

DCN 1421

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 of print)

Signature

Title

Date

Activity

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

MAJOR CLAIMANT LEVEL

MARC PELAEZ

NAME (Please type or print)

Signature

CHIEF OF NAVAL RESEARCH

Title

Date

OFFICE OF NAVAL RESEARCH

Activity

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

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

W. A. EARNER

NAME (Please type of print)

Signature

Title

Date

W. A. Earner
8/30/94

**MILITARY VALUE DATA CALL
TECHNICAL CENTERS**

Category	Data Call #5
Technical Center Site	NRL-USRD
Location/Address	Orlando, FL

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MILITARY VALUE MEASURES

MISSION

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

The Underwater Sound Reference Detachment (USRD) is a facility of the Naval Research Laboratory and is physically located in Orlando, Florida. It is assigned as a division of the Warfare Systems and Sensors Research Directorate of NRL.

The mission of USRD is to support NRL in its mission: by serving as the principal activity for the Navy and its contractors in providing accurate calibration, test, and evaluation services on acoustic transducers and materials, in providing a service whereby an inventory of calibrated standard acoustic transducers are maintained for issue, and in performing research and development to advance the state-of-the-art of acoustic measurements and standard transducers; by performing research and development on sonar transduction, and research and development to advance the state-of-the-art in underwater acoustic materials; and by performing such other functions and tasks as directed by higher authority.

The Superintendent of the division is responsible for the planning, coordination, supervision, and control of the research and development program and the administrative and service operations required to support the scientific and technical work performed at the Detachment. He/she directs a research program leading to new or improved techniques and methods for the quantitative measurement of the acoustical and related electrical properties of devices, materials, and media associated with the field of underwater sound and leading to new or improved sonar transducers. In addition to his/her responsibility for the USRD technical program, the Superintendent also acts as Detachment Director. In this role, he/she acts for the Commanding Officer in dealing with local Naval, Federal, and civil activities and personnel on matters relating to USRD support activities and facilities, community, and multi-command issues, and safety and disaster control measures. Area coordination guidance is received from the Commandant, Sixth Naval District.

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.

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

Technical Center Site	NRL-ORLANDO
Functional Support Area	5.1 Sonar Systems
Life Cycle Work Area	6.1

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. 6.51 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) 1176.3

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 For this functional support area - life cycle work area. **Do not** include direct cite funding. \$(K) 0.9

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

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

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

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

Technical Center Site	NRL-ORLANDO
Functional Support Area	5.1 Sonar Systems
Life Cycle Work Area	6.2

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

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 5.99 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) 1174.5

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 For this functional support area - life cycle work area. **Do not** include direct cite funding. \$(K) 89.4

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

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

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

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

Technical Center Site	NRL-ORLANDO
Functional Support Area	5.1 Sonar Systems
Life Cycle Work Area	6.3

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. 44.7 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) 7365.3

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) 1378.7

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. \$(K) 979.2

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

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

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

Technical Center Site	NRL-ORLANDO
Functional Support Area	5.1 Sonar Systems
Life Cycle Work Area	6.4

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. 1.28 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) 297.4

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

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

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

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

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

Technical Center Site	NRL-ORLANDO
Functional Support Area	5.1 Sonar Systems
Life Cycle Work Area	6.6

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. 1.01 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) 196.9

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

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

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

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

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

Technical Center Site	NRL-ORLANDO
Functional Support Area	5.1 Sonar Systems
Life Cycle Work Area	ANALYSIS

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

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 3.27 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) 1013.1

b. **Out-of-House Expenditures.** Provide the total funds expended during FY1993 For this functional support area - life cycle work area. **Do not** include direct cite funding. \$(K) 792.6

c. **Direct Cites.** Provide total direct cite funds expended on contract during FY1993 for this functional support area - life cycle work area. \$(K) 771

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

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

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 NAWC 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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**Table 4.1, General Support Resources for
(Activity: NRL USRD, Orlando, FL) (UIC: N62190) (Note 1)**

Function	Space allocated (Gross SQFT)	Work Years	Civilian Personnel onboard	Contract Work Years	Military Personnel Onboard	
					Off	Enl
ADMINISTRATION						
Command (CO etc.) (Note 1)						
Comptroller						
Admin	1,820	14.2	14			
Human Resources (Note 2)	468	1.0	1			
OPERATIONS SUPPORT						
Supply Management (Note 3)	1,545	5.1	5			
Consolidated Computational Computer Support	600	4.1	4			
Information Systems and Communications	180	1.0	1			
Safety/OSH/Environmental	200	1.0	1			
INFRASTRUCTURE						
Physical Security						
Public Works/Staff Civil Engr						
Fire Protection						
Medical/Dental						
Military Support						
Air/Waterfront Operations						
Other						
TECHNICAL STAFF						
Technical Ops (Note 4)			85	Note 5		
Totals	4,813	26.3	111	Note 5	0	0

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UIC N 62190

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**Table 4.1, General Support Resources for
NRL Underwater Sound Reference Detachment (USRD), Orlando, FL) (UIC: N62190)**

Footnotes:

1. Information reported covers NRL Underwater Sound Reference Detachment (USRD), Orlando, FL, site only, e.g., excludes the Leesburg, FL, detachment, which is part of USRD. In general, field sites are used to conduct research, experiments, and projects that cannot be accommodated at the main site. NRL field sites and detachments are totally integrated within the main site organizational structure, e.g., no Commanding Officer or Officer-In-Charge (OIC), with the exception of the Flight Support Detachment, Patuxent River, MD, which has an OIC. Note also that many field sites do not have separate UICs for financial, plant property, and administrative purposes.
2. The Human Resources Office, NRL Washington, DC, provides support to NRL USRD.
3. Supply management includes commercial contracting functions.
4. Technical operations include direct technical as well as technical support, i.e., production overhead.
5. Contract workyears by function supporting NRL mission operations are not recorded in NRL financial or personnel systems and are therefore not available. Contracts include material, travel, equipment and services for off-site and on-site contractor personnel. Consequently, development of a realistic estimate that would meet BRAC certification requirements within the allowed time constraint was not feasible.

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**Table 4.1, General Support Resources for
(Activity: USRD, Orlando, FL) (UIC:62190) (Note 1)**

Function	Space allocate (Gross SQFT)	Work Years	Civilian Personnel on-board	Contract Work Years	Military Personnel Onboard	
					Off	Enl
ADMINISTRATION						
Command (CO/XO/TD/etc)						
Comptroller						
Admin	1,820	14.2	14			
Human Resources	468	1.0	1			
OPERATIONS SUPPORT						
Supply Management	1,545	5.1	5			
Consolidated Computational Computer Support	600	4.1	4			
Information Systems and Communications	180	1.0	1			
Safety/OSH/Environmental	200	1.0	1			
INFRASTRUCTURE						
Physical Security						
Public Works/Staff Civil Engr						
Fire Protection						
Medical/Dental						
Military Support						
Air/Waterfront Operations						
Other						
TECHNICAL STAFF						
Technical Operations			85	Note 5		
Totals	4,813	26.3	111	Note 5	0	0

Note 1: Information reported covers NRL-USRD, Orlando, FL, site only, e.g., excludes the Leesburg, FL, detachment, which is part of USRD. In general, field sites are used to conduct research, experiments, and projects that cannot be accommodated at the main site. NRL field sites and detachments are totally integrated within the main site organizational structure, e.g., no Commanding Officer or Officer-In-Charge (OIC), with the exception of the Flight Support Detachment, Patuxent River, MD, which has an OIC. Note also that many field sites do not have separate UICs for financial, plant property, and administrative purposes.

Note 2: The Human Resources Office, NRL Washington, DC, provides support to NRL USRD.

Note 3: Supply management includes commercial contracting functions.

Note 4: Technical operations include direct technical as well as technical support (i.e., production overhead).

Note 5: Contract workyears by function supporting NRL mission operations are not recorded in NRL financial or personnel systems and are therefore not available. Contracts include material, travel, equipment and services for off-site and on-site contractor personnel. Consequently, development of a realistic estimate that would meet BRAC certification requirements within the allowed time constraint was not feasible.

R

**Table 4.2, General Support Resources for all Detachments. Activity:
NRL Underwater Sound Reference Detachment (USRD), Orlando, FL (UIC: N62190)**

Footnotes:

1. The Underwater Sound Reference Detachment (USRD) and its detachment at Leesburg, FL, are used to conduct research, experiments, and projects that cannot be accommodated at the main site. USRD is totally integrated within the NRL main site organizational structure, e.g., no Commanding Officer or Officer-In-Charge (OIC), with the exception of the Flight Support Detachment, Patuxent River, MD, which has an OIC. Note also that many field sites do not have separate UICs for financial, plant property, and administrative purposes.
2. Technical operations include direct technical as well as technical support, i.e., production overhead.
3. Contract workyears by function supporting NRL mission operations are not recorded in NRL financial or personnel systems and are therefore not available. Contracts include material, travel, equipment and services for off-site and on-site contractor personnel. Consequently, development of a realistic estimate that would meet BRAC certification requirements within the allowed time constraint was not feasible.

List of Detachments Whose Data is In Table 4.2:

<u>Name and Location</u>	<u>UICs</u>	<u>Civilians On-Board</u>	<u>Military On-Board</u>
NRL USRD Leesburg Facility Okahumpka, FL	N/A	6	0

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Table 4.2, General Support Resources for all Detachments
 (Activity: NRL USRD, Orlando, FL) (UIC: N62190) (Note 1)

Function	Space allocated (Gross SQFT)	Work Years	Civilian Personnel onboard	Contract Work Years	Military Personnel Onboard	
					Off	Enl
ADMINISTRATION						
Command (CO etc.) (Note 1)						
Comptroller						
Admin						
Human Resources						
OPERATIONS SUPPORT						
Supply Management						
Consolidated Computational Computer Support						
Information Systems and Communications						
Safety/OSH/Environmental						
INFRASTRUCTURE						
Physical Security						
Public Works/Staff Civil Engr						
Fire Protection						
Medical/Dental						
Military Support						
Air/Waterfront Operations						
Other						
TECHNICAL STAFF						
Technical Ops (Note 2)			6	Note 3		
Totals	0	0	6	Note 3	0	0

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TABLE 4.2 - See Note.

Table 4.2, General Support Resources for all Detachments
 (Activity: NRL-USRD, Orlando, FL) (UIC: N00173) (Note 1)

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

Note 1. The Underwater Sound Reference Detachment (USRD) and its detachment at Leesburg, FL, are used to conduct research, experiments, and projects that cannot be accommodated at the main site. USRD is totally integrated within the NRL main site organizational structure, e.g., no Commanding Officer or Officer-In-Charge (OIC), with the exception of the Flight Support Detachment, Patuxent River, MD, which has an OIC. Note also that many field sites do not have separate UICs for financial, plant property, and administrative purposes.

Note 2: Technical operations include direct technical as well as technical support, i.e., production overhead.

Note 3: Contract workyears by function supporting NRL mission operations are not recorded in NRL financial or personnel systems and are therefore not available. Contracts include material, travel, equipment and services for off-site and on-site contractor personnel. Consequently, development of a realistic estimate that would meet BRAC certification requirements within the allowed time constraint was not feasible.

R

**Table 4.3, Previous BRAC Impact to General Support Resources for
(Activity: NRL USRD, Orlando, FL) (UIC: N62190)**

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

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**Table 4.3, Previous BRAC Impact to General Support Resources for Activity:
NRL Underwater Sound Reference Detachment (USRD), Orlando, FL (UIC N62190)**

As a result of a review of the Navy's RDT&E infrastructure, effective 1 January 1992 the Naval Research Laboratory, Washington, DC (UIC N00173) and the Naval Oceanographic and Atmospheric Research Laboratory, Stennis Space Center, MS (UIC N68462) were consolidated to form the Department of the Navy corporate laboratory, the Naval Research Laboratory, a single integrated command with one Commanding Officer over all sites, including Orlando, FL.

This decision has been totally implemented; therefore, NRL has no anticipated BRAC impact on NRL USRD and its detachment.

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List of Detachments Whose Data is In Table 4.2:

<u>Name and Location</u>	<u>UICs</u>	<u>Civilians On-Board</u>	<u>Military On-Board</u>
NRL USRD Leesburg Facility Okahumpka, FL	N/A	6	0

**Table 4.3, Previous BRAC Impact to General Support Resources for
(Activity: NRL-USRD, Orlando, FL) (UIC: N62190)**

Function	Space allocated (Gross SQFT)	Work Years	Civi- lian Person -nel on- board	Con- tract Work Years	Military Personnel Onboard	
					Off	Enl
ADMINISTRATION						
Command (CO/XO/ TD/etc.)						
Comptroller						
Admin						
Human Resources						
OPERATIONS SUPPORT						
Supply Management						
Consolidated Computational Computer Support						
Information Systems and Communications						
Safety/OSH/Environm ental						
INFRASTRUCTURE						
Physical Security						
Public Works/Staff Civil Engr						
Fire Protection						
Medical/Dental						
Military Support						
Air/Waterfront Operations						
Other						
TECHNICAL STAFF						
Technical Operations						
Totals						

Table 4.3 - N/A.

R

Table 5.1, Technical Staff Education Level for
 (Activity: NRL - ORL (FTP)) (UIC: N00173)

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	
High School		14	9	6	13	42
B.A./B.S.	2	7	2		7	18
M.A./M.S.	1	2	1	2	3	9
Ph.D./M.D.	2	4	2	2	6	16
Total	5	27	14	10	29	85

Table 5.2, Technical Staff Education Level for all Detachments
 (Parent Activity: NRL - ORL - LEE (FTP)) (UIC: N00173)

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	
High School	1	1			2	4
B.A./B.S.		1				1
M.A./M.S.		1				1
Ph.D./M.D.						0
Total	1	3	0	0	2	6

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5. Technical Staff Qualifications

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

**Table 5.1, Technical Staff Education Level for
(Activity: _____) (UIC: _____)**

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

Table 5.1 - N/A

**Table 5.2, Technical Staff Education Level for all Detachments
(Parent Activity: NRL-ORL (FTP)) (UIC: N00173)**

Highest Degree Attained	Years of Government and/or Military Service					Total
	Less than 3 Years	3-10 Years	11-15 Years	16-20 Years	More than 20 Years	
Grade School						
High School	2	18	13	10	23	66
B.A./B.S		9	3	1	8	21
M.A./M.S	1	3	1	2	4	11
Ph.D./M.D.	2	4	2	2	7	17
Total	5	34	19	15	42	115

R

Table 5.3, Technical Staff Academic Fields for
(Activity: NRL - ORL) (UIC: N00173)

Academic Field	Number
Physics	15
Chemistry	2
Biology	
Mathematics/Statistics/ Operations Research	1
Engineering	4
Medical	
Dental	
Computer Science	
Social Science	
Other Science	
Non-Science	
Total	22

Table 5.4, Technical Staff Academic Fields for all Detachments
(Parent Activity: NRL - ORL - LEE) (UIC: N00173)

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

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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: _____) (UIC: _____)**

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

Table 5.3 - N/A

**Table 5.4, Technical Staff Academic Fields for all Detachments
(Parent Activity: NRL-ORL (FTP)) (UIC: N00173)**

Academic field	Number
Physics	16
Chemistry	2
Biology	
Mathematics/Statistics/ Operations Research	1
Engineering	5
Medical	
Dental	
Computer Science	
Social Science	
Other Science	
Non-Science	1
Total	25

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

NRL-USRD is located in Orlando, FL in a rather quiet residential neighborhood. There is affordable housing nearby with an average commuting time of about 15 minutes. Florida has no state income tax and from a cost of living viewpoint NRL-Orlando is a highly desirable place to live. Orlando, as the world's number one tourist destination, has a world class international airport with direct connections to most major U.S. cities and many foreign cities. Access to sponsors in Washington, DC require about 3 hours of travel. Public schools in the area are adequate and there are three universities within commuting distance. Overall, NRL-Orlando has to be rated as a highly desirable working location.

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.

"Piezoelectric and Dielectric Properties of Calcium and Samarium Modified Lead Titanate Ceramics for Hydroacoustic Applications." by K.M. Rittenmyer and R.Y. Ting, *Ferroelectrics* 110, pp. 171-182, 1990.

"Electrical Resistivity of Carbon -Black-Loaded Rubbers." by Aminabhavi, Cassidy (TRI) and C.M. Thompson, *Journal of Rubber Chemistry and Technology* 63, pp. 456-469, 1990.

"Development of a Structurally Rigid, Acoustically Transparent Plastic." by C.M. Thompson, *JASA* 87(3), pp. 1138-1143, 1990.

"A Planar Array for the Generation of Evanescent Waves." by D.H. Trivett, L.D. Luker, S. Petrie, A.L. Van Buren and J.E. Blue, *JASA* 87(6), pp. 2535-2540, 1990.

"Gel Permeation Chromatographic Analysis of Polyurethane Prepolymer Synthesis Kinetics I. The Effect of Catalyst." by C.M. Thompson, S.G. Taylor and W.W. McGee, *J. Polymer Science Part A: Polymer Chem.*, Vol. 28, pp. 333-344, 1990.

"Uncoupling the Differential Equations Arising from a Technique for Evaluating Indefinite Integrals Containing Special Functions or their Products." by J.C. Piquette, *Quarterly of Applied Mathematics*, XLVII (1), pp. 95-112, 1990.

"Offnormal Incidence Reflection Coefficient Determination for Thick Underwater Acoustic Panels Using A Generalized Onion Method." by J.C. Piquette, *JASA* 87(4), pp. 1416-1427, 1990.

"Analysis of Thermoacoustic Wave Propagation in Elastic Media." by A.J. Rudgers, *JASA* 88(2), pp.1078-1094, 1990.

"The Hydroacoustic Behavior of Piezoelectric Composite Materials." by R.Y. Ting, *Ferroelectrics* 102, pp. 215-224, 1990.

"Dynamic Bulk Modulus of Various Elastomers." by J. Burns, P.S. Dubbelday, and R.Y. Ting, *Journal of Polymer Science, Part B: Polymer Physics*, Vol. 28, pp. 1187-1205, 1990.

5.d. Continued

1991

"Edge-Connected Cross-Electrode Array for Two-Dimensional Projection and Beamforming." by H.C. Schau and J.F. Zalesak, IEEE Trans. on Signal Processing 39(2), pp. 289-297, 1991.

"Nearfield Transmitting and Receiving Properties of Planar Nearfield Calibration Arrays." by A.L. Van Buren, JASA 89(3), pp. 1423-1427, 1991.

"Constrained-Layer Damping Analysis for Flexural Waves in Infinite Fluid-Loaded Plates." by P.S. Dubbelday and L. Fausett, JASA 90(3), pp. 1475-1487, 1991.

"Algorithm-Based Method for Suppressing the Transmission of Sound in a Water-Filled Waveguide." by P.S. Dubbelday, Journal of Intell. Mater. Syst. & Struct. 2, pp. 129-147, 1991.

"Procedure For the In-Situ Calibration of Sonar Transducer." by A.L. Van Buren, JASA 90(1), pp. 48-52, 1991.

"Free-Field Acoustic Calibration of Long Underwater Acoustic Arrays in a Closed Chamber." by L.D. Luker and J.F. Zalesak, JASA 90(5), pp. 2652-2657, 1991.

"Development of Seawater-Resistant Polyurethane Elastomers for Use as Sonar Encapsulants." by G.M. Stack and Miller/Chang, J. Polymer Science 42(4), pp. 911-923, 1991.

"A Method for Symbolic Evaluation of Indefinite Integrals Containing Special Functions or Their Products." by J. C. Piquette, J. Symbolic Computation 11, pp. 231-249, 1991.

"The ONION Method: A Panel Measurement Method Based on Least Squares Fitting to Experimental Waveforms." by J.C. Piquette, Journal Wave-Material Interaction 5&6(1), pp. 39-54, 1991.

"Comment on 'Sound Scattering of a Spherical Wave Incident on a Cylinder [JASA 87, 1871-79, 1990, by Li & Ueda.]" by J.C. Piquette, JASA 89(3), p. 1462, 1991.

"Technique for Detecting the Presence of Finite Sample-Size Effects in Transmitted-Wave Measurements Made on Multi-Layer Underwater Acoustic Panels." by J.C. Piquette, JASA 90(5), pp. 2652-2657, 1991.

1992

"Dielectric And Viscoelastic Properties Of Some Meta-Tetramethyl Xylene Diisocyanate-Based Polyurethanes As A Function Of Sample Composites." by R.N. Capps, G.M. Stack, M.Q. Samuels and L.L. Beumel, Journal of Applied Polymer Science, Vol. 45, pp. 1177-1188, 1992.

"Dynamic Bulk Modulus of Soft Elastomers." by P.S. Dubbelday and J. Burns, Journal of Wave-material Interaction 5&6, pp. 181-120, 1992.

"Poisson's Ratio of Foamed Aluminum Determined by Laser Doppler Vibrometry." by P.S. Dubbelday, JASA 91(3), pp. 1737-1744, 1992.

5.d. Continued

"Direct Measurements of the Temperature-Dependent Piezoelectric Coefficients of Composite Materials by Laser Doppler Vibrometry." by K.M. Rittenmyer and P.S. Dubbelday, JASA 91(4), pp. 2254-2260 Part 1, 1992.

"Near-Field Calibration Arrays for Acoustic Wave-Field Determination." by A. L. Van Buren, IEEE Vol. 41(1), pp. 22-26, 1992.

"Equivalent Networks for Representing the Two-Dimensional Problem of Dilatational and Shear Waves in Infinite Elastic Plates and Stratified Elastic Media." by A.J. Rudgers, JASA 91(1), pp. 28-38, 1992.

"Evaluation of the Properties of 1-3 Piezocomposite of a New Lead Titanate In Epoxy Resins." by R.Y. Ting, Shaulov and Smith, FERROELECTRICS Vol. 132, pp. 69-77, 1992.

"The Effect of Annealing on the Thermal and Dynamic Mechanical Properties of Paratetramethyl Xylene Diisocyanate-Based Polyurethanes." by G.M. Stack and L.L. Beumel, Journal of Applied Polymer Science, Vol. 44, pp. 305-317, 1992.

"Determination of the Complex Dynamic Bulk Modulus of Rubbery Materials Using an Inverse Scattering Method." by J.C. Piquette, Journal of Wave-Material Interaction 5&6, pp. 211-224, 1992.

"Method for Transducer Transient Suppression: I. Theory." by J. C. Piquette, JASA 92(3), pp. 1203-1213, 1992.

"Method for Transducer Transient Suppression: II. Experiment." by J. C. Piquette, JASA 92(3), pp. 1214-1221, 1992.

"Transmission Coefficient Measurement and Improved Sublayer Material Property Determination for Thick Underwater Acoustic Panels: A Generalization and Improvement of the Onion Method." by J.C. Piquette, JASA 92, pp. 468-477, 1992.

1993

"Constrained-Layer Damping Analysis for Extensional Waves Infinite Fluid-Loaded Plates." by P.S. Dubbelday, JASA 93(4), pp. 1927-1935, 1993.

"Applications of the Method for Transducer Transient Suppression to Various Transducer Types." by J. C. Piquette, JASA 94(2) Part. 1, pp. 646-651, 1993.

"Full-Newton and Constraint Methods for Semilinear Signal Problems." by P.L. Ainsleigh and J.D. George, IEEE T SIG PROCESS 41(4), pp. 1689-1692, 1993.

"Letter-to-the-Editor. "Comment on "Time Domain Doppler Estimators of the Amplitude of Vibrating Targets." by J.C. Piquette and A.L. Van Buren, JASA 93(1), p. 559, 1993.

"An Analytical Evaluation of Turbulence-Induced Flexural Noise in Sonar Arrays." by R.E. Montgomery and Dubus, JASA 94(3), pt. 1, pp.1688-1699, 1993.

5.d. Continued

"Approximate Evaluation of the Spectral Density Integral for a Large Planar Array of Rectangular Sensors Excited by Turbulent Flow." by R.E. Montgomery and W. Thompson, JASA 93(6), pp. 3201-3207, 1993.

1994

"A New Concept of a Low Frequency Underwater Sound Source." by D.M. Donskoy and J.E. Blue, JASA 95(4), p. 197, 1994.

"Composite Piezoelectric Materials for Transduction." by Robert Y. Ting, UK Applied Acoustics 41, pp. 325-335, 1994.

"Electrostrictive Ceramics for Underwater Transducer Applications." by K.M. Rittenmyer, JASA 95(2), pp. 849-856, 1994.

"Explicit Expression for Certain Indefinite Integrals Containing the Product of Two Bessel Functions or the Square of a Legendre Function." by J.C. Piquette, Utilitas Mathematica 43 (1993), pp.47-63, 1994.

"Gel Permeation Chromatographic Analysis of Polyurethane Prepolymer Synthesis Kinetics II. The Effects of Stoichiometry and Type of Diisocyanate." by C. M. Thompson, J. of Polymer Science: Part A: Polymer Chem., V. 32, pp. 113-120, 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.

None.

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.

Mr. David H. Trivett, Mr. L. Dwight Luker, Mr. Sheridan Petrie, Dr. Arnie Lee Van Buren, Dr. Joseph E. Blue, Alan Berman Research Publication Award, "A planar array for the generation of evanescent waves," JASA, Vol. 87, No. 6, pp. 2535-2540, June 1990.

Dr. Robert Ting, Technology Transfer Award, 1991

Mr. L. Dwight Luker, Dr. Joseph F. Zalesak, Alan Berman Research Publication Award, "Free-field acoustic calibration of long underwater acoustic arrays in a closed chamber," JASA, Vol. 90, No. 5, pp. 2652-2657, November 1991.

5.h. Continued

Dr. Jean C. Piquette, Alan Berman Research Publication Award, "Method for transducer transient suppression. I: Theory," JASA, Vol. 92, No. 3, pp. 1203-1213, September 1992 and "Method for transducer transient suppression. II: Experiment," JASA, Vol. 92, No. 3, pp. 1214-1221, September 1992.

Dr. Pieter S. Dubbelday, Dr. Kurt M. Rittenmyer, Alan Berman Research Publication Award, "Direct measurement of the Temperature-dependent piezoelectric coefficients of composite materials by laser Doppler vibrometry," JASA, Vol. 91, No. 4, Pt. 1, pp. 2254-2260, April 1992.

Dr. Robert E. Montgomery, Alan Berman Research Publication Award, "An analytical evaluation of turbulence-induced flexural noise in planar arrays of extended sensors," JASA, Vol. 94, No. 3, Pt. 1, pp. 1688-1699, September 1993.

Dr. Corley Thompson, Technology Transfer Award, 1993

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

<u>Issue Date</u>	<u>Patent No.</u>	<u>Title</u>
19910101	4982386	An Underwater Acoustic Waveguide Transducer for Deep-Ocean Depth
19901113	07/617469	Method and Appartus for Detecting and transducing Intersaccular

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

<u>File Date</u>	<u>Serial No.</u>	<u>Title</u>
19900531	07/532251	An Underwater Acoustic Waveguide Transducer for Deep-Ocean Depth
19901113	07/617469	Method and Appartus for Detecting and transducing Intersaccular
19930430	08/054485	Low-Frequency Flex-Beam Underwater Acoustic Transducer

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.

5. Continued

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

None.

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

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.

ITEM: Transducers For the Detection of Intercranial Aneurysms

DESCRIPTION: Developed for, and in use by, the University of Pittsburgh, School of Medicine, Department of Neurological Surgery.

PUBLISHED REFERENCE: "Method and Apparatus for Detecting and Transducing Intersaccular Acoustic Signals", A.C. Tims and T.H. Henriquez. 14 July 1992.

ITEM: Shock hardened, high-reliability, low-cost hydrophones

DESCRIPTION: Shock hardened, high-reliability, low-cost hydrophones for use in oil exploration, last commercially manufactured by Geosource, Incorporated.

PUBLISHED REFERENCE: "Shock Hardened Hydrophone", A.C. Tams and T.A. Henriquez 1 October 1985.

ITEM: Chorobutyl Rubber Formulation Used for Constrained-Layer Damping, TRIDENT Propeller

PUBLISHED REFERENCE: "Dynamic Mechanical Testing: Application of Polymer Development to Constrained-layer Damping", R.N. Capps and L. Beumel, in Sound and Vibration Damping with Polymers, ACS Symposium Series, American Chemical Society, Washington, D.C. (1990)

ITEM: Development Of Towed Array Hose Wall Materials And Reinforcing Cord For Use In The Ts-29 Towed Array.

PUBLISHED REFERENCE: "Exploratory Materials Development for Towed Sonar Arrays", R. N. Capps, Journal of the Acoustical Society of America, Vol 94, pg 1840 (1993)

ITEM: Specifications Developed For Navsea To Allow Procurement Of Higher Reliability Dt-276 Hydrophones At A Reduced Life Cycle cost.

5.o. Continued

PUBLISHED REFERENCE: "Critical item specification for DT-276/BQR-7B Hydrophone (U)", Naval Sea Systems Command, Washington, D.C., Rev. B, Nov 1981 (CONFIDENTIAL)

ITEM Specifications And Testing Methods To Ensure The Procurement Of High Reliability, Low Life Cycle Cost Transducers For Submarine Spherical Arrays.

PUBLISHED REFERENCE: "Specifications for TR-3170 Transducer Element", Naval Sea Systems Command, Washington, D.C., May 1986 (CONFIDENTIAL)

ITEM: Neoprene 51095 Rubber Developed To Prevent Bond Delamination And Corrosion In Sonar Transducer Applications; Used In The Acoustic Window On The Tr-317 Transducer (The Most Numerous Transducer In Fleet Service).

PUBLISHED REFERENCE: "A Neoprene with Optimized Bondability for Sonar Transducer Applications", C.M. Thompson and L. Beumel, NRL Memorandum Report 5818, Naval Research Laboratory, Washington, D.C. 5 June 1987.

ITEM: Ethylene Propylene Rubber (Epdm-Rle) Developed For, And Used As, The Acoustic Window On The Tr-302 Depth Finder Sonar.

PUBLISHED REFERENCE: "Development of an Improved EPDM Elastomer with Improved Bondability for Use in Sonar Transducers", NRL Memorandum Report 5989, Naval Research Laboratory, Washington, D.C., 30 July 1987

ITEM: High Performance Polymer Composite Material For Application As A Non-Corroding Mounting Bracket For Shipboard Sonar Transducers. First Full Ship-Set For The Tr-317 (An/Bqq-5/6) Presently Undergong Tests.

PUBLISHED REFERENCE: "Non-Metallic Transducer Mounting Brackets (AN/BQQ-5/6 Spherical Array Transducers)", NRL Memorandum Report 6969, Naval Research Laboratory, Washington, D.C., 15 June 1992.

ITEM: Silicone Rubber With Improved Aging Characteristics For Use In Shock Mounts For Trident Missile Launchers. Developed In Conjunction With Stopchoc And Vibrachoc, Inc.

PUBLISHED REFERENCE: No "formal documentation becuase on non-disclosure agreement.

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.

6. Continued

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

Technical Center Site	NRL-ORLANDO
Facility/Equipment Nomenclature or Title	Acoustical Materials Development Facility

1. To provide the Navy with in-house capability for development and characterization of natural and synthetic rubbers, urethanes and other elastomeric materials for underwater acoustical applications.
2. Class 3 Property - portable
3. Approximately \$2M.
4. Less than 2 tons, less than 500 ft³
5. None
6. None
7. Temperature and humidity
8. This facility was developed over the period of FY 82-92 as an integral part of the Navy's Center of Expertise on transducer and underwater acoustic metrology at NRL-Orlando site. To remove and separate from the related transducer development and metrology functions will lose the unique coherent and integration of Navy's overall science and technology base in transduction and acoustical materials.
9. Over a period of nearly a decade, the equipments were gradually procured or designed and fabricated on site for the special R&D purposes.
10. 1.1 undersea platforms, 2.4 torpedoes, 2.5 mines, 5.1 sonar sys., 5.5 ocean surv.
11. On the average, an effort equivalent to ten man-years has been involved in the utilization of this facility with funding sources ranging from 6.1, 6.2, and 6.3 to OPN/OMN for the development of transducer elastomers, acoustic polyurethanes, towed array hoses, acoustic damping, SHT and shock-mount materials, piezoelectric composites and electrostrictive ceramics for sonar applications.
12. Due to the Navy's de-emphasis of ASW and reduction in sonar transducer procurement, the projected utilization in the polymer-related equipments will be decreased, whereas that for the electro-ceramics facility will remain stable. The total utilization is expected to be at approximately six man-year level.
13. In FY94 the total number of personnel involved is eight.
14. Estimated to be six.
15. None.

6. Continued

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

Technical Center Site	NRL-ORLANDO
Facility/Equipment Nomenclature or Title	Anechoic Tank Facility

1. Provide accurate calibration, test, and evaluation measurements of underwater acoustic devices and related materials under ocean temperature and hydrostatic pressure conditions.
2. Fixed.
3. \$25M.
4. 1,500,000 lbs; 510,000 cf.
5. None.
6. A/C power must be properly conditioned and shielded to prevent low-frequency interference with electroacoustic measurements. The facility must have special foundations and building superstructure to support two large pressure tanks weighing 200,000 lbs and 990,000 lbs, respectively, and ancillary equipment including overhead cranes and hoists up to 25 ton capacity;
7. The electronic and computer test equipment must be located in a temperature and humidity controlled environment.
8. The massiveness of the tanks and the interlaced nature of the tanks and the building superstructure would make this facility extremely difficult and expensive to relocate. Just the delivery of the larger tank in 1990 cost \$1M. Replication of the facility would be equally difficult. Even assuming a contractor could be found to fabricate a replacement for the larger tank, it would likely cost close to \$20M and require 3 to 4 years. This tank is one of a kind; its fabrication extended the state of the art in the manufacture of water-filled pressure tanks by having a rapid access port nearly half as wide as the cylindrical diameter of the tank for an operating pressure of 3000 psi. It is monolayer in construction, unlike nuclear reactor vessels that are multilayer. Monolayer tank construction eliminates interfering wall noise that is generated while the pressure is being changed in a multilayer tank, for example, when the tank is pressure cycled to simulate the ascent and descent of submarines and other submersibles. Pressure cycling tests are necessary to determine if devices and materials intended for mounting on the exterior of the hull emit unacceptable high levels of extraneous noise when the submarine changes depth. No other facility exists that allows measurements under ocean conditions on devices and acoustic coating samples as large as 1.8 m on a side. Loss of this facility would cost the Navy its ability to properly test many critical Navy underwater acoustic devices and related materials under realistic ocean conditions. Examples include the ADCAP torpedo sonar and acoustic hull treatments for the New Attack Submarine.
9. The first pressure tank was delivered by rail and truck in 1950 and the main NRL, Orlando building was constructed around it. The second large pressure tank was delivered by a combination

6. Continued

of boat, rail, and special 144-wheel road vehicle and located next to the main building where a building addition was erected around the tank to extend the anechoic Tank Facility. Ancillary equipment has been developed or upgraded on a continuing basis at Orlando since 1950.

10. 1.1 Undersea Platforms, 2.4 Torpedoes, 2.5 Mines, 5.1 Sonar Systems, 5.5 Ocean Surveillance

11. 1840 hours per year of active usage of the facility including maintenance time.

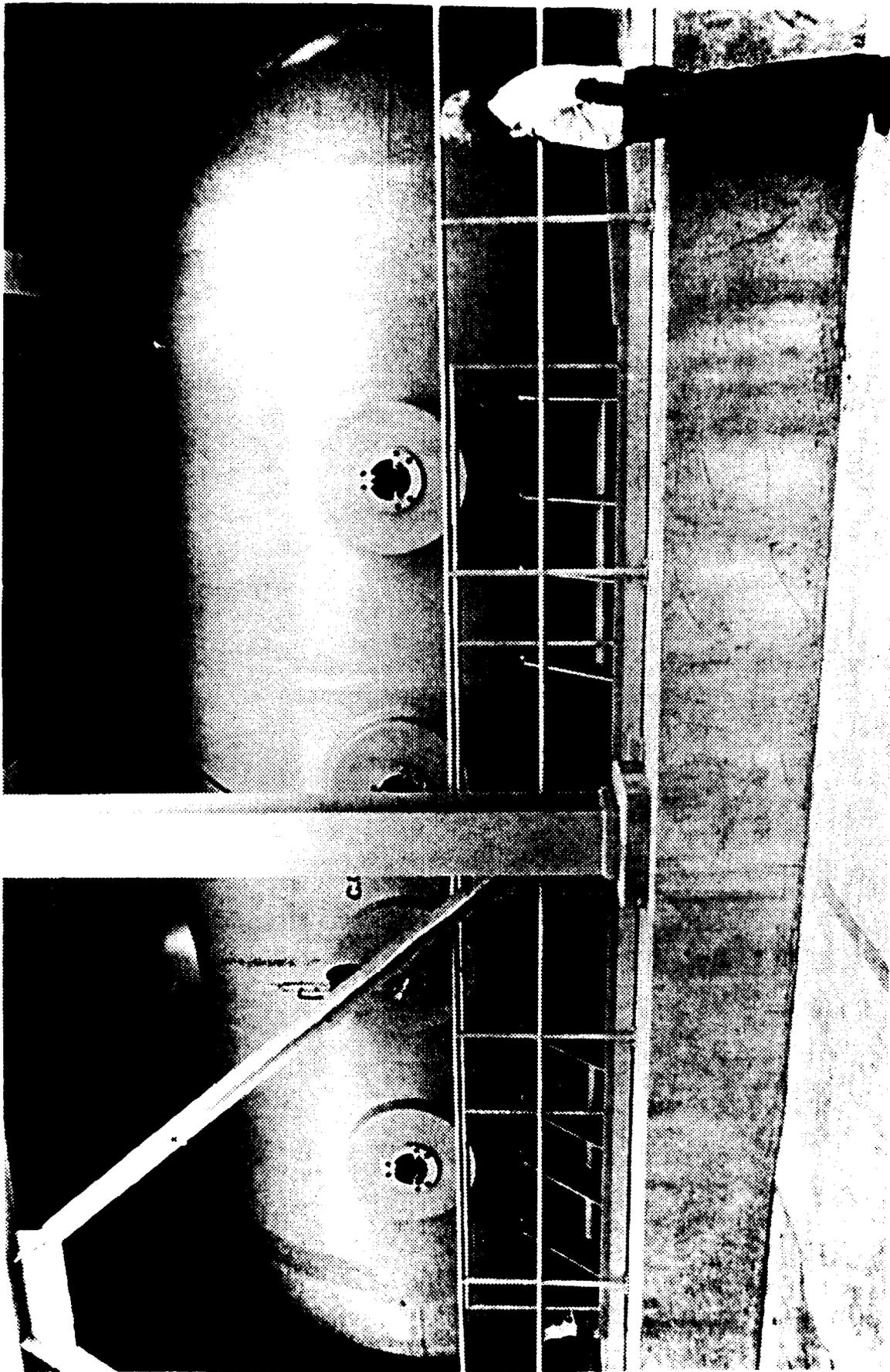
12. Fiscal Year:	FY94	FY95	FY96	FY97
hours of usage:	1600	1600	1600	1600

13. Seven people involved. Estimate 4.5 WY of effort.

14. Eight people involved. Estimate 1.5 WY of effort.

15. See attached photograph of the larger pressure tank after delivery to Orlando but before construction of the surrounding building.

ANECHOIC TANK FACILITY



6. Continued

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

Technical Center Site	NRL-ORLANDO
Facility/Equipment Nomenclature or Title	Low-Frequency Facility

1. Provide accurate low-frequency calibration, test, and evaluation measurements of hydrophones (or reciprocal transducers in the hydrophone mode) and related materials over a broad range of ocean temperature and hydrostatic pressure conditions.
2. Fixed.
3. \$4M.
4. 65,000 lbs; 24,000 cf.
5. None.
6. A/C power must be properly conditioned and shielded to prevent low-frequency interference with electroacoustic measurements. The test chambers require special isolation mounting structures to eliminate acoustic interference from ground-borne noise. The entire equipment enclosure is custom engineered and fabricated to accommodate the test vessels, equipment handling, water pressurization and temperature control and stability, and supporting equipment.
7. The electronic and computer test equipment must be located in a temperature and humidity controlled environment. The facility must be located in a low air-borne acoustic noise environment.
8. This facility could be relocated with moderate difficulty. It could also be replicated with moderate to extreme difficulty, the difficulty coming from the fact that most of the components are one-of-a-kind that are unavailable commercially. Loss of this facility would cost the Navy its ability to properly test many critical Navy underwater acoustic devices and related materials at low frequency and under realistic ocean conditions. Examples include SOSUS hydrophones and acoustic hull treatments for the New Attack Submarine.
9. The test chambers were transported from contractor sites to NRL, Orlando by truck (1964, 1969, and 1982). Ancillary equipment has been developed or upgraded on a continuing basis at Orlando since 1950.
10. 1.1 Undersea Platforms, 2.4 Torpedoes, 2.5 Mines, 5.1 Sonar Systems, 5.5 Ocean Surveillance
11. 760 hours per year of active usage of the facility including maintenance time.
12. Fiscal Year: hours of usage:

FY94	FY95	FY96	FY97
1600	1800	1800	1800

6. Continued

13. Six people involved. Estimate 3 WY of effort.

14. Eight people involved. Estimate 0.5 WY of effort.

15. See attached photograph where the building housing the facility is indicated in an aerial view taken in 1986.

LOW-FREQUENCY FACILITY



6. Continued

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

Technical Center Site	NRL-ORLANDO
Facility/Equipment Nomenclature or Title	Leesburg Facility

1. Provide accurate open-water calibration, test, and evaluation measurements of underwater acoustic devices and related materials, primarily in the infrasonic and audio frequency ranges.
2. Fixed.
3. \$10M.
4. 140,000 lbs; 8,100,000 cf.
5. None.
6. A/C power must be properly conditioned and shielded to prevent low-frequency interference with electroacoustic measurements.
7. The 60-m deep spring-fed lake that is the heart of the facility -provides a combination of ideal environmental conditions that would be difficult and very expensive to duplicate. First the lake is located in a temperate climate so that measurements can be made easily all year. Second, the lake water is maintained isothermal throughout at the same temperature all year by a 6 million gallon per day flow from an oxygen-free spring source. Third, the acoustic noise in the facility is about 10 decibels below sea-state zero. This extremely quiet condition allows very accurate measurements at low-signal levels, such as are found during self-noise measurements of sonar equipment. Fourth, virtually no aquatic life exists below 5 m, avoiding potential interference with measurements. Fifth, the depth of the lake is unusually large by Florida standards. This allows measurements as low as 5 Hz on acoustic devices such as towed arrays and modules. An additional environmental control condition is that the electronic and computer test equipment must be located in a temperature and humidity controlled building.
8. A Coast and Geodetic survey of springs has not revealed any similar spring throughout the U.S. The only way to duplicate the conditions would be with a very expensive, large temperature controlled water tank. If the measurements are made very deep in a northern lake where isothermal water exists, they become difficult and quite expensive in order to obtain sufficient positioning stability for accurate measurements. Loss of this facility would cost the Navy its ability to properly test many critical Navy underwater acoustic devices such as the TB-16, TB23, and TB-29 submarine towed arrays and modules and the SQR-19 surface ship towed array.
9. The floating pier structure was transported by truck to the site in 1967. Supporting buildings were constructed on site in the 1970's. Ancillary equipment that has been developed or upgraded on a continuing basis at the Orlando site since the facility was established in 1967 was usually delivered by truck or car.

6. Continued

10. 1.1 Undersea Platforms, 2.4 Torpedoes, 2.5 Mines, 5.1 Sonar Systems, 5.5 Ocean Surveillance

11. 2920 hours per year of active usage of the facility including maintenance time.

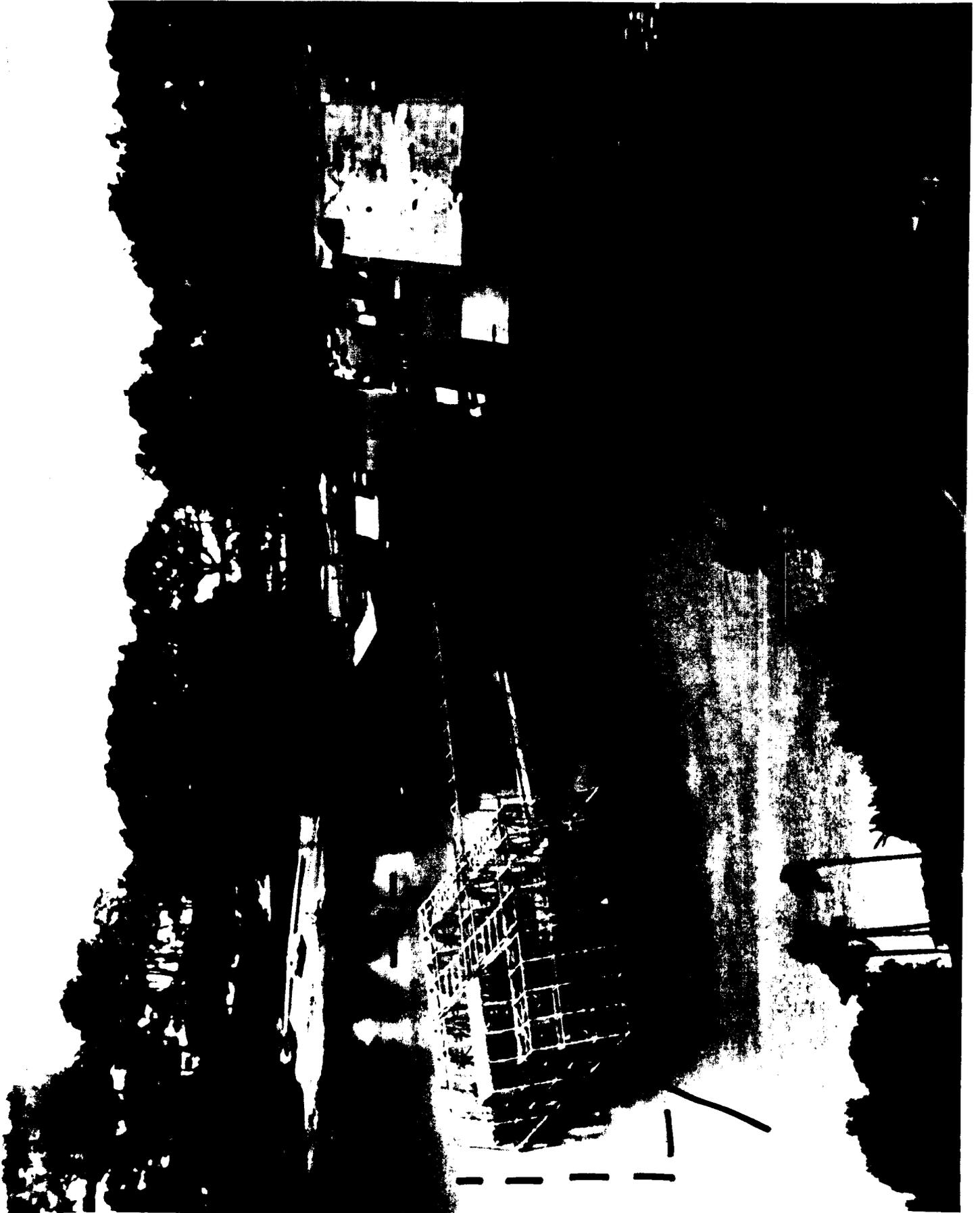
12. Fiscal Year:	FY94	FY95	FY96	FY97
hours of usage:	2500	2500	2250	2250

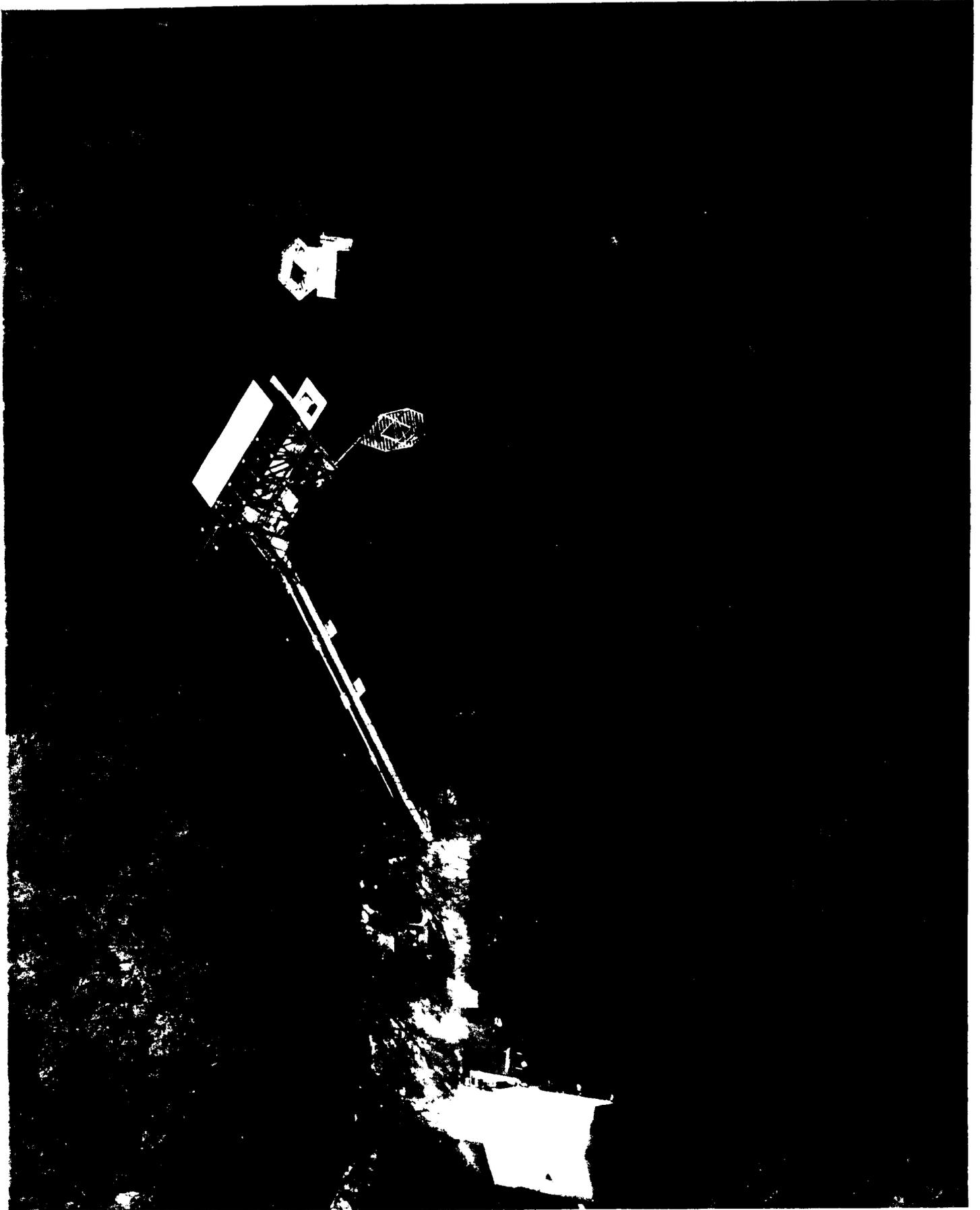
13. Nine people involved. Estimate 6 WY of effort.

14. Eight people involved. Estimate 1.5 WY of effort.

15. See attached aerial photograph taken in 1986.

ORLANDO LAKE FACILITY





6. Continued

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

Technical Center Site	NRL-ORLANDO
Facility/Equipment Nomenclature or Title	Lake Facility

1. Provide accurate open-water calibration, test, and evaluation measurements of underwater acoustic devices and related materials, primarily in the audio and ultrasonic frequency ranges.
2. Fixed.
3. \$15M.
4. 280,000 lbs; 10,000,000 cf.
5. None.
6. A/C power must be properly conditioned and shielded to prevent low-frequency interference with electroacoustic measurements. Fixed pier structure necessary for stable platform for ultrasonic measurements.
7. Electronic and computer test equipment must be located in a temperature and humidity controlled building.
8. This facility could be replicated with only moderate difficulty.
9. Fixed pier structure was assembled on site in 1950. Supporting buildings located on the pier have been constructed or modified on site since that time. Ancillary test equipment has been developed and upgraded on-site on a continuing basis since the facility was established.
10. 1.1 Undersea Platforms, 2.4 Torpedoes, 2.5 Mines, 5.1 Sonar Systems, 5.5 Ocean Surveillance
11. 1700 hours per year of active usage of the facility including maintenance time.
12. Fiscal Year: FY94 FY95 FY96 FY97
 hours of usage: 1600 1500 1600 1600
13. Seven people involved. Estimate 4 WY of effort.
14. Eight people involved. Estimate 1 WY of effort.
15. See attached aerial photograph taken in 1986.

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.

N/A

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.

Jacksonville Naval Air Station - 120+ miles

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?

NRL-USRD = 2; weight = 0.001 tons

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.**

Orlando, FL The Underwater Sound Reference Detachment (USRD) is located adjacent to two interference-free lakes near Orlando. USRD's mission requires specialized facilities for the test and calibration of acoustic transducers and advanced acoustic materials. These include year-round access to a body of relatively quiet water that is free from significant temperature variations. The Orlando site meets all requirements. These sites were sought and developed by Bell Labs during WWII and turned over to the Navy for operation shortly thereafter. The location provides a national "Bureau of Standards-like" capability for which NRL is uniquely chartered in the nation.

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

Orlando, FL None. The USRD's customers are the Naval Warfare Centers, Fleet commands, and Navy contractors, and are located throughout the world. Its location is principally dependent on natural environmental advantages, not proximity to customers.

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.

N/A

10. Mobilization Responsibility and Capability

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

N/A

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

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

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

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

N/A

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

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

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

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

N/A

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

N/A

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

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

N/A

QUALITY OF LIFE

12. Military Housing

(a) Family Housing:

(1) Do you have mandatory assignment to on-base housing?

No

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

N/A

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:

N/A

a. Facility type/code: N/A

b. What makes it inadequate? N/A

c. What use is being made of the facility? N/A

d. What is the cost to upgrade the facility to substandard? N/A

e. What other use could be made of the facility and at what cost?
N/A

f. Current improvement plans and programmed funding: N/A

g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? N/A

12. Continued

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

N/A

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

(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.

N/A

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)?

N/A

¹As of 31 March 1994.

12. Continued

(7) Provide the utilization rate for family housing for FY93.

N/A

Type of Quarters	Utilization Rate
Adequate	
Substandard	
Inadequate	

(8) As of 31 March 1994, have you experienced much of a change since FY93? If so, why? If occupancy is under 98% (or vacancy over 2%), is there a reason?

N/A

(b) **BEQ:**

(1) Provide the utilization rate for BEQs for FY93.

N/A

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?

N/A

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

N/A

12. Continued

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

N/A

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

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

N/A

(c) **BOQ:**

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

N/A

Type of Quarters	Utilization Rate
Adequate	
Substandard	
Inadequate	

(2) As of 31 March 1994, have you experienced much of a change since FY93? If so, why? If occupancy is under 95% (or vacancy over 5%), is there a reason?

N/A

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

N/A

12. Continued

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

N/A

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

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

N/A

(d) BOO/BEO Housing and Messing

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

N/A

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:

N/A

a. Facility type/code:

b. What makes it inadequate?

12. Continued

- c. What Use Is Being Made Of The Facility?
- d. What Is The Cost To Upgrade The Facility To Substandard?
- e. What Other Use Could Be Made Of The Facility And At What Cost?
- f. Current Improvement Plans And Programmed Funding:
- g. Has This Facility Condition Resulted In C3 Or C4 Designation On Your Baserep?

(3) Provide data on the BOQs and BEQs projected to be assigned to your plant account in FY97. 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.

N/A

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:

N/A

- 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?

12. Continued

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

N/A

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:

N/A

- a. Facility type/code:
- b. What makes it inadequate?
- c. What use is being made of the facility?
- d. What is the cost to upgrade the facility to substandard?
- e. What other use could be made of the facility and at what cost?
- f. Current improvement plans and programmed funding:
- g. Has this facility condition resulted in c3 or c4 designation on your baserep?

(7) Provide data on the messing facilities projected to be assigned to your plant account in FY97.

N/A

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

12. Continued

(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:

N/A

- a. Facility type/code:
- b. What makes it inadequate?
- c. What use is being made of the facility?
- d. What is the cost to upgrade the facility to substandard?
- e. What other use could be made of the facility and at what cost?
- f. Current improvement plans and programmed funding:
- g. Has this facility condition resulted in c3 or c4 designation on your baserep?

13. **MWR Facilities.** For on-base MWR facilities² 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.

N/A

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		

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?
N/A

²Spaces designed for a particular use. A single building might contain several facilities, each of which should be listed separately.

14. Base Family Support Facilities and Programs.

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

N/A

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:

N/A

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.

N/A

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

N/A

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).

N/A

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	PN	
Classrm/Auditorium		

15. Metropolitan Areas

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

City	Distance (Miles)
Orlando	*
Tampa	60
Daytona Beach	40

*USRD located in Orlando, FL

16. VHA

Standard Rate VHA Data for Cost of Living

N/A

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

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.

ORLANDO SITE Type Rental	Average Monthly Rent		Average Monthly Utilities Cost
	Annual High	Annual Low	
Efficiency	390	360	60
Apartment (1-2 Bedroom)	500	415	75
Apartment (3+ Bedroom)	600	500	100
Single Family Home (3 Bedroom)	837	532	125
Single Family Home(4+Bedroom)	875	620	150
Town House (2 Bedroom)	625	455	85
Town House (3+ Bedroom)	760	550	100
Condominium (2 Bedroom)	700	525	80
Condominium (3+ Bedroom)	775	575	85

SOURCE: Rammada Properties Real Estate; Coldwell Bankers, Orange/Seminole County; Prudential Florida Realty; Osceola Realty; Greater Orlando Association of Relators.

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

ORLANDO SITE Type Rental	Percent Occupancy Rate
Efficiency	95
Apartment (1-2 Bedroom)	95
Apartment (3+ Bedroom)	95
Single Family Home (3 Bedroom)	95
Single Family Home(4+Bedroom)	95
Town House (2 Bedroom)	95
Town House (3+ Bedroom)	95
Condominium (2 Bedroom)	N/A
Condominium (3+ Bedroom)	95

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

ORLANDO SITE Type of Home	Median Cost
Single Family Home (3 Bedroom)	82,712
Single Family Home(4+Bedroom)	101,799
Town House (2 Bedroom)	45,000
Town House (3+ Bedroom)	63,000
Condominium (2 Bedroom)	50,640
Condominium (3+ Bedroom)	64,755

(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.

ORLANDO SITE Month	Number of Bedrooms		
	2	3	4
January - 94			
February - 94			
March - 94			
April - 93			
May - 93			
June - 93	with = 3506 w/o = 556		
July - 93	with = 3547 w/o = 568		
August - 93	with = 3549 w/o = 591		
September - 93	with = 3587 w/o = 594		
October - 93	N/A		
November - 93	with = 3613 w/o = 613		
December - 93	with = 3479 w/o = 581		

Note: Only 6 months data available. Number of homes available are listed for E-5 BAQ/VHA with dependents and without dependents.

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

Unknown - other than large increase in population due to climate and recreation.

18. Sea Intensive Rating

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

N/A

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

19. Commute

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

ORLANDO SITE Location	% Employees	Distance (mi)	Time(min)
Orange County	88%	20	30

SOURCES: Defense Civilian Personnel Data System (DCPDS), Pensacola Payroll Office, Household Goods Carriers' Bureau Mileage Guide No. 15, Official Table of Distances, Northern American Road Atlas.

20. Educational Opportunities

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
Lake Highland (Orange)	Private	Age 4 - Grade 12	No	4500-6000	1033	100%	School
Saint Charles (Orange)	Parochial	Age 3 - Grade 8	No	mbrs: 1650 non: 2400	N/A	N/A	School
Orange County	Public	K - 12	Note 1	N/A	885	79%	Cnty Relation Office
All Souls (Seminole)	Parochial	Age 3 - Grade 8	No	mbrs: 1580 non: 1640	N/A	N/A	School
Harbor School (Seminole)	Private	Grades 1 - 8	Note 2	4850	N/A	N/A	School
Seminole County	Public	Pre K - Grade 12	Note 1	N/A	N/A	N/A	Cty Bd. of Ed.
Calvery Christian Aca. (Osceola)	Parochial	Age 4 - Grade 12	No	1800	N/A	80%	Academy
Osceola County	Public	K - 12	Note 3	N/A	822	24%	Cty Supt of Ed.

Note 1: Mentally handicapped; emotionally handicapped; learning disabled; hearing impaired; visually impaired; speech and language impaired; physically impaired; hospital/homebound; autistic; gifted and occupational/physical therapy.

Note 2: Facility is geared toward teaching children with Learning Disabilities (specifically Attention Deficit Disorder). Only students with LD attend this school.

Note 3: Educable mentally handicapped; trainable mentally handicapped; physically impaired; traumatic brain injured; occupational/physical therapy; speech, language and hearing impaired; deaf; developmentally delayed; visually impaired; emotionally handicapped; specific learning disability; gifted; profoundly mentally handicapped; dual-sensory impaired and other instructional programs such as English for speakers of other languages, drop-out prevention, pregnant teens, drop-out retrieval and vocational.

20. Continued

(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.

ORLANDO SITE Institution	Type Classes	Program Type(s)				
		Adult High School	Vocational/ Technical	Undergraduate		Graduate
				Courses only	Degree Program	
Rollins College	Day	No	No	Yes	Yes	Yes
	Night	No	No	Yes	Yes	Yes
Univ of Central Fla.	Day	No	No	Yes	Yes	Yes
	Night	No	No	Yes	Yes	Yes
Valencia College	Day	No	Yes	Yes	Yes	No
	Night	No	Yes	Yes	Yes	No
Southern College	Day	No	No	No	Yes	No
	Night	No	No	No	Yes	No
Webster College	Day	No	No	No	No	No
	Night	No	No	No	No	Yes
Orlando College	Day	No	No	No	Yes	Yes
	Night	No	No	No	Yes	Yes
Seminole Com. Col.	Day	Yes	Yes	Yes	Yes	No
	Night	Yes	Yes	Yes	Yes	No
Florida Techl Col.	Day	No	No	Yes	Yes	No
	Night	No	No	No	Yes	No
Mid Florida Tech. Inst.	Day	Yes	Yes	Yes	No	No
	Night	Yes	Yes	Yes	No	No
Orlando Vo/ Tech Cntr.	Day	Yes	Yes	No	No	No
	Night	Yes	Yes	No	No	No

SOURCE: Reference sources telephone calls to area colleges, college catalogs and local telephone books.

20. Continued

(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.

ORLANDO SITE Institution	Type Classes	Program Type(s)				
		Adult High School	Vocational/ Technical	Undergraduate		Graduate
				Courses only	Degree Program	
National	Day	No	No	Yes	No	No
Tech Univ.	Night	No	No	Yes	No	No
National Independent	Day					
Study Cntr.	Night	No	No	Yes	No	No

SOURCE: National Tech. University Catalog

21. Employment Opportunities

Provide the following data on spousal employment opportunities.

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

None

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.

N/A

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.

N/A

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 available.

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			

23. Continued

Crime Definitions	FY 1991	FY1992	FY 1993
5. Customs (6M)			
Base Personnel-military			
Base Personnel-civilian			
Off Base Personnel-military			
Off Base Personnel-civilian			
6. Burglary (6N)			
Base Personnel-military			
Base Personnel-civilian			
Off Base Personnel-military			
Off Base Personnel-civilian			
7. Larceny - Ordnance (6R)			
Base Personnel-military			
Base Personnel-civilian			
Off Base Personnel-military			
Off Base Personnel-civilian			
8. Larceny-Government (6S)			
Base Personnel-military			
Base Personnel-civilian			
Off Base Personnel-military			
Off Base Personnel-civilian			

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

23. Continued

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

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

23. Continued

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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FOR OFFICIAL USE ONLY - BRAC '95 WORKING PAPERS

REQUESTS FOR CLARIFICATION
From the Base Statistics Analysis Team (BSAT)

Date sent: 8 SEP 94

Command #: 001
Doc: Base Statistics
File: (783)695-5383
Activity: CNR
Voice: (783)695-4613

CLARIFICATION REQUESTED for Data QM 05 Question #23
To clarify submissions in response to the above question, please provide the CRIME RATES for your surrounding community or county/municipality in these three categories: Violent Crime Rate
Property Crime Rate
Drug Crime Rate

NR/DC
AND NR/used on separate pages

Disregard previous format in question #23.
Specify the rate per 100,000 population.
Crime rates are expected to be obtainable from appropriate law enforcement offices.
Data is needed for the activities listed on page 2.

NRL-USRD


LT Charles King
(783) 695-5383

NOTE: This information is needed urgently. Request your response with clarification comments (below) or corrected page(s) within 24 hours after receipt of the activity. FAX a preliminary response directly to the BSAT at (783) 756-2174. Then, send your official response, properly certified, through your chain of command for certification and further forwarding to the BSAT. Official documentation must be retained to support your response and be available for verification by the Naval Audit Service.

Reply: Crimes rates for Orange County, FL: Total of 47,457 in 1993. Rate per 100K population is 36.9. The total includes murders, Forced Rape, Robbery, Larceny, Auto Theft and Grand Theft. Orange County does not maintain crime statistics separately, only as a total. Information received via telephone from SGT Steve Jones.
Public Information Office, Orange County Sheriff's Department.

Name: GARY E. WOODS
Code: 5940
Commanded Phone #: (407) 857-5140
Date: 9/14/94

FOR OFFICIAL USE ONLY - BRAC '95 WORKING PAPERS

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.

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

ACTIVITY COMMANDER

Richard M. Cassidy, Jr.

NAME (Please type of print)

Commanding Officer

Title

Naval Research Laboratory - Orlando

Activity Underwater Sound Detachment

R.M. Cassidy

Signature

9-14-94

Date

DATA CALL

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

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

MAJOR CLAIMANT LEVEL

MARC PELAEZ

NAME (Please type or print

Signature

CHIEF OF NAVAL RESEARCH

Title

Date

OFFICE OF NAVAL RESEARCH

Activity

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

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

W. A. EARNER

NAME (Please type or print

Signature

Title

Date

MRL-USRD
BSAT Request for Clarification
Control No.: 001

BRAC-95 CERTIFICATION

Reference: SECNAV NOTE 11000 dtd 8 Dec 93

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

ACTIVITY COMMANDER

R.M. CASSIDY
NAME (Please type of print)

COMMANDING OFFICER
Title

NRL
Activity

R.M. Cassidy
Signature

5/13/94
Date

Encl 1
NRL-Main
Data Call 5

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

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

MAJOR CLAIMANT LEVEL

MARC PELAEZ, RADM, USN

NAME (Please type or print

Chief of Naval Research

Title

Office of Naval Research

Activity

Signature

17 June 1994

Date

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

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

R. R. SAREERAM

NAME (Please type or print

Title

Signature

27 JUN 1994

Date

REV. 10, 10a,
11, ~~11a~~, 12,
12a, 13, 14

BRAC-95 CERTIFICATION

Reference: SECNAV NOTE 11000 dtd 8 Dec 93

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

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

ACTIVITY COMMANDER

CAPT R. M. CASSIDY

NAME (Please type of print)
COMMANDING OFFICER

Title
NAVAL RESEARCH LABORATORY

Activity

R. M. Cassidy

Signature
8-12-94

Date

Orlando det

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**DATA CALL 66
INSTALLATION RESOURCES**

Activity Information:

Activity Name:	Naval Research Laboratory, Underwater Sound Reference Detachment (USRD), Orlando, FL (Note 1)
UIC:	N62190
Host Activity Name (if response is for a tenant activity):	N/A
Host Activity UIC:	N/A

Note 1: All NRL field sites and detachments are totally integrated within the main site organizational structure with a single Commanding officer.

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.

**DATA CALL 66
INSTALLATION RESOURCES**

Please ensure that individual lines of the table do not include duplicate costs. Add additional lines to the table (following line 2j., as necessary, to identify any additional cost elements not currently shown). **Leave shaded areas of table blank.**

Table 1A - Base Operating Support Costs (Other Than DBOF Overhead)			
Activity Name: Naval Research Laboratory, Underwater Sound Reference Detachment (USRD), Orlando, FL			UIC: N62190
Category	FY 1996 BOS Costs (\$000)		
	Non-Labor	Labor	Total
1. Real Property Maintenance Costs:			
1a. Maintenance and Repair			
1b. Minor Construction			
1c. Sub-total 1a. and 1b.			
2. Other Base Operating Support Costs:			
2a. Utilities			
2b. Transportation			
2c. Environmental			
2d. Facility Leases			
2e. Morale, Welfare & Recreation			
2f. Bachelor Quarters			
2g. Child Care Centers			
2h. Family Service Centers			
2i. Administration			
2j. Other (Specify)			
2k. Sub-total 2a. through 2j:			
3. Grand Total (sum of 1c. and 2k.):			

Note: Not applicable, all USRD BOS costs are funded by DBOF overhead.

**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>
N/A	

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**

Table 1B - Base Operating Support Costs (DBOF Overhead)			
Activity Name: Naval Research Laboratory, Underwater Sound Reference Detachment (USRD), Orlando, FL		UIC: N62190	
Category	FY 1996 Net Cost From UC/FUND-4 (\$000) ¹		
	Non-Labor ¹	Labor ¹	Total ¹
1. Real Property Maintenance Costs:			
1a. Real Property Maintenance (> \$25K) ²	180	360	540
1b. Real Property Maintenance (< \$25K) ²			
1c. Minor Construction (Expensed) ²	³	³	³
1d. Minor Construction (Capital Budget)			
1c. Sub-total 1a. through 1d.	180	360	540
2. Other Base Operating Support Costs:			
2a. Command Office			
2b. ADP Support	15	100	115
2c. Equipment Maintenance	50	80	130
2d. Civilian Personnel Services			
2e. Accounting/Finance			
2f. Utilities	257		257
2g. Environmental Compliance	15	15	30
2h. Police and Fire			
2i. Safety	20	15	35
2j. Supply and Storage Operations	30	85	115
2k. Major Range Test Facility Base Costs	N/A	N/A	N/A
2l. Other (Specify) communications/telephone	103		103
2m. Sub-total 2a. through 2l:	490	295	785
3. Depreciation	615		615
4. Grand Total (sum of 1c., 2m., and 3.) :	1,285	655	1,940

**DATA CALL 66
INSTALLATION RESOURCES**

Note: Command level base operation support (Command Office, Civilian Personnel Services, Accounting and Finance, etc) is provided by NRL main site, Washington, DC.

¹The UC/Fund-4 exhibit is submitted for total NRL. Cost estimates are provided for USRD.

² Investment/expense threshold changed to \$25K.

³ NRL financial systems do not separately account for minor construction < \$25K.

⁴ Estimates from internal budget are provided

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

Table 2 - Services/Supplies Cost Data	
Activity Name: Naval Research Laboratory, Underwater Sound Reference Detachment (USRD), Orlando, FL	UIC: N62190
Cost Category	FY 1996 Projected Costs (\$000) ¹
Travel:	175
Material and Supplies (including equipment):	850
Industrial Fund Purchases (other DBOF purchases):	400
Transportation:	9
Other Purchases (Contract support, etc.):	1,650

**DATA CALL 66
INSTALLATION RESOURCES**

Total:	3,084
---------------	-------

Fund-1/IF-4 exhibit is submitted for total NRL. Cost estimates are provided for USRD.

3. Contractor Workyears.

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

Table 3 - Contract Workyears	
Activity Name: Naval Research Laboratory, Underwater Sound Reference Detachment (USRD), Orlando, FL	UIC: N62190
Contract Type	FY 1996 Estimated Number of Workyears On-Base
Construction:	
Facilities Support:	8
Mission Support:	1
Procurement:	
Other:*	
Total Workyears:	9

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

DATA CALL 66
INSTALLATION RESOURCES

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): See Note 1 below.

2) Estimated number of workyears which would be eliminated: See Note 1 below.

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): See Note 1 below.

Notes: ¹NRL is unable to provide a meaningful answer without the benefit of specific mission and site realignment information. Each contract would have to be negotiated and/or re-computed since each contract provides specific levels of support for specific sites.

**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.)
1	

No. of Additional Contract Workyears Which Would Be Relocated	General Type of Work Performed on Contract (e.g., engineering support, technical services, etc.)
1	

Notes: ¹NRL is unable to provide a meaningful answer. Contract work years supporting NRL, with the exception of on-site research mission support work years, are not recorded in NRL financial or personnel systems and are therefor not readily available. Contracts are multi-purpose providing material, travel and equipment as well as services (work years) of both on-site and off-site contractor personnel. Estimation of off-site work years would require reviewing numerous contracts and making assumptions on renewals as to continuing work year levels. Then estimating how many contractor work years would be eliminated or relocated would require knowledge of specific details in terms of missions/functions of the closure or relocation. Consequently, development of realistic estimates that would meet BRAC certification requirements within the allowed time was not feasible.

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

Richard M. Cassidy
NAME (Please type or print)

R.M. Cassidy
Signature

Commanding Officer
Title

7-20-94
Date

Naval Research Laboratory
Activity

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

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Signature

Title

Date

Activity

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

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Signature

Title

Date

Activity

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

MAJOR CLAIMANT LEVEL

MARC PELAEZ

NAME (Please type or print)

Signature

CHIEF OF NAVAL RESEARCH

Title

Date

OFFICE OF NAVAL RESEARCH

Activity

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

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

W. A. EARNER

NAME (Please type or print)

Signature

Title

Date

CAPACITY ANALYSIS
DATA CALL #4 WORK SHEET FOR
TECHNICAL CENTER or LABORATORY: Naval Research Laboratory
Underwater Sound Reference
Detachment (USRD), Florida
(UIC N62190)

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TAB A: Ship Berthing Capacity

TAB B: Operational Airfield Capacity

TAB C: Depot Level Maintenance Capacity

TAB D: Ordinance Storage Capacity

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

7 April 1994

ENCLOSURE (2)

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

a. Use Table 1.1 to provide data on your site.

b. Use Table 1.2 to provide data on your Detachments that did not receive this Data Call directly. Compile the information from all of these Detachments into one table. Attach a list of the titles & UIC's of the Detachments included in the table.

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

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

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

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

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

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

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

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

Table 1.1 Historical and Projected Workload for Naval Research Lab, Underwater Sound Reference Detachment (USRD) (UIC N62190) ¹

Fiscal Year	Total Funds Budgeted (\$K)	Total Funds Received w/o Direct Cite (\$K)	Direct Cite Funds Received (\$K)	Budgeted Wkys	Actual In-House Wkys	Actual Onsite Contract Wkys
86 ₂	11,140.7	10,958.1	4	108	119	5
87 ₂	11,380.3	9,587.2	4	112	119	5
88 ₂	12,811.4	10,837.5	2,929.6	116	118	5
89 ₂	11,772.3	10,962.5	1,160.0	114	113	5
90 ₂	17,342.6	11,564.6	5,678.4	120	117	5
91 ²	13,647.9	13,775.5	1,380.6	127	118	13
92 ₂	13,579.2	13,895.8	270.0	113	121	6
93 ₂	15,363.0	14,266.8	1,750.3	124	121	5
94 ₂	10,488.0			118		
95 ₂	10,003.0			100		
96 ₃	10,303.1			100		
97 ₃	10,612.2			100		

NOTES:

- 1 Data includes the USRD Detachment, Leesburg, at Okahumpka, FL, where 3 civilians are budgeted. Funding information for Leesburg cannot be identified separately from USRD Orlando funding.
- 2 FY95 and prior fiscal years are consistent with the appropriate President's Budget submission.
- 3 FY96 and FY97 funds budgeted are based on the FY95 budget plus 3% inflation per year.
- 4 FY86 and FY87 direct cite data is not available.
- 5 On-site contractor data was not collected prior to FY91.

**TABLE 1.3 FY 1993 BREAKOUT OF FUNDS RECEIVED for NAVAL RESEARCH LAB, UNDERWATER SOUND
REFERENCE DETACHMENT (USRD) (UIC N62190)
(\$ Millions)**

SPONSOR	RDT&E(N)							Other RDT&E	Other Appropriation						
	6.1	6.2	6.3a	6.3b	6.4	6.5	6.6		OMN	APN	OPN	WPN	SCN	Other Navy	All Other
ONR	1.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NAVSEA	0.0	0.0	0.0	1.7	0.1	0.0	0.0	0.0	1.6	0.0	0.3	0.0	0.3	0.1	0.0
NAVAIR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPAWAR	0.0	0.0	1.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NAVFAC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSPO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CNO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FLT CINCs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oth DON	0.0	0.3	2.4	0.3	0.1	0.4	0.2	0.0	0.4	0.0	1.5	0.2	0.0	0.8	0.0
Air Force	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Army	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oth Fed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0

TABLE 1.3 FY 1994 BREAKOUT OF FUNDS BUDGETED FOR NAVAL RESEARCH LAB, UNDERWATER SOUND REFERENCE DETACHMENT (USRD) (UIC 62190)
 (\$ Millions)

SPONSOR	RDT&E(N)							Other RDT&E	Other Appropriation						
	6.1	6.2	6.3a	6.3b	6.4	6.5	6.6		OMN	APN	OPN	WPN	SCN	Other Navy	All Other
ONR	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NAVSEA	0.0	0.0	0.0	1.4	0.1	0.0	0.0	0.0	0.2	0.0	0.3	0.0	0.3	0.1	0.0
NAVAIR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPAWAR	0.0	0.0	0.8	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NAVFAC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSPO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CNO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FLT CINCs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oth DON	0.0	0.2	1.3	0.2	0.1	0.4	0.2	0.0	0.1	0.0	1.1	0.1	0.0	0.9	0.0
Air Force	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Army	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oth Fed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**TABLE 1.3 FY 1995 BREAKOUT OF FUNDS BUDGETED FOR NAVAL RESEARCH LAB, UNDERWATER SOUND
REFERENCE DETACHMENT (USRD) (UIC N62190)**
(\$ Millions)

SPONSOR	RDT&E(N)							Other RDT&E	Other Appropriation						
	6.1	6.2	6.3a	6.3b	6.4	6.5	6.6		OMN	APN	OPN	WPN	SCN	Other Navy	All Other
ONR	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NAVSEA	0.0	0.0	0.0	1.3	0.1	0.0	0.0	0.0	0.5	0.0	0.1	0.0	0.1	0.1	0.0
NAVAIR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPAWAR	0.0	0.0	0.8	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NAVFAC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSPO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CNO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FLT CINCs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oth DON	0.0	0.3	1.3	0.2	0.1	0.3	0.2	0.0	0.1	0.0	0.6	0.1	0.0	0.9	0.0
Air Force	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Army	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oth Fed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NOTE: Above RDT&E(N) totals include NRL's estimated pro-rata share of the Science & Technology budget reductions in the President's Budget. These reductions have not been finalized or assigned; therefore, specific NRL reductions are unknown.

TABLE 1.3 FY 1996 BREAKOUT OF FUNDS BUDGETED for NAVAL RESEARCH LAB, UNDERWATER SOUND REFERENCE DETACHMENT (USRD) (UIC N62190)
 (\$ Millions)

SPONSOR	RDT&E(N)										Other RDT&E	Other Appropriation						
	6.1	6.2	6.3a	6.3b	6.4	6.5	6.6	APN				OPN		WPN	SCN	Other Navy	All Other	
								OMN	APN	OPN		WPN	SCN					Other Navy
ONR	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NAVSEA	0.0	0.0	0.0	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.1	0.0
NAVAIR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPAWAR	0.0	0.0	0.8	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NAVFAC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSPO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CNO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FLT CINCs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oth DON	0.0	0.3	1.4	0.2	0.1	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.1	0.0	0.9	0.0
Air Force	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Army	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oth Fed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 1.3 FY 1997 BREAKOUT OF FUNDS BUDGETED for NAVAL RESEARCH LAB, UNDERWATER SOUND REFERENCE DETACHMENT (USRD) (UIC N62190)
 (\$ Millions)

SPONSOR	RDT&E(N)							Other RDT&E	Other Appropriation						
	6.1	6.2	6.3a	6.3b	6.4	6.5	6.6		OMN	APN	OPN	WPN	SCN	Other Navy	All Other
ONR	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NAVSEA	0.0	0.0	0.0	1.4	0.1	0.0	0.0	0.0	0.5	0.0	0.2	0.0	0.2	0.2	0.0
NAVAIR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SPAWAR	0.0	0.0	0.8	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NAVFAC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSPO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CNO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FLT CINCs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oth DON	0.0	0.3	1.4	0.2	0.1	0.3	0.2	0.0	0.1	0.0	0.7	0.1	0.0	0.9	0.0
Air Force	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Army	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OSD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oth Fed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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, quality of additional square footage of space is to be reported in "Gross Floor/Building Area" (GF/BA) as defined in NAVFAC P-80. Many of the P-80 Category Code Numbers (CCN's) have assets that are reported in units of measure other than square feet (SF). The only unit of measure desired for this Data Call is SF. Only report the assets in each CCN that are normally reported in SF.

For your Site:

a. Use Table 2.1 below to indicate the total amount of Class 2 space at your site for which you are the plant account holder as of 31 March 1994.

b. Use Table 2.2 below to indicate the total amount of your Class 2 space reported in Table 2.1 that is assigned to your tenant commands and/or independent activities at your site as of 31 March 1994.

c. Use Table 2.3 below to indicate the total amount of Class 2 space, for which you are not the plant account holder, but which is utilized/leased by you (less Detachments). Provide numbered notes to identify the title and UIC of the plant account holder/lessor, quantity of leased space and the associated lease cost.

Table 2.1 Main Site Class 2 Assets of NRL, USRD (UIC N62190)

Building Type	NAVFAC (P-80) category code	Gross Floor/Building Area (KSF)			
		Adequate	Sub-standard	In-adequate	Total
Operational & Training	100	3.600			3.600
Maintenance & Production	200	0.374			0.374
Science labs	310	0.126			0.126
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	64.575 ₁			64.575
Technical Services labs	321	--			--
Supply Facilities	400	2.233			2.233
Hospital & other Medical	500	--			--
Administrative Facilities	600	--			--
Housing & Community	700	0.252			0.252
Utilities & Grounds	800	0.328			0.328
Other		--			--
Totals		71.488			71.488

NOTES: (1) Imminent changes, not included above.

CCN 320

<u>PROJECT TITLE</u>	<u>COST</u>	<u>SF</u>	<u>AWD</u>	<u>START</u>	<u>BOD</u>
C-6-92 REPLACE MODULAR BUILDING	256,676	3600	9/93	10/93	
DESCRIPTION - This project will provide additional electronic lab and office space for Code 5910.					

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:
NOT APPLICABLE

- (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 OF YOUR BASEREP?

**Table 2.2 Main Site Class 2 Space of NRL, USRD (UIC N62190)
Assigned to Tenants**

TENANT		NAVFAC (P-80) Category Code	GF/BA Assigned (KSF)
Name	UIC		
NONE			
		Total:	0

Table 2.3 Class 2 Space Utilized/Leased by NRL, USRD (UIC N62190)

Building Type	NAVFAC (P-80) category code	GF/BA (KSF)			
		Adequate	Sub-standard	In-adequate	Total
Operational & Training	100	--			--
Maintenance & Production	200	--			--
Science labs	310	--			--
Aircraft labs	311	--			--
Missile and Space labs	312	--			--
Ship and Marine labs	313	--			--
Ground Transportation labs	314	--			--
Weapon and Weapon Systems labs	315	--			--
Ammunition, Explosives, and Toxics labs	316	--			--
Electrical Equip. labs	317	--			--
Propulsion labs	318	--			--
Miscellaneous labs	319	--			--
Underwater Equip. labs	320	--			--
Technical Services labs	321	--			--
Supply Facilities	400	--			--
Hospital & other Medical	500	--			--
Administrative Facilities	600	--			--
Housing & Community	700	--			--
Utilities & Grounds	800	--			--
Other		--			--
Totals		0	0	0	0

NOT APPLICABLE

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 Detachment for which you are not the plant account holder. Provide numbered notes to indicate the quantity of leased space and their associated rental cost.

Table 2.5 Class 2 Space at Detachment Sites of NRL, USRD (UIC N62190)

Assigned to Tenants

TENANT		NAVFAC (P-80) Category Code	GF/BA Assigned (KSF)
Name	UIC		
NONE			
		Total:	0

Table 2.6 Class 2 Space Utilized/Leased by Detachments of NRL, USRD (UIC N62190)

Building Type	NAVFAC (P-80) category code	GF/BA (KSF)			
		Adequate	Sub-standard	In-adequate	Total
Operational & Training	100	--			--
Maintenance & Production	200	--			--
Science labs	310	--			--
Aircraft labs	311	--			--
Missile and Space labs	312	--			--
Ship and Marine labs	313	--			--
Ground Transportation labs	314	--			--
Weapon and Weapon Systems labs	315	--			--
Ammunition, Explosives, and Toxics labs	316	--			--
Electrical Equip. labs	317	--			--
Propulsion labs	318	--			--
Miscellaneous labs	319	--			--
Underwater Equip. labs	320	--			--
Technical Services labs	321	--			--
Supply Facilities	400	--			--
Hospital & other Medical	500	--			--
Administrative Facilities	600	--			--
Housing & Community	700	--			--
Utilities & Grounds	800	--			--
Other		--			--
Totals		0			0

NOT APPLICABLE

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:
NOT APPLICABLE

- (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?

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

a. What is the maximum quantity of space that could be made available for expansion to accommodate other functions and/or increased efforts? Report in terms of the "Current NFA" as shown in Tables 3.1 & 3.2. -0- SQFT.

NO SPACE AVAILABLE

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. -0- SQFT.

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

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

opportunity with the title & UIC of the site it refers to. Do not include space that has been reported in Table 3.1.

Table 3.1 Constrained Class 2 Space Available for Expansion at NRL, USRD
(UIC N62190)

Building #/ Category Code (3 digit)	Current NFA (KSF)	Additional Capacity Provided by Expansion		Height of High Bay (FT)	Estimated Cost of Rehab (\$K's)
		NFA (KSF)	# of Personnel		
NONE					
Totals	0	0	0		0

NO SPACE AVAILABLE

Table 3.2 Unconstrained Class 2 Space Available for Expansion at NRL, USRD
(UIC N62190)

Building #/ Category Code (3 digit)	Current NFA (KSF)	Additional Capacity Provided by Expansion		Height of High Bay (FT)	Estimated Cost of Rehab (\$K's)
		NFA (KSF)	# of Personnel		
NONE					
Totals	0	0	0		0

NO SPACE AVAILABLE

4. Class 1 Space Available for Expansion.

a. Identify in Table 4.1 below the real estate resources which have the potential to facilitate future development, and for which you are the plant account holder as of 31 March 1994, or into which, through a tenant, your activity could reasonably expect to expand. Complete a separate table for each individual site (i.e., main base, outlying airfields, special off-site areas, etc.) and Detachment that did not receive this Data Call directly. The unit of

measure is acres. Developed area is defined as land currently with buildings, roads, and utilities where further development is not possible without demolition of existing improvements. Include in "Restricted" acreage that is restricted for future development due to environmental constraints (e.g. wetlands, landfills, archaeological sites), operational restrictions (e.g. ESQD arcs, HERO, HERP, HERF, AICUZ, ranges) or cultural resources restrictions. Identify the reason for the restriction when providing the acreage in the table. Specify any entry in "Other" (e.g. submerged lands).

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

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

Table 4.1 Class 1 Resources of NRL, USRD (UIC N62190)
Site Location: NRL

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance				
Operational				
Training				
R & D				
Supply & Storage				
Admin				
Housing				
Recreational				
Navy Forestry Program				
Navy Agricultural Outlease Program				
Hunting/Fishing Programs				
Other				
Total:			NONE	NONE

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

NO CLASS 1 ASSETS AVAILABLE

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
NRL, USRD FLORIDA**

	On Base Capacity	Off Base long term contract	Normal Steady State Load	Peak Demand
Electrical Supply (KWH)	N/A	20,000 KWH	292 KWH	417 KWH
Natural Gas (CFH) ₁	N/A	N/A	N/A	N/A
Sewage (GPD)	N/A	31,350 GPD	1,000 GPD	31,350 GPD
Potable Water (GPD)	N/A	31,350 GPD	1,350 GPD	31,350 GPD
Steam (PSI & lbm/Hr)	N/A	N/A	N/A	N/A
Long Term Parking	144	N/A	120	144
Short Term Parking	N/A	N/A	N/A	N/A

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

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

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

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

Table 5.2 Maintenance, Repair & Equipment Expenditure Data for NRL,USRD (UIC: N62190)

Fiscal Year	MRP (\$M)	CPV (\$M)	ACE (\$M)
1985	1	7.145	1
1986	1.0	7.273	1
1987	1.4	7.331	5.0
1988	1.3	7.719	5.6
1989	1.3	7.833	6.5
1990	1.2	8.883	12.3 ₂
1991	1.5	9.019	12.6
1992	1.5	9.700	12.9
1993	2.2	10.112	13.0
1994	1.3	10.373	13.3
1995	1.4	10.921	13.6
1996	1.4	11.176	13.9
1997	1.5	11.431	14.2

NOTES: (1) Accurate data not available for FY 1985 and 1986.
 (2) Installed \$6.1M Pressure Vessel in FY 90.

c. Training Facilities:

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

Type of Training Facility/CCN	School	Type of Training	FY 1993 Requirements			FY 2001 Requirements		
			A	B	C	A	B	C
NONE								

A = STUDENTS PER YEAR

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

C = A x B

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

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

Type Training Facility/CCN	Total Number	Design Capacity (PN) ¹	Capacity (Student HRS/YR)
NONE			

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

NOT APPLICABLE

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

N/A

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

N/A

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.

N/A

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.

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

TAB A
SHIP BERTHING CAPACITY
NOT APPLICABLE

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

TAB B
OPERATIONAL AIRFIELD CAPACITY
NOT APPLICABLE

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

TAB C

DEPOT LEVEL MAINTENANCE CAPACITY

NOT APPLICABLE

TAB D
ORDNANCE STORAGE CAPACITY
NRL, USRD FLORIDA

ORDNANCE STORAGE CAPACITY

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

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

1. Ordnance Stowage and Support

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

Table 1.1: Total Facility Ordnance Stowage Summary

FACILITY NUMBER	PRESENT INVENTORY		PREDICTED INVENTORY FY 2001		MAXIMUM RATED CAPABILITY	
	TONS	SQ FT	TONS	SQ FT	TONS	SQ FT
NRL/USRD						
410860/1	<0.001	2	0.001	2	0.001	2
TOTAL	<0.001	2	0.001	2	0.001	2

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

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

Table 1.2: Total Facility Ordnance Stowage Summary

Facility Number/Type	Currently Stowed Commodity Type(s)	Reason for Stowage at your Activity	Commodity Type(s) Which Can Be Stowed
NRL/USRD			
410860 ₁	LOE: Pyro/Demo	Other (Research) ₂	None
410861 ₁	LOE: Pyro/Demo	Other (Research) ₂	None

(1) Above-Ground Portable Ready Storage Magazine

(2) Explosives used for testing pressure sensitive underwater devices both in the laboratory (shock tube facility) and in the natural environment (Lake Gem Mary)

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

Table 1.3: Facility Rated Status

Facility Number/Type	Hazard Rating (1.1-1.4)	Rated NEW	ESQD Arc		
			Established (Y/N)	Waiver (Y/N)	Waiver Expiration Date
NRL/USRD					
410860	1.1	1 lb	Y	N	
410861	1.1	1 lb	Y	N	

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

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

Table 1.5: Related Ordnance Support

Related Functions	Performed (Y/N)	Type of Commodity	DLMH's
Maintenance (Specify Level)			
NRL/USRD	Y	LOE: Pyro/Demo	0
Testing*			
NRL/USRD	Y	LOE: Pyro/Demo	36
Manufacturing			
	N	NA	NA
Outload			
NRL/USRD	Y	LOE: Pyro/Demo	0
Technical Support			
NRL/USRD	Y	LOE: Pyro/Demo	375

* Defined as a function to maintain the conditions involved. This does not include test use of the commodity.

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.

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

ACTIVITY COMMANDER

Richard M. Cassidy
NAME (Please type of print)

Commanding Officer
Title

Naval Research Laboratory
Activity

R M Cassidy
Signature

5/12/94
Date

NRL-main Data Call 4
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)

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 of print

Signature

Title

Date

Activity

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

MAJOR CLAIMANT LEVEL

MARC PELAEZ, RADM, USN
NAME (Please type or print

Signature

Chief of Naval Research
Title

17 June 1994
Date

Office of Naval Research
Activity

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

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

R. R. SAREERAM

NAME (Please type of print

Signature

ACT106
Title

28 JUN 1994
Date

175

**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.

Activity Name:	Underwater Sound Reference Detachment (USRD)
UIC:	62190
Major Claimant:	Office of Naval Research

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.

Average Appropriated Fund Civilian Salary Rate:	\$46,483.00
--	--------------------

Source of Data (1.a. Salary Rate): CIVPERS (CP2) Exhibit & NRL Internal Budget

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			
Orange	FL	0	92	80%	20	30
Other	FL	0	23	20%	—	—

= 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:
 N/A

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

Source of Data (1.b. 1) & 2) Residence Data): Defense Civilian Payroll System (DCPS) and Northern American Road Atlas

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.

City	County	Distance from base (miles)
Orlando, FL	Orange	2

Source of Data (1.c. Metro Areas): Orange Country Chamber of Commerce and State Highway maps

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.

Age Category	Number of Employees	Percentage of Employees
16 - 19 Years	—	—
20 - 24 Years	2	1.71
25 - 34 Years	22	18.80
35 - 44 Years	35	29.91
45 - 54 Years	35	29.91
55 - 64 Years	19	16.24
65 or Older	4	3.42
TOTAL	117	100 %

Source of Data (1.d.) Age Data): Defense Civilian Personnel Data System (DCPDS)

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.

Last School Year Completed	Number of Employees	Percentage of Employees
8th Grade or less	—	—
9th through 11th Grade	—	—
12th Grade or High School Equivalency	39	33.33
1-3 Years of College	26	22.22
4 Years of College (Bachelors Degree)	20	17.09
5 or More Years of College (Graduate Work)	32	27.35
TOTAL	117	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").

Degree	Number of Civilian Employees
Terminal Occupation Program - Certificate of Completion, Diploma or Equivalent (for areas such as technicians, craftsmen, artisans, skilled operators, etc.)	3
Associate Degree	11
Bachelor Degree	24
Masters Degree	10
Doctorate	16

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

Source of Data (1.e.1) and 2) Education Level Data): Defense Civilian Personnel Data System (DCPDS)

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
1. Agriculture, Forestry & Fishing	01-09		
2. Construction (includes facility maintenance and repair)	15-17	10	9
3. Manufacturing (includes Intermediate and Depot level maintenance)	20-39		
3a. Fabricated Metal Products (include ordnance, ammo, etc.)	34	2	
3b. Aircraft (includes engines and missiles)	3721 et al		
3c. Ships	3731		
3d. Other Transportation (includes ground vehicles)	various		

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Industry	SIC Codes	No. of Civilians	% of Civilians
3e. Other Manufacturing not included in 3a. through 3d.	various		
Sub-Total 3a. through 3e.	20-39	2	2
4. Transportation/Communications/Utilities	40-49		
4a. Railroad Transportation	40		
4b. Motor Freight Transportation & Warehousing (includes supply services)	42	1	
4c. Water Transportation (includes organizational level maintenance)	44		
4d. Air Transportation (includes organizational level maintenance)	45		
4e. Other Transportation Services (includes organizational level maintenance)	47		
4f. Communications	48		
4g. Utilities	49	1	
Sub-Total 4a. through 4g.	40-49		
5. Services	70-89	1	
5a. Lodging Services	70		
5b. Personal Services (includes laundry and funeral services)	72	24	
5c. Business Services (includes mail, security guards, pest control, photography, janitorial and ADP services)	73		
5d. Automotive Repair and Services	75		
5e. Other Misc. Repair Services	76		

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

Industry	SIC Codes	No. of Civilians	% of Civilians
5f. Motion Pictures	78		
5g. Amusement and Recreation Services	79		
5h. Health Services	80	1	
5i. Legal Services	81		
5j. Educational Services	82		
5k. Social Services	83		
5l. Museums	84		
5m. Engineering, Accounting, Research & Related Services (includes RDT&E, ISE, etc.)	87	51	
5n. Other Misc. Services	89	27	
Sub-Total 5a. through 5n.:	70-89	104	89
6. Public Administration	91-97		
6a. Executive and General Government, Except Finance	91		
6b. Justice, Public Order & Safety (includes police, firefighting and emergency management)	92		
6c. Public Finance	93		
6d. Environmental Quality and Housing Programs	95		
Sub-Total 6a. through 6d.			
TOTAL		117	100 %

Source of Data (1.f.) Classification By Industry Data): Defense Civilian Personnel Data System (DCPDS)

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 Employee
1. Executive, Administrative and Management	3	3
2. Professional Specialty		
2a. Engineers	13	11
2b. Architects and Surveyors	—	—
2c. Computer, Mathematical & Operations Research	3	3
2d. Life Scientists	—	—
2e. Physical Scientists	23	20
2f. Lawyers and Judges	—	—
2g. Social Scientists & Urban Planners	—	—
2h. Social & Recreation Workers	—	—
2i. Religious Workers	—	—
2j. Teachers, Librarians & Counselors	—	—
2k. Health Diagnosing Practitioners (Doctors)	—	—
2l. Health Assessment & Treating(Nurses, Therapists, Pharmacists, Nutritionists, etc.)	1	—

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Occupation	Number of Civilian Employees	Percent of Civilian Employee
2m. Communications	—	—
2n. Visual Arts	—	—
Sub-Total 2a. through 2n.:	40	34
3. Technicians and Related Support		
3a. Health Technologists and Technicians	—	—
3b. Other Technologists	45	38
Sub-Total 3a. and 3b.:	45	38
4. Administrative Support & Clerical	15	13
5. Services		
5a. Protective Services (includes guards, firefighters, police)	—	—
5b. Food Preparation & Service	—	—
5c. Dental/Medical Assistants/Aides	—	—
5d. Personal Service & Bldg & Grounds Svcs (includes janitorial, grounds maintenance, child care workers)	—	—
Sub-Total 5a. through 5d.	—	—
6. Agricultural, Forestry & Fishing	—	—
7. Mechanics, Installers and Repairers	8	7
8. Construction Trades	2	2
9. Production Occupations	3	3
10. Transportation & Material Moving	—	—
11. Handlers, Equipment Cleaners, Helpers and Laborers (not included elsewhere)	1	—
TOTAL	117	100 %

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Source of Data (1.g.) Classification By Occupation Data): Defense Civilian Personnel Data System (DCPDS)

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.

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

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:	
2. Percentage of Military Spouses Who Work Outside of the Home:	
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:	
3b. Employed "On-Base" - Non-Appropriated Fund:	
3c. Employed "Off-Base" - Federal Employment:	
3d. Employed "Off-Base" - Other Than Federal Employment	

Note: USRD has no military personnel.

Source of Data (1.h.) Spouse Employment Data):

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.

DATA CALL 65
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.

**Source of Data (2.a. 1) & 2) - Local Community Table): Office of Economic
Development, Orlando, FL**

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

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
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
Recreation Facilities	A	A	A

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

DATA CALL 65
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.

**Source of Data (2.b. 1) & 2) - Regional Table): Office of Economic Development,
Orlando, FL**

**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: 5,932

Units for Sale: 2,974

<p>Source of Data (3.a. Off-Base Housing): Prudential Florida Realty, Ramada Properties, Coldwell Banker, Greater Orlando Association of Realtors, Orlando Office of Economic Development</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	
Orange	Orange	86	21	16	109,462	89,457	25:1	25:1	Yes
Osceola	Osceola	14	5	4	21,850	N/A	20:1	27:1	No
Seminole	Seminole	29	10	6	50,524	41,245	27:1	29:1	Yes

* Answer "Yes" in this column if the school district in question enrolls students who reside in government housing. DOES NOT INCLUDE PRIVATE OR COUNTY "SPECIAL" SCHOOL.

Source of Data (3.b.1) Education Table): The School Boards of Orange, Osceola, and Seminole Counties.

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

N/A

Source of Data (3.b.2) On-Base Schools): N/A

**DATA CALL 65
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 :

<u>Orange County</u>		<u>Seminole County</u>
FL Institute of Tech. (Ext.)	Southern College	Seminole Comm. College
FL Southern College (Ext.)	Univ. of Central FL	Wagner Southern College
Southern IL Univ. (Ext.)	United Bible College & Seminary	Webster University
Heritage College	Univ. of FL College of Nursing	<u>Osceola County</u>
Orlando College	Valencia Comm. College	FL Christian College
Rollins College		FL Bible College

Source of Data (3.b.3) Colleges): Orlando Telephone Directory, Osceola County Chamber of Commerce

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:

<u>Orange County</u>	
ITT Technical Institute	Electronics Engineering Technology; Hospitality Management
Florida Technical College	Computer Training (Applications, Repair, Computer Aided Drafting); Electronics Technology
Mid-Florida Technical Institute	42 Occupational training curriculums including electronics technology and complete computer training
Westside Vocational Technical Center	Business (data entry, clerical, etc.); industrial (welding, electrical, etc.)

Source of Data (3.b.4) Vo-tech Training): Orlando Telephone Directory

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

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): Technical Services, Code 5940, Naval Research Laboratory

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.

AMTRAK
1400 Sligh Blvd.
Orlando, FL 32806

Approximately 4 miles from USRD

Source of Data (3.c.2) Transportation): AMTRAK

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.

Orlando International Airport
State Route 436
Orlando, FL

Approximately 5 miles from USRD

Source of Data (3.c.3) Transportation): Greater Orlando Airport Authority

4) How many carriers are available at this airport?

Approximately 40 national and international carriers

Source of Data (3.c.4) Transportation): Greater Orlando Airport Authority

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

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

Interstate 4, located 3 miles from USRD

Source of Data (3.c.5) Transportation): Technical Services, Code 5940, Naval
Research Laboratory

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.)

Road systems are of good quality and adequate capacity. USRD is located in a residential area and not on a major roadway; therefore, access is not a problem.

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): Technical Services, Code 5940, Naval
Research Laboratory

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

- 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.

Service provided by Orange County, Florida government. No written agreements. Orange County does conduct periodic inspections at USRD and maintains a "pre-planned" response document.

Source of Data (3.d. Fire/Hazmat): Technical Services, Code 5940, Naval Research Laboratory

- e. **Police Protection.**

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

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?

No.

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.

None.

Source of Data (3.e. 1) - 5) - Police): Technical Services, Code 5940, Naval Research Laboratory

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.

Yes. Orlando Utilities Commission for water and sewer, Florida Power Corp. for electricity, Waste Management Systems for refuse, Southern Bell and AT&T for telephone. Agreements are contractual.

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.

<p>Source of Data (3.f. 1) - 3) Utilities): Technical Services, Code 5940, Naval Research Laboratory</p>

DATA CALL 65
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. Walt Disney World	Tourist Attraction/Resort	34,600
2. Orange County Public Schools	Education	20,446
3. Naval Training Center	Navy installation	18,761
4. Martin Marietta Electronics Information and Missile Group	Manufacturer of electronics, military, aerospace equipment	10,000
5. Florida Hospital	Health Care	7,120
6. Seminole County Public Schools	Education	6,759
7. Orlando Regional Center	Health Care	5,318
8. Orange County	County Government	5,300
9. AT&T	Telecommunications	5,200
10. Publix Supermarkets	Grocery store chain	5,040

Source of Data (4. Business Profile): Chambers of Commerce for Orange County,
Osceola County, and Seminole County

DATA CALL 65
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:

Closure of the Naval Training Center, Orlando, is and will continue to have a significant negative economic impact on the Orlando area.

b. Introduction of New Businesses/Technologies:

Unknown.

c. Natural Disasters:

None.

d. Overall Economic Trends:

None.

Source of Data (5. Other Socio/Econ): Superintendent's office, USRD

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

N/A

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

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.

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

ACTIVITY COMMANDER

Richard M. Cassidy
NAME (Please type of print)
Commanding Officer
Title
Naval Research Laboratory
Activity

R.M. Cassidy
Signature
7-14-94
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)

<u>NAME (Please type or print)</u>	<u>Signature</u>
<u>Title</u>	<u>Date</u>
<u>Activity</u>	

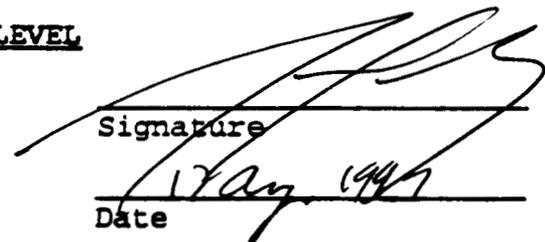
I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

<u>NAME (Please type of print)</u>	<u>Signature</u>
<u>Title</u>	<u>Date</u>
<u>Activity</u>	

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

MAJOR CLAIMANT LEVEL

<u>MARC PELAEZ</u>	
<u>NAME (Please type or print)</u>	
<u>CHIEF OF NAVAL RESEARCH</u>	
<u>Title</u>	<u>17 Aug 1987</u>
<u>OFFICE OF NAVAL RESEARCH</u>	<u>Date</u>
<u>Activity</u>	

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

DEPUTY CHIEF OF NAVAL OPERATIONS (LOGISTICS)
 DEPUTY CHIEF OF STAFF (INSTALLATIONS & LOGISTICS)
 W. A. EARNER

<u>NAME (Please type of print)</u>	<u>Signature</u>
<u>Title</u>	<u>8/24/84</u>
	<u>Date</u>

DATA CALL 63 FAMILY HOUSING DATA

175

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

Installation Name:	NRLUDWSREFDET Orlando
Unit Identification Code (UIC):	N62190
Major Claimant:	CNR

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

BRAC

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.

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 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)

175

Data Call I:

Activity: N62190

DATA CALL 1: GENERAL INSTALLATION INFORMATION

1. ACTIVITY:

• Name

Official name	<i>Naval Research Laboratory, Underwater Sound Reference Detachment</i>
Acronym(s) used in correspondence	NRL, USRD
Commonly accepted short title(s)	NRL, USRD

• Complete Mailing Address

Naval Research Laboratory
 Underwater Sound Reference Detachment (USRD)
 P.O. Box 8337
 Orlando, FL 32856-8337

• PLAD: NRLUWSREF DET, ORLANDO, FL

• PRIMARY UIC: N00173 (Plant Account UIC for Plant Account Holders)

• ALL OTHER UIC(s): PURPOSE:

- Primary UIC N00173 is used throughout the Laboratory (all field sites) for fund authorization, plant property, civilian payroll, and financial inventory purposes.
- UIC - N62190 is used by NRL, USRD for miscellaneous operational purposes.

2. PLANT ACCOUNT HOLDER:

• Yes No (check one)

Data Call I:

Activity: N62190

3. ACTIVITY TYPE:

• HOST COMMAND: .

• Yes No (check one)

4. SPECIAL AREAS: Class 1/Class 2 facilities for which NRL, USRD has responsibility that are not located on or contiguous to the Orlando complex are provided below:

Name (See notes below)	Location	UIC
Leesburg Field Site	Okahumpka, FL	Note 1

NOTE 1: In general, the Leesburg field site is used to conduct research, experiments, and projects that cannot be accommodated at the main site. The field sites and detachments are totally integrated within the main site organizational structure, i.e., no Commanding Officer or Officer-In-Charge (OIC).

5. DETACHMENTS: Detachments/field sites at other locations are provided below:

Name	UIC	Location	Host name	Host UIC
None				

6. BRAC IMPACT: None

7. MISSION:

The Underwater Sound Reference Detachment (USRD) is a facility of the Naval Research Laboratory and is physically located in Orlando, Florida. It is a division of the Warfare Systems and Sensors Research Directorate of NRL.

The mission of USRD is to support NRL in its mission: by serving as the principal activity for the Navy and its contractors in providing accurate calibration, test, and evaluation services on acoustic transducers and materials, in providing a service whereby an inventory or calibrated standard acoustic transducers are maintained for issue, and in performing research and development to advance the state-of-the-art in underwater acoustic materials; and by performing such other functions and tasks as directed by higher authority.

Projected Missions for FY 2001

- No major additions or deletions anticipated.

8. UNIQUE MISSIONS: NRL USRD is chartered to:

- Serve as the principal activity for the Navy and its contractors in providing accurate calibration, test, evaluation and reference standards services on acoustic transducers and materials.

Projected Unique Missions for FY 2001

- No major additions or deletions anticipated.

9. IMMEDIATE SUPERIOR IN COMMAND (ISIC):

- Operational name UIC
 Commanding Officer, Naval Research Laboratory 00173
 - Funding Sources (FY 1993) UIC
- Navy:**
- | | |
|--|---------|
| CNR | 00014 |
| Naval Sea Systems Command | 00024 |
| Space & Naval Warfare Systems Command | 00039 |
| Office of Naval Intelligence | 00015 |
| Naval Supply Systems Command | 00023 |
| Portsmouth Naval Shipyard | 00102 |
| Naval Undersea Warfare Engineering Station | 00253 |
| Navy Engineering Logistics Office (NELO) | 41756 |
| Naval Oceanographic Office | 62306 |
| Navy International Program Office | 68876 |
| Naval Surface Warfare Center | Various |
| Naval Air Warfare Center | Various |
| Naval Undersea Warfare Center | Various |
| Misc. Navy - 13 Activities | Various |

DOD: None

Non-DOD:

Misc. Non-DOD Activities

N/A

10. PERSONNEL NUMBERS:

On Board Count as of 01 January 1994

	Officers	Enlisted	Civilian (Appropriated)
● Reporting Command	<u>0</u>	<u>0</u>	<u>122</u>
● Tenants (total)	<u>0</u>	<u>0</u>	<u>0</u>

Authorized End Strength Positions as of 30 September 1994

	Officers	Enlisted	Civilian (Appropriated)
● Reporting Command	<u>0</u>	<u>0</u>	<u>122¹</u>
● Tenants (total)	<u>0</u>	<u>0</u>	<u>0</u>

11. KEY POINTS OF CONTACT (POC):

<u>Title/Name</u>	<u>Office</u>	<u>Fax</u>	<u>Home</u>
● Commanding Officer			
<u>CAPT Richard M. Cassidy</u>	202-767-3403	202-404-7419	703-573-0818
● Duty Officer (Rotational)	202-767-2505/3435	202-767-3990	[N/A]
● Other POC:			
<u>R. E. Doak</u>	202-767-2371	202-404-7728	410-827-9435

Associate Director of Research for Business Operations

¹ Internal budget allocation

12. TENANT ACTIVITY LIST:

- Tenants residing on main complex (shore commands)

On Board 1/1/94

Tenant Command Name	UIC	Officer	Enlisted	Civilian
None				

- Tenants residing on main complex (home ported units)

Tenant Command Name	UIC	Officer	Enlisted	Civilian
None				

- 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).

On Board 1/1/94

Tenant Command Name	UIC	Location	Officer	Enlisted	Civilian
None					

- Tenants (Other than those identified previously)

Tenant Command Name	UIC	Location	Officer	Enlisted	Civilian
None					

13. REGIONAL SUPPORT:

Activity name	Location	Support function (include mechanism such as ISSA, MOU, etc.)
None	N/A	N/A

Data Call I:

Activity: N62190

14. FACILITY MAPS:

- Local Area Map. - (Refer to Attachment A)
- Installation Map/Activity Map/Base Map/General Development Map/Site Map - (Refer to Attachment B)
- Aerial photo(s). - (Refer to Attachment C)
- Air Installations Compatible Use Zones (AICUZ) Map.
- 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)

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

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

MAJOR CLAIMANT LEVEL

ADM MARC PELAEZ

NAME (Please type or print

Signature

CHIEF OF NAVAL RESEARCH

6 July 1994

Title

Date

ONR

Activity

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

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

W.A. EARNER

W. Earner

Signature

NAME (Please type of print

Signature

Title

Date

NRL-USRD
Data Call 1, Amend 1
Enc 1 (1)

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

Richard M. Cassidy
NAME (Please type or print)

R.M. Cassidy
Signature

Commanding Officer
Title

6/17/94
Date

Naval Research Laboratory
Activity

NRL-USRD
Data Call 1, Amend 1
Encl (1)



DEPARTMENT OF THE NAVY
OFFICE OF NAVAL RESEARCH
800 NORTH QUINCY STREET
ARLINGTON, VA 22217-5660

IN REPLY REFER TO

158

11010
Ser 91/200
6 July 1994

From: Chief of Naval Research
To: Chief of Naval Operations (N44)

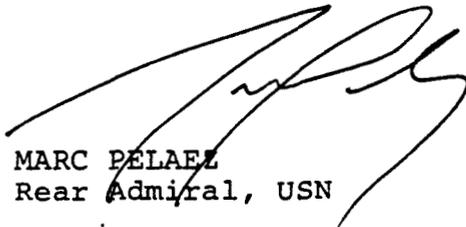
Subj: 1995 BASE REALIGNMENT AND CLOSURE (BRAC) DATA CALL
NUMBER ONE, AMENDMENT ONE

Ref: (a) CNO ltr 11000 Ser N441/4U594637 of 10 Jun 94
(b) CNR ltr 11010 Ser 91/31 of 24 Feb 94

Encl: (1) NRL Detachment, Underwater Sound Reference (USRD),
Orlando, FL Data Call Number One, Amendment One, with
Certifications
(2) Amended NRL Data Call One, with Certification

1. Enclosure (1) forwards information and certification required by reference (a). Enclosure (2) provides an amended NRL Data Call One reflecting the request for a separate data call for NRL-USRD.

2. The ONR point of contact is Mr. Frederick C. Esposito who may be reached on 703-696-4613.



MARC DELAER
Rear Admiral, USN