organization	Distance	Workyears Performed by Your Activity	Workyears Funded by Your Activity
HUMAN	BATELL	COMMERCIAL	1100 MI		0.7
HUMAN	UNO	UNIVERSITY	5		4.75
HUMAN	TULANE	UNIVERSITY	20		0.4
HUMANS	LSU	MEDICAL	10		0.25

**Proximal University research support is very useful but not critically necessary.**

**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	MMilitar		
Technical	21	2		
Management (Supv)	3	4		
Other	11	22		

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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	7	2	20
Associates	3	0	3
Bachelor	5	0	2
Masters	4	4	1
Doctorate (include Med/Vet/etc.)	5	1	6

**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	1	8	7	4	4
Management (Supv)	0	1	1	3	2
<b>Total</b>	<b>1</b>	<b>9</b>	<b>8</b>	<b>7</b>	<b>6</b>

**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)

NONE

CSF	Disclosures	Awarded	Patent Titles (List)
	NONE	NONE	NONE
<b>Total</b>			

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

CSF	Number Published	Paper Titles (List)
HUMAN SYSTEMS	8	"SEE BELOW"
<b>TOTAL</b>		

"Generalization of Tolerance to Motion Environments"

"The Transfer of Adaptation Between Actual and Simulated Rotary Stimulation"

"Aptitude Measurement in U.S. Subcultures."

"A Detailed Evaluation of the ATA Angular Motion Sensor in Realistic Simulated Crash Environments."

"The Klippel-Feil Syndrome: Implications for Naval Service."

"The Relationship Between Head and Neck Anthropometry and Kinematic Response During Impact Acceleration."

"A Simple Step Procedure Finds the Time Response of Filtered Data."

"Cognitive-Behavioral Management of Motion Sickness."

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Question 3.2.4.2, Data Call #12

Question 3.2.4.2 Papers published in peer reviewed journals for FY 91 through FY 93.

The following revised information is submitted in response to Question 3.2.4.2:

CSF - Human Systems

Number papers published - 5

"The Transfer of Adaptation Between Actual and Simulated Rotary Stimulation." Aviation, Space, and Environmental Medicine, Vol. 61, December 1990.

"Aptitude Measurement in U.S. Subcultures." International Journal of Intercultural Relations, Vol. 15, (no month) 1991.

"A Detailed Evaluation of the ATA Angular Motion Sensor in Realistic Simulated Crash Environments." Proceedings of the 35th STAPP Car Crash Conference, Society of Automotive Engineers, November 1991.

"The Klippel-Feil Syndrome: Implications for Naval Service." Military Medicine, Vol. 157, June 1992.

"The Relationship Between Head and Neck Anthropometry and Kinematic Response During Impact Acceleration." Aviation, Space and Environmental Medicine, Vol. 63, January 1992.

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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)

"LAB"	Fiscal Year 1993 Actual			
	Civilian	Military	FFRDC	SETA
Science & Technology	16	2.5		
Engineering Development	0	0		
In-Service Engineering	0	0		

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**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).

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

**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)

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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
HUMAN SYSTEM	3,767	1,142	350	350

**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 SYSTEM	N/A	N/A	N/A	N/A

**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)

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Common Support Function	Major Facility or Equipment Description	Unique To			Replacement Cost (\$M)
		DOD	Federal Gov't	U. S.	
HUMAN SYSTEMS	HORIZONTAL ACCELERATOR FACILITY	YES	YES	YES	7.5M
HUMAN SYSTEMS	VERTICAL ACCELERATOR FACILITY	YES	YES	YES	1.0M
HUMAN SYSTEMS	SHIP MOTION SIMULATOR FACILITY	YES	YES	YES	3.0M

None of the facilities listed are shared with other functions.

**Horizontal Accelerator Facility.** The horizontal impact facility was activated at NAVBIODYNLAB in 1972 and man-rated in 1974. This facility consists of a 12" diameter pneumatic-hydraulic actuator, three sleds, a 700 ft indoor, environmentally controlled track, control and safety interlock subsystems and instrumentation and data acquisition subsystems. The accelerator can propel test specimens at up to 200 G's and over 200,000 G's/second. This facility is used to impart a controlled acceleration pulse to living human subjects, anthropomorphic manikins and other test specimens to study the effects of impact acceleration.

This facility has several unique features:

a. **Single Impulse.** Devices used in impact testing generally have discrete impacts at both the beginning and end of each experiment, the latter due to braking. Because of its 700-ft track, NAVBIODYNLAB's accelerator is capable of boost-coast operation, i.e. a single acceleration pulse followed by minimal deceleration (0.2 G's) via friction. The implications of this capability are:

(1) "Cleaner" data - With two impact events, there arises a question as to which impact caused a given result. This question is obviated when only a single impact is used.

(2) Safer experiments - With two impact events, there is an increased likelihood that the subject will be out of position and vulnerable to injury. In contrast, a safe initial position to avoid misalignment injuries can be virtually

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assured on this accelerator. Also the possibility of human subject injury due to braking system failure is nonexistent. Short tracks require substantial braking capability.

b. Continuous Physiological Monitoring. The track is instrumented along its entire length with a telemetry link. This feature allows continuous physiological monitoring of test subjects before, during and after impact regardless of location of subject along track at sled stoppage. The implications of this capability are:

- (1) More comprehensive physiological data acquisition capability.
- (2) Safer monitoring of subjects.

c. History of Extensive Safe Human Research. Over 3300 human experiments have been conducted on the horizontal accelerator over the past 20 years. Implication:

(1) The more experience the personnel have in sound experimental procedures, the less likely the chances of producing an avoidable injury. To date there has not been a significant injury to a volunteer attributable to his participation in impact research at this facility. The staff has several hundred man-years of experience in conducting this type of research.

d. Fully Redundant Inertial Data Acquisition Capability. Three-dimensional motion data is acquired via two independent means, via multiple sled-mounted, carefully surveyed high speed movie cameras; and via inertial transducer packages. Dynamic parameters of interest are independently derived from each data set and compared. Implication:

(1) The purpose of instrumenting test subjects is to measure how fast, how far and in which direction specific body segments of interest move. These data have crucial significance in a number of applications such as in determining injury thresholds and mechanisms, determining clearance envelope requirements in vehicle occupant spaces (cockpits, etc.) and in providing design and validation parameters for biofidelity manikins. These data must thus be of very high reliability. The comparison by redundancy technique provides the required degree of confidence.

The features described herein are unique not only within DOD but are not duplicated anywhere. No other location has developed a single facility and its associated intellectual resources to duplicate or even approximate the capabilities just

described.

**Vertical Impact Facility.** The vertical impact facility was activated at NAVBIODYNLAB in 1986 and man-rated in 1989. This facility consists of a 6" diameter pneumatic-hydraulic actuator, a specimen carriage with 500 lb load-carrying capacity, a 42 ft tower that supports the rails and a control and safety interlock subsystem. The accelerator can propel test items at up to 80 G's and over 250,000 G's/second. Unique features of this facility:

a. **Co-location with the Horizontal Accelerator in the Same Environmentally Controlled Space.** This feature has allowed the sharing of the data acquisition systems originally developed for the horizontal impact facility. The implication of this capability is:

(1) Great economy, because the duplication of very expensive equipment is avoided. Because availability of the data acquisition systems is not the limiting productivity factor, scheduling conflicts are not an issue.

b. The features described in paragraphs b, c and d of the horizontal accelerator facility apply in their entirety to this system.

The unique features described, render this facility unique not only in DOD but in the USA.

**Ship Motion Simulator (SMS).** The SMS was originally constructed and man-rated at a contractor's facility in 1969. It was upgraded at that location in 1974 and again man-rated in 1975. It was moved to NAVBIODYNLAB in 1977 extensively upgraded once more and man-rated for a third time in 1984. The simulator is located indoors, in an environmentally controlled space and has the capability of moving a 4000 payload. The specific capabilities of the SMS are:

Degrees of freedom: # (heave i.e. vertical motion, pitch and roll.

Heave stroke length: 22 feet total.

Heave frequency response: 0.04 to 4.0 Hertz

Angular displacement: 30 degrees total, pitch and roll

Angular velocity: 25 degrees/second, pitch and roll

This facility is used to replicate ship behavior in sea states up to 5. This provides the capability to assess human performance and activities in various controlled conditions and to assess the effects of ship design modifications on human performance. It can also be used to study means of alleviating or eliminating motion sickness.

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Unique features of the SMS:

a. **Modular Design of Payload.** This feature allows the subject-carrying enclosure to be configured in almost any desired manner, subject only to the payload limitation and the 8 by 8 ft. footprint (surface area of base) capacity of the carriage. Present enclosure (cab) configuration provides seating for up to three subjects, and each station is equipped with a microcomputer-based control console interface capable of administering a wide variety of human performance tasks. Data acquisition and evaluation is via a local area network (LAN) that links the subjects' workstations and an experimenter's workstation together.

b. **Validated Fidelity of Motion.** The SMS has been shown to accurately duplicate the motion of a number of ships such as destroyers, FFG7-class frigates and minesweepers. Data collected during at-sea experiments was used to drive the simulator and its response compared to that of actual ships. Fidelity of motion was shown to be excellent. The SMS has also demonstrated its capability to simulate the motion of unconventional platforms such as Surface Effect ships.

c. **Flexibility.** The overall design of the facility is very flexible and drive signals acquired in almost any format can be accommodated. Additionally dedicated generators capable of sinusoidal or arbitrary signal generation are available for all three axes. A dedicated data acquisition and analysis capability is also available.

This facility is one-of-a-kind, no similar facility exists in the U.S. and probably the world. This, and the features listed above render it unique not only in DOD but in the U.S.

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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 (SF)		
			Current	Used	Excess
HUMAN SYSTEMS	HORIZONTAL ACCELERATOR FACILITY	Technical	15000	15000	0
HUMAN SYSTEMS	VERTICAL ACCELERATOR FACILITY	Technical	15000	15000	0
HUMAN SYSTEMS	SHIP MOTION SIMULATOR	Technical	20000	20000	0

\* 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)

**Although no excess space has been reported, the nature of the support spaces (large subdivided rooms) is such that additional workyears could be accomodated with no significant modifications.**

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

**The facility has in the past accomodated 35 military, 43 civilian and 8 contractor billets. Strength now is 27 military, 35 civilians and 2 contractors, so capacity exists to absorb 22 additional workyears.**

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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**There are no military construction programs or other alteration projects programmed in the FY 95 PBS.**

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

**As tenants at a NASA facility any additional land use would have to be negotiated with our host. The Michoud Assembly Facility encompasses 870 acres, approximately one third of which is open land. In the past, NASA has always accommodated our land needs with no problem.**

**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)

**Absorption of the additional workyears listed would not require additional utilities.**

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**SECTION IV: APPENDICES**

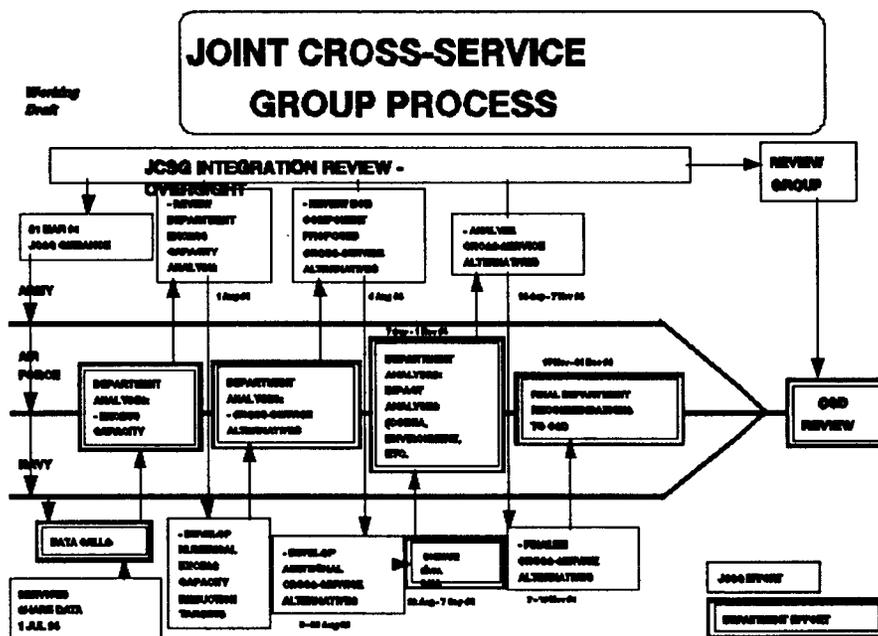
- A. Macro Process/Schedule
- B. List of Activities
- C. Common Support Functions

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APPENDIX A



**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

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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

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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

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**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

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**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

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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 focus 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.

DATA CALL #12

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."

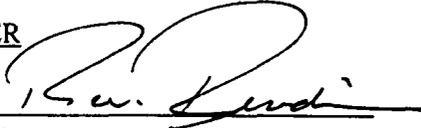
The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

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. W. RENDIN, CDR, MSC, USN  
NAME (Please type or print)

  
Signature

COMMANDING OFFICER  
Title

19 JUL 94  
Date

NAVAL BIODYNAMICS LABORATORY  
Activity

ENCL ①

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)  
COMMANDING OFFICER  
Title  
NAVAL MEDICAL RESEARCH AND DEVELOPMENT COMMAND  
Activity

T. N. Jones  
Signature  
21 July 94  
Date

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

NEXT ECHELON LEVEL (if applicable)

\_\_\_\_\_  
NAME (Please type or print)  
\_\_\_\_\_  
Title  
\_\_\_\_\_  
Activity

\_\_\_\_\_  
Signature  
\_\_\_\_\_  
Date

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

MAJOR CLAIMANT LEVEL

D. F. HAGEN, VADM, MC, USN  
NAME (Please type or print)  
CHIEF BUMED/SURGEON GENERAL  
Title  
BUREAU OF MEDICINE AND SURGERY  
Activity

X D. F. Hagen  
Signature  
7-24-94  
Date

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

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

W. A. EARNER  
NAME (Please type or print)  
\_\_\_\_\_  
Title

W. Earner  
Signature  
7/30/94  
Date

Revision of 8-17-94

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."

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. W. RENDIN, CDR, MSC, USN  
NAME (Please type or print)

  
Signature

COMMANDING OFFICER  
Title

17 AUGUST 1994  
Date

NAVAL BIODYNAMICS LABORATORY  
Activity

ENCL (1)



13 SEP 94 (REVISION)

Data Call #12  
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. W. RENDIN, CDR, MSC, USN  
NAME (Please type or print)

  
Signature

COMMANDING OFFICER  
Title

13 SEPTEMBER 1994  
Date

NAVAL BIODYNAMICS LABORATORY  
Activity

5422 1

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

NEXT ECHELON LEVEL (if applicable)

CAPT T. J. SINGER, MSC, USN

NAME (Please type or print)

ACTING, COMMANDING OFFICER

Title NAVAL MEDICAL RESEARCH  
AND DEVELOPMENT COMMAND

Activity

T. J. Singer  
Signature

14 Sep 1994  
Date

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

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Signature

Title

Date

Activity

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

MAJOR CLAIMANT LEVEL

D. F. HAGEN, VADM, MC, USN  
NAME (Please type or print)

Title CHIEF BUMED, SURGEON GENERAL

Activity BUREAU OF MEDICINE AND SURGERY

D. F. Hagen  
Signature

9-19-94  
Date

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

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

W. A. EARNER  
NAME (Please type or print)

Title

W. A. Earner  
Signature

9/20/94  
Date

**CAPACITY ANALYSIS:  
DATA CALL #4 WORK SHEET FOR  
TECHNICAL CENTER or LABORATORY: Naval Biodynamics  
Laboratory, New Orleans, LA**

**Table of Contents**

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**TAB A: Ship Berthing Capacity**

**TAB B: Operational Airfield Capacity**

**TAB C: Depot Level Maintenance Capacity**

**TAB D: Ordnance Storage Capacity**

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

7 April 1994

**ENCLOSURE( / )**

**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).

Page 1 of 30  
UIC 66063

**Table 1.1 Historical and Projected Workload for NAVBIODYNLAB**  
**(UIC 66863)**

<b>Fiscal Year</b>	<b>Total Funds Budgeted (\$K)</b>	<b>Total Funds Received w/o Direct Cite (\$K)</b>	<b>Direct Cite Funds Received (\$K)</b>	<b>Budgeted Wkys</b>	<b>Actual In-House Wkys</b>	<b>Actual Onsite Contract Wkys</b>
<b>86</b>	N/A					
<b>87</b>	N/A					
<b>88</b>	2,787	175	2,612	70	70	2
<b>89</b>	3,097	32	3,065	72	72	2
<b>90</b>	3,550	324	3,226	86	79	2
<b>91</b>	3,686	77	3,609	83	76	2
<b>92</b>	3,374	216	3,158	75	70	1
<b>93</b>	4,062	275	3,787	66	65	2
<b>94</b>	4,452	109	4,343	66	65	2
<b>95</b>	1,492	0	1,492	66		
<b>96</b>	350			46		
<b>97</b>	350			46		

**Table 1.2 Historical and Projected Workload for Detachments of NAVBIODYNLAB  
(UIC 66863)**

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

THIS TABLE NOT APPLICABLE, NBDL DOES NOT HAVE DETACHMENTS

**TABLE 1.3 FY 1993 BREAKOUT OF FUNDS BUDGETED for NAVBIODYNLAB  
(UIC 66863) \$(K)**

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
N88				3,098										
NMRDC			342			347								
NAMRL													87	
NAVSEA													140	
NAVSWC													50	
SNELL CRADA														2

**TABLE 1.3 FY 1994 BREAKOUT OF FUNDS BUDGETED for NAVBIODYNLAB  
(UIC 66863) \$(K)**

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
N88				3,767											
NMRDC		425			151										
USCG															20
NAVSEA														25	
NAVSWC														64	

**TABLE 1.3 FY 1995 BREAKOUT OF FUNDS BUDGETED for NAVBIODYNLAB  
(UIC 66863) \$(K)**

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
N88				1,142											
NMRDC			350												

**TABLE 1.3 FY 1996 BREAKOUT OF FUNDS BUDGETED for NAVBIODYNLAB  
(UIC 66863) \$(K)**

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
N88				0										
NMRDC			350											

**TABLE 1.3 FY 1997 BREAKOUT OF FUNDS BUDGETED for NAVBIODYNLAB  
(UIC 66863) \$(K)**

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
N88				0											
NMRDC			350												





**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.

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UIC 66863

**Table 2.1 Main Site Class 2 Assets of NAVBIODYNLAB (UIC 66863)**

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	1.000			1.000
Underwater Equip. labs	320				
Technical Services labs	321				
Supply Facilities	400				
Hospital & other Medical	500				
Administrative Facilities	600	5.758			4.758
Housing & Community	700				
Utilities & Grounds	800	0.5			0.5
Other					
<b>Totals</b>		6.258	0	0	6.258

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 UIC 66863

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?

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UIC 16108103



Table 2.3 Class 2 Space Utilized/Leased by NAVBIODYNLAB (UIC 66863)

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	20			20
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	31			31
Underwater Equip. labs	320				
Technical Services labs	321				
Supply Facilities	400				
Hospital & other Medical	500				
Administrative Facilities	600	3.2			3.2
Housing & Community	700				
Utilities & Grounds	800				
Other					
<b>Totals</b>		54.2	0	0	54.2

For your Detachment sites not receiving this Data Call directly:

- e. Use Table 2.4 below to indicate the combined total amount of Class 2 space that is occupied by your Detachments for which you are the plant account holder as of 31 March 1994. Attach a list with the titles and UIC's of these Detachments.
- f. Use Table 2.5 below to indicate the total amount of your Class 2 space reported in Table 2.4 that is assigned to tenant commands and/or independent activities as of 31 March 1994. Include numbered notes to indicate the Detachment site that hosts the tenant.
- g. Use Table 2.6 below to indicate the combined total amount of Class 2 space utilized/leased by your Detachments for which you are not the plant account holder. Provide numbered notes to indicate the quantity of leased space and their associated rental cost.

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UIC 66B63

THIS TABLE NOT APPLICABLE. NBDL DOES NOT HAVE DETACHMENTS

Table 2.4 Class 2 Assets of NAVBIODYNLAB 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					

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UIC 66863

<b>Totals</b>				
---------------	--	--	--	--

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?

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 UIC 66863



**Table 2.6 Class 2 Space Utilized/Leased by Detachments of NAVBIODYNLAB (UIC 66863)**

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

NOT APPLICABLE. NBDL DOES NOT HAVE DETACHMENTS

**3. Class 2 Space Available for Expansion.** An activity's expansion capability is a function of its 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. N/A  
\_\_\_\_\_ 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. N/A  
\_\_\_\_\_ 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.

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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?

N/A

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

N/A

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 913 LICENSE-PERMIT	1.5			
Total:	1.5			

d. Of the total Unrestricted Acres reported above, how much of it has existing roads and/or utilities that could support expansion efforts? 0 Acres. Explain.

This land belongs to NASA

They must approve any expansion

**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)	THIS TABLE NOT APPLICABLE			
Natural Gas (CFH)				
Sewage (GPD)				
Potable Water (GPD)				
Steam (PSI & lbm/Hr)				
Long Term Parking				
Short Term Parking				

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

Maintenance of Real Property (MRP) Dollars: MRP is a budgetary term used to gather the expenses or budget requirements for facility work including recurring maintenance, major repairs & minor construction (non-MILCON) inclusive of all Major Claimant funded Special Projects. It is the amount of funds spent on or budgeted for maintenance and repair of real property assets to maintain the facility in satisfactory operating condition. For purposes of this Data Call MRP includes all M1/R1 and M2/R2 expenditures.

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

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

Page 26 of 30  
UIC 66863

**Table 5.2 Maintenance, Repair & Equipment Expenditure Data  
for NAVBIODYNLAB (UIC: 66863)  
THIS TABLE NOT APPLICABLE**

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

c. Training Facilities: THIS TABLE NOT APPLICABLE

(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.

THIS TABLE NOT APPLICABLE

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

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

---

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

**6. Ship Berthing Capacity.** If your activity has the capacity to berth ships fill out the data sheets provided at TAB A.  
NOT APPLICABLE

**7. Operational Airfield Capacity.** If your activity owns and operates an operational airfield fill out the data sheets provided at TAB B.  
NOT APPLICABLE

**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.

NOT APPLICABLE

**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.  
NOT APPLICABLE

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

NEXT ECHELON LEVEL (if applicable)

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

*E. T. Flynn*  
Signature  
6 May 94  
Date

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

NEXT ECHELON LEVEL (if applicable)

\_\_\_\_\_  
NAME (Please type or print)  
\_\_\_\_\_  
Title  
\_\_\_\_\_  
Activity

\_\_\_\_\_  
Signature  
\_\_\_\_\_  
Date

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

MAJOR CLAIMANT LEVEL

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

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

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

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

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

*J. B. Greene, Jr.*  
Signature  
27 May 1994  
Date

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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

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

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

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

ACTIVITY COMMANDER

R. W. RENDIN, CDR, MSC, USN  
NAME (Please type or print)

  
Signature

COMMANDING OFFICER  
Title

5 MAY 94  
Date

NAVAL BIODYNAMICS LABORATORY  
Activity

66863

**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	<i>Naval Biodynamics Laboratory, New Orleans, LA</i>
Acronym(s) used in correspondence	<i>NBDL, NAVBIODYNLAB</i>
Commonly accepted short title(s)	<i>NBDL</i>

- Complete Mailing Address

Naval Biodynamics Laboratory  
 Building 420  
 13800 Old Gentilly Road  
 New Orleans, LA 70189-0407

- PLAD

NAVBIODYNLAB NEW ORLEANS LA

- PRIMARY UIC: 66863 (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 \_\_\_\_\_ No X (check one)

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

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

• Yes  No  (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  No  (check one)

• Primary Host (current) UIC: N/A

• Primary Host (as of 01 Oct 1995) UIC: N/A

• Primary Host (as of 01 Oct 2001) UIC: N/A

• **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  (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		

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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				

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.

N/A

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

- Conduct biomedical research to establish human tolerance limits to mechanical forces encountered by Sailors and Marines in aircraft and ships.
- Determine human dynamic, injury, and performance response to indirect impact acceleration.
- Develop data to validate the development of biofidelic manikin components.
- Develop methods for prevention of motion sickness and other adverse motion effects.
- To investigate, develop, and test methods to enhance performance of crew members in operational shipboard environments.
- To provide human factors test and evaluation services.

Projected Missions for FY 2001

- It is anticipated that during FY-96 this activity will either be collocated with USAF Armstrong Laboratory, or turned over to the University of New Orleans. If collocated, with all major test devices, projected missions would be same as above. If not collocated and converted to university ownership, missions cease.

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

- Determine human dynamic, injury, and performance response to indirect impact acceleration. This is the only Navy activity conducting indirect impact acceleration research using man-rated horizontal and vertical test devices.
- Develop methods for prevention of motion sickness and other adverse motion effects. This research is unique in that NBDL uses the Navy's only Ship Motion Simulator (3 degrees of freedom, Sea State 5).

Projected Unique Missions for FY 2001

- Same as above, assuming Laboratory remains Navy.

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
<u>NAVMEDRSCHDEVCOM</u>	<u>00075</u>
• Funding Source	UIC
_____	_____

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

On Board Count as of 01 January 1994

	Officers	Enlisted	Civilian (Appropriated)
• Reporting Command	<u>6</u>	<u>30</u>	<u>35</u>
• Tenants (total)	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

Authorized Positions as of 30 September 1994

	Officers	Enlisted	Civilian (Appropriated)
• Reporting Command	<u>6</u>	<u>13</u>	<u>37</u>
• Tenants (total)	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

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

	<u>Title/Name</u>	<u>Office</u>	<u>Fax</u>	<u>Home</u>
• CO	<u>CDR R. W. RENDIN</u>	(504) 257-3917	(504) 257-5456	(504) 646-0983
• Duty Officer				[ N/A ]
• XO	<u>CDR L. W. SCHOENBERG</u>	(504) 257-3922	(504) 257-5456	(504) 649-3191

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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
NAVAL BIODYNAMICS LABORATORY	66863	6	11	37

- Tenants residing on main complex (homeported units.)

Tenant Command Name	UIC	Officer	Enlisted	Civilian
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					

- Tenants (Other than those identified previously)

Tenant Command Name	UIC	Location	Officer	Enlisted	Civilian
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		

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.)

N/A

66863

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

CDR R. W. RENDIN, MSC, USN  
NAME (Please type or print)

  
Signature

Commanding Officer  
Title

23 JUNE 94  
Date

Naval Biodynamics 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)

*D. F. Hagen*  
\_\_\_\_\_  
Signature

CHIEF BUMED/SURGEON GENERAL

\_\_\_\_\_  
Title

*6/30/94*  
\_\_\_\_\_  
Date

BUREAU OF MEDICINE & SURGERY

\_\_\_\_\_  
Activity

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

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

*J. B. Green*  
\_\_\_\_\_  
NAME (Please type or print)

*J. B. Green*  
\_\_\_\_\_  
Signature

ACTING

\_\_\_\_\_  
Title

*06 JUN 1994*  
\_\_\_\_\_  
Date

# Document Separator

**"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

*See Revised  
Data call*

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

**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.

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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

PAGE 3

31 March 1994

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

**PAGE 4**

**31 March 1994**

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### **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 commonality 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
<b>Total Funds Programmed (\$M)</b>	N/A	N/A	3	3	3	4	3	4	4	1.5		
<b>Total Actual Funds (\$M)</b>	N/A	N/A	3	3	4	4	3	4				
<b>Programmed Workyears</b>	N/A	N/A	70	72	86	83	75	66	54	54		
<b>Actual Workyears</b>	N/A	N/A	70	72	79	76	70	65				

- 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

**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:

- **Horizontal Accelerator:** Used in studying human response to impact acceleration. Nitrogen powered piston propels sled carrying human test subject down a 700 ft track. This capability is used to obtain data for analyzing human response to simulated crashes.
- **Vertical Accelerator.** Also nitrogen powered, this 36 ft accelerator tower simulates forces encountered during aircrew ejections. Like horizontal accelerator, a precise and sophisticated data acquisition system is used to collect and analyze inertial and physiological measurements.
- **Ship Motion Simulator.** The Navy's only ship motion simulator is housed at NBDL and is used in Human Factors research. This device is capable of simulating ship motion in conditions up to Sea State 5 with three degrees of freedom: heave, pitch and roll.
- **Tri-Axial Tlt Rotation Chair.** This chair, with a visual effects device, is used, as is the Ship Motion Simulator, to study the effects of motion on human physical and mental performance.
- **Electrohydraulic Shaker.** This low frequency oscillating chair is used for conducting research on human response to repetitive motion. An example would be the vibration crewmembers experience in rotary wing aircraft.

### **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)

**- Flat terrain is required for construction of the 700 ft track that supports horizontal impact acceleration research.**

**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)

**None**

**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**

**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)

**- Nitrogen gas supply used to pressurize test cylinders for impact acceleration research. Nitrogen is supplied by NASA Michoud Facility.**

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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)

Common Support Functions	Name	Type of Organization	Distance	Workyears Performed by Your Activity	Workyears Funded by Your Activity
HUMAN	BATELL	COMMERCIAL	1100 MI		0.7
HUMAN	UNO	UNIVERSITY	5		4.75
HUMAN	TULANE	UNIVERSITY	20		0.4
HUMANS	LSU	MEDICAL		10	0.25

**Proximal University research support is very useful but not critically necessary.**

**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	21			
Management (Supv)	4	4		
Other	10	23		

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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	15	1	17
Associates			
Bachelor	5	2	
Masters	5	1	
Doctorate (include Med/Vet/etc.)	4	5	

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	1	10	7	5	6
Management (Supv)	0	2	0	4	2
Total	1	12	7	9	8

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

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

NONE

CSF	Disclosures	Awarded	Patent Titles (List)
<b>Total</b>			

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

CSF	Number Published	Paper Titles (List)
<b>HUMAN SYSTEMS</b>	8	"SEE BELOW"
<b>TOTAL</b>		

**"Generalization of Tolerance to Motion Environments"**

**"The Transfer of Adaptation Between Actual and Simulated Rotary Stimulation"**

**"Aptitude Measurement in U.S. Subcultures."**

**"A Detailed Evaluation of the ATA Angular Motion Sensor in Realistic Simulated Crash Environments."**

**"The Klippel-Feil Syndrome: Implications for Naval Service."**

**"The Relationship Between Head and Neck Anthropometry and Kinematic Response During Impact Acceleration."**

**"A Simple Step Procedure Finds the Time Response of Filtered Data."**

**"Cognitive-Behavioral Management of Motion Sickness."**

**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	16	2.5		
Engineering Development	0	0		
In-Service Engineering	0	0		

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): *N/A BUMED 822, mjs 31 May 94*
  - 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)

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)

*N/A BUMED-822, mjs 31 May 94*

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Common Support Functions	In-Service Engineering Efforts (List)	FY93 Actual		Weapon System(s) Supported
		Funds Received (Obligation Authority)	Workyears	
N/A BUMED-822, mass 31 May 94				

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 SYSTEM	3,767	1,142	N/A	N/A

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 SYSTEM	0	0	0	0

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)

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Common Support Function	Major Facility or Equipment Description	Unique To			Replacement Cost (\$K)
		DOD	Federal Gov't	U. S.	
HUMAN SYSTEMS	HORIZONTAL ACCELERATOR FACILITY	YES	YES	YES	7.5M
HUMAN SYSTEMS	VERTICAL ACCELERATOR FACILITY	YES	YES	YES	1M
HUMAN SYSTEMS	SHIP MOTION SIMULATOR FACILITY	YES	YES	YES	3M

**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	HORIZONTAL ACCELERATOR FACILITY	Technical	15000	0	TECHNICAL
HUMAN SYSTEMS	VERTICAL ACCELERATOR FACILITY	Technical	15000	0	TECHNICAL
SHIP MOTION SIMULATOR	20000	Technical	0	TECHNICAL	

\* 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)

**Although no excess space has been reported, the nature of the support spaces (large subdivided rooms) is such that additional workyears could be accommodated with no significant modifications.**

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

**The facility has in the past accommodated 35 military, 43 civilian and 8 contractor billets. Strength now is 27 military, 35 civilians and 2 contractors, so capacity exists to absorb 22 additional workyears.**

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)

**There are no military construction programs or other alteration projects programmed in the FY 95 PBS.**

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

**As tenants at a NASA facility any additional land use would have to be negotiated with our host. The Michoud Assembly Facility encompasses 870 acres, approximately one third of which is open land. In the past, NASA has always accommodated our land needs with no problem.**

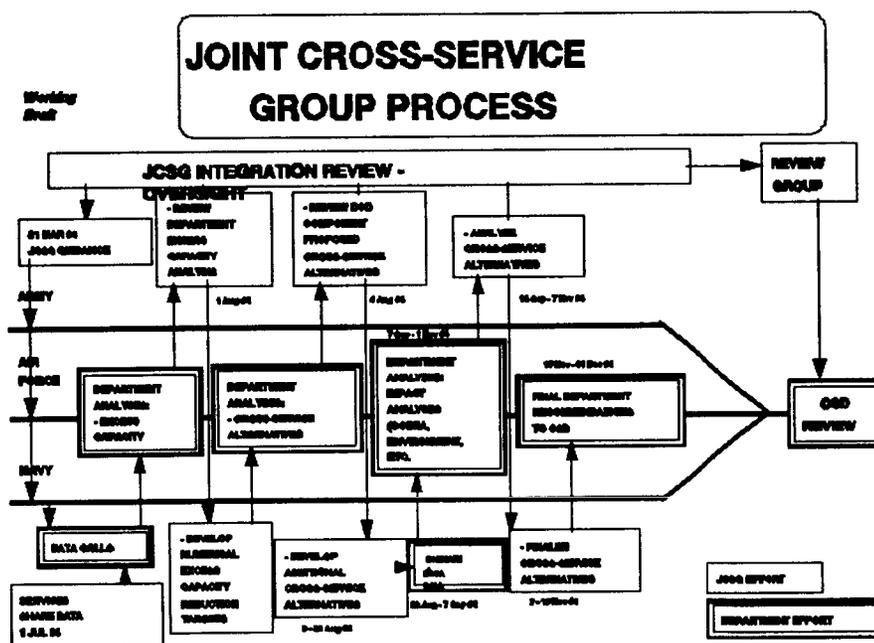
3.5.3 **Utilities:** Provide an estimate of your installation's capability to expand or procure additional utility services (electric, gas, water). Estimates should be provided in appropriate units -- e.g. KWH of electricity. (BRAC Criteria II)

**Absorption of the additional workyears listed would not require additional utilities.**

**SECTION IV: APPENDICES**

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

APPENDIX A



**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

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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

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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

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**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

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**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

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## 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 focus 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.

Data Call #12

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.

F. D. Holcombe  
Lieutenant Commander  
Medical Service Corps  
United States Navy

ACTIVITY COMMANDER



NAME (Please type or print)

Signature

Acting

9 MAR 97

Title

Date

Naval Biodynamics 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)  
COMMANDING OFFICER  
Title  
Naval Medical Research and  
Development Command  
Activity

*E. T. Flynn*  
Signature  
12 May 94  
Date

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

NEXT ECHELON LEVEL (if applicable)

\_\_\_\_\_  
NAME (Please type or print)  
\_\_\_\_\_  
Title  
\_\_\_\_\_  
Activity

\_\_\_\_\_  
Signature  
\_\_\_\_\_  
Date

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

MAJOR CLAIMANT LEVEL

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

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

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

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

J. B. GREENE, JR  
NAME (Please type or print)  
ACTING  
Title

*J. B. Greene Jr*  
Signature  
2 JUN 94  
Date

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**ENVIRONMENTAL DATA CALL:  
DATA CALL TO BE SUBMITTED TO  
ALL NAVY/MARINE CORPS HOST ACTIVITIES**

**20 APRIL 1994**

5/1/94 30

### Activity Description

The Naval Biodynamics Laboratory is a minor tenant activity of the National Aeronautics and Space Administration (NASA), Michoud Assembly Facility, New Orleans, Louisiana (a non-DOD activity). We are not a host activity and are not responsible for the environmental issues related to NASA. The Laboratory leases building space for personnel and facilities and owns no land.

EMC 11

**BRAC 1995 ENVIRONMENTAL DATA CALL:  
All Navy/Marine Corps Host Activities**

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## ENVIRONMENTAL DATA CALL

Responses to the following questions provide data that will allow an assessment of the potential environmental impact associated with the closure or realignment of a Navy shore activity. This criterion consists of:

- Endangered/Threatened Species and Biological Habitat
- Wetlands
- Cultural Resources
- Environmental Facilities
- Air Pollution
- Environmental Compliance
- Installation Restoration
- Land/Air/Water Use

As part of the answers to these questions, a *source citation* (e.g., 1993 base loading, 1993 base-wide Endangered Species Survey, 1993 letter from USFWS, 1993 Base Master Plan, 1993 Permit Application, 1993 PA/SI, etc.) must be included. It is probable that, at some point in the future, you will be asked to provide additional information detailing specifics of individual characteristics. In anticipation of this request, supporting documentation (e.g., maps, reports, letters, etc.) regarding answers to these questions should be retained. Information needed to answer these questions is available from the cognizant EFD Planning and Real Estate Divisions, and Environment, Safety, and Health Divisions; and from the activity Public Works Department, and activity Health Monitoring and Safety Offices.

For purposes of the questions associated with land use at your base is *defined as land* (acreage owned, withdrawn, leased, and controlled through easements); *air* (space controlled through agreements with the FAA, e.g., MOAs); *and water* (navigation channels and waters along a base shoreline) *under the control of the Navy*.

**1. ENDANGERED/THREATENED SPECIES AND BIOLOGICAL HABITAT**

**1a.** For federal or state listed endangered, threatened, or category 1 plant and/or animal species on your base, complete the following table. Critical/sensitive habitats for these species are designated by the U. S. Fish and Wildlife Service (USFWS). A species is present on your base if some part of its life-cycle occurs on Navy controlled property (e.g., nesting, feeding, loafing). Important Habitat refers to that number of acres of habitat that is important to some life cycle stage of the threatened/endangered species that is not formally designated.

SPECIES (plant or animal)	Designation (Threatened/ Endangered)	Federal/ State	Critical / Designated Habitat (Acres)	Important Habitat (acres)
<i>example: Haliaeetus leucocephalus - bald eagle</i>	<i>threatened</i>	<i>Federal</i>	<i>25</i>	<i>0</i>
NONE				

Source Citation: 1989 NAVAL COMPLEX MASTER PLAN BY SOUTHNAVFACENGCOM

**1b.**

Have your base operations or development plans been constrained due to: - USFWS or National Marine Fisheries Service (NMFS)? - State required modifications or constraints? If so, identify below the impact of the constraints including any restrictions on land use.	NO
Are there any requirements resulting from species not residing on base, but which migrate or are present nearby? If so, summarize the impact of such constraints.	NO



1c. If the area of the habitat and the associated species have not been identified on base maps provided in Data Call 1, submit this information on an updated version of Data Call 1 map.

N/A

1d.

Have any efforts been made to relocate any species and/or conduct any mitigation with regards to critical habitats or endangered/threatened species? Explain what has been done and why.	NO
--	----

1e.

Will any state or local laws and/or regulations applying to endangered/threatened species which have been enacted or promulgated but not yet effected, constrain base operations or development plans beyond those already identified? Explain.	NO
---	----

## 2. WETLANDS

**Note:** Jurisdictional wetlands are those areas that meet the wetland definitional criteria detailed in the Corps of Engineers (COE) Wetland Delineation Manual, 1987, Technical Report Y-87-1, U.S. Army Engineer Waterway Experiment Station, Vicksburg, MS or officially adapted state definitions.

2a.

Does your base possess federal jurisdictional wetlands?	NO
Has a wetlands survey in accordance with established standards been conducted for your base?	NO
When was the survey conducted or when will it be conducted? ____ / ____ / ____	N/A
What percent of the base has been surveyed?	N/A
What is the total acreage of jurisdictional wetlands present on your base?	N/A

Source Citation: 1989 NAVAL COMPLEX MASTER PLAN BY SOUTHNAVFACENGCOM

2b. If the area of the wetlands has not been identified on base maps provided in Data Call 1, submit this on an updated version of Data Call 1 map. N/A

2c. Has the EPA, COE or a state wetland regulatory agency required you to modify or constrain base operations or development plans in any way in order to accommodate a jurisdictional wetland? NO If YES, summarize the results of such modifications or constraints.

## 3. CULTURAL RESOURCES

3a.

Has a survey been conducted to determine historic sites, structures, districts or archaeological resources which are listed, or determined eligible for listing, on the National Register of Historic Places? If so, list the sites below.	NO
--	----

3b.  
YES/NO

Has the President's Advisory Council on Historic Preservation or the cognizant State Historic Preservation Officer required you to mitigate or constrain base operations or development plans in any way in order to accommodate a National Register cultural resource? If YES, list the results of such modifications or constraints below.	NO
--	----

3c.

Are there any on base areas identified as sacred areas or burial sites by Native Americans or others? List below.	NO
---	----

**4. ENVIRONMENTAL FACILITIES**

**Notes:** If your facility is permitted for less than maximum capacity, state the maximum capacity and explain below the associated table why it is not permitted for maximum capacity. Under "Permit Status" state when the permit expires, and whether the facility is operating under a waiver. For permit violations, limit the list to the last 5 years. N/A

4a.

Does your base have an operating landfill? .....					NO
ID/Location of Landfill	Permitted Capacity (CYD)		Maximum Capacity (CYD)	Contents <sup>1</sup>	Permit Status
	TOTAL	Remaining			
N/A					

<sup>1</sup> Contents (e.g. building demolition, asbestos, sanitary debris, etc)

Are there any current or programmed projects to correct deficiencies or improve the facility.  
N/A

4b. If there are any non-Navy users of the landfill, describe the user and conditions/agreements.

N/A

4c.

Does your base have any disposal, recycling, or incineration facilities for solid waste?					NO
Facility/Type of Operation	Permitted Capacity	Ave Daily Throughput	Maximum Capacity	Permit Status	Comments
N/A					

List any permit violations and projects to correct deficiencies or improve the facility.

N/A

4d.

Does your base own/operate a Domestic Wastewater Treatment Plant (WWTP) ?					NO
ID/Location of WWTP	Permitted Capacity	Ave Daily Discharge Rate	Maximum Capacity	Permit Status	Level of Treatment/Year Built
N/A					

List permit violations and discuss any projects to correct deficiencies. N/A

4e. If you do not have a domestic WWTP, describe the average discharge rate of your base to the local sanitary sewer authority, discharge limits set by the sanitary sewer authority (flow and pollutants) and whether the base is in compliance with their permit. Discuss recurring discharge violations.

N/A

4f.

Does your base operate an Industrial Waste Treatment Plant (IWTP)?					NO
ID/Location of IWTP	Type of Treatment	Permitted Capacity	Ave Daily Discharge Rate	Maximum Capacity	Permit Status
N/A					

List any permit violations and projects to correct deficiencies or improve the facility.

N/A

4g. Are there other waste treatment flows not accounted for in the previous tables? Estimate capacity and describe the system. N/A

4h.

Does your base operate drinking Water Treatment Plants (WTP)?				NO	
ID/Location of WTP	Operating (GPD)		Method of Treatment	Maximum Capacity	Permit Status
	Permitted Capacity	Daily Rate			
N/A					

List permit violations and projects/actions to correct deficiencies or improve the facility.

N/A

4i. If you do not operate a WTP, what is the source of the base potable water supply. State terms and limits on capacity in the agreement/contract, if applicable.

DOMESTIC SERVICE IS PROVIDED BY NASA VIA A SINGLE 4-INCH MAIN. WATER IS PROVIDED THROUGH A SUPPORT SERVICES AGREEMENT USING METERED SERVICE AND/OR PROPORTIONATE SHARING WITH NO LIMITS ON CAPACITY.

4j.

Does the presence of contaminants or lack of supply of water constrain base operations. Explain.	NO
--	----

4k.

Other than those described above does your base hold any NPDES or stormwater permits? If YES, describe permit conditions.	N/A
If NO, why not and provide explanation of plan to achieve permitted status.	N/A

4l.

Does your base have bilge water discharge problem?	NO
Do you have a bilge water treatment facility?	NO

Explain: N/A

4m.

Will any state or local laws and/or regulations applying to Environmental Facilities, which have been enacted or promulgated but not yet effected, constrain base operations or development plans beyond those already identified? Explain.	NO
---	----

4n. What expansion capacity is possible with these Environmental Facilities? Will any expansions/upgrades as a result of BRACON or projects programmed through the Presidents budget through FY1997 result in additional capacity? Explain. N/A

4o. Do capacity limitations on any of the facilities discussed in question 4 pose a present or future limitation on base operations? Explain. N/A

**5. AIR POLLUTION**

5a.

What is the name of the Air Quality Control Areas (AQCAs) in which the base is located? <p style="text-align: center; margin-left: 100px;">AQCA 106</p>
Is the installation or any of its OLFs or non-contiguous base properties located in different AQCAs? <u>NO</u> . List site, location and name of AQCA.

5b. For each parcel in a separate AQCA fill in the following table. Identify with and "X" whether the status of each regulated pollutant is: attainment/nonattainment/maintenance. For those areas which are in non-attainment, state whether they are: Marginal, Moderate, Serious, Severe, or Extreme. State target attainment year.

Site: N/A AQCA: N/A

Pollutant	Attainment	Non-Attainment	Maintenance	Target Attainment Year <sup>1</sup>	Comments <sup>2</sup>
CO					N/A
Ozone					N/A
PM-10					N/A
SO <sub>2</sub>					N/A
NO <sub>2</sub>					N/A
Pb					N/A

<sup>1</sup> Based on national standard for Non-Attainment areas or SIP for Maintenance areas.  
<sup>2</sup> Indicate if attainment is dependent upon BRACON, MILCON or Special Projects. Also indicate if the project is currently programmed within the Presidents FY1997 budget.

5c. For your base, identify the baseline level of emissions, established in accordance with the Clean Air Act. Baseline information is assumed to be 1990 data or other year as specified. Determine the total level of emissions (tons/yr) for CO, NOx, VOC, PM10 for the general sources listed. For all data provide a list of the sources and show your calculations. Use known emissions data, or emissions derived from use of state methodologies, or identify other sources used. "Other Mobile" sources include such items as ground support equipment.

Emission Sources (Tons/Year)					
Pollutant	Permitted Stationary	Personal Automobiles	Aircraft Emissions	Other Mobile	Total
CO					N/A
NOx					N/A
VOC					N/A
PM10					N/A

Source Document: N/A

5d. For your base, determine the total FY1993 level of emissions (tons/yr) for CO, NOx, VOC, PM10 for the general sources listed. For all data provide a list of the sources and show your calculations. Use known emissions data, or emissions derived from use of state methodologies, or identify other sources used. "Other Mobile" sources include such items as ground support equipment.

Emissions Sources (Tons/Year)					
Pollutant	Permitted Stationary	Personal Automobiles	Aircraft Emissions	Other Mobile	Total
CO					N/A
NOx					N/A
VOC					N/A
PM10					N/A

Source Document: N/A

**5e.** Provide estimated increases/decreases in air emissions (Tons/Year of CO, NOx, VOC, PM10) expected within the next six years (1995-2001). Either from previous BRAC realignments and/or previously planned downsizing shown in the Presidents FY1997 budget. Explain. N/A

**5f.** Are there any critical air quality regions (i.e. non-attainment areas, national parks, etc.) within 100 miles of the base? YES

**5g.** Have any base operations/mission/functions (i.e.: training, R&D, ship movement, aircraft movement, military operations, support functions, vehicle trips per day, etc.) been restricted or delayed due to air quality considerations. Explain the reason for the restriction and the "fix" implemented or planned to correct.

NO

**5h.** Does your base have Emission Reduction Credits (ERCs) or is it subject to any emission offset requirements? If yes, provide details of the sources affected and conditions of the ERCs and offsets. Is there any potential for getting ERCs?

NO

## 6. ENVIRONMENTAL COMPLIANCE

- 6a. Identify compliance costs, currently known or estimated that are required for permits or other actions required to bring existing practices into compliance with appropriate regulations. Do not include Installation Restoration costs that are covered in Section 7. For the last two columns provide the combined total for those two FY's. NONE

Program	Survey Completed?	Costs in \$K to correct deficiencies					
		FY94	FY95	FY96	FY97	FY98-99	FY00-01
Air							
Hazardous Waste							
Safe Drinking Water Act							
PCBs							
Other (non-PCB) Toxic Substance Control Act							
Lead Based Paint							
Radon							
Clean Water Act							
Solid Waste							
Oil Pollution Act							
USTs							
Other							
<b>Total</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Provide a separate list of compliance projects in progress or required, with associated cost and estimated start/completion date. N/A

### 6b.

Does your base have structures containing asbestos? YES \_\_\_\_\_ What % of your base has been surveyed for asbestos? 100% \_\_\_\_\_ Are additional surveys planned? NO \_\_\_\_\_ What is the estimated cost to remediate asbestos (\$K) 350 \_\_\_\_\_. Are asbestos survey costs based on encapsulation, removal or a combination of both? BOTH

6c. Provide detailed cost of operational (environmental) compliance costs, with funding source. N/A

Funding Source	FY92	FY93	FY94	FY95	FY96	FY97	FY98-99	FY00-01
O&MN								
HA								
PA								
Other (specify)								
<b>TOTAL</b>	N/A	N/A						

6d. Are there any compliance issues/requirements that have impacted operations and/or development plans at your base. NO

**7. INSTALLATION RESTORATION**

7a.

Does your base have any sites that are contaminated with hazardous substances or petroleum products?	NO
Is your base an NPL site or proposed NPL site?	NO

7b. Provide the following information about your Installation Restoration (IR) program. Project list may be provided in separate table format. Note: List only projects eligible for funding under the Defense Environmental Restoration Account (DERA). Do not include UST compliance projects properly listed in section VI. N/A

Site # or name	Type site <sup>1</sup>	Groundwater Contaminated?	Extends off base?	Drinking Water Source?	Cost to Complete (\$M)/Est. Compl. Date	Status <sup>2</sup> /Comments
N/A						

<sup>1</sup> Type site: CERCLA, RCRA corrective action (CA), UST or other (explain)

<sup>2</sup> Status = PA, SI, RI, RD, RA, long term monitoring, etc.

7c. Have any contamination sites been identified for which there is no recognized/accepted remediation process available? List. NO

7d.

Is there a groundwater treatment system in place?	NO
Is there a groundwater treatment system planned?	NO

State scope and expected length of pump and treat operation. N/A

7e.

Has a RCRA Facilities Assessment been performed for your base?	NO
--	----

7f. Does your base operate any "Conforming Storage" facilities for handling **hazardous materials**? If YES, describe facility, capacity, restrictions, and permit conditions.  
NO

7g. Does your base operate any "Conforming Storage" facilities for handling **hazardous waste**? If YES, describe facility, capacity, restrictions, and permit conditions.  
NO

7h. Is your base responsible for any non-appropriated fund facilities (exchange, gas station) that require cleanup? If so, describe facility/location and cleanup required/status.  
NO

7i.

Do the results of any radiological surveys conducted indicate limitations on future land use? Explain below.	N/A
--	-----

## 8. LAND / AIR / WATER USE

**8. LAND / AIR / WATER USE**

**8a.** List the acreage of each real estate component controlled or managed by your base (e.g., Main Base - 1,200 acres, Outlying Field - 200 acres, Remote Range - 1,000 acres, remote antenna site - 5 acres, Off-Base Housing Area - 25 acres).

<b>Parcel Descriptor</b>	<b>Acres</b>	<b>Location</b>
MAIN ACTIVITY	1.5	NEW ORLEANS, LA

8b. Provide the acreage of the land use categories listed in the table below:

LAND USE CATEGORY		ACRES
Total Developed: (administration, operational, housing, recreational, training, etc.)		1.5
Total Undeveloped (areas that are left in their natural state but are under specific environmental development constraints, i.e.: wetlands, endangered species, etc.)		Wetlands: 0
		All Others: 0
Total Undeveloped land considered to be without development constraints, but which may have operational/man caused constraints (i.e.: HERO, HERF, HERP, ESQD, AICUZ, etc.) TOTAL		0
Total Undeveloped land considered to be without development constraints		0
Total Off-base lands held for easements/lease for specific purposes		0
Breakout of undeveloped, restricted areas. Some restricted areas may overlap:	ESQD	N/A
	HERF	
	HERP	
	HERO	
	AICUZ	
	Airfield Safety Criteria	
	Other	

8c. How many acres on your base (includes off base sites) are dedicated for training purposes (e.g., vehicular, earth moving, mobilization)? This does not include buildings or interior small arms ranges used for training purposes. 0

8d. What is the date of your last AICUZ update? N/A Are any waivers of airfield safety criteria in effect on your base? N/A Summarize the conditions of the waivers below.  
N/A

8e. List the off-base land use *types* (e.g, residential, industrial, agricultural) and *acreage* within Noise Zones 2 & 3 generated by your flight operations and whether it is compatible/incompatible with AICUZ guidelines on land use. N/A

Acreage/Location/ID	Zones 2 or 3	Land Use	Compatible/ Incompatible
N/A			

8f. List the navigational channels and berthing areas controlled by your base which require maintenance dredging? Include the frequency, volume, current project depth, and costs of the maintenance requirement. N/A

Navigational Channels/ Berthing Areas	Location / Description	Maintenance Dredging Requirement			
		Frequency	Volume (MCY)	Current Project Depth (FT)	Cost (\$M)
N/A					

8g. Summarize planned projects through FY 1997 requiring new channel or berthing area dredged depths, include location, volume and depth.

N/A

8h.

Are there available <b>designated dredge disposal areas</b> for maintenance dredging material? List location, remaining capacity, and future limitations.	N/A
Are there available <b>designated dredge disposal areas</b> for new dredge material? List location, remaining capacity, and future limitations.	N/A
Are the dredged materials considered contaminated? List known contaminants.	N/A

8.i. List any requirements or constraints resulting from consistency with **State Coastal Zone Management Plans**. N/A

8j. Describe any **non-point source pollution problems affecting water quality** ,e.g.: coastal erosion. N/A

8k.

If the base has a cooperative agreement with the US Fish and Wildlife Service and/or the State Fish and Game Department for conducting a hunting and fishing program, does the agreement or these resources constrain either current or future operations or activities? Explain the nature and extent of restrictions.	N/A
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8l. List any other areas on your base which are indicated as protected or preserved habitat other than threatened/endangered species that have been listed in Section 1. List the species, whether or not treated, and the acres protected/preserved. N/A

**9. WRAPUP**

**9a.** Are there **existing or potential environmental showstoppers** that have affected or will affect the accomplishment of the installation mission that have not been covered in the previous 8 questions? **NO**

**9b.** Are there any **other environmental permits** required for base operations, include any relating to industrial operations. **NO**

**9c.** Describe any **other environmental or encroachment restrictions** on base property not covered in the previous 8 sections. **NONE**

**9d.** List any **future/proposed laws/regulations** or any **proposed laws/regulations** which will constrain base operations or development plans in any way. Explain.

**NONE**

Data Call #33  
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. W. RENDIN, CDR, MSC, USN  
NAME (Please type or print)

  
Signature

COMMANDING OFFICER  
Title

2 SEPTEMBER 1994  
Date

NAVAL BIODYNAMICS LABORATORY  
Activity

ENCL (2)

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

X *D F Hagen*

NAME (Please type or print)

Signature

CHIEF BUMED/SURGEON GENERAL

X 9-6-94

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

*W A Earner*

NAME (Please type or print)

Signature

Title

Date

9/12/94

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**DATA CALL 65**  
**ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA**

**Activity Identification:** Please complete the following table, identifying the activity for which this response is being submitted.

<b>Activity Name:</b>	Naval Biodynamics Laboratory New Orleans LA
<b>UIC:</b>	66863
<b>Major Claimant:</b>	BUMED Washington DC

**General Instructions/Background:**

Information requested in this data call is required for use by the Base Structure Evaluation Committee (BSEC), in concert with information from other data calls, to analyze both the impact that potential closure or realignment actions would have on a local community and the impact that relocations of personnel would have on communities surrounding receiving activities. In addition to Cost of Base Realignment Actions (COBRA) analyses which incorporate standard Department of the Navy (DON) average cost factors, the BSEC will also be conducting more sophisticated economic and community infrastructure analyses requiring more precise, activity-specific data. For example, activity-specific salary rates are required to reflect differences in salary costs for activities with large concentrations of scientists and engineers and to address geographic differences in wage grade salary rates. Questions relating to "Community Infrastructure" are required to assist the BSEC in evaluating the ability of a community to absorb additional employees and functions as the result of relocation from a closing or realigning DON activity.

Due to the varied nature of potential sources which could be used to respond to the questions contained in this data call, a block appears after each question, requesting the identification of the source of data used to respond to the question. To complete this block, identify the source of the data provided, including the appropriate references for source documents, names and organizational titles of individuals providing information, etc. Completion of this "Source of Data" block is critical since some of the information requested may be available from a non-DoD source such as a published document from the local chamber of commerce, school board, etc. Certification of data obtained from a non-DoD source is then limited to certifying that the information contained in the data call response is an accurate and complete representation of the information obtained from the source. Records must be retained by the certifying official to clearly document the source of any non-DoD information submitted for this data call.

**DATA CALL 65  
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA**

**General Instructions/Background (Continued):**

The following notes are provided to further define terms and methodologies used in this data call. Please ensure that responses consistently follow this guidance:

**Note 1:** Throughout this data call, the term "activity" is used to refer to the DON installation that is the addressee for the data call.

**Note 2:** Periodically throughout this data call, questions will include the statement that the response should refer to the "area defined in response to question 1.b., (page 3)". Recognizing that in some large metropolitan areas employee residences may be scattered among many counties or states, the scope of the "area defined" may be limited to the sum of:

- those counties that contain government (DoD) housing units (as identified in 1.b.2)), and,
- those counties closest to the activity which, in the aggregate, include the residences of 80% or more of the activity's employees.

**Note 3:** Responses to questions referring to "civilians" in this data call should reflect federal civil service appropriated fund employees.

**1. Workforce Data**

a. **Average Federal Civilian Salary Rate.** Provide the projected FY 1996 average gross annual appropriated fund civil service salary rate for the activity identified as the addressee in this data call. This rate should include all cash payments to employees, and exclude non-cash personnel benefits such as employer retirement contributions, payments to former employees, etc.

<b>Average Appropriated Fund Civilian Salary Rate:</b>	<b>\$42,000</b>
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<b>Source of Data (1.a. Salary Rate): NBDL Comptroller</b>
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**DATA CALL 65**  
**ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA**

**b. Location of Residence.** Complete the following table to identify where employees live. Data should reflect current workforce.

**1) Residency Table.** Identify residency data, by county, for both military and civilian (civil service) employees working at the installation (including, for example, operational units that are homeported or stationed at the installation). For each county listed, also provide the estimated average distance from the activity, in miles, of employee residences and the estimated average length of time to commute one-way to work. For the purposes of displaying data in the table, any county(s) in which 1% or fewer of the activity's employees reside may be consolidated as a single line entry in the table, titled "Other".

County of Residence	State	No. of Employees Residing in County		Percentage of Total Employees	Average Distance From Base (Miles)	Average Duration of Commute (Minutes)
		Military	Civilian			
Orleans	LA	14	15	51	7	15
St. Tammany	LA	5	12	31	25	35
Jefferson	LA	1	2	5	15	25
St. Bernard	LA	2	1	5	15	25
Plaquemines	LA	1	1	3	20	30
Others	MS	0	3	5	40	45

= 100%

As discussed in Note 2 on Page 2, subsequent questions in the data call refer to the "area defined in response to question 1.b., (page 3)". In responding to these questions, the scope of the "area defined" may be limited to the sum of: a) those counties that contain government (DoD) housing units (as identified below), and, b) those counties closest to the activity which, in the aggregate, include the residences of 80% or more of the activity's employees.

**2) Location of Government (DoD) Housing.** If some employees of the base live in government housing, identify the county(s) where government housing is located:

**DATA CALL 65**  
**ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA**

**Source of Data (1.b. 1) & 2) Residence Data): NBDL Personnel Records**

c. **Nearest Metropolitan Area(s).** Identify all major metropolitan area(s) (i.e., population concentrations of 100,000 or more people) which are within 50 miles of the installation. If no major metropolitan area is within 50 miles of the base, then identify the nearest major metropolitan area(s) (100,000 or more people) and its distance(s) from the base.

<b>City</b>	<b>County</b>	<b>Distance from base (miles)</b>
Metairie, LA	Jefferson	24
New Orleans, LA	Orleans	10
Baton Rouge, LA	East Baton Rouge	80
Shreveport, LA	Caddo	320
Mobile, AL	Mobile	132

**Source of Data (1.c. Metro Areas): 1994 Rand McNally Road Atlas**

**DATA CALL 65**  
**ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA**

**d. Age of Civilian Workforce.** Complete the following table, identifying the age of the activity's civil service workforce.

<b>Age Category</b>	<b>Number of Employees</b>	<b>Percentage of Employees</b>
<b>16 - 19 Years</b>	0	0
<b>20 - 24 Years</b>	0	0
<b>25 - 34 Years</b>	2	6
<b>35 - 44 Years</b>	12	35
<b>45 - 54 Years</b>	12	35
<b>55 - 64 Years</b>	8	24
<b>65 or Older</b>	0	0
<b>TOTAL</b>	34	100 %

**Source of Data (1.d.) Age Data): Employees Personnel Records**

**DATA CALL 65**  
**ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA**

**e. Education Level of Civilian Workforce**

1) **Education Level Table.** Complete the following table, identifying the education level of the activity's **civil service** workforce.

<b>Last School Year Completed</b>	<b>Number of Employees</b>	<b>Percentage of Employees</b>
<b>8th Grade or less</b>	0	0
<b>9th through 11th Grade</b>	0	0
<b>12th Grade or High School Equivalency</b>	8	24
<b>1-3 Years of College</b>	10	29
<b>4 Years of College (Bachelors Degree)</b>	7	21
<b>5 or More Years of College (Graduate Work)</b>	9	26
<b>TOTAL</b>	34	100 %

2) **Degrees Achieved.** Complete the following table for the activity's **civil service** workforce. Identify the number of employees with each of the following degrees, etc. To avoid double counting, only identify the highest degree obtained by a worker (e.g., if an employee has both a Master's Degree and a Doctorate, only include the employee under the category "Doctorate").

<b>Degree</b>	<b>Number of Civilian Employees</b>
Terminal Occupation Program - Certificate of Completion, Diploma or Equivalent (for areas such as technicians, craftsmen, artisans, skilled operators, etc.)	0
Associate Degree	5
Bachelor Degree	7
Masters Degree	6
Doctorate	3

**DATA CALL 65**  
**ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA**

**Source of Data (1.e.1 and 2) Education Level Data): Employees Personnel Record**

**f. Civilian Employment By Industry.** Complete the following table to identify by "industry" the type of work performed by civil service employees at the activity. The intent of this table is to attempt to stratify the activity civilian workforce using the same categories of industries used to identify private sector employment. Employees should be categorized based on their primary duties. Additional information on categorization of private sector employment by industry can be found in the Office of Management and Budget Standard Industrial Classification (SIC) Manual. However, you do not need to obtain a copy of this publication to provide the data requested in this table.

Note the following specific guidance regarding the "Industry Type" codes in the first column of the table: Even though categories listed may not perfectly match the type of work performed by civilian employees, please attempt to assign each civilian employee to one of the "Industry Types" identified in the table. However, only use the Category 6, "Public Administration" sub-categories when none of the other categories apply. Retain supporting data used to construct this table at the activity-level, in case questions arise or additional information is required at some future time. Leave shaded areas blank.

Industry	SIC Codes	No. of Civilians	% of Civilians
<b>1. Agriculture, Forestry &amp; Fishing</b>	01-09	0	0
<b>2. Construction</b> (includes facility maintenance and repair)	15-17	0	0
<b>3. Manufacturing</b> (includes Intermediate and Depot level maintenance)	20-39		
3a. Fabricated Metal Products (include ordnance, ammo, etc.)	34	0	0
3b. Aircraft (includes engines and missiles)	3721 et al	0	0
3c. Ships	3731	0	0
3d. Other Transportation (includes ground vehicles)	various	0	0
3e. Other Manufacturing not included in 3a. through 3d.	various	0	0

**DATA CALL 65**  
**ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA**

Industry	SIC Codes	No. of Civilians	% of Civilians
<b>Sub-Total 3a. through 3e.</b>	20-39	0	0
<b>4. Transportation/Communications/Utilities</b>	40-49		
4a. Railroad Transportation	40	0	0
4b. Motor Freight Transportation & Warehousing (includes supply services)	42	0	0
4c. Water Transportation (includes organizational level maintenance)	44	0	0
4d. Air Transportation (includes organizational level maintenance)	45	0	0
4e. Other Transportation Services (includes organizational level maintenance)	47	0	0
4f. Communications	48	0	0
4g. Utilities	49	0	0
<b>Sub-Total 4a. through 4g.</b>	40-49	0	0
<b>5. Services</b>	70-89		
5a. Lodging Services	70	0	0
5b. Personal Services (includes laundry and funeral services)	72	0	0
5c. Business Services (includes mail, security guards, pest control, photography, janitorial and ADP services)	73	10	29
5d. Automotive Repair and Services	75	0	0
5e. Other Misc. Repair Services	76	0	0
5f. Motion Pictures	78	0	0
5g. Amusement and Recreation Services	79	0	0
5h. Health Services	80	0	0

**DATA CALL 65**  
**ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA**

Industry	SIC Codes	No. of Civilians	% of Civilians
5i. Legal Services	81	0	0
5j. Educational Services	82	0	0
5k. Social Services	83	0	
5l. Museums	84	0	0
5m. Engineering, Accounting, Research & Related Services (includes RDT&E, ISE, etc.)	87	24	71
5n. Other Misc. Services	89	0	0
<b>Sub-Total 5a. through 5n.:</b>	70-89	35	100
<b>6. Public Administration</b>	91-97		
6a. Executive and General Government, Except Finance	91	0	0
6b. Justice, Public Order & Safety (includes police, firefighting and emergency management)	92	0	0
6c. Public Finance	93	0	0
6d. Environmental Quality and Housing Programs	95	0	0
<b>Sub-Total 6a. through 6d.</b>		0	0
<b>TOTAL</b>		34	100 %

**Source of Data (1.f.) Classification By Industry Data): Activity Records**

**DATA CALL 65**  
**ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA**

**g. Civilian Employment by Occupation.** Complete the following table to identify the types of "occupations" performed by civil service employees at the activity. Employees should be categorized based on their primary duties. Additional information on categorization of employment by occupation can be found in the Department of Labor Occupational Outlook Handbook. However, you do not need to obtain a copy of this publication to provide the data requested in this table.

Note the following specific guidance regarding the "Occupation Type" codes in the first column of the table: Even though categories listed may not perfectly match the type of work performed by civilian employees, please attempt to assign each civilian employee to one of the "Occupation Types" identified in the table. Refer to the descriptions immediately following this table for more information on the various occupational categories. Retain supporting data used to construct this table at the activity-level, in case questions arise or additional information is required at some future time. Leave shaded areas blank.

Occupation	Number of Civilian Employees	Percent of Civilian Employees
<b>1. Executive, Administrative and Management</b>	1	3
<b>2. Professional Specialty</b>		
2a. Engineers	8	24
2b. Architects and Surveyors	0	0
2c. Computer, Mathematical & Operations Research	11	32
2d. Life Scientists	0	0
2e. Physical Scientists	2	6
2f. Lawyers and Judges	0	0
2g. Social Scientists & Urban Planners	0	0
2h. Social & Recreation Workers	0	0
2i. Religious Workers	0	0
2j. Teachers, Librarians & Counselors	0	0
2k. Health Diagnosing Practitioners (Doctors)	0	0
2l. Health Assessment & Treating(Nurses, Therapists, Pharmacists, Nutritionists, etc.)	0	0

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**ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA**

Occupation	Number of Civilian Employees	Percent of Civilian Employees
2m. Communications	0	0
2n. Visual Arts	1	3
<b>Sub-Total 2a. through 2n.:</b>	22	65
<b>3. Technicians and Related Support</b>		
3a. Health Technologists and Technicians	0	0
3b. Other Technologists	0	0
<b>Sub-Total 3a. and 3b.:</b>	0	0
<b>4. Administrative Support &amp; Clerical</b>	7	21
<b>5. Services</b>		
5a. Protective Services (includes guards, firefighters, police)	0	0
5b. Food Preparation & Service	0	0
5c. Dental/Medical Assistants/Aides	0	0
5d. Personal Service & Building & Grounds Services (includes janitorial, grounds maintenance, child care workers)	0	0
<b>Sub-Total 5a. through 5d.</b>	0	0
<b>6. Agricultural, Forestry &amp; Fishing</b>	0	0
<b>7. Mechanics, Installers and Repairers</b>	0	0
<b>8. Construction Trades</b>	4	12
<b>9. Production Occupations</b>	1	3
<b>10. Transportation &amp; Material Moving</b>	0	0
<b>11. Handlers, Equipment Cleaners, Helpers and Laborers (not included elsewhere)</b>	0	0
<b>TOTAL</b>	34	100 %

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**ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA**

**Source of Data (1.g.) Classification By Occupation Data): Command Records**

**Description of Occupational Categories used in Table 1.g.** The following list identifies public and private sector occupations included in each of the major occupational categories used in the table. Refer to these examples as a guide in determining where to allocate appropriated fund civil service jobs at the activity.

1. **Executive, Administrative and Management.** Accountants and auditors; administrative services managers; budget analysts; construction and building inspectors; construction contractors and managers; cost estimators; education administrators; employment interviewers; engineering, science and data processing managers; financial managers; general managers and top executives; chief executives and legislators; health services managers; hotel managers and assistants; industrial production managers; inspectors and compliance officers, except construction; management analysts and consultants; marketing, advertising and public relations managers; personnel, training and labor relations specialists and managers; property and real estate managers; purchasing agents and managers; restaurant and food service managers; underwriters; wholesale and retail buyers and merchandise managers.
2. **Professional Specialty.** Use sub-headings provided.
3. **Technicians and Related Support.** Health Technologists and Technicians sub-category - self-explanatory. Other Technologists sub-category includes aircraft pilots; air traffic controllers; broadcast technicians; computer programmers; drafters; engineering technicians; library technicians; paralegals; science technicians; numerical control tool programmers.
4. **Administrative Support & Clerical.** Adjusters, investigators and collectors; bank tellers; clerical supervisors and managers; computer and peripheral equipment operators; credit clerks and authorizers; general office clerks; information clerks; mail clerks and messengers; material recording, scheduling, dispatching and distributing; postal clerks and mail carriers; records clerks; secretaries; stenographers and court reporters; teacher aides; telephone, telegraph and teletype operators; typists, word processors and data entry keyers.
5. **Services.** Use sub-headings provided.
6. **Agricultural, Forestry & Fishing.** Self explanatory.
7. **Mechanics, Installers and Repairers.** Aircraft mechanics and engine specialists; automotive body repairers; automotive mechanics; diesel mechanics; electronic equipment repairers; elevator installers and repairers; farm equipment mechanics; general maintenance mechanics; heating, air conditioning and refrigeration technicians; home appliance and power tool repairers, industrial machinery repairers; line installers and cable splicers; millwrights; mobile heavy equipment mechanics; motorcycle, boat and small engine mechanics; musical instrument repairers and tuners; vending machine servicers and repairers.
8. **Construction Trades.** Bricklayers and stonemasons; carpenters; carpet installers; concrete masons and terrazzo workers; drywall workers and lathers; electricians; glaziers; highway maintenance; insulation workers; painters and paperhangers; plasterers; plumbers and pipefitters; roofers; sheet metal workers; structural and reinforcing ironworkers; tilesetters.
9. **Production Occupations.** Assemblers; food processing occupations; inspectors, testers and graders; metalworking and plastics-working occupations; plant and systems operators, printing occupations; textile, apparel and furnishings occupations; woodworking occupations; miscellaneous production operations.
10. **Transportation & Material Moving.** Busdrivers; material moving equipment operators; rail transportation occupations; truckdrivers; water transportation occupations.
11. **Handlers, Equipment Cleaners, Helpers and Laborers** (not included elsewhere). Entry level jobs not requiring significant training.

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**h. Employment of Military Spouses.** Complete the following table to provide estimated information concerning military spouses who are also employed in the area defined in response to question 1.b., above. **Do not fill in shaded area.**

1. Percentage of Military Employees Who Are Married:	43
2. Percentage of Military Spouses Who Work Outside of the Home:	40
3. Break out of Spouses' Location of Employment (Total of rows 3a. through 3d. should equal 100% and reflect the number of spouses used in the calculation of the "Percentage of Spouses Who Work Outside of the Home".	
3a. Employed "On-Base" - Appropriated Fund:	0
3b. Employed "On-Base" - Non-Appropriated Fund:	0
3c. Employed "Off-Base" - Federal Employment:	0
3d. Employed "Off-Base" - Other Than Federal Employment	100

<b>Source of Data (1.h.) Spouse Employment Data): Command Records</b>
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**DATA CALL 65**  
**ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA**

**2. Infrastructure Data.** For each element of community infrastructure identified in the two tables below, rate the community's ability to accommodate the relocation of additional functions and personnel to your activity. Please complete each of the three columns listed in the table, reflecting the impact of various levels of increase (20%, 50% and 100%) in the number of personnel working at the activity (and their associated families). In ranking each category, use one of the following three ratings:

- A** - Growth can be accommodated with little or no adverse impact to existing community infrastructure and at little or no additional expense.
- B** - Growth can be accommodated, but will require some investment to improve and/or expand existing community infrastructure.
- C** - Growth either cannot be accommodated due to physical/environmental limitations or would require substantial investment in community infrastructure improvements.

**Table 2.a., "Local Communities":** This first table refers to the local community (i.e., the community in which the base is located) and its ability to meet the increased requirements of the installation.

**Table 2.b., "Economic Region":** This second table asks for an assessment of the infrastructure of the economic region (those counties identified in response to question 1.b., (page 3) - taken in the aggregate) and its ability to meet the needs of additional employees and their families moving into the area.

**For both tables, annotate with an asterisk (\*) any categories which are wholly supported on-base, i.e., are not provided by the local community. These categories should also receive an A-B-C rating. Answers for these "wholly supported on-base" categories should refer to base infrastructure rather than community infrastructure.**

**DATA CALL 65**  
**ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA**

a. Table A: Ability of the local community to meet the expanded needs of the base.

1) Using the A - B - C rating system described above, complete the table below.

Category	20% Increase	50% Increase	100% Increase
Off-Base Housing	A	A	A
Schools - Public	A	A	A
Schools - Private	A	A	A
Public Transportation - Roadways	A	A	A
Public Transportation - Buses/Subways	A	A	A
Public Transportation - Rail	A	A	A
Fire Protection	A	A	A
Police	A	A	A
Health Care Facilities	A	A	A
Utilities:	A	A	A
Water Supply	A	A	A
Water Distribution	A	A	A
Energy Supply	A	A	A
Energy Distribution	A	A	A
Wastewater Collection	A	A	A
Wastewater Treatment	A	A	A
Storm Water Collection	A	A	A
Solid Waste Collection and Disposal	A	A	A
Hazardous/Toxic Waste Disposal	A	A	A
Recreational Activities	A	A	A

Remember to mark with an asterisk any categories which are wholly supported on-base.

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**ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA**

2) For each rating of "C" identified in the table on the preceding page, attach a brief narrative explanation of the types and magnitude of improvements required and/or the nature of any barriers that preclude expansion.

N/A

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Source of Data (2.a. 1) & 2) - Local Community Table):
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**b. Table B: Ability of the region described in the response to question 1.b. (page 3) (taken in the aggregate) to meet the needs of additional employees and their families relocating into the area.**

1) Using the A - B - C rating system described above, complete the table below.

Category	20% Increase	50% Increase	100% Increase
Off-Base Housing	A	A	A
Schools - Public	A	A	A
Schools - Private	A	A	A
Public Transportation - Roadways	A	A	A
Public Transportation - Buses/Subways	A	A	A
Public Transportation - Rail	A	A	A
Fire Protection	A	A	A
Police	A	A	A
Health Care Facilities	A	A	A
Utilities:	A	A	A
Water Supply	A	A	A
Water Distribution	A	A	A
Energy Supply	A	A	A
Energy Distribution	A	A	A
astewater Collection	A	A	A
Wastewater Treatment	A	A	A
Storm Water Collection	A	A	A
Solid Waste Collection and Disposal	A	A	A
Hazardous/Toxic Waste Disposal	A	A	A
Recreation Facilities	A	A	A

Remember to mark with an asterisk any categories which are wholly supported on-base.

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2) For each rating of "C" identified in the table on the preceding page, attach a brief narrative explanation of the types and magnitude of improvements required and/or the nature of any barriers that preclude expansion.

N/A

<b>Source of Data (2.b. 1) &amp; 2) - Regional Table): N/A</b>
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**DATA CALL 65**  
**ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA**

**3. Public Facilities Data:**

- a. **Off-Base Housing Availability.** For the counties identified in the response to question 1.b. (page 3), in the aggregate, estimate the current average vacancy rate for community housing. Use current data or information identified on the latest family housing market analysis. For each of the categories listed (rental units and units for sale), combine single family homes, condominiums, townhouses, mobile homes, etc., into a single rate:

Rental Units: 10%

Units for Sale: 20%

<p><b>Source of Data (3.a. Off-Base Housing): NAVY FAMILY HOUSING OFFICE, NEW ORLEANS</b></p>
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**DATA CALL 65**  
**ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA**

**b. Education.**

1) Information is required on the current capacity and enrollment levels of school systems serving employees of the activity. Information should be keyed to the counties identified in the response to question 1.b. (page 3).

School District	County	Number of Schools			Enrollment		Pupil-to-Teacher Ratio		Does School District Serve Gov't Housing Units? *
		Elementary	Middle	High	Current	Max. Capacity	Current	Max. Ratio	
JEFFERSON	JEFFERSON	52	14	11	57,650	62,000	1:22	1:25	YES
ORLEANS	ORLEANS	84	15	17	84,700	N/A	1:25	1:25	YES
PLAQUEMINES	PLAQUEMINES	1	1	1	1,935	N/A	1:19	1:25	YES
ST. BERNARD	ST. BERNARD	9	4	4	9,300	14,000	1:25	1:25	NO
ST. TAMMANY	ST. TAMMANY	18	18	6	29,340	N/A	N/A	1:25	NO
N/A = NOT AVAILABLE AT THIS TIME									

\* Answer "Yes" in this column if the school district in question enrolls students who reside in government housing.

**Source of Data (3.b.1) Education Table): County School Board**

2) Are there any on-base "Section 6" Schools? If so, identify number of schools and current enrollment.

**Two Schools. Northwood University, enrollment: 270.**  
**Troy State University, enrollment: 60.**

**Source of Data (3.b.2) On-Base Schools): Navy Campus Office, New Orleans, LA**

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**ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA**

3) For the counties identified in the response to question 1.b. (page 3), in the aggregate, list the names of undergraduate and graduate colleges and universities which offer certificates, Associate, Bachelor or Graduate degrees :

Tulane University; Associate, Bachelor, Graduate.  
University of New Orleans; Associate, Bachelor, Graduate.  
Loyola University; Associate, Bachelor, Graduate.  
Southern University; Associate, Bachelor, Graduate.  
Xavier University; Associate, Bachelor, Graduate.  
Our Lady of Holy Cross University; Associate, Bachelor, Graduate.  
Dillard University; Associate, Bachelor.  
Delgado Community College; Certificates, Associate.  
Elain P. Nunez College; Certificates, Associate.  
Phillips Junior College; Certificates, Associate.  
Northwood University; Associate, Bachelor.  
Troy State University; Graduate.

**Source of Data (3.b.3) Colleges): Navy Campus Office, New Orleans.**

4) For the counties identified in the response to question 1.b. (page 3), in the aggregate, list the names and major curriculums of vocational/technical training schools:

Sidney Collier Votech; Varies.  
Phillips Junior College; Varies.  
Elain P. Nunez College; Varies.  
Delgado Community College; Varies.  
Refrigeration School of New Orleans; Air Conditioning and Refrigeration.  
Louisiana Hair Design; Cosmetology  
West Jefferson Technical Institute; Varies.  
Slidell Votech; Varies.

**Source of Data (3.b.4) Vo-tech Training): Navy Campus Office, New Orleans**

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**c. Transportation.**

1) Is the activity served by public transportation?

	<u>Yes</u>	<u>No</u>
Bus:	<u>X</u>	<u>—</u>
Rail:	<u>—</u>	<u>X</u>
Subway:	<u>—</u>	<u>X</u>
Ferry:	<u>—</u>	<u>X</u>

**Source of Data (3.c.1) Transportation): NBDL ADMIN**

2) Identify the location of the nearest passenger railroad station (long distance rail service, not commuter service within a city) and the distance from the activity to the station.

AMTRACK, 12 MILES.

**Source of Data (3.c.2) Transportation): NBDL ADMIN**

3) Identify the name and location of the nearest commercial airport (with public carriers, e.g., USAIR, United, etc.) and the distance from the activity to the airport.

NEW ORLEANS INTERNATIONAL AIRPORT, 21 MILES.

**Source of Data (3.c.3) Transportation): NBDL ADMIN**

4) How many carriers are available at this airport?

12 CARRIERS.

**Source of Data (3.c.4) Transportation): SATO, PSD NSA NEW ORLEANS LA**

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5) What is the Interstate route number and distance, in miles, from the activity to the nearest Interstate highway?

I-510 to I-10, 2 miles.

**Source of Data (3.c.5) Transportation): NBDL ADMIN**

6) Access to Base:

a) Describe the quality and capacity of the road systems providing access to the base, specifically during peak periods. (Include both information on the area surrounding the base and information on access to the base, e.g., numbers of gates, congestion problems, etc.)

Roads are poured concrete or black top interstate routes with adequate capacity for peak hour travel. Three gates handle access to the facility with little back up.

b) Do access roads transit residential neighborhoods? Yes

c) Are there any easements that preclude expansion of the access road system? No

d) Are there any man-made barriers that inhibit traffic flow (e.g., draw bridges, etc.)? No

**Source of Data (3.c.6) Transportation): NBDL Admin**

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- d. **Fire Protection/Hazardous Materials Incidents.** Does the activity have an agreement with the local community for fire protection or hazardous materials incidents? Explain the nature of the agreement and identify the provider of the service. Protection provided by NASA/Martin Marietta through facility rental agreement.

**Source of Data (3.d. Fire/Hazmat): NBDL Records**

e. **Police Protection.**

- 1) What is the level of legislative jurisdiction held by the installation?

N/A

- 2) If there is more than one level of legislative jurisdiction for installation property, provide a brief narrative description of the areas covered by each level of legislative jurisdiction and whether there are separate agreements for local law enforcement protection.

N/A

- 3) Does the activity have a specific written agreement with local law enforcement concerning the provision of local police protection?

N/A

- 4) If agreements exist with more than one local law enforcement entity, provide a brief narrative description of whom the agreement is with and what services are covered.

N/A

- 5) If military law enforcement officials are routinely augmented by officials of other federal agencies (BLM, Forest Service, etc.), identify any written agreements covering such services and briefly describe the level of support received.

N/A

**Source of Data (3.e. 1) - 5) - Police): N/A**

**DATA CALL 65**  
**ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA**

f. **Utilities.**

1) Does the activity have an agreement with the local community for water, refuse disposal, power or any other utility requirements? Explain the nature of the agreement and identify the provider of the service.

No

2) Has the activity been subject to water rationing or interruption of delivery during the last five years? If so, identify time period during which rationing existed and the restrictions imposed. Were activity operations affected by these situations? If so, explain extent of impact.

No

3) Has the activity been subject to any other significant disruptions in utility service, e.g., electrical "brown outs", "rolling black outs", etc., during the last five years? If so, identify time period(s) covered and extent/nature of restrictions/disruption. Were activity operations affected by these situations? If so, explain extent of impact.

No

<b>Source of Data (3.f. 1) - 3) Utilities): N/A</b>
---

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**ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA**

4. **Business Profile.** List the top ten employers in the geographic area defined by your response to question 1.b. (page 3), taken in the aggregate, (include your activity, if appropriate):

Employer	Product/Service	No. of Employees
1. AVONDALE SHIPYARDS, INC	SHIPYARD	2,500 PLUS
2. MARTIN MARIETTA CORP.	SPACE PROGRAM CONST.	2,500 PLUS
3. NATIONAL SUPERMARKETS, INC.	SUPERMARKETS	2,500 PLUS
4. OCHSNER FOUNDATION HOSPITAL AND CLINICS	HOSPITALS	2,500 PLUS
5. SCHWEGMANN BROS. GIANT SUPER MARKETS	SUPERMARKETS	2,500 PLUS
6. SHELL OIL COMPANY	OIL/GAS	2,500 PLUS
7. SOUTH CENTRAL BELL TELEPHONE COMPANY	COMMUNICATIONS	2,500 PLUS
8. TULANE UNIVERSITY	UNIVERSITY	2,500 PLUS
9. WAL-MART STORES, INC	RETAIL STORE	2,500 PLUS
10. WINN-DIXIE OF LOUISIANA, INC.	SUPERMARKET	2,500 PLUS

**Source of Data (4. Business Profile):** CHAMBER OF COMMERCE, ECONOMICS DEVELOPMENT COUNCIL

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**ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA**

**5. Other Socio-Economic Impacts.** For each of the following areas, describe other recent (past 5 years), on-going or projected economic impacts (both positive and negative) on the geographic region defined by your response to question 1.b. (page 3), in the aggregate:

a. Loss of Major Employers:

Oil field related losses: Conocco, Amoco, ODECO

Oil field related major cutbacks: Mobile, Texaco, Chevron, Shell, Exxon.

b. Introduction of New Businesses/Technologies:

New: Pacorini Silor Cafe bulk coffee terminal, Louisiana Frozen Foods Warehouse, Aquarium of the Americas, Lottery, Floating Casinos.

Growth: Freeport McMoran Sulphur mine, Textron Marine air cushion surface effects landing craft technology, AT&T Telemarketing Center, J&M Industries packaging plant, Lykes Steamship Lines expansion to Mexican ports, expanded Convention Center, expanded air port terminals, \$200 million port services expansion, direct jobs and the indirect jobs stimulated through the "multiplier" effect.

The \$10.4 billion in capital investment and new contract orders for Area industries marks four important achievements for the regional economy:

- \* the competitive strength of the Area's Shipbuilding, Maritime and Oil/Gas service industry in gaining major new contract orders from the public and private sectors;

- \* the investment of capital in the rebuilding and expansion of waterway, air, and land-based transportation infrastructure essential to the growth of the Region's economic base;

- \* the diversification of capital investment in both established industries such as the Port/Maritime and the Petroleum/Petrochemical Industries as well as in new growth industries such as Tourism, Health Care, Communications, Food Processing, and Apparel Manufacturing;

- \* a major investment of capital in projects that will significantly enhance the Region's natural environment by eliminating sources of air and water pollution, restoring wetlands, protecting endangered species of wildlife, and providing Valuable research of new and better methods for managing the region's natural environment.

The \$10.4 billion level of capital investment and new business orders for Area companies signals a vibrant and growing economy for the New Orleans Region. New Capacity is being created for growth of businesses, jobs and incomes while existing industries are being strengthened, and the compatibility of environmental management efforts with industrial expansion is being sustained.

c. Natural Disasters: None.

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**ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA**

d. Overall Economic Trends:

The New Orleans area enjoyed an employment growth of 5.3% from 1987 to 1991. Since January, 1991 the New Orleans Region has experienced \$7.1 billion in capital investment and 3.3 billion in contracts for new production and services from shipbuilders and other businesses. Representing the highest level of investment in recent history, the combined total of investments and orders now reaches \$10.4 billion including projects completed, underway, and planned from January, 1991 through October, 1993. Overall employment impact is expected to reach 50,000 permanent jobs, counting the Tidewater and Zapata merger forming the world's largest offshore fleet, establishment of a new Medical research Park, Nissan Chemical joint venture with Union Carbide to develop new chemical products. Twenty-eight companies (oil, food, shipyard and utility oriented) have new or expanded operations in New Orleans or new contract awards in 1993. This expansion resulted in 6,523 new jobs and investments totaling \$2,096,756,400.

**Source of Data (5. Other Socio/Econ): CHAMBER OF COMMERCE, ECONOMICS DEVELOPMENT COUNCIL**

**6. Other.** Identify any contributions of your activity to the local community not discussed elsewhere in this response.

None

**Source of Data (6. Other): N/A**

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. W. RENDIN, CDR, MSC, USN  
NAME (Please type or print)

  
Signature

COMMANDING OFFICER  
Title

14 JULY 1994  
Date

NAVAL BIODYNAMICS LABORATORY, NEW ORLEANS, LA  
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

*[Handwritten Signature]*

\_\_\_\_\_  
NAME (Please type or print)

\_\_\_\_\_  
Signature

CHIEF BUMED/SURGEON GENERAL

7-19-94

\_\_\_\_\_  
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

*[Handwritten Signature]*

\_\_\_\_\_  
NAME (Please type or print)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

8/11/94

DATA CALL 66  
INSTALLATION RESOURCES

181

**Activity Information:**

Activity Name:	NAVAL BIODYNAMICS LABORATORY
UIC:	N66863
Host Activity Name (if response is for a tenant activity):	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA)
Host Activity UIC:	N/A

**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

DATA CALL 66  
INSTALLATION RESOURCES

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

<b>Table 1A - Base Operating Support Costs (Other Than DBOF Overhead)</b>			
<b>Activity Name:</b> NAVAL BIODYNAMICS LABORATORY		<b>UIC:</b> N66863	
Category	FY 1996 BOS Costs (\$000)		
	Non-Labor	Labor	Total
<b>1. Real Property Maintenance Costs:</b>			
1a. Maintenance and Repair	15	0	15
1b. Minor Construction	5	0	5
<b>1c. Sub-total 1a. and 1b.</b>	20	0	20
<b>2. Other Base Operating Support Costs:</b>			
2a. Utilities	115		115
2b. Transportation			
2c. Environmental			
2d. Facility Leases	381		381
2e. Morale, Welfare & Recreation			
2f. Bachelor Quarters			
2g. Child Care Centers			
2h. Family Service Centers			
2i. Administration			
2j. Other (Specify)	93		93
<b>2k. Sub-total 2a. through 2j:</b>	589		589
<b>3. Grand Total (sum of 1c. and 2k.):</b>	609		609

\*2j. CUSTODIAL: 62  
COMMUNICATION: 31  
TOTAL: 93

**DATA CALL 66  
INSTALLATION RESOURCES**

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

<u>Appropriation</u>	<u>Amount (\$000)</u>
1761319	609

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

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

**DATA CALL 66  
INSTALLATION RESOURCES**

<b>Table 1B - Base Operating Support Costs (DBOF Overhead)</b>			
<b>Activity Name:</b> NAVAL BIODYNAMICS LABORATORY		<b>UIC:</b> N66863	
Category	FY 1996 Net Cost From UC/FUND-4 (\$000)		
	Non-Labor	Labor	Total
<b>1. Real Property Maintenance Costs:</b>			
1a. Real Property Maintenance (>\$15K)			N/A
1b. Real Property Maintenance (<\$15K)			
1c. Minor Construction (Expensed)			
1d. Minor Construction (Capital Budget)			
<b>1c. Sub-total 1a. through 1d.</b>			
<b>2. Other Base Operating Support Costs:</b>			
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)			
<b>2m. Sub-total 2a. through 2l:</b>			
<b>3. Depreciation</b>			
<b>4. Grand Total (sum of 1c., 2m., and 3.) :</b>			

**DATA CALL 66  
INSTALLATION RESOURCES**

**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.

<b>Table 2 - Services/Supplies Cost Data</b>	
<b>Activity Name:</b> NAVAL BIODYNAMICS LABORATORY	<b>UIC:</b> N66863
Cost Category	FY 1996 Projected Costs (\$000)
<b>Travel:</b>	81
<b>Material and Supplies (including equipment):</b>	275
<b>Industrial Fund Purchases (other DBOF purchases):</b>	25
<b>Transportation:</b>	16
<b>Other Purchases (Contract support, etc.):</b>	352
<b>Total:</b>	749

**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.

<b>Table 3 - Contract Workyears</b>	
<b>Activity Name:</b> NAVAL BIODYNAMICS LABORATORY	<b>UIC:</b> N66863
Contract Type	FY 1996 Estimated Number of Workyears On-Base
Construction:	
Facilities Support:	
Mission Support:	2
Procurement:	
Other:*	
<b>Total Workyears:</b>	<b>2</b>

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

DATA CALL 66  
INSTALLATION RESOURCES

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: 2

3) Estimated number of contract workyears which would remain in place (i.e., contract would remain in place in current location even if activity were relocated outside of the local area): 0

**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.)
	N/A

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

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. W. RENDIN, CDR, MSC, USN  
NAME (Please type or print)

  
Signature

COMMANDING OFFICER  
Title

14 JULY 1994  
Date

NAVAL BIODYNAMICS 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

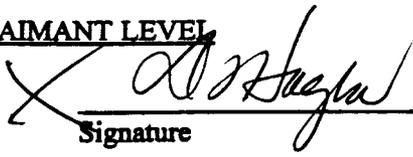
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Date

\_\_\_\_\_  
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

  
\_\_\_\_\_  
Signature

\_\_\_\_\_  
NAME (Please type or print)

CHIEF BUMED/SURGEON GENERAL

7-19-94  
\_\_\_\_\_  
Date

\_\_\_\_\_  
Title

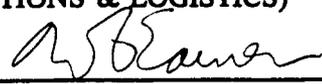
BUREAU OF MEDICINE & SURGERY

\_\_\_\_\_  
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

  
\_\_\_\_\_  
Signature

\_\_\_\_\_  
NAME (Please type or print)

04 AUG 1994  
\_\_\_\_\_  
Date

\_\_\_\_\_  
Title

# Document Separator

# DATA CALL 63 FAMILY HOUSING DATA

181

Information on Family Housing is required for use in BRAC-95 return on investment calculations.

Installation Name:	NBIODYNLAB New Orleans
Unit Identification Code (UIC):	N66863
Major Claimant:	BUMED

Percentage Of Military Families Living on-Base:	22.6
Number of Vacant Officer Housing Units:	0
Number of Vacant Enlisted Housing Units:	0
Fy 1996 Family Housing Budget (\$000):	\$16
Total Number of Officer Housing Units:	6
Total Number of Enlisted Housing Units:	2

NOTE: Closure of this UIC may not result in closure of all housing units.

Note: All data should reflect figures as of the beginning of FY 1996. If major DON installations share a family housing complex, figures should reflect an estimate of the installation's prorated share of the family housing complex.

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

MAJOR CLAIMANT LEVEL

**J. E. BUFFINGTON, RADM, CEC, USN**  
NAME (Please type or print)

Jack Buffington  
Signature

**COMMANDER**  
Title

7/20/94  
Date

**NAVAL FACILITIES ENGINEERING COMMAND**  
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)

W. A. Earner  
Signature

\_\_\_\_\_  
Title

7/25/94  
Date

BRAC-95 CERTIFICATION

Reference: SECNAV NOTE 11000 dtd 8 Dec 93

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."

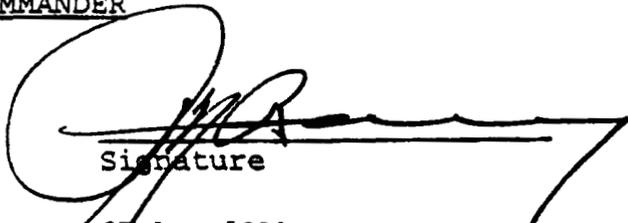
The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

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

ACTIVITY COMMANDER

J. R. REVER  
NAME (Please type of print)  
CAPT. CEC, USN  
COMMANDING OFFICER  
Title

  
Signature  
27 June 1994  
Date

SOUTHNAVFACENGCOM  
Activity

Enclosure (1)

