

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

<b>Category</b>	
<b>Technical Center Site</b>	Navy Clothing & Textile Research Facility
<b>Location/Address</b>	P.O. Box 59 Natick, MA 01760

	<b>Page</b>
<b><u>Mission</u></b>	
1. Mission Statement	1
2. Joint Service Missions	1
<b><u>Technical Functions</u></b>	
3. Technical Functions Resource Allocations	2
<b><u>Manpower</u></b>	
4. Work Breakdown Structure	3
5. Technical Staff Qualifications	7
<b><u>Facilities and Equipment</u></b>	
6. Special Facilities/Equipment Resources	12
7. General Facilities/Equipment Resources	12
<b><u>Location</u></b>	
8. Geographic Location	14
<b><u>Features and Capabilities</u></b>	
9. Computational Facilities	15
10. Mobilization Responsibility and Capability	15
11. Range Resources	16
<b><u>Quality of Life</u></b>	
12. Military Housing	17
13. MWR Facilities	26
14. Base Family Support Facilities	28

15. Metropolitan Areas	29
16. VHA	30
17. Housing Rental	31
18. Sea Intensive Ratings	33
19. Commute	33
20. Educational Opportunities	33
21. Employment Opportunities	36
22. Medical/Dental	36
23. Crime Rate	36

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

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

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

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

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

## MILITARY VALUE MEASURES

### MISSION

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

The Navy Clothing and Textile Research Facility's mission: To conduct research development, test and evaluation, and provide engineering support in clothing, textiles, and related fields associated with service clothing and environmental clothing.

NAVSUPINST 5450.44G

**2. Joint Service Missions.** State any officially assigned joint/lead service assignments missions and cite the documents that assign them.

Collocation with the Army at Natick for research, development, test, and evaluation of clothing and textiles.

Tri-Service Science and Technology Reliance Strategy Report, April 1991.

## 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. Similarly, use the Tab A forms to report on your separate detachments or sites that have not received this data call directly. When necessary, estimate data to the best of your ability.

page \_\_\_\_\_ of \_\_\_\_\_  
UIC \_\_\_\_\_

## MANPOWER

4. **Work Breakdown Structure.** Use Table 4.1 (below) to provide data on the general support functions at your activity. Report data as of 31 May 1994. 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. 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.

page \_\_\_\_\_ of \_\_\_\_\_  
UIC \_\_\_\_\_

**Table 4.1, General Support Resources for** Navy Clothing and Textile Research Facility  
 (Activity: \_\_\_\_\_) (UIC: 62367)

Function	Space allocated (KSF)	Work Years	Civilian Personnel onboard	Contract Work Years	Military Personnel Onboard	
					OII	Enf
<b>ADMINISTRATION</b>						
Command (CO/XO/TD/etc.)	432	1	1	0	1	0
Comptroller	641	4	4	0	0	0
Admin	407	2	2	0	0	0
Human Resources	0	0	0	0	0	0
<b>OPERATIONS SUPPORT</b>						
Supply Management	N/A					
Consolidated Computational Computer Support						
Information Systems and Communications						
Safety/OSH/Environmental						
<b>INFRASTRUCTURE</b>						
Physical Security	N/A					
Public Works/Staff Civil Engr						
Fire Protection						
Medical/Dental						
Military Support						
Air/Waterfront Operations						
Other						
<b>TECHNICAL STAFF</b>						
Technical Operations			39	0	0	0
<b>Totals</b>	1480	7	46	0	1	0

page \_\_\_\_ of \_\_\_\_  
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Table 4.2, General Support Resources for all Detachments  
 (Activity: \_\_\_\_\_) (UIC: 62367 \_\_\_\_\_)

Function	Space allocated (Gross SQFT)	Work Years	Civilian Personnel onboard	Contract Work Years	Military Personnel Onboard	
					Off	Enl
<b>ADMINISTRATION</b>						
Command (CO/ XO/ TD/etc.)	} N/A	} <i>DA</i> SUP 311 5/12/94				
Comptroller						
Admin						
Human Resources						
<b>OPERATIONS SUPPORT</b>						
Supply Management	} N/A	} <i>DA</i> SUP 311 5/12/94				
Consolidated Computational Computer Support						
Information Systems and Communications						
Safety/OSH/Environmental						
<b>INFRASTRUCTURE</b>						
Physical Security	} N/A	} <i>DA</i> SUP 311 5/14/94				
Public Works/Staff Civil Engr						
Fire Protection						
Medical/Dental						
Military Support						
Air/Waterfront Operations						
Other						
<b>TECHNICAL STAFF</b>						
Technical Operations			5	0	0	0
<b>Totals</b>	0	0	5	0	0	0

Table 4.3, Previous BRAC Impact to General Support Resources for (Activity: \_\_\_\_\_) (UIC: 62367) \*SEE NOTE BELOW

Function	Space allocated (Gross SQFT)	Work Years	Civilian Personnel onboard	Contract Work Years	Military Personnel Onboard	
					Off	Enl
<b>ADMINISTRATION</b>						
Command (CO/XO/ TD/etc.)	} N/A (N/A) 5/12/94 300311					
Comptroller						
Admin						
Human Resources						
<b>OPERATIONS SUPPORT</b>						
Supply Management	} N/A (N/A) 5/12/94 300311					
Consolidated Computational Computer Support						
Information Systems and Communications						
Safety/OSH/Environmental						
<b>INFRASTRUCTURE</b>						
Physical Security	} N/A (N/A) 5/12/94 300311					
Public Works/Staff Civil Engr						
Fire Protection						
Medical/Dental						
Military Support						
Air/Waterfront Operations						
Other						
<b>TECHNICAL STAFF</b>						
Technical Operations			5	0	0	0
<b>Totals</b>	0	0	5	0	0	0

Under BRAC-93, the Philadelphia detachment will move with its host activity, Defense Personnel Support Center page \_\_\_\_\_ of \_\_\_\_\_ to the Aviation Supply Office Compound. UIC \_\_\_\_\_

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 May 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** Navy Clothing and Textile Research Facility  
 (Activity: \_\_\_\_\_) (UIC: <sup>62367</sup>\_\_\_\_\_)

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	1	2	3		1	7
B.A./B.S	3	10	4	4	5	26
M.A./M.S			1	3	1	5
Ph.D./M.D.			1			1
<b>Total</b>	4	12	9	7	7	39

**Table 5.2, Technical Staff Education Level for all Detachments**  
 (Parent Activity: \_\_\_\_\_) (UIC: <sup>62367</sup>\_\_\_\_\_)

Navy Clothing and Textile  
 Research Facility - Philadelphia

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			1			1
B.A./B.S		2	1		1	4
M.A./M.S						
Ph.D./M.D.						
<b>Total</b>		2	2		1	5

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 May 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** Navy Clothing and Textile Research Facility  
 (Activity: \_\_\_\_\_) (UIC: <sup>62367</sup>\_\_\_\_\_)

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

page \_\_\_\_\_ of \_\_\_\_\_  
 UIC \_\_\_\_\_

**Table 5.4, Technical Staff Academic Fields for all Detachments** Navy Clothing & Textile Research Facility  
 (Parent Activity: \_\_\_\_\_) (UIC: 62367)

Academic field	Number
Physics	
Chemistry	
Biology	
Mathematics/Statistics/ Operations Research	
Engineering	
Medical	
Dental	
Computer Science	
Social Science	
Other Science	
Non-Science	
<b>Total</b>	None

SEE ATTACHED PAGES FOR FOLLOWING ANSWERS

- c. Are there unique aspects of the activity's location that help or hinder in the hiring of qualified personnel?
- 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.
- 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.
- f. Identify any Nobel laureates employed at this activity.
- g. List all non-governmental awards for research or technical excellence given to members of your technical staff since 1 January 1990.
- h. List all governmental awards for research or technical excellence given to members of your technical staff since 1 January 1990.

page \_\_\_\_\_ of \_\_\_\_\_  
 UIC \_\_\_\_\_

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

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

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

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

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

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

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.

page \_\_\_\_\_ of \_\_\_\_\_  
UIC \_\_\_\_\_

## TECHNICAL STAFF QUALIFICATIONS (CON'T)

5c. Are there unique aspects of the activity's location that help or hinder in the hiring of qualified personnel?

The geographic location is ideal in terms of proximity to Boston, New Bedford/Fall River, and Worcester, all of which have numerous universities from which to recruit and hire personnel in the fields of textile technology, clothing design, and engineering.

5d. List all articles written by the in-house technical staff that were published or accepted for publication in refereed journals since 1 Jan 90.

Giblo, J.W., B.A. Avellini, N.A. Pimental, and A.M. Steinman. Simulation of Rough Seas in a Water Immersion Facility: Part I - Thermal Manikin Evaluation of Various Techniques. Proceedings of the International Conference on Environmental Ergonomics IV:110, 1990.

Pimental, N.A., B.A. Avellini, J.W. Giblo, and A.M. Steinman. Simulation of Rough Seas in a Water Immersion Facility: Part II - Comparison of Laboratory to Field Data. Proceedings of the International Conference on Environmental Ergonomics IV:202, 1990.

Pimental, N.A., B.A. Avellini, J.H. Heaney. Ability of a Passive Microclimate Cooling Vest to Reduce Thermal Strain and Increase Tolerance Time to Work in the Heat. Proceedings of the Fifth International Conference on Environmental Ergonomics V:226, 1992.

Heaney, J.H., K.M. Wilmore, G.R. Banta, M.J. Buono, and N.A. Pimental. The Effects of Microclimate Cooling on Cardiovascular Strain During Work in the Heat. Proceedings of the Fifth International Conference on Environmental Ergonomics V:228, 1992.

Heaney, J.H., K.M. Wilmore, M.J. Buono, G.F. Noffal, T.L. Sopchick, and N.A. Pimental. The Effects of Exercise, Heat, and Microclimate Cooling on Cardiovascular Drift. Medicine and Science in Sports and Exercise 24:157, 1992.

Heaney, J.H., K.M. Wilmore, M.J. Buono, G.F. Noffal, M.D. Hurst, N.A. Pimental, and G.R. Banta. Acclimation and Microclimate Cooling Conserve Plasma Volume During Exercise in the Heat. Aviation, Space, and Environmental Medicine May 1992.

Mellian, S. Uni-Sizing Europe. Apparel Industry Magazine, Sep 1991.

Hall, R. Melt-Stick Characteristics of Flame Retardant-Treated Polyester Cotton-Blend Fabrics. High Tech Fibrous Materials, 1991

Phaneuf, T. New Solvent for Determination of Nonfibrous Content of Textiles. American Association of Textile Chemists and Colorists, 1993

Winer, H. 1976 Protective Clothing for Proximity Fire Fighting 1992 Edition. National Fire Protection Association, 1992.

12<sup>th</sup> JMS  
SUB 31  
5/12/94

5d. Publications (Con't):

Teal, W. B. Development and Evaluation of Prediction Models for Cold Water Immersion. Aviation, Space, and Environmental Medicine, May 1990.

In addition to the above, NCTRF has published numerous technical reports detailing specific project work which would not readily be suitable for publication in the open literature (e.g., Cold Weather Safety Boot, Fire Retardant Officer/CPO Uniform, etc.).

5e. List all technical books and/or chapters written by the in-house technical staff that were published or accepted for publication since 1 Jan 90.

Wojtaszek, R. U.S. Navy Shipboard Protective Clothing. The Science and Technology of Fire-Resistant Materials, 1992.

5f. Identify any Nobel laureates employed at this activity.

NONE

5g. List all non-governmental awards for research or technical excellence given to members of your technical staff since 1 Jan 90.

Standards Engineering Society, presented to Sirvart Mellian, 1992.

5h. List all governmental awards for research or technical excellence given to members of your technical staff since 1 Jan 90.

Air Force Recognition for Workshop on Protective Clothing, presented to Harry Winer, 1991.

NAVSUP Award for PRIME Support, presented to Rosemary Salem, 1992.

Admiral Peoples' Award, presented to NCTRF, 1992.

Civilian Commendation Award, presented to Norman Audet, 1992.

5i. List all patents awarded to the in-house technical staff members of this activity since 1 Jan 90.

NONE

13 *MS* SUP 311  
5/12/94

5j. List all patents applied for by the in-house technical staff members of this activity since 1 Jan 90.

Roy, Maurice U., Record and Disclosure of Invention for Dyeing Process for PBI, Aramid and Blends thereof with Improved Lightfastness Properties, 1991.

Teal, Walter B., Record and Disclosure of Invention of Variable Insulating Material, 1992.

Heath, Cleveland and M.U. Roy, Record and Disclosure of Invention of Multi-Channel Bladder for Inflation Life Vest, 1993.

5k. Identify any in-house staff that are members of the National Academy of Engineering.

NONE

5l. Identify any in-house staff that are members of the National Academy of Sciences.

NONE

5m. How many Cooperative Research and Development Agreements (CRDAs) have been signed by the activity since 1 Jan 90.

One is currently under negotiation.

5n. What has been the activity's annual royalty income from CRDAs and patent licenses for each year since 1 Jan 90.

NONE

5o. 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.

NCTRF's final prototypes are uniforms, protective clothing, and equipment that are fielded to the fleet and to other services. Verification of these work efforts is found in technical reports, as well as, by virtue of its availability through the Supply System and/or at Exchanges. Listed below is a sampling of the types of items that have been fielded by NCTRF and which are currently available for procurement. This is not a comprehensive list of NCTRF products; but reflects only some of the more recent work efforts.

14-0508 31/12/94

50. End Item Prototypes (Cont):

Combination Firefighters Suit (NCTRF Tech Report No. 168, 1988).  
Cold Weather Safety Boot (NCTRF Tech Report No. 169, 1989).  
Women's Sizing and Labeling System (MIL-STD-984 (DOD))  
Proximity Firefighters Glove (NCTRF Tech Report No. 188, 1991).  
Joint Service Lightweight Integrated Suit (Chemical protective  
garments) (Contract N00189-94-M-HJ84).  
Flame Resistant Coverall (MIL-C-24945)  
Flame Resistant Chambray Shirt (MIL-S-87060)  
Flame Resistant Denim Trousers (MIL-T87062)  
Firemen's Coverall (MIL-C-24935)  
Firefighters Gloves (MIL-G-24934)  
Firemen's Helmet (NRCC outfitting contract)  
Cold Weather Jacket (MIL-J-21708)  
Anti-Exposure Suit (MIL-S-29109)  
Flight Deck Jersey (MIL-J-82281)  
Flame Resistant Mark I Life Preserver (MIL-L-24247)  
Microclimate Cooling Systems (NCTRF Tech Report Nos. 176, 180, 181)  
Development of Sizing System for Navy Women's Uniforms (NCTRF Tech  
Report No. 183, 1990).  
Abrasion-Resistant Aluminized-Coated Fabrics (NCTRF Tech Report No.  
160, 1985).  
Shipboard Laundry Formulation (NCTRF Tech Report No 168, 1988).

In addition, all uniform items (bag, optional, officers, etc.) have  
been developed by NCTRF.

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5/12/94

## 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.

**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.

### 7. General Facilities.

a. Is there any cash revenue generated by this activity? Example: Electricity generated at this activity and sold to the local community. If yes, describe. NONE

b. What is the average age of your facilities? Average age is defined as the sum of the ages of on-site buildings (based on beneficial occupance date (BOD)) divided by the total number of buildings. *N/A to Tenant Activity*

c. What MILCON projects are currently programmed to be completed by the end of FY1995? For each project provide: *sup 301*  
*5/12/94*

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.

*12/16* *sup 311* *5/12/94* page \_\_\_\_\_ of \_\_\_\_\_  
UIC \_\_\_\_\_

(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 BOD of the project.

d. What MILCON projects are currently programmed to be executed/completed during or 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 beneficial occupancy date (BOD).

e. What is the distance (in miles) to the nearest military airfield and/or pier not located at your site? Describe.

see below

f. How many certified magazines, used for the storage of explosives, does this activity own or control? What is the total explosive weight storage capacity?

NONE

e. 15 miles to Hanscom Air Force Base  
34 miles to Naval Air Station, South Weymouth  
26 miles to USS Constitution piers

1517  
5/12/94

page \_\_\_\_\_ of \_\_\_\_\_  
UIC \_\_\_\_\_

## LOCATION

### 8. Geographic Location

8a. Is there an imperative in facility, function, or synergy that requires the installation/base to be in its present location? If yes, describe.

Yes, NCTRF is located in Natick, MA, which, under Project Reliance, was designated as the Center of Excellence for Clothing and Textile (C&T). NCTRF is a tenant activity at the U.S. Army Natick Research, Development, and Engineering Center (NRDEC), which has as one of its missions to develop C&T for the U.S. Army. This collocation allows for sharing of specialized facilities and technology initiatives. NCTRF also provides administrative office space and support, as well as, laboratory, design, and pattern-making capabilities to the U.S. Coast Guard. Also located at Natick is a liaison for the Marine Corps C&T programs. The U.S. Army Research Institute of Environmental Medicine (USARIEM), which is another tenant at the NRDEC base, provides medical support services to NCTRF for the human tests and evaluations of the developed clothing and equipment.

8b. What is the importance of the present location relative to customers supported?

Because all testing capabilities are located either at NCTRF or our host, NRDEC, the location permits quick response to customers needs. Acquisition support of all uniforms and protective clothing - including, but not limited to, shade analysis, laboratory evaluations, and quality assurance - can easily be accomplished at the current location because of ease of access to the required equipment. Research and development projects to support customers' needs are enhanced through the interchange with Army R&D personnel.

H/18 *OK*  
SUP 311  
5/12/94

## 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.

See attached

b. Describe modeling and simulation capabilities, hardware in-the-loop facilities and analysis or wargaming capabilities. *none* *5/12/94*  
*SUP 311*

### 10. Mobilization Responsibility and Capability.

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

NONE ARE ASSIGNED

(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.

page \_\_\_\_\_ of \_\_\_\_\_  
UIC \_\_\_\_\_

*15-19* *5/12/94*  
*SUP 311*

## FEATURES AND CAPABILITIES

### 9. Computational Facilities

NCTRF has desktop computers for office automation linked by a peer to peer network in each Division. In addition, as a tenant activity, we are linked to the LAN of the U.S. Army Natick Research, Development and Engineering Center, which gives us e-mail and Internet connectivity, as well as access to supercomputing and parallel computing via the National Research and Engineering Network. Special computing facilities within NCTRF include a CAD/CAM system to design and produce clothing patterns, data acquisition for special scientific equipment, remote terminal links to Great Lakes, IL and Pensacola, FL and links to Navy SATO for travel document preparation. During 4Q94, we expect to implement a LAN at NCTRF based on client/server technology. This new LAN will be tied into our host's fiber optic backbone and will provide interconnectivity among our laboratory and administration buildings, as well as, our Philadelphia detachment.

~~15A~~ 20 *MS*  
SUP 311  
5/12/94

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?

The Defense Personnel Support Center's Reserve Unit for Clothing & Textiles drills  
11. **Range Resources.** Include a copy of the form provided at Tab C of this data call for at NCTRF. each range located at this activity or operated by this activity. Do not include information on separate detachments. 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.

NONE

16-21 SUP311 5/12/04 page \_\_\_\_\_ of \_\_\_\_\_  
UIC \_\_\_\_\_

*Revised page***QUALITY OF LIFE****12. Military Housing****(a) Family Housing:**(1) Do you have mandatory assignment to on-base housing? (circle) yes **no**

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

Type of Quarters	Number of Bedrooms	Total number of units	Number Adequate	Number Substandard	Number Inadequate
Officer	4+	13	13	0	0
Officer	3	19	19	0	0
Officer	1 or 2	6	6	0	0
Enlisted	4+	2	2	0	0
Enlisted	3	18	18	0	0
Enlisted	1 or 2	27	27	0	0
Mobile Homes		0	0	0	0
Mobile Home lots		0	0	0	0

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

Facility type/code:

What makes it inadequate?

What use is being made of the facility?

What is the cost to upgrade the facility to substandard?

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

Current improvement plans and programmed funding:

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

page 1 of 27  
UIC N62367

\* Information provided by host activity, <sup>17</sup> U.S. Army Natick Research, Development and Engineering Center (NRDEC). NRDEC asks NCTRF if officer housing is needed (NCTRF has only one military billet).

## QUALITY OF LIFE

12. **Military Housing** - Does not pertain to Navy Clothing and Textile Research Facility as a tenant facility.

a. Family Housing:

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

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

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

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

Facility type/code:

What makes it inadequate?

What use is being made of the facility?

What is the cost to upgrade the facility to substandard?

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

Current improvement plans and programmed funding:

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

page \_\_\_\_\_ of \_\_\_\_\_  
 UIC \_\_\_\_\_  
 17 22 *OKs*  
           *sup 3/18*  
           *5/14/94*

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

Pay Grade	Number of Bedrooms	Number on List <sup>1</sup>	Average Wait
O-6/7/8/9	1	0	
	2	0	
	3	0	
	4+	0	
O-4/5	1	0	
	2	0	
	3	1	12 months
	4+		
O-1/2/3/CWO	1	0	
	2	2	6-12 months
	3	0	
	4+	0	
E7-E9	1	0	
	2	0	
	3	1	18 months
	4+	0	
E1-E6	1	0	
	2	2	12-18 months
	3	0	
	4+	0	

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

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

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

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

1823 *sup 311* 5/12/94 page \_\_\_\_ of \_\_\_\_  
UIC \_\_\_\_\_

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

Top Five Factors Driving the Demand for Base Housing	
1	Local real estate unaffordable across the board (high cost area).
2	High housing cost and tight rental market.
3	Most rentals require security deposits and finders fees.
4	Affordable housing is inadequate.
5	High technological populated area with very high civilian pay.

(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)? Reference not available.

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

Type of Quarters	Utilization Rate
Adequate	99.5%
Substandard	0
Inadequate	0

(8) As of 31 March 1994, have you experienced much of a change since FY 1993? If so, why? If occupancy is under 98% ( or vacancy over 2%), is there a reason?  
Yes, due to downsizing waiting time for housing is shorter on the officer side. About the same for enlisted, some officer units remaining open longer than normal.

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

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

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

(7) Provide the utilization rate for family housing for FY1993.

Type of Quarters	Utilization Rate
Adequate	
Substandard	
Inadequate	

(8) As of 31 March 1994, have you experienced much of a change since FY1993? If so, why? If occupancy is under 98% (or vacancy over 2%), is there a reason?

b. BEQ:

(1) Provide data on the 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.

1924 *QMS* SUP 311 5/12/94 page \_\_\_ of \_\_\_  
UIC \_\_\_\_\_

(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.

Facility Type, Bldg. # & CCN	Total No. of Beds	Total No. of Rooms	Adequate *		Substandard		Inadequate	
			Beds	Sq Ft	Rooms	Sq Ft	Beds	Sq Ft
** 15	70	36						
** Barracks					19	2736		
					17	4896		

(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:

- 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?

\*Rooms substandard by AR 220-50

\*\* BLDGS are NOT ASSIGNED TO NCTRF'S PLANT ACCOUNT. THEY ARE ASSIGNED to the HOST'S PLANT ACCOUNT.

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SUP311  
8/29/94

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

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

- (a) FACILITY TYPE/CODE:
- (b) WHAT MAKES IT INADEQUATE?
- (c) WHAT USE IS BEING MADE OF THE FACILITY?
- (d) WHAT IS THE COST TO UPGRADE THE FACILITY TO

SUBSTANDARD?

- (e) WHAT OTHER USE COULD BE MADE OF THE FACILITY

AND AT WHAT COST?

- (f) CURRENT IMPROVEMENT PLANS AND PROGRAMMED

FUNDING:

- (g) HAS THIS FACILITY CONDITION RESULTED IN C3 OR C4

DESIGNATION ON YOUR BASEREP?

20-25 *OK* sub 311 page \_\_\_\_\_ of \_\_\_\_\_  
5/12/4 UIC \_\_\_\_\_

R Revised page

(3) Provide data on the BOQs and BEQs projected to be assigned to your plant account in FY 1997. The desired unit of measure for this capacity is people housed. Use CCN to differentiate between pay grades, i.e., E1-E4, B5-E6, E7-E9, CWO-O2, O3 and above.

Facility Type, Bldg. # & CCN	Total No. of Beds	Total No. of Rooms	Adequate		Substandard		Inadequate	
			Beds	Sq Ft	Beds	Sq Ft	Beds	Sq Ft
* (Near) 15		50		22,500				
* New Barracks								

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

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

\* BLDGS Are not assigned to NCTRF's PLANT Account. They are assigned to the host's Plant account. *[Signature]*  
 SUP311  
 8/29/94

*Reviewed  
page*

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

Facility Type, CCN and Bldg. #	Total Sq. Ft.	Adequate		Substandard		Inadequate		Avg # Noon Meals Served
		Seats	Sq Ft	Seats	Sq Ft	Seats	Sq Ft	
* 15		70	800					

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

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

\* BLDG is not assigned to NCTRF's PLANT Account. It is assigned to the host's PLANT account. *WJ*  
 SUP 311  
 8/29/94

24  
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(7) Provide data on the messing facilities projected to be assigned to your plant account in FY 1997. No change projected.

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

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

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

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

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

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

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

Revised page

(b) BEQ: There are no BEQ's, only barracks

(1) Provide the utilization rate for BEQs for FY 1993. *N/A*

*DA 8/29/94  
SUP 311*

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:

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

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

Reason for Separation from Family	Number of GB	Percent of GB	Comments
Family Commitments (children in school, financial, etc.)	1	33.3	
Spouse Employment (non-military)	1	33.3	
Other	1	33.3	
<b>TOTAL</b>	<b>3</b>	<b>100</b>	

(5) How many geographic bachelors do not live on base? *None*

c. BOQ:

(1) Provide data on the BOQs assigned to your current plant account. The desired unit of measure for this capacity is people housed. Use CCN to differentiate between pay grades CWO-02 and 03 and above.

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

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

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

  
 23 28 SUP 311 page \_\_\_\_\_ of \_\_\_\_\_  
 5/12/94 UIC \_\_\_\_\_

(5) Provide the utilization rate for BEQs for FY1993.

Type of Quarters	Utilization Rate
Adequate	
Substandard	
Inadequate	

(6) 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?

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

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

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

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

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

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 Jul 31  
 7/2/94 page \_\_\_\_ of \_\_\_\_  
 UIC \_\_\_\_\_

22 27

Revised page

(c) BOQ:

(1) Provide the utilization rate for BOQs for FY 1993. No BOQ available at host command.

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? <sup>N/A</sup>

(3) Calculate the Average-on-Board (AOB) for geographic bachelors as follows: <sup>N/A</sup>

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

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

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

(5) How many geographic bachelors do not live on base? <sup>N/A</sup>

(3) Provide data on the BOQs projected to be assigned to your plant account in FY 1997. The desired unit of measure for this capacity is people housed. Use CCN to differentiate between pay grades CWO-02 and 03 and above.

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

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

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

(5) Provide the utilization rate for BOQs for FY1993.

Type of Quarters	Utilization Rate
Adequate	
Substandard	
Inadequate	

24-29 5/12/94 page \_\_\_ of \_\_\_  
 sub 311 UIC \_\_\_\_\_

(6) As of 31 March 1994, have you experienced much of a change since FY1993? If so, why? If occupancy is under 95% (or vacancy over 5%), is there a reason?

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

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

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

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

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

2530 *OKs* *sup 311* *5/14/94* page \_\_\_\_\_ of \_\_\_\_\_  
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R  
 12-1-2002  
 page

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

LOCATION All On-Site DISTANCE \_\_\_\_\_

Facility	Unit of Measure	Total	Profitable (Y,N,N/A)
Auto Hobby	Indoor Bays	1	N/A
	Outdoor Bays	-	-
Arts/Crafts	SF	-	-
Wood Hobby	SF	165	N/A
Bowling	Lanes	-	-
Enlisted Club	SF	3,500	Y
Officer's Club	SF	12,500	Y
Library	SF	-	-
Library	Books	-	-
Theater	Seats	-	-
ITT	SF	-	-
Museum/Memorial	SF	-	-
Pool (indoor)	Lanes	-	-
Pool (outdoor)	Lanes	5	N/A
Beach	LF	-	-
Swimming Ponds	Each	-	-
Tennis CT	Each	2	N/A

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

26  
 31

13. **MWR Facilities.** For on-base MWR facilities<sup>2</sup> available, complete the following table for each separate location. For off-base government owned or leased recreation facilities indicate distance from base. If there are any facilities not listed, include them at the bottom of the table. N/A as a tenant activity

**LOCATION** \_\_\_\_\_ **DISTANCE** \_\_\_\_\_

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

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

  
 26-31 SUP 30  
 3/12/94  
 page \_\_\_\_\_ of \_\_\_\_\_  
 UIC \_\_\_\_\_

*revised pg*

Facility	Unit of Measure	Total	Profitable (Y,N,N/A)
Volleyball CT (outdoor)	Each	-	-
Basketball CT (outdoor)	Each	1	N/A
Racquetball CT	Each	-	-
Golf Course	Holes	-	-
Driving Range	Tee Boxes	-	-
Gymnasium	SF	-	-
Fitness Center	SF	400	N/A
Marina	Berths	-	-
Stables	Stalls	-	-
Softball Fld	Each	1	N/A
Football Fld	Each	-	-
Soccer Fld	Each	-	-
Youth Center	SF	-	-

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

*27*  
*32*

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?

  
 Aug 311 page \_\_\_\_\_ of \_\_\_\_\_  
 5/12/91 UIC \_\_\_\_\_  
 2T32

14. Base Family Support Facilities and Programs.

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

Age Category	Capacity (Children)	SF			Number on Wait List	Average Wait (Days)
		Adequate	Substandard	Inadequate		
0-6 Mos	N/A					*
0-12 Mos	4	X			11	
12-24 Mos	5	X			7	
24-36 Mos	10	X			6	
3-5 Yrs	11	X			5	

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

- Facility type/code:
- What makes it inadequate?
- What use is being made of the facility?
- What is the cost to upgrade the facility to substandard?
- What other use could be made of the facility and at what cost?
- Current improvement plans and programmed funding:
- Has this facility condition resulted in C3 or C4 designation on your BASEREP?

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

d. How many "certified home care providers" are registered at your base? None

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).  
None

\*NA since Child Development Center just opened in April, 1994

**14. Base Family Support Facilities and Programs.** N/A as a tenant facility

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

Age Category	Capacity (Children)	SF			# of PN on Wait List	Avg Wait (Days)
		Adequate	Substandard	Inadequate		
0-6 Mos						
6-18 Mos						
18Mos-5yrs						

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

Facility type/code:

What makes it inadequate?

What use is being made of the facility?

What is the cost to upgrade the facility to substandard?

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

Current improvement plans and programmed funding:

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

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

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

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

*2833* *sub 311* *5/12/94* page        of         
UIC

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	1
Gas Station	SF	0
Auto Repair	SF	0
Auto Parts Store	SF	0
Commissary	SF	0
Mini-Mart	SF	0
Package Store	SF	0
Fast Food Restaurants	Each	0
Bank/Credit Union	Each	1
Family Service Center	SF	0
Laundromat	SF	0
Dry Cleaners	Each	1
ARC	PN	0
Chapel	PN	0
FSC Classrm/Auditorium	PN	0

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

City	Distance (Miles)
Boston	20
Worcester	25
Providence, RI	30

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

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

15. Proximity of closest major metropolitan areas (provide at least three):

City	Distance (Miles)
Boston	20 Miles
Worcester	25 Miles
Providence, R.I.	30 Miles

*Sup*  
 SUP 311  
 5/14/94  
 29 34  
 page \_\_\_\_\_ of \_\_\_\_\_  
 UIC \_\_\_\_\_

revised pg

16. Standard Rate VHA Data for Cost of Living:

Paygrade	With Dependents	Without Dependents
E1	312.70	174.96
E2	312.70	196.64
E3	308.05	226.98
E4	335.53	234.17
E5	326.89	228.24
E6	349.16	237.68
E7	453.01	314.69
E8	445.50	336.79
E9	491.27	372.93
W1	557.18	423.16
W2	566.29	444.16
W3	588.17	478.12
W4	586.12	519.68
O1E	511.59	379.48
O2E	528.82	421.62
O3E	550.45	465.68
O1	494.91	364.69
O2	474.17	370.62
O3	516.58	434.93
O4	667.10	580.12
O5	682.01	564.01
O6	658.65	545.17
O7	619.99	503.73

30  
35

16. Standard Rate VHA Data for Cost of Living:

Paygrade	With Dependents	Without Dependents
E1	312.70	174.96
E2	312.70	196.64
E3	308.05	226.98
E4	335.53	234.17
E5	326.89	228.24
E6	349.16	237.68
E7	453.01	314.69
E8	445.50	336.79
E9	491.27	372.93
W1	557.18	423.16
W2	566.29	444.16
W3	588.17	478.12
W4	586.12	519.68
O1E	511.59	379.48
O2E	528.82	421.62
O3E	550.45	465.68
O1	494.91	364.69
O2	474.17	370.62
O3	516.58	434.93
O4	667.10	580.12
O5	682.01	564.01
O6	658.65	545.17
O7	619.99	503.73

SUP 311  
 5/12/94 page \_\_\_ of \_\_\_  
 3035 UIC \_\_\_\_\_

**17. Off-base Housing Rental and Purchase**

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

Type Rental	Average Monthly Rent		Average Monthly Utilities Cost
	Annual High	Annual Low	
Efficiency	650	400	75
Apartment (1-2 Bedroom)	750	500	85
Apartment (3+ Bedroom)	1200	750	90
Single Family Home (3 Bedroom)	1500	900	130
Single Family Home (4+ Bedroom)	1600	1200	140
Town House (2 Bedroom)	1500	900	120
Town House (3+ Bedroom)	1600	1200	140
Condominium (2 Bedroom)	900	650	90
Condominium (3+ Bedroom)	1200	1000	95

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

Type Rental	Percent Occupancy Rate
Efficiency	75%
Apartment (1-2 Bedroom)	75%
Apartment (3+ Bedroom)	75%
Single Family Home (3 Bedroom)	75%
Single Family Home (4+ Bedroom)	75%
Town House (2 Bedroom)	75%
Town House (3+ Bedroom)	75%
Condominium (2 Bedroom)	75%
Condominium (3+ Bedroom)	75%

**17. Off-base housing rental and purchase**

This information is being provided by our host activity, U. S. Army Natick Research, Engineer and Development Center, (UIC W038AA)

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

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

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

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

SUP 311 page \_\_\_\_\_ of \_\_\_\_\_  
 3136 3/12/94 UIC \_\_\_\_\_

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

Type of Home	Median Cost
Single Family Home (3 Bedroom)	\$180,000
Single Family Home (4+ Bedroom)	\$220,000
Town House (2 Bedroom)	\$90,000
Town House (3+ Bedroom)	\$120,000
Condominium (2 Bedroom)	\$90,000
Condominium (3+ Bedroom)	\$120,000

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

Month	Number of Bedrooms		
	2	3	4+
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

No homes available for purchase within E5 BAQ and VHA price range.

32  
37

c. What are the median costs for homes in the area?

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

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

Month	Number of Bedrooms		
	2	3	4+
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

  
 SUP 34 page \_\_\_\_\_ of \_\_\_\_\_  
 3237 5/12/94 UIC \_\_\_\_\_

*Handwritten signature*

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

High civilian salaries in high tech area drive costs of homes up .

18. For the top five sea intensive ratings in the principle 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. Complete the following table for the average one-way commute for the five largest concentrations of military and civilian personnel living off-base. (Navy Associates only)

Location	% Employees	Distance (mi)	Time(min)
1	13	2-10	10-20
2	39	15-20	25-35
3	20	23-27	35-50
4	13	30-43	60-75
5	15	65-70	75-85

- 1 - Ashland, Framingham, Newton, and Natick
- 2 - Marlboro, Medfield, Holliston, Medway, Quincy, Bellingham, Franklin, and Grafton
- 3 - Milford, Grafton, and Plainville
- 4 - Sutton, Rehoboth, E. Douglas, Salem, and Windham, NH
- 5 - Plymouth, Sanford, ME, Acushnet, Wareham, and Fall River

35  
38

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

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

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

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

Location	% Employees	Distance (mi)	Time(min)
Franklin, MA area	25%	15-18	25-30
Near Cape Cod	15%	60-65	1.5 hrs
Near Rhode Island	15%	25	40-50 mins
Worcester Area	10%	25 - 30	45 - 60
Natick/Framingham	10%	3-5	10 - 15

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

This information is being provided by our host activity, U.S. Army Natick Research Development and Engineering Center (UIC W038AA)

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,

33-38  
 5/12/94  
 SUP311  
 page \_\_\_\_\_ of \_\_\_\_\_  
 UIC \_\_\_\_\_

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

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

Institution	Type	Grade Level(s)	Special Education Available	Annual Enrollment Cost per Student	1993 Avg SAT/ACT Score	% HS Grad to Higher Educ	Source of Info
Natick	Public	K-12	Yes	\$6,057	467/ 516	83%	1.
Needham	Public	K-12	Yes	\$5,482	472/ 538	79%	2.
Wayland	Public	K-12	Yes	\$6,753	488/ 543	90%	3.
Hudson	Public	K-12	Yes	\$4,584	410/ 480	47%	4.

1. Natick Guidance Department - Ms. Dirieno
2. & 4. School District Profiles - Parent Information Center, Executive Office of Education, Ashburton Place Room 1401, Boston, MA 02108
3. Department of Education - Ms. Phyllis Rogers

NOTE: These towns were selected because there is already military housing in these towns

34  
38A

(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. Please see below.

Institution	Type Classes	Program Type(s)				
		Adult High School	Vocational/ Technical	Undergraduates		Graduate
				Courses only	Degree Program	
SEE	Day					
	Night					
ATTACHMENT 1	Day					
	Night					
	Day					
	Night					
	Day					
	Night					

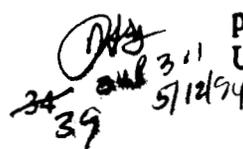
There are over 85 major colleges and universities within thirty miles (BRAC Data Call 65, pages 27-29, lists the schools). Most colleges and universities have both day and evening classes that can be taken for courses only or leading to an undergraduate and graduate degrees. Most of the high schools and vocational schools offer adult education courses.

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

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

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


 page \_\_\_\_\_ of \_\_\_\_\_  
 UIC \_\_\_\_\_  
 34 39 5/12/94

(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. There are no such programs offered on base.

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

36  
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c. List the educational institutions which offer programs on-base available to service members and their adult dependents. Indicate the extent of their programs by placing a "Yes" or "No" in all boxes as applies.

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

35  
 40  
 sup 31  
 5/12/94  
 page \_\_\_\_\_ of \_\_\_\_\_  
 UIC \_\_\_\_\_

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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 :

American International College  
Amherst College  
Aquinas College at Milton  
Aquinas College at Newton  
Assumption College  
Atlantic Union College  
Babson College  
Bay Path College  
Bay State College  
Becker College: Leicester Campus  
Becker College: Worcester Campus  
Bentley College  
Berklee College of Music  
Berkshire Community College  
Boston Architectural Center  
Boston College  
Boston Conservatory of Music  
Boston University  
Bradford College  
Brandeis University  
Bridgewater State College  
Bristol Community College  
Bunker Hill  
Cape Cod Community College  
Clark University  
College of the Holly Cross  
Curry College  
Dean Junior College  
Eastern Nazarene College  
Elms College  
Emerson College  
Emmanuel College  
Endicott College  
Essex Agricultural and Technical Institute  
Fisher College  
Fitchburg College  
Framingham State College  
Franklin Insitute of Boston  
Gordon College  
Greenfield Community College  
Hampshire College  
Harvard and Radcliffe Colleges  
Hebrew College  
Hellenic College

27  
40

ATTACHMENT 1

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DATA CALL 65  
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Holyoke Community College  
Katharine Gibbs School  
Lasell College  
Lesley College  
Marian Court Junior College  
Massachusetts Bay Community College  
Massachusetts College of Pharmacy and Allied Health Sciences  
Massachusetts Institute of Technology  
Massachusetts Maritime Academy  
Massasoit Community College  
Merrimack College  
Middlesex Community College  
Mount Holyoke College  
Mount Ida College  
Nichols College  
North Adams State College  
North Shore Community College  
Northeastern University  
Northern Essex Community College  
Pine Manor College  
Quincy College  
Quinsigamond Community College  
Roxbury Community College  
St. Hyacinth College and Seminary  
Salem State College  
School of the Museum of Fine Arts  
Simmons College  
Smith College  
Springfield College  
Springfield Technical Community College  
Stonehill College  
Suffolk University  
Tufts University  
University of Massachusetts at Amherst  
University of Massachusetts at Boston  
University of Massachusetts at Dartmouth  
University of Massachusetts at Lowell  
Wellesley College  
Wentworth Institute of Technology  
Western New England College  
Westfield State College  
Wheaton College  
Wheelock College  
Williams College  
Worcester Polytechnic Institute  
Worcester State College

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DATA CALL 65  
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Source of Data (3.b.3) Colleges):	Source of Data Colleges:
	College Hand Book
	College Entrance
	Examination Board
	New York

*Review 3/11/94  
SUP 7/19/94*

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:

- Acushnet - Old Colony Voc. Tech.
- Acton - Minute Man Voc. Tech.
- Framingham - So. Middlesex Voc. Tech.
- Franklin - Tri-County
- Holliston - So. Middlesex Voc. Tech.
- Lincoln - Minute Man Voc. Tech.
- Natick - So. Middlesex Voc. Tech.
- Norwood - Blue Hills Voc. Tech.
- Saugus - Northeast Metro Voc. Tech.
- Wareham - Upper Cape Cod Voc. Tech.

Curriculums of above schools not available From Department of Education. Schools are not presently in session to obtain this information.

Source of Data (3.b.4) Vo-tech Training):	Commonwealth of Massachusetts Department of Education 350 Main Street Malden, MA 02148- 5023 (617) 388-3396 (Lisa)
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## 21. Spousal Employment Opportunities.

Provide the following data on spousal employment opportunities.

Skill Level	* Number of Military Spouses Serviced by Family Service Center Spouse Employment Assistance			Local Community Unemployment Rate
	1991	1992	1993	
Professional				6%
Manufacturing				6%
Clerical				6%
Service				6%
Other				6%

\*Natick military spouses serviced by off-site (Ft. Devens Army Office).

## 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.

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.

Both military and their dependents don't have any difficulty accessing medical or dental care. Weymouth Naval Air Station provides medical and dental treatment for the Officer in Charge (the only military position) and his dependents. If referrals are needed, they are provided. Massachusetts has the finest medical facilities in the country and in some cases, the world.

21. Spousal Employment Opportunities.

*none* *5/12/94*  
*SUP 311*  
~~N/A to tenant activity~~

Provide the following data on spousal employment opportunities.

	Number of Military Spouses Served by Family Service Center Spouse Employment Assistance			Percentage Placed (3 yr avg)	Local Community Unemployment Rate
	1991	1992	1993		
Professional					
Manufacturing					
Clerical					
Service					
Other					

22. Medical/Dental.

SEE ATTACHED

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.

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.

23. **Crime Rate.** Complete the table below to indicate the crime rate for your city for the last three fiscal years. The source for case category definitions to be used in responding to this question is found in NCIS - Manual dated 23 February 1989, entitled "Case Category Definitions." Note: the crimes reported in this table should include 1) all reported criminal activity which occurred on site 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 site.

This information is being provided by our host activity, US Army Natick Research, Development, and Engineering Center, (UIC W038AA).

*5/12/94* page      of       
*SUP 311* UIC       
*36*  
*41*

## 22. Medical/Dental

a. Active Duty: Dental care is available at Hanscom AFB (15 miles); Navy dental care is available at NAS S. Weymouth (34 miles) and Newport RI (105 miles). First response medical care is available on base from an Army clinic; referrals are written to the Ft. Devens Health Clinic (as applicable) (45 miles) or to the Brighton Marine Hospital in Boston (22 miles). Navy health physicals are available in Newport RI (105 miles).

b. Military dependents: Dental care is available from civilian sources and reimbursed through Delta Dental. Medical care is available (but limited due to number/kind of doctors) from same sources as mentioned for active duty. Most dependent care is obtained from civilian sources and reimbursed through CHAMPUS.

*W* SUP 311  
5/12/94  
~~36A~~ 42

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REQUEST FOR CLARIFICATION

NAVY CLOTHING AND TEXTILE RESEARCH FACILITY  
NATICK, MASSACHUSETTS

1. Clarification was requested for:

Violent Crime Rate  
Property Crime Rate  
Drug Crime Rate

1. The following information is provided for Violent and Property Crime Rates:

<u>Calendar Year</u>	<u>Violent Crime Rate</u>	<u>Property Crime Rate</u>
1992	89	692
1993	54	588
1/1/94 - 7/31/94	75	297

2. This information was provided by the Natick Police Department (Lt. Peter Mason). The department does not segregate drug crimes. The town of Natick provides statistical information to the FBI under the Uniform Crime Report Standards, which requires that the most serious crime committed be reported. If there was a breaking and entering report and drugs were found, it would be considered breaking and entering for statistical purposes and not categorized as a drug crime.

End (1)

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.

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Crime Definitions	FY 1991	FY 1992	FY 1993
1. Arson (6A)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
2. Blackmarket (6C)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
3. Counterfeiting (6G)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
4. Postal (6L)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

3843.

NOTE: Natick MA is a suburban community with a very low crime rate.

Crime Definitions	FY1991	FY1992	FY1993
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			

3T 43 sub 311  
 5/12/94 page \_\_\_ of \_\_\_  
 UIC \_\_\_\_\_

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Crime Definitions	FY 1991	FY 1992	FY 1993
5. Customs (6M)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
6. Burglary (6N)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
7. Larceny - Ordnance (6R)	0		0
Base Personnel - military			
Base Personnel - civilian		1	
Off Base Personnel - military			
Off Base Personnel - civilian			
8. Larceny - Government (6S)			0
Base Personnel - military	2	1	
Base Personnel - civilian	3	1	
Off Base Personnel - military			
Off Base Personnel - civilian			

39  
44

Crime Definitions	FY1991	FY1992	FY1993
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			

*OKS*  
 3844 5/12/94 page \_\_\_\_\_ of \_\_\_\_\_  
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Crime Definitions	FY 1991	FY 1992	FY 1993
9. Larceny - Personal (6T)			0
Base Personnel - military	2	1	
Base Personnel - civilian	3	1	
Off Base Personnel - military			
Off Base Personnel - civilian			
10. Wrongful Destruction (6U)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
11. Larceny - Vehicle (6V)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
12. Bomb Threat (7B)	0	1 (UNK)	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

40  
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Crime Definitions	FY1991	FY1992	FY1993
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			

2845  
 5/14/94  
 30P311 page \_\_\_ of \_\_\_  
 UIC \_\_\_

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Crime Definitions	FY 1991	FY 1992	FY 1993
13. Extortion (7E)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
14. Assault (7G)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
15. Death (7H)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
16. Kidnapping (7K)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

41  
46

Crime Definitions	FY1991	FY1992	FY1993
13. Extortion (7E)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
14. Assault (G)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
15. Death (H)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
16. Kidnapping (K)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

48 46  
 5/12/94  
 page \_\_\_\_\_ of \_\_\_\_\_  
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Crime Definitions	FY 1991	FY 1992	FY 1993
18. Narcotics (7N)			
Base Personnel - military		1	
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		5	1
Base Personnel - civilian		28	10
Off Base Personnel - military			
Off Base Personnel - civilian			

42  
47

Crime Definitions	FY1991	FY1992	FY1993
18. Narcotics (N)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
19. Perjury (P)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
20. Robbery (R)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
21. Traffic Accident (T)			
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

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 5/12/94  
 4/27  
 page \_\_\_\_ of \_\_\_\_  
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Crime Definitions	FY 1991	FY 1992	FY 1993
22. Sex Abuse - Child (8B)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
23. Indecent Assault (8D)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
24. Rape (8F)	0	0	
Base Personnel - military			1
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			
25. Sodomy (8G)	0	0	0
Base Personnel - military			
Base Personnel - civilian			
Off Base Personnel - military			
Off Base Personnel - civilian			

43  
48

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

42  
 48  
 SUP 311  
 5/12/94  
 page \_\_\_\_\_ of \_\_\_\_\_  
 UIC \_\_\_\_\_

**TAB A**

**TECHNICAL OPERATIONS**

**FUNCTIONAL SUPPORT AREA - LIFE CYCLE WORK AREA FORM**

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

Technical Center Site	Navy Clothing & Textile Research Facility
Functional Support Area	10.6.5 Clothing and Textiles
Life Cycle Work Area	2. Exploratory Development

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

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 11.1 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. \$(K) 792

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) 419

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

Note:

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

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

**TAB A**  
Page      of       
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**TECHNICAL FUNCTIONS  
FUNCTIONAL SUPPORT AREA/LIFE CYCLE WORK AREA FORM**

Technical Center Site	Navy Clothing & Textile Research Facility
Functional Support Area	10.6.5 Clothing and Textiles
Life Cycle Work Area	3. Adv. Development

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

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 12.2 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. \$(K) 990

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) 225

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

Note:

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

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

TAB A  
Page \_\_\_ of \_\_\_  
UIC: \_\_\_\_\_

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5/12/94

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

Technical Center Site	Navy Clothing & Textile Research Facility
Functional Support Area	10.6.5 Clothing and Textiles
Life Cycle Work Area	4. Engineering & Manufacturing Development

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

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 1.6 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) 110

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

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

Note:

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

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

**TAB A**  
Page \_\_\_ of \_\_\_  
UIC: \_\_\_\_\_

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

Technical Center Site	Navy Clothing & Textile Research Facility
Functional Support Area	10.6.5 Clothing and Textiles
Life Cycle Work Area	10. Program Support

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

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 10.4 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) 508

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

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

Note:

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

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

TAB A  
Page \_\_\_ of \_\_\_  
UIC: \_\_\_\_\_

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311  
5/12/94

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

Technical Center Site	Navy Clothing & Textile Research Facility
Functional Support Area	10.6.5 Clothing and Textiles
Life Cycle Work Area	14. In-service engineering

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. 13.3 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. \$(K) 754

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) 146

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

Note:

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

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

TAB A  
Page \_\_\_ of \_\_\_  
UIC: \_\_\_\_\_

#5 *[Signature]*  
Sub 31  
5/12/94

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

Technical Center Site	Navy Clothing & Textile Research Facility - Philadelphia detachment
Functional Support Area	10.6.5 Clothing and Textiles
Life Cycle Work Area	10. Program Support

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

**1. In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 6.3 WYs

**2. Expenditures.**

**a. In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. \$(K) 324

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

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

**Note:**

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

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

**TAB A**  
Page \_\_\_ of \_\_\_  
UIC: \_\_\_\_\_

#6 *[Signature]*  
SUP 311  
5/12/94

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

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

Technical Center Site	Navy Clothing & <del>Textile Research Facility</del>
Facility/Equipment Nomenclature or Title	SEE ATTACHED

1. State the primary purpose(s) of the facility/equipment.
2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 12 of this data call.
3. Provide the replacement value of the facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.
4. Provide the gross weight and cube of the facility/equipment.
5. Indicate any "special" utility support required by this facility/equipment other than normal electrical power.
6. Indicate any special budget requirements for the facility/equipment (i.e., special foundations, non-ferrous materials, shielding, hardening, etc.).
7. State any environmental control requirements for the facility/equipment (i.e., temperature, humidity, air scrubbing).
8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the Department of the Navy if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.
9. Indicate how and when the facility/equipment was transported and or constructed at the site.
10. List the functional support areas (previously provided in Tab A) that this facility/equipment support. Refer to Appendix A for the list of functional support areas.

**TAB B**  
**Page** \_\_\_ **of** \_\_\_  
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SPECIAL FACILITIES AND EQUIPMENT  
FACILITIES/EQUIPMENT CAPABILITY FORM

Environmental Test Chamber

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

To reproduce environmental extremes of temperature, relative humidity and wind. Extremes range from -40°F to 130°F air temps, 5 to 95% relative humidity and 0.7 to 25 mph winds. The purpose of the chamber is to provide the unique environmental conditions for human and biophysical evaluations of all the Navy shipboard protective clothing before approval for use by Navy personnel.

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Fixed

3. Provide the replacement value of the facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

\$580K

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

8 ton/660 cubic yards

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

480 VAC; Class D breathable compressed air; cooling water for A/C compressors; boiler for steam generation for relative humidity.

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

None.

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

Because great amounts of compressed air can be utilized within the chamber, it must be Class D-breathable air.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the Department of the Navy if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

It would be extremely difficult to relocate this chamber because the building in which it is housed has been constructed around it. It cannot be dismantled into components small enough to remove from the existing structure. Major demolition and reconstruction of the facilities would be required.

TAB B - 12 *OSW*  
5/12/94

While there are other government and commercial facilities with environmental test chambers, very few can simulate the required combinations of environmental conditions and wind speeds in a small chamber area. The Navy is uniquely interested in these extreme environments due to the unprotected operations of personnel on deck aboard ship.

Without this capability, testing could be conducted at the Natick Research Development and Engineering Center climatic chambers which are collocated at this site. However, the cost would be much greater since these chambers are currently undergoing a major refurbishment and are much larger. They will also soon be operated by a commercial contractor, at an increased operating cost. Cost for use of these alternative chambers is estimated at \$700/day.

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

Transported by contractor by common carrier in 1968. Assembled on site.

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

General mission support 10.6.5 C & T.

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

100% of the time limited by down time due to preventative maintenance and repairs.

12. Provide the projected utilization data out to FY1997.

Same as item 11.

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

When operating, the chamber operates automatically, only requiring periodic checks by trained technicians. Depending upon the study being conducted, a number of other personnel are required on a part or full time basis. During human testing, 2 researchers, 2 technicians, and 1 doctor (for medical support) are required full time. For biophysical testing, 1 researcher and 1 technician are required part time.

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

A total of .07 man-year is required per year to maintain the equipment. Specialties needed include HVAC personnel electricians, plumbers, and millwrights.

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

TAB B - 23 *DS*  
2834  
5/12/94

SPECIAL FACILITIES AND EQUIPMENT  
FACILITIES/EQUIPMENT CAPABILITY FORM

Hydro-Environmental Simulator

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

Simulates the air and water temperature variations found anywhere in the world. Arctic ocean (air:  $-40^{\circ}\text{F}$ ; sea  $28^{\circ}\text{F}$ ) to the Red sea (air:  $12^{\circ}\text{F}$ ; sea  $110^{\circ}\text{F}$ ). Provides a simulation of both calm and rough water for human and biophysical testing of water immersion protective clothing.

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Fixed

3. Provide the replacement value of the facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

\$560K

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

7 ton / 1940 cubic yards

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

480 volts AC; city water to refill pool as needed; Class D-breathable compressed air source to drive pneumatics and provide fill air; cooling water for A/C compressors.

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

Reinforced foundation.

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

Because of the great amounts of compressed air released into area - the compressed air source must be Class D-breathable.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the Department of the Navy if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

It would be extremely difficult to relocate this simulator because the building in which it is housed has been constructed around it. It cannot be dismantled into components small enough to remove from the existing structure. Major demolation and reconstruction of the facilities would be required.

TAB B-84 *Sup 31*  
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The hydro environmental simulator lab is a unique DOD simulator which replicates both calm and rough (standing wave) sea states in a controlled water and air temperature environment. It is essential to have this capability in order to accurately assess water immersion protective clothing and ensure the safety of Navy personnel. There is no other simulator of this kind either commercially or government owned. Without this capability, assessments would have to be conducted in the much more hazardous and less controllable open ocean environment.

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

Transported by contractor by common carrier in 1968. Assembled on site.

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

General Mission Support.

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

100% of the time, limited to down times for preventive maintenance and equipment.

12. Provide the projected utilization data out to FY1997.

Same as above, item 11.

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

When operating, the chamber operates automatically, only requiring periodic checks by trained technicians. Depending upon the study being conducted, a number of other personnel are required on a part or full-time basis. During human testing, 2 researchers, 2 technicians, and 1 doctor (for medical, support) are required full time. For biophysical testing, 1 researcher and 1 technician are required part-time.

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

A total of .03 man-year is required per year to maintain the equipment. Specialties needed include HVAC personnel, electricians, plumbers, and millwrights.

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

TAB B-45  
5/12/94

SPECIAL FACILITIES AND EQUIPMENT  
FACILITIES/EQUIPMENT CAPABILITY FORM

Biophysical Test Equipment

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

To provide a biophysical measurement of the heat transfer characteristics of the Navy's protective clothing systems in both air and water.

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Portable

3. Provide the replacement value of the facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

545K

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

500 lbs / 4 cubic yards

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

208 VAC, 3 phase

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

Contract 10 - 15K preventative maintenance

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

Need to be used in an environmentally controlled chamber.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the Department of the Navy if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

The equipment is portable and includes a guarded hot plate, a thermal foot, a thermal hand and a thermal manikin. The NCTRF thermal manikin is unique in that it can be totally immersed in water. Because of this, it can be used to measure heat transfer characteristics of both immersion protective clothing, worn at the ocean surface, and diving suits used under hyperbaric conditions. There is no other manikin of this type in the U.S. This equipment is utilized in conjunction with both the hydro-environmental simulator and the environmental test chamber.

TAB B - 560  
548311  
5/12/44

Measurement of the heat transfer characteristics of clothing is essential to assessing the level of thermal protection provided or physiological stress induced by various garments developed for protection of Navy personnel.

If the thermal manikin was lost, measurement of the heat transfer characteristic of protective clothing in air would have to be contracted out to either a DOD or commercial facility. Measurement of heat transfer characteristics in water would either have to be contracted out to a foreign source, for thermal manikin evaluation, or be measured using human subjects as a much higher cost and risk.

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

Delivered by truck to NCTRF in 1979.

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

General Mission support 10.6.5 C & T

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

100% of the time, limited to down times for preventive maintenance and repair (unit of measure = 8 hours/day)

12. Provide the projected utilization data out to FY1997.

Same as above - item 11

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

2 - one researcher and one technician.

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

*o.I. CW-5/12/94  
SUP 311*  
~~Services provided by A.D. Little for preventive maintenance and repair.~~

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

TAB 13-67 *o.I.*  
SUP 311  
5/12/94

SPECIAL FACILITIES AND EQUIPMENT  
FACILITIES/EQUIPMENT CAPABILITY FORM

Laundry Laboratory

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

This facility is used to perform R&D on the effects of laundering and chemical effects on clothing and fabrics to determine water repellency, flame retardancy, etc. Also, used to determine special care and labelling instructions for Navy clothing (dress and protective ensembles).

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Moveable

3. Provide the replacement value of the facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

\$150,000

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

Gross weight - 20 tons - Cubic yards - 30

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

Water softeners - Ventilator, steam

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

None

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

None

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the Department of the Navy if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

The facility/test equipment can be relocated or replicated at another location. This laboratory is unique to the Navy, and is the only one in existence that simulates actual shipboard operations, it does not exist commercially. The loss would leave the Navy with no viable means of evaluating the effects of shipboard laundering on utility and protective clothing and equipment.

TAB B - 78 SW 31  
5/14/94

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

Common carrier (freight)

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

General Mission support 10.6.5 C&T

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

Area is used daily.

12. Provide the projected utilization data out to FY1997.

Daily - long-term durability evaluation of flame retardant finishes for Navy uniform items.

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

2 people

14. What is the approximate number of personnel needed to maintain the equipment? *.1 OWS SUP 311*

*5/12/94*  
~~Protective maintenance contracts plus various facilities engineers (electrician, HVAC, plumbers) when breakdowns occur.~~

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

*OWS SUP 311*  
*5/12/94*  
TAB B-89

SPECIAL FACILITIES AND EQUIPMENT  
FACILITIES/EQUIPMENT CAPABILITY FORM

Clothing Design and Development Laboratory

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

Development of patterns and prototypes for men's and women's dress uniforms and experimental clothing.

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Majority is moveable with 2 CAD pieces as possible fixed.

3. Provide the replacement value of the facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

\$550,000

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

10-15 tons - 50 cubic yards

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

Air and steam lines needed for some sewing and pressing machines.

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

Maintenance and service contracts for equipment.

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

Air conditioning and heat for CAD system.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the Department of the Navy if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

Even though a lot of the work done here could be contracted out, the impact would be reorganization of information needed to maintain uninterrupted service to customers, as regards pattern and apparel construction information. This is also the only facility, other than DPSC, that maintains the Navy's apparel patterns.

TAID B-9 10  
SUP 311  
5/12/94

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

1980 all equipment transported by common carrier. 1987 CAD system transported to site by common carrier and within that year the walls were built around CAD plotter and CAD computers.

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

General Mission Support 10.6.5 C&T

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

(Work day = unit of measure) CAD computer system used 100% limited only down time and available personnel. All other equipment used 80% - 100% time limited only to down time and available personnel.

12. Provide the projected utilization data out to FY1997.

Same as above in # 11.

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

6

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

0.1 *OPR SUP 311*  
*5/12/94*

~~Preventive maintenance contract for all equipment.~~

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

TAB B- *OPR SUP 311*  
*5/12/94*

SPECIAL FACILITIES AND EQUIPMENT  
FACILITIES/EQUIPMENT CAPABILITY FORM

Thermal Flamability Laboratory

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

To simulate and test the effects of thermal and direct flame on clothing and textiles assemblies. Area is used to develop requirements for flame retardant clothing for shipboard use and fabric insulation properties for proximity fire fighter's clothing. Life size testing of clothing used for protection against burn injury by use of a thermal manikin

2. Indicate whether the facility/equipment is portable, moveable or fixed.

Moveable/portable

3. Provide the replacement value of the facility/equipment. Report the facility/equipment cost separate from any building and utilities that may be integral to the facility/equipment.

\$200,000

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

Gross weight = 10 tons - Cubic yards = 30

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

Ventilation/exhaust for bench top testing. Manikin testing requires special fire test facility with controlled fire source and air scrubbers. Manikin testing currently done off site within commuting area.

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

None.

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

Area should be temperature and humidity controlled. Also, ventilation will require upgrading to air scrubber.

8. Indicate if this facility/equipment would be extremely difficult or impossible to replicate or relocate at another site and the impact to the Department of the Navy if this facility/equipment were lost. Consider existing Government-wide and commercial capabilities as the replication and impact statements are formulated.

TAB B - #12  
SWP 31  
5/11/14

The majority of the facility/test equipment can be relocated at another site if OSHA standards are attainable, however, fifty percent of this equipment is Navy unique and cannot be areplicated. Thermal manikins and data acquisition equipment are portable. Testing is conducted at the Newport RI Fire Training facility. This testing was designed and built by NCTRF to replicate actual Navy fire threat condition. Being the lead service for flammability and burn injury, availability of other government or commercial sources are rare. This loss would leave the Navy, government activities and NATO countries awithout a comprehensive laboratory for evaluating and establishing requirements.

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

Common carrier (freight)

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

General Mission Support 10.6.5 Clothing and Textiles

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

Area is used weekly for approximately 15-20 hrs/wk.

12. Provide the projected utilization data out to FY1997.

Area will continue to be used weekly on average.

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

2

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

5 (facilities engineering and preventive maintenance)

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

TA B B - 12130  
SUP 3M  
3/21/94

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

**RANGE RESOURCES  
RANGE CAPABILITY FORM**

Technical Center Site	Navy Clothing & <del>Textile Research Facility</del>
Range Nomenclature or Title	NONE AT THIS SITE

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

- a. A brief statement of what the range is used for.
- b. Geographic location of the range.
- c. Distance from the range to the activity's headquarters facility (main site).
- d. Range size in square miles.
- e. Scheduling authority.
- f. Air space available/restrictions.
- g. Maximum water depth available/restrictions.
- h. Instrumentation capability.
- i. Accuracy of tracking.
- j. Data collection/replay capability.

k. What are the maximum hours per year that this range is available to support activities? Provide the actual hours that the range was up and capable of providing services. Do not count "down time" due to maintenance, reconfiguration, or administrative activities (i.e., Holiday shutdowns).

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

**TAB C**  
**Page** \_\_\_ **of** \_\_\_  
**UIC:** \_\_\_\_\_



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

NEXT ECHELON LEVEL (if applicable)

J. T. KAVANAUGH  
NAME (Please type or print)

Rear Admiral, SC, USN  
Title

COMNEXCOM  
Activity

*J. T. Kavanaugh*  
Signature  
MAY 03 1994  
Date

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

NEXT ECHELON LEVEL (if applicable)

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

\_\_\_\_\_  
Title

\_\_\_\_\_  
Activity

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

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

MAJOR CLAIMANT LEVEL

R. M. MOORE, RADM, SC, USN  
NAME (Please type or print)

COMMANDER  
Title

NAVAL SUPPLY SYSTEMS COMMAND  
Activity

*R. M. Moore*  
Signature  
MAY 12 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)

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

Acting  
Title

*J. B. Greene, Jr.*  
Signature  
19 May 1994  
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

W. E. JOHNSON  
NAME (Please type of print)

Commander, SC, USN  
Title

NCTRF  
Activity

  
Signature

4/22/94  
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)

J. T. KAVANAUGH  
NAME (Please type or print)

*J. T. Kavanagh*  
Signature

Rear Admiral, SC, USN  
Title

25 August, 1994  
Date

COMNEXCOM  
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

R. M. Moore, RADM, SC, USN  
NAME (Please type or print)

*R. M. Moore*  
Signature

Commander  
Title

SEP 7 1994  
Date

Naval Supply Systems Command  
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)

*W. A. Earner*  
Signature

\_\_\_\_\_  
Title

9/12/94  
Date

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

W. E. JOHNSON  
NAME (Please type of print)

Commander, SC, USN  
Title

NCTRF  
Activity

  
Signature  
8/22/94  
Date

R  
Crime data

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

NEXT ECHELON LEVEL (if applicable)

J. T. KAVANAUGH  
NAME (Please type or print)

*J. T. Kavanaugh*  
Signature

Rear Admiral, SC, USN  
Title

20 SEP 1994  
Date

COMNEXCOM  
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

R. M. MOORE, RADM, SC, USN  
NAME (Please type or print)

*RMT Moore*  
Signature

COMMANDER  
Title

07 OCT 1994  
Date

NAVAL SUPPLY SYSTEMS COMMAND  
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)

P. W. DRENNON  
NAME (Please type or print)

*P. W. Drennon*  
Signature

Acting  
Title

12 OCT 1994  
Date

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

B. A. AVELLINI  
NAME (Please type of print)

B. A. Avellini  
Signature

Acting Officer in Charge  
Title

9/13/99  
Date

Navy Clothing & Textile Research Facility  
Activity

# Document Separator

224

DATA CALL 63  
FAMILY HOUSING DATA

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

Installation Name:	NCLOTRFAC NATICK
Unit Identification Code (UIC):	62367
Major Claimant:	COMNAVSUP

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

**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.

Enclosure (1)

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)

COMMANDER  
Title

NAVAL FACILITIES ENGINEERING COMMAND  
Activity

  
Signature  
7/20/94  
Date

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

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

W. A. EARNER 

NAME (Please type or print)

Title

  
Signature  
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."

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

ACTIVITY COMMANDER

W.A. Waters, CAPT, CEC, USN  
NAME (Please type of print)

Commanding Officer  
Title

NORTHNAVFACENCOM  
Activity

  
Signature

7/7/99  
Date



# Document Separator

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

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

<b>Activity Name:</b>	Navy Clothing and Textile Research Facility
<b>UIC:</b>	62367
<b>Major Claimant:</b>	Naval Supply Systems Command

**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

DATA CALL 65  
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

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.

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.

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

<b>Average Appropriated Fund Civilian Salary Rate:</b>	<b>\$57K</b>
--	--------------

**Source of Data (1.a. Salary Rate):** Labor estimates from FY95 Business Plan + 5% inflation factor

**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			
Essex	MA		2	4	36	62
Bristol	MA		4	9	60	79
Middlesex	MA		12	28	13	25
Norfolk	MA		13	28	18	34
Plymouth	MA		3	7	63	90
Worcester	MA	1	9	20	25	50
Suffolk	MA		1	2	20	55
York	ME		1	2	120	150
<b>Total</b>		1	45	100%		

As discussed in Note 2 on Page 2, subsequent questions in the data call refer to the "area defined in response to question

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

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: NONE

**Source of Data (1.b. 1) & 2) Residence Data): Personal Survey with all associates**

**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)
Boston	Suffolk	20
Worcester	Worcester	25
Providence, RI	Bristol	30
Lowell	Middlesex	40
New Bedford	Bristol	69

**Source of Data (1.c. Metro Areas): Secretary of State's Office; NRDEC Travel Section (Ann Sartain) x4078**

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

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

<b>Age Category</b>	<b>Number of Employees</b>	<b>Percentage of Employees</b>
<b>16 - 19 Years</b>		
<b>20 - 24 Years</b>		
<b>25 - 34 Years</b>	8	18
<b>35 - 44 Years</b>	16	36
<b>45 - 54 Years</b>	11	24
<b>55 - 64 Years</b>	10	22
<b>65 or Older</b>		
<b>TOTAL</b>	45	100 %

<b>Source of Data (1.d.) Age Data): Navy Civilian Personnel Data System (NCPDS)</b>
---

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

**e. Education Level of Civilian Workforce**

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

<b>Last School Year Completed</b>	<b>Number of Employees</b>	<b>Percentage of Employees</b>
<b>8th Grade or less</b>		
<b>9th through 11th Grade</b>	2	4
<b>12th Grade or High School Equivalency</b>	5	11
<b>1-3 Years of College</b>	7	16
<b>4 Years of College (Bachelors Degree)</b>	22	49
<b>5 or More Years of College (Graduate Work)</b>	9	20
<b>TOTAL</b>	45	100 %

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

<b>Degree</b>	<b>Number of Civilian Employees</b>
<b>Terminal Occupation Program - Certificate of Completion, Diploma or Equivalent (for areas such as technicians, craftsmen, artisans, skilled operators, etc.)</b>	
<b>Associate Degree</b>	1
<b>Bachelor Degree</b>	28
<b>Masters Degree</b>	6

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

Doctorate	1
-----------	---

**Source of Data (1.e.1) and 2) Education Level Data): NCPDS**

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

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

Industry	SIC Codes	No. of Civilians	% of Civilians
<b>1. Agriculture, Forestry &amp; Fishing</b>	01-09		
<b>2. Construction</b> (includes facility maintenance and repair)	15-17		
<b>3. Manufacturing</b> (includes Intermediate and Depot level maintenance)	20-39		
<b>3a. Fabricated Metal Products</b> (include ordnance, ammo, etc.)	34		

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

Industry	SIC Codes	No. of Civilians	% of Civilians
3b. Aircraft (includes engines and missiles)	3721 et al		
3c. Ships	3731		
3d. Other Transportation (includes ground vehicles)	various		
3e. Other Manufacturing not included in 3a. through 3d.	various		
<b>Sub-Total 3a. through 3e.</b>	20-39		
<b>4. Transportation/Communications/Utilities</b>	40-49		
4a. Railroad Transportation	40		
4b. Motor Freight Transportation & Warehousing (includes supply services)	42		
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		

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

Industry	SIC Codes	No. of Civilians	% of Civilians
<b>Sub-Total 4a. through 4g.</b>	40-49		
<b>5. Services</b>	70-89		
5a. Lodging Services	70		
5b. Personal Services (includes laundry and funeral services)	72		
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		
5f. Motion Pictures	78		
5g. Amusement and Recreation Services	79		
5h. Health Services	80		
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	45	100
5n. Other Misc. Services	89		
<b>Sub-Total 5a. through 5n.:</b>	70-89	45	100

*Row 5  
SIP 311C  
11/1/94*

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

Industry	SIC Codes	No. of Civilians	% of Civilians
<b>6. Public Administration</b>	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		
<b>Sub-Total 6a. through 6d.</b>			
<b>TOTAL</b>		45	100 %

**Source of Data (1.f.) Classification By Industry Data): Human Resource Office - Don LeMay (617 451-4848) Based on information from NCPDS.**

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

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

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

Occupation	Number of Civilian Employees	Percent of Civilian Employees
<b>1. Executive, Administrative and Management</b>	5	11
<b>2. Professional Specialty</b>		
2a. Engineers	5	11
2b. Architects and Surveyors		
2c. Computer, Mathematical & Operations Research		
2d. Life Scientists	1	2
2e. Physical Scientists	19	42
2f. Lawyers and Judges		
2g. Social Scientists & Urban Planners		
2h. Social & Recreation Workers		
2i. Religious Workers		

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

Occupation	Number of Civilian Employees	Percent of Civilian Employees
2j. Teachers, Librarians & Counselors		
2k. Health Diagnosing Practitioners (Doctors)		
2l. Health Assessment & Treating (Nurses, Therapists, Pharmacists, Nutritionists, etc.)		
2m. Communications		
2n. Visual Arts		
<b>Sub-Total 2a. through 2n.:</b>	<b>25</b>	<b>55</b>
<b>3. Technicians and Related Support</b>		
3a. Health Technologists and Technicians		
3b. Other Technologists	4	9
<b>Sub-Total 3a. and 3b.:</b>	4	9
<b>4. Administrative Support &amp; Clerical</b>	6	14
<b>5. Services</b>		
5a. Protective Services (includes guards, firefighters, police)		
5b. Food Preparation & Service		
5c. Dental/Medical Assistants/Aides		
5d. Personal Service & Building & Grounds Services (includes janitorial, grounds maintenance, child care workers)		
<b>Sub-Total 5a. through 5d.</b>		
<b>6. Agricultural, Forestry &amp; Fishing</b>		
<b>7. Mechanics, Installers and Repairers</b>		

*Rmw  
SVP 311C  
7/19/94*

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

Occupation	Number of Civilian Employees	Percent of Civilian Employees
<b>8. Construction Trades</b>		
<b>9. Production Occupations</b>	5	11
<b>10. Transportation &amp; Material Moving</b>		
<b>11. Handlers, Equipment Cleaners, Helpers and Laborers (not included elsewhere)</b>		
<b>TOTAL</b>	45	100 %

**Source of Data (1.g.) Classification By Occupation Data):  
NCPDS and List Provided**

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

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

- 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 services 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.**

<b>1. Percentage of Military Employees Who Are Married:</b>	100
<b>2. Percentage of Military Spouses Who Work Outside of the Home:</b>	100
<b>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".</b>	
<b>3a. Employed "On-Base" - Appropriated Fund:</b>	100
<b>3b. Employed "On-Base" - Non-Appropriated Fund:</b>	
<b>3c. Employed "Off-Base" - Federal Employment:</b>	
<b>3d. Employed "Off-Base" - Other Than Federal Employment</b>	

<b>Source of Data (1.h.) Spouse Employment Data): Personal interview with OIC</b>
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**DATA CALL 65**  
**ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA**

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

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

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

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

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

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

*Review  
SJP 311C  
7/19/94*

~~DELETE~~

~~INFORMATION FOR THE FOLLOWING TABLES WILL BE PROVIDED BY OUR HOST  
ACTIVITY, ARMY NATICK RESEARCH, DEVELOPMENT, AND ENGINEERING  
CENTER (NRDEC) (UIC WO38AA). POC IS MR. LIONEL DUBE, 508/651-  
4234, DSN 256-4234.~~

**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	N/A	N/A	N/A
Public Transportation - Rail	N/A	N/A	N/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

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

<b>Category</b>	<b>20% Increase</b>	<b>50% Increase</b>	<b>100% Increase</b>
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.

N/A

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7/19/94*

**Source of Data (2.a. 1) & 2) - Local Community Table):** *see below*

*Rmw SUP 311C 7/19/94*

~~The common sense rule applies here.~~ Forty five people are disbursed in 32 communities. Massachusetts is town oriented, and this data call is "County" oriented. Therefore, towns had to be "plugged in" to the county system. This information is locally derived. A 100% increase in this facility equates to an additional 45 civilian employees. This addition would have no impact on the local community.

**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	N/A	N/A	N/A
Public Transportation - Rail	N/A	A/A	N/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

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

<b>Category</b>	<b>20% Increase</b>	<b>50% Increase</b>	<b>100% Increase</b>
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.

N/A

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SUP 311C  
7/19/94*

**Source of Data (2.b. 1) & 2) - Regional Table):** *See below*

A 100% increase in this facility equates to an additional 45 civilian employees. This addition would have no impact on the Region.

DATA CALL 65  
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

3. Public Facilities Data:

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SUP 311C  
7/19/94*

*DELETE*

~~INFORMATION WILL BE PROVIDED BY OUR HOST ACTIVITY, NRDEC. SEE  
ITEM #2.~~

- 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:

Bristol	8%
Essex	10%
Middlesex	7%
Norfolk	7%
Plymouth	5%
Suffolk	10%
Worcester	6%
Windham, NH	10%
Sanford, ME	10%

Units for Sale:

Bristol	6%
Essex	10%
Middlesex	7%
Norfolk	6%
Plymouth	4%

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

Suffolk	5%
Worcester	6%
Windham, NH	10%
Sanford, ME	5%

**Source of Data (3.a. Off-Base Housing): Source of Data:  
ReMax 508-480-9888  
Barbra Vincent**

**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-Staff Ratio (1992 figures)		Does School District Serve Gov't Housing Units?
		Elementary	Middle	High	Current	Max. Capacity	Current	Max. Ratio	
Acushnet	Bristol	1	1	0	1,026	N/A	25.1	N/A	NO
Acton	Middlesex	4	0	0	1,958	N/A	N/A	N/A	NO
Acton-Boxborough	Middlesex	0	1	1	1,810	N/A	16.3	N/A	NO
Ashland	Middlesex	3	0	1	1,638	N/A	15.7	N/A	NO
Bellingham	Norfolk	3	0	2	2,340	N/A	17.1	N/A	NO
Blackstone	Worcester	0	0	0	0	N/A	N/A	N/A	NO
Blackstone-Millville	Worcester	3	0	1	1,990	N/A	17.1	N/A	NO
Brookline	Norfolk	8	0	1	5,784	N/A	11.7	N/A	NO
Boston	Suffolk	82	20	15	62,407	N/A	13.6	N/A	NO
Douglas	Worcester	1	0	1	1,014	N/A	16.3	N/A	NO
Fall River	Bristol	28	4	1	12,449	N/A	14.7	N/A	NO
Framingham	Middlesex	9	1	1	7,319	N/A	14.2	N/A	NO
Franklin	Norfolk	5	1	1	3,765	N/A	18.7	N/A	NO
Grafton	Worcester	3	1	1	1,928	N/A	16.7	N/A	NO
Holden	Worcester	4	1	0	1,875	N/A	17.2	N/A	NO
Holliston	Middlesex	4	0	1	2,879	N/A	17.1	N/A	NO
Lincoln	Middlesex	3	1	0	1,242	N/A	13.1	N/A	NO
Lincoln-Sudbury	Middlesex	0	0	1	901	N/A	13.0	N/A	NO
Marlborough	Middlesex	5	1	1	3,860	N/A	14.6	N/A	NO
Medford	Norfolk	3	1	1	1,962	N/A	16.3	N/A	NO
Medway	Norfolk	2	1	1	1,926	N/A	15.2	N/A	NO
Milford	Worcester	3	2	1	3,083	N/A	16.3	N/A	NO
Millbury	Worcester	2	0	1	1,596	N/A	13.5	N/A	NO

NOTE: N/A = NOT AVAILABLE

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SUP 311C  
7/19/94

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

Natick	Middlesex	5	2	2	3,585	N/A	13.5	N/A	NO
Quincy	Norfolk	10	4	2	8,269	N/A	14.5	N/A	NO
Norwood	Norfolk	5	1	1	3,520	N/A	14.8	N/A	NO
King Philip	Norfolk	2	0	0	613	N/A	N/A	N/A	NO
Plymouth	Plymouth	9	0	0	4,803	N/A	17.5	N/A	NO
Plymouth-Carver	Plymouth	0	1	4	4,273	N/A	13.6	N/A	NO
Rehoboth	Bristol	0	0	0	0	N/A	N/A	N/A	NO
Dighton-Rehoboth	Bristol	2	2	1	2,742	N/A	15.6	N/A	NO
Saugus	Essex	6	1	1	3,370	N/A	14.2	N/A	NO
Wachusett	Worcester	0	0	1	1,478	N/A	N/A	N/A	NO
Wareham	Plymouth	3	1	1	3,060	N/A	18.7	N/A	NO
Watertown	Middlesex	3	1	1	2,657	N/A	13.1	N/A	NO
King Philip	Norfolk	0	1	1	1,453	N/A	N/A	N/A	NO

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

**Source of Data (3.b.1) Education Table): Source of Data:  
Executive Office of  
Education  
1-800-297-0002**

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

NO

**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 :

American International College  
Amherst College  
Aquinas College at Milton  
Aquinas College at Newton  
Assumption College  
Atlantic Union College  
Babson College  
Bay Path College  
Bay State College  
Becker College: Leicester Campus  
Becker College: Worcester Campus  
Bentley College  
Berklee College of Music  
Berkshire Community College  
Boston Architectural Center  
Boston College  
Boston Conservatory of Music  
Boston University  
Bradford College  
Brandeis University  
Bridgewater State College  
Bristol Community College  
Bunker Hill  
Cape Cod Community College  
Clark University  
College of the Holly Cross  
Curry College  
Dean Junior College  
Eastern Nazarene College  
Elms College  
Emerson College  
Emmanuel College  
Endicott College  
Essex Agricultural and Technical Institute  
Fisher College  
Fitchburg College  
Framingham State College  
Franklin Insitute of Boston  
Gordon College  
Greenfield Community College  
Hampshire College  
Harvard and Radcliffe Colleges  
Hebrew College  
Hellenic College

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

Holyoke Community College  
Katharine Gibbs School  
Lasell College  
Lesley College  
Marian Court Junior College  
Massachusetts Bay Community College  
Massachusetts College of Pharmacy and Allied Health Sciences  
Massachusetts Institute of Technology  
Massachusetts Maritime Academy  
Massasoit Community College  
Merrimack College  
Middlesex Community College  
Mount Holyoke College  
Mount Ida College  
Nichols College  
North Adams State College  
North Shore Community College  
Northeastern University  
Northern Essex Community College  
Pine Manor College  
Quincy College  
Quinsigamond Community College  
Roxbury Community College  
St. Hyacinth College and Seminary  
Salem State College  
School of the Museum of Fine Arts  
Simmons College  
Smith College  
Springfield College  
Springfield Technical Community College  
Stonehill College  
Suffolk University  
Tufts University  
University of Massachusetts at Amherst  
University of Massachusetts at Boston  
University of Massachusetts at Dartmouth  
University of Massachusetts at Lowell  
Wellesley College  
Wentworth Institute of Technology  
Western New England College  
Westfield State College  
Wheaton College  
Wheelock College  
Williams College  
Worcester Polytechnic Institute  
Worcester State College

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

Source of Data (3.b.3) Colleges):	Source of Data Colleges:
	College Hand Book
	College Entrance
	Examination Board
	New York

*Review  
SUP 3/11C  
7/19/94*

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:

Acushnet - Old Colony Voc. Tech.  
Acton - Minute Man Voc. Tech.  
Framingham - So. Middlesex Voc. Tech.  
Franklin - Tri-County  
Holliston - So. Middlesex Voc. Tech.  
Lincoln - Minute Man Voc. Tech.  
Natick - So. Middlesex Voc. Tech.  
Norwood - Blue Hills Voc. Tech.  
Saugus - Northeast Metro Voc. Tech.  
Wareham - Upper Cape Cod Voc. Tech.

Curriculums of above schools not available From Department of Education. Schools are not presently in session to obtain this information.

Source of Data (3.b.4) Vo-tech Training):	Commonwealth of Massachusetts Department of Education 350 Main Street Malden, MA 02148- 5023 (617) 388-3396 (Lisa)
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**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>	_____
Rail:	<u>X</u>	_____
Subway:	<u>X</u>	_____
Ferry:	_____	<u>X</u>

*Rmw SUP 311C  
7/19/94*

**Source of Data (3.c.1) Transportation):**      *SEE BELOW 3.C.3*

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 - 5 miles

*Rmw SUP 311C  
7/19/94*

**Source of Data (3.c.2) Transportation):**      *SEE BELOW 3.C.3*

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.

Logan International Airport  
22 Miles

**Source of Data (3.c.3) Transportation):** Travel Office, Natick  
Research Development  
and Engineering Center  
(Sandy Fitch) (508)  
651-4236

*Rmw  
SUP 311C  
7/19/94*

4) How many carriers are available at this airport?

35 Airlines

DATA CALL 65  
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Source of Data: (3. c. 4)  
Transportation: Research  
Development and Engineering  
Center (Sandy Fitch) (508)  
651-4236

*Review  
SUP 311C  
7/19/94*

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

Route 90, approximately 6 miles from NRDEC.

Source of Data (3.c.5) Transportation): Facility Engineers, NRDEC, Steve Belmore (508) 651-5218
---

- 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.)

Main access to installation is Kansas St., there are two gates coming onto installation. Traffic lights were installed at the intersection of Kansas St. and Rt. 27 to alleviate traffic problems.

- b) Do access roads transit residential neighborhoods?

No

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

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

**Source of Data: (3. c. 6) Transportation: Facility Engineers,  
NRDEC Steve Belmore (508) 651-5218**

**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.

Our host activity, NRDEC, has an agreement with the Natick Fire Department for fire services. There is a HAZMAT team on the compound to provide services for the hazardous materials incidents. The HAZMAT team works in cooperation with the two metrowest hospitals in the area and the Natick Fire Dept. for hazardous spill incidents.

<b>Source of Data (3.d. Fire/Hazmat): Environmental Office NRDEC</b>
--

**E. Police Protection.**

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

Proprietary - Can detain but can't arrest.

- 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 - assumed agreement with the Natick Police Department

- 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.

DATA CALL 65  
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

N/A

Source of Data (3.e. 1) - 5) - Police): Security Office NRDEC,  
Jackie Hope  
(508) 651-4099

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.

Water is provided by on-site, Government owned and operated wells and pumping station. The system is also connected to the Town of Natick water system which serves as a back up. The back up system is shifted over on a regular basis and the installation is billed for water usage through direct central metering. Sewage treatment is provided by the Town of Natick system and billing is based on water usage. Refuse disposal is provided by a private contractor. No agreement with the local community for refuse removal exists.

Electricity and natural gas are provided by local utility companies, Boston Edison, and Common Wealth Gas. Contracts are established for the services.

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 water rationing or interruptions have occurred in water service in the past five(5) years.

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.

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

No significant disruptions in utility services have occurred during the past five (5) years.

**Source of Data (3.f. 1) - 3) Utilities): Facility  
Engineers  
Steve Belmore (508)  
651-5218**

**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):

This information is taken in the aggregate of the towns in Metrowest (Natick, Framingham, Wayland, Hopkinton, Holliston, Ashland, Sherborn, Southboro, and Sudbury).

Employer	Product/Service	No. of Employees
1. <sup>BOSE</sup> Bowes Corp. <i>Rmw SUP 311C 7/19/94</i>	Sound Systems	1700
2. Avery/Dennison	Office Supplies	1100
3. EMC	Memory Expansion	1000
4. Chip Com	Network Systems	600
5. TJX Co. Corp HQ	Retail Stores	1000
6. Perini Corp. HQ	Construction	250
7. Raytheon	Electronics	750
8. BJ's: Wholesale Corp. HQ	Retail Store	300
9. Metrowest Medical Ctr	Hospitals	1500
10. Genzyme Corp.	Biotech Firm	400

<p><b>Source of Data (4. Business Profile):</b> Metrowest Chamber of Commerce  <i>Rmw SUP 311C 7/19/94</i> Mr. Fredrick Rubin  Vice President Business Development  (508) 879-5600</p>
--

**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:**

PRIME computer  
General Motors

b. **Introduction of New Businesses/Technologies:**

Boston Scientific Corp will take over the old PRIME Computer Building.

ADESA (auto <sup>c</sup> auction for dealers) brought the General Motor Plant. COGNEX and Imaging Equipment will be relocated into the Metrowest area.

*Rmw  
SUP 311C  
7/19/94*

c. **Natural Disasters:**

None

d. **Overall Economic Trends:**

During the last year there was a total of 2 1/2 million square feet of new or leased space recorded. Thirty eight hundred new jobs were created.

<b>Source of Data (5. Other Socio/Econ):</b> Metrowest Chamber of Commerce Mr. Fredrick A. Rubin Vice President Business Development (508) 879-5600
--

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

\$15,000 was spent on local purchases. Summer

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

employment, Red Cross Blood drives, Support provided by associates to poverty stricken child in Kentucky.

**Source of Data (6. Other): In House Discussions**

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

NEXT ECHELON LEVEL (if applicable)

J. T. KAVANAUGH  
NAME (Please type or print)

*J. T. Kavanaugh*  
Signature

Rear Admiral, SC, USN  
Title

7/18/94  
Date

COMNEXCOM  
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

R. M. MOORE, RADM, SC, USN  
NAME (Please type or print)

*R. M. Moore*  
Signature

COMMANDER  
Title

JUL 19 1994  
Date

NAVAL SUPPLY SYSTEMS COMMAND  
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)

*W. A. Earner*  
Signature

\_\_\_\_\_  
Title

8/6/94  
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

W. E. JOHNSON  
NAME (Please type of print)

Commander, SC, USN

Title

OFFICER IN CHARGE

NCTRF

Activity

  
Signature

7/14/94  
Date

# Document Separator

**DATA CALL 1: GENERAL INSTALLATION INFORMATION**

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

- Name Navy Clothing and Textile Research Facility

Official name	<u>Navy Clothing and Textile Research Facility</u>
Acronym(s) used in correspondence	<u>NAVCLOTEXTRSCHFAC</u>
Commonly accepted short title(s)	<u>NCTRF</u>

- Complete Mailing Address

Navy Clothing and Textile Research Facility  
P.O. Box 59  
Natick, MA 01760-0001

- PLAD

NAVCLOTEXTRSCHFAC NATICK MA

- PRIMARY UIC: 62367 (Plant Account UIC for Plant Account Holders)

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

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

2. PLANT ACCOUNT HOLDER:

- Yes \_\_\_\_\_ No X (check one)

62367

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

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

• Yes \_\_\_\_\_ No X \_\_\_\_\_ (check one)

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

• Yes X \_\_\_\_\_ No \_\_\_\_\_ (check one)

• Primary Host (current) UIC: WO38AA

• Primary Host (as of 01 Oct 1995) UIC: WO38AA

• Primary Host (as of 01 Oct 2001) UIC: WO38AA

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

• Yes \_\_\_\_\_ No X \_\_\_\_\_ (check one)

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

Name	Location	UIC
N/A		

62367

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

Name	UIC	Location	Host name	Host UIC
Technical Sup. Division	62367	Philadelphia PA	Defense Personnel Support Center	SPO100

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

Yes, by BRAC-93

A decision was made to relocate the Defense Personnel Support Center (DPSC) to Aviation Support Office, Northeast Philadelphia. The Technical Support Division of NCTRF will relocate with DPSC.

62367

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

#### Current Missions

- Designs and develops all dress uniforms, utility garments, protective clothing, insignia, and accessories worn by Navy personnel.
- Conducts research and development on fibers, yarns, fabrics, leather products, coatings, films, laminates, finishes, and dyes.
- Establishes shade standards and tolerance ranges for all Navy colors and determines the acceptance/rejection of shade swatches submitted to the government for the optional certification program.
- Coordinates the Joint Service Lightweight Integrated Suit Technology Program, which is a tri-service effort, to develop a single replacement for the services' current chemical protective overgarments.
- Conducts test and evaluation of laundry and dry cleaning products and procedures, and prepares instructions for the care and maintenance of clothing in the supply system.
- Conducts biophysical evaluations of fabric and clothing items to determine their insulation and water vapor permeability.
- Conducts research and development on personal cooling systems for use in hot environments.
- Conducts research and development on active heating systems for use in cold environments.
- Conducts basic human physiological studies in the areas of heat stress, cold stress, and water immersion to determine limits of human endurance and its relationship to Navy protective clothing.

- Acts as the main interface between the Navy and the Defense Personnel Support Center (DPSC) on document preparation matters to insure Navy requirements for various uniform and organizational clothing items are properly defined.
- Reviews and evaluates value engineering, beneficial suggestions, and waiver requests submitted by industry through DPSC.
- Provides engineering support on quality problems and other technical issues associated with procurement of Navy uniform and organizations clothing items.
- Conducts the Navy's Commercial Uniform Program (Certification Program) for Officer, Chief Petty Officer, and Petty Officer uniform items.
- Serves as primary Navy point of contact with DPSC for technical cataloging, supply, and procurement related matters for clothing, textiles, and related items, including bag items, organizational clothing, and individual equipment.

• -

#### Projected Missions for FY 2001

- In addition to current mission, we anticipate new missions to include:
- Life Cycle Management of all Navy clothing and textile (C&T) items.
- DoD lead in all firefighting and fire retardant C&T.
- Developer of Marine Corps C&T.
- Expansion of test and evaluation role of C&T for Navy, as well as for DoD and industry.
- Sole developer of microclimate cooling systems for the Navy.

62367

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

Current Unique Missions

- Unique research, development, test, and evaluation associated with the following areas:
- Firefighter's (FF) clothing - including development of shipboard FF clothing, as well as being the DoD lead in the development of proximity FF clothing.
- Fire-retardant (FR) materials - development and improvement of FR materials to be utilized in all shipboard clothing.
- Handwear and footwear - development of unique items for the Navy, including safety footwear, and impermeable cold weather handwear.
- Chemical protective garments - including chemical, biological, and radiological, as well as hazardous chemical protective clothing.
- Coatings, dyes and finishes - including development of abrasion-resistant coatings, and dyes and finishes for FR clothing.
- Laundering processes - investigation of various detergents and washing techniques for shipboard laundering.
- Biophysical (thermal manikin) and physiological (human) evaluations of a wide range of clothing items, including garments protective against heat, cold, wind, and water immersion.
- Insignia - development of all insignia for the Department of the Navy.
- Certification Program - sole manager of the Navy's Optional clothing program, including certification of manufacturers.

- Thermal Manikin system, which is used to measure insulation values of protective clothing in both an air and a water immersion environment. Data obtained is used with simulation models to determine tolerance times to various combinations of work, clothing, and environmental conditions. This is one of only about four manikins worldwide capable of being utilized in both water and air.
- Thermal Hand and Thermal Foot, which are used to measure insulation values of handwear and footwear, respectively. The Hand and Foot have 9 and 27 independently controlled sections, respectively, which permit more detailed analysis of regional insulation. Worldwide, there are only three other known thermal hands and one other known thermal foot.
- Hydro-environmental simulator, which is an integrated air and water chamber whose temperatures are controlled independently. The simulator is used to evaluate anti-exposure suits and buoyancy properties of equipment, using the thermal manikin and human test volunteers. This is the only known chamber within the Navy that is able to independently control both air and water temperatures simultaneously, and thus simulate any air/water interface.
- Clothing pattern design and cutting computer systems, which is used to design clothing patterns, and to grade and cut the patterns for each of othe clothing sizes required.
- Shipboard laundry, in which research, development, test, and evaluation are performed on the laundering and chemical effects on fabrics and clothing.
- Thermal flammability laboratory, which contains various test apparatus to evaluate the effects on fabrics of thermal energy in the form of flame and of conductive, convective, and infrared radiant heat.

Projected Unique Missions for FY 2001

- Simulation of realistic sea conditions for measuring rates of heat loss
- Life Cycle Management for all Navy C&T items.
- Firefighting and fire-retardant C&T for all DoD.
- Sole developer of microclimate cooling systems for the Navy.

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

• Operational name	UIC
<u>Navy Exchange Service Command</u>	<u>00250</u>
• Funding Source	UIC
<u>Naval Supply Systems Command</u>	<u>00023</u>

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

On Board Count as of 01 January 1994

	Officers	Enlisted	C i v i l i a n
(Appropriated)			
• Reporting Command	—	—	—
• Tenants (total)	<u>1</u>	<u>0</u>	<u>53</u>

62367

Authorized Positions as of 30 September 1994

	Officers	Enlisted	C i v i l i a n
(Appropriated)			
• Reporting Command	___	___	___
• Tenants (total)	<u>1</u>	<u>0</u>	<u>53</u>

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

<u>Title/Name</u>	<u>Office</u>	<u>Fax</u>	<u>Home</u>
• CO/OIC			
<u>Commander W. E. Johnson (508) 651-4172, fax (508) 651-4783 home (508) 473-6306</u>			
• Technical Director			
Dr. Barbara A. Avellini, Technical Director, (508) 651-4172, fax (508) 651-4783, home (508) 480 8782			

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

• Tenants residing on main complex (shore commands)

Tenant Command Name	UIC	Officer	Enlisted	Civilian
NAVCLOTEXTRSFAC	62367	1	0	53

62367

- Tenants residing on main complex (homeported units.)

Tenant Command Name	UIC	Officer	Enlisted	Civilian
N/A				

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

Tenant Command Name	UIC	Location	Officer	Enlisted	Civilian
N/A					

- Tenants (Other than those identified previously)

Tenant Command Name	UIC	Location	Officer	Enlisted	Civilian
N/A					

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

Activity name	Location	Support function (include mechanism such as ISSA, MOU, etc.)
<u>USCG</u>	<u>Natick, MA</u>	<u>Purchasing/contract, building space and administration - ISSA.</u>

14. FACILITY MAPS: This is a primary responsibility of the plant account holders/host commands. Tenant activities are not required to comply with submission if it is known that your host activity has complied with the request. Maps and photos should not be dated earlier than 01 January 1991, unless annotated that no changes have taken place. Any recent changes should be annotated on the appropriate map or photo. Date and label all copies. • Local Area Map. This map should encompass, at a minimum, a 50 mile radius of your activity. Indicate the name and location of all DoD activities within this area, whether or not you support that activity. Map should also provide the geographical relationship to the major civilian communities within this radius. (Provide 12 copies.)

• Installation Map / Activity Map / Base Map / General Development Map / Site Map. Provide the most current map of your activity, clearly showing all the land under ownership/control of your activity, whether owned or leased. Include all outlying areas, special areas, and housing. Indicate date of last update. Map should show all structures (numbered with a legend, if available) and all significant restrictive use areas/zones that encumber further development such as HERO, HERP, HERF, ESQD arcs, agricultural/forestry programs, environmental restrictions (e.g., endangered species). (Provide in two sizes: 36"x 42" (2 copies, if available); and 11"x 17" (12 copies).)

• Aerial photo(s). Aerial shots should show all base use areas (both land and water) as well as any local encroachment sites/issues. You should ensure that these photos provide a good look at the areas identified on your Base Map as areas of concern/interest - remember, a picture tells a thousand words. Again, date and label all copies. (Provide 12 copies of each, 8½"x 11".)

• Air Installations Compatible Use Zones (AICUZ) Map. (Provide 12 copies.)

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

NEXT ECHELON LEVEL (if applicable)

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

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

\_\_\_\_\_  
Activity

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

NEXT ECHELON LEVEL (if applicable)

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

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

\_\_\_\_\_  
Activity

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

MAJOR CLAIMANT LEVEL

R. M. MOORE, RADM, SC, USN  
NAME (Please type or print)

  
\_\_\_\_\_  
Signature

COMMANDER  
Title

10 FEB 1994  
Date

NAVAL SUPPLY SYSTEMS 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)

R.R. Sareeram  
NAME (Please type or print)

  
\_\_\_\_\_  
Signature

Acting  
Title

15 Feb 1994  
Date

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

NEXT ECHELON LEVEL (if applicable)

J. T. Kavanaugh, RADM, SC, USN

NAME (Please type or print)

Commander

Title

Navy Exchange Service Command

Activity

Signature

2/4/94

Date

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

NEXT ECHELON LEVEL (if applicable)

NAME (Please type or print)

Title

Activity

Signature

Date

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

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

Title

Activity

Signature

Date

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

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

NAME (Please type or print)

Title

Signature

Date

62367

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

W. E. Johnson  
Commander, SC  
U.S. Navy  
Officer in Charge

\_\_\_\_\_  
Signature

Date \_\_\_\_\_

B. A. Avellini  
Technical Director

*B. A. Avellini*  
\_\_\_\_\_  
Signature

Date 2/3/94

Navy Clothing and Textile Research Facility

# Document Separator

224

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

**20 APRIL 1994**

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

**INDEX**

<u>Section</u>	<u>Page</u>
<b>GENERAL INSTRUCTIONS</b> .....	2
<b>ENDANGERED/THREATENED SPECIES AND BIOLOGICAL HABITAT</b> .....	3
<b>WETLANDS</b> .....	5
<b>CULTURAL RESOURCES</b> .....	5
<b>ENVIRONMENTAL FACILITIES</b> .....	6
<b>AIR POLLUTION</b> .....	10
<b>ENVIRONMENTAL COMPLIANCE</b> .....	13
<b>INSTALLATION RESTORATION</b> .....	14
<b>LAND/AIR/WATER USE</b> .....	16
<b>WRAP-UP</b> .....	20

## ENVIRONMENTAL DATA CALL

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

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

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

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

Provide a list of the tenant activities with UICs that are covered in this response.

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

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

SPECIES (plant or animal)	Designation (Threatened/ Endangered)	Federal/ State	Critical / Designated Habitat (Acres)	Important Habitat (acres)
<i>example: Haliaeetus leucocephalus - bald eagle</i>	<i>threatened</i>	<i>Federal</i>	<i>25</i>	<i>0</i>
Spotted turtle (Clemmys guttata)	special concern	State	N/A	N/A

Source Citation: Endangered Species Survey Phase 1 by Aneptek Corp 1991

**1b.**

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

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

N/A

**1d.**

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

**1e.**

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

**2. WETLANDS**

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

**2a.**

Does your base possess federal jurisdictional wetlands?	YES/NO YES
Has a wetlands survey in accordance with established standards been conducted for your base?	YES/NO NO
When was the survey conducted or when will it be conducted? <u>4 / 30 / 95</u>	
What percent of the base has been surveyed?	N/A
What is the total acreage of jurisdictional wetlands present on your base?	*

Source Citation: NATICK RD&E CTR: RMD FAX NO. 508-651-4109

\* Will know in April 95

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

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

**3. CULTURAL RESOURCES**

**3a.**

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

THE SURVEY DETERMINED THAT THERE WERE NO SITES.

3b.  
YES/NO

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

3c.

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

**4. ENVIRONMENTAL FACILITIES**

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

4a.

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

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

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

N/A

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

N/A

4c.

Does your base have any disposal, recycling, or incineration facilities for solid waste?					YES NO
Facility/Type of Operation	Permitted Capacity	Ave Daily Throughput	Maximum Capacity	Permit Status	Comments
Recyclable paper	N/A	450 LBS	-	NONE	Post Contract
Ferris Metal	N/A	550 LBS	-	NONE	DRMO
Non Ferris Metal	N/A	10 LBS	-	NONE	DRMO

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

4d.

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

List permit violations and discuss any projects to correct deficiencies.

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

- 1) Installation is in compliance with sewer permit
- 2) Rate is 70,000 gpd, no flow rate restrictions

4f.

Does your base operate an Industrial Waste Treatment Plant (IWTP)?					YES / <input checked="" type="radio"/> NO
ID/Location of IWTP	Type of Treatment	Permitted Capacity	Ave Daily Discharge Rate	Maximum Capacity	Permit Status

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

4g. Are there other waste treatment flows not accounted for in the previous tables? Estimate capacity and describe the system.  No

4h.

Does your base operate drinking Water Treatment Plants (WTP)?					<input checked="" type="radio"/> YES / NO
ID/Location of WTP	Operating (GPD)		Method of Treatment	Maximum Capacity	Permit Status
	Permitted Capacity	Daily Rate			
Main Installation Natick	300,000 gal per day	0.162 mgd	Chlorination	0.374 mgd	Current

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

Design underway to install filtration plant for drinking water supply.

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

We have an alternate drinking water supply available from the town.

4j.

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

Town public water supply backup.

4k.

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

Used for mechanical cooling only.

4l.

YES/NO

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

Explain:

4m.

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

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

None identified

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

No

**5. AIR POLLUTION**

**5a.**

What is the name of the Air Quality Control Areas (AQCA) in which the base is located? _____ EPA Region 1 _____
Is the installation or any of its OLFs or non-contiguous base properties located in different AQCA's? <u>No</u> . List site, location and name of AQCA.

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

Site: Massachusetts AQCA: Massachusetts

Pollutant	Attainment	Non-Attainment	Maintenance	Target Attainment Year <sup>1</sup>	Comments <sup>2</sup>
CO	Yes	No	None	N/A	-
Ozone	No	Serious	Recycle Monitor	2020	CFC's VOCS
PM-10	Yes	No	None	N/A	-
SO <sub>2</sub>	Yes	No	None	N/A	-
NO <sub>2</sub>	Yes	No	Equipment Checks	N/A	-
Pb	Yes	No	None	N/A	-

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

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

Emission Sources (Tons/Year)					
Pollutant	Permitted Stationary	Personal * Automobiles	Aircraft Emissions	Other Mobile	Total
CO	1.47	N/A	N/A	.04	1.51
NOx	14.07	N/A	N/A	.17	14.24
VOC	.13	N/A	N/A	1.61	1.74
PM10	2.19	N/A	N/A	.02	2.21

Source Document: 1992 Air Pollution Emission Statement  
Nov 30, 1993

\* This information not collected by NRDEC.

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

Emissions Sources (Tons/Year)					
Pollutant	Permitted Stationary	Personal Automobiles	Aircraft Emissions	Other Mobile	Total
CO	1.47	N/A	N/A	.04	1.51
NOx	14.07	N/A	N/A	.17	14.24
VOC	.13	N/A	N/A	1.39	3.73
PM10	2.19	N/A	N/A	.02	2.21

Source Document: 1993 Clean Air Inventory Sheets

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

Decreases - Elimination of CFC 12 on post refrigeration systems (4 tons)

VOC's - New Fuel Vapor Suppression, Substitutions of VOC's (1 ton)

NOX & SOX - By Boiler Plant Conversion to Natural Gas (20 tons)

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

Yes, Boston area

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

No

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

Will not know until new CA permit application  
Complete Sep 95

## 6. ENVIRONMENTAL COMPLIANCE

- 6a. Identify compliance costs, currently known or estimated that are required for permits or other actions required to bring existing practices into compliance with appropriate regulations. Do not include Installation Restoration costs that are covered in Section 7 or recurring costs included in question 6c. For the last two columns provide the combined total for those two FY's.

Program	Survey Completed?	Costs in \$K to correct deficiencies					
		FY94	FY95	FY96	FY97	FY98-99	FY00-01
Air	Yes	910	1335	855	745	247	602
Hazardous Waste	Yes	175	530	500	170	405	420
Safe Drinking Water Act	Ongoing	220	274	341	120	300	220
PCBs	No	20	100	100	50	0	0
Other (non-PCB) Toxic Substance Control Act	Asbestos Yes	50	50	300	300	250	250
Lead Based Paint	No	0	0	60	60	60	60
Radon	Yes	0	1	0	0	0	0
Clean Water Act	Yes	1705	3065	4460	1360	154	244
Solid Waste	No	5	5	5	5	10	10
Oil Pollution Act	Yes	0	10	0	0	15	0
USTs	Yes	0	0	8	0	0	0
Other ESA	Yes	0	4	4	0	0	0
<b>Total</b>	-	3085	5374	6633	2810	1441	1806

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

1. Ground Water Remediation Project T-25, started 6/93, est. completion date 6/97.

### 6b.

Does your base have structures containing asbestos? Yes What % of your base has been surveyed for asbestos? 100% Are additional surveys planned? Yes O&M What is the estimated cost to remediate asbestos (\$K) 50,000 Per Yr. Are asbestos survey costs based on encapsulation, removal or a combination of both? Both

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

Funding Source	FY92	FY93	FY94	FY95	FY96	FY97	FY98-99	FY00-01
O&MN								
HA								
PA								
Other (specify) RDT&E	674	674	907	977	1825	1776	3483	3567
<b>TOTAL</b>								

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

**7. INSTALLATION RESTORATION**

7a.

Does your base have any sites that are contaminated with hazardous substances or petroleum products?	<input checked="" type="radio"/> YES <input type="radio"/> NO
Is your base an NPL site or proposed NPL site?	Yes

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

Site # or name	Type site <sup>1</sup>	Groundwater Contaminated?	Extends off base?	Drinking Water Source?	Cost to Complete (\$M)/Est. Compl. Date	Status <sup>2</sup> /Comments
Warehouse Area	Storage	Yes	Yes	Unknown	\$3 mil. est 1999	RI/FS reports
Gym Site	Open Land	Yes	Unknown	Unknown	\$2 mil. est 1999	Long Term Monitoring

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

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

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

No

7d.

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

State scope and expected length of pump and treat operation.

Currently reviewing treatment methods

7e.

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

7f. Does your base operate any conforming storage facilities for handling hazardous materials? If YES, describe facility, capacity, restrictions, and permit conditions.

No permitted Facility

7g. Does your base operate any conforming storage facilities for handling hazardous waste? If YES, describe facility, capacity, restrictions, and permit conditions.

No permitted Facility

7h. Is your base responsible for any non-appropriated fund facilities (exchange, gas station) that require cleanup? If so, describe facility/location and cleanup required/status.

No

7i.

Do the results of any radiological surveys conducted indicate limitations on future land use? Explain below.	No
--	----

Initial AEHA survey taken during FY93 does show low levels found at old low level radiation storage facility area Bldg 30.

7j. Have any base operations or development plans been restricted due to Installation Restoration considerations?

NO

7k. List any other hazardous waste treatment or disposal facilities not included in question 7b above. Include capacity, restrictions and permit conditions.

NONE

### 8. LAND / AIR / WATER USE

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

Parcel Descriptor	Acres	Location
Natick RD&E Center	68	Natick, MA
Natick Housing Area	10	Natick, MA
Needham Housing Area	6	Needham, MA
Hudson Housing Area	134	Hudson, MA
Wayland Housing Area	6	Wayland, MA
Installation Total	224	

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

LAND USE CATEGORY		ACRES
Total Developed: (administration, operational, housing, recreational, training, etc.)		132
Total Undeveloped (areas that are left in their natural state but are under specific environmental development constraints, i.e.: wetlands, endangered species, etc.)	Wetlands:	3
	All Others:	0
Total Undeveloped land considered to be without development constraints, but which may have operational/man caused constraints (i.e.: HERO, HERF, HERP, ESQD, AICUZ, etc.) TOTAL		0
Total Undeveloped land considered to be without development constraints		39
Total Off-base lands held for easements/lease for specific purposes		50
Breakout of undeveloped, restricted areas. Some restricted areas may overlap:	ESQD	0
	HERF	0
	HERP	0
	HERO	0
	AICUZ	0
	Airfield Safety Criteria	0
	Other	0

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

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

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

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

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

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

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

8h. N/A

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

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

8j. Describe any non-point source pollution problems affecting water quality ,e.g.: coastal erosion. None

8k.

If the base has a cooperative agreement with the US Fish and Wildlife Service and/or the State Fish and Game Department for conducting a hunting and fishing program, does the agreement or these resources constrain either current or future operations or activities? Explain the nature and extent of restrictions.	YES/NO NO
---	--------------

8l. List any other areas on your base which are indicated as protected or preserved habitat other than threatened/endangered species that have been listed in Section 1. List the species, whether or not treated, and the acres protected/preserved. None

**9. WRAPUP**

**9a. Are there existing or potential environmental showstoppers that have affected or will affect the accomplishment of the installation mission that have not been covered in the previous 8 questions? N/A**

**9b. Are there any other environmental permits required for base operations, include any relating to industrial operations.**

*Romney  
311C  
9/6/94*

- Sewer Permit
- NPDES Permit
- Drinking Water Permit
- ~~Incinerator~~ ~~Incinerator~~ Permit
- Underground fuel storage tank Permit
- Clean Air Permit

**9c. Describe any other environmental or encroachment restrictions on base property not covered in the previous 8 sections.**

*Romney  
311C  
9/6/94*

- 100<sup>ft</sup> Buffer Zone
- Around perimeter at lake edge

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

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 the use in the BRAC-95 process are required to provide and 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 information for the BRAC-95 process must certify 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

B. A. AVELLINI  
NAME (Please type of print)

BG Avellini  
Signature

Acting Officer in Charge  
Title

9/1/99  
Date

Navy Clothing & Textile Research Facility  
Activity

LIST OF TENANT ACTIVITIES

Navy Clothing and Textile Research Facility (NCTRF), UIC 62367, is not a host activity and does not have any tenants.

NCTRF is a tenant activity of the U. S. Army Aviation and Troop Command, Natick Research, Development and Engineering Center (RD&E CTR), Natick, MA.

Data contained in this submission was provided by Natick RD&E CTR and is applicable to the entire facility. Natick RD&E CTR has provided BRAC environmental data via the Army chain-of command.

The Navy component at Natick RD&E CTR consists of one officer and 52 civilian personnel.

# Document Separator

**CAPACITY ANALYSIS:  
DATA CALL #4 WORK SHEET FOR  
TECHNICAL CENTER or LABORATORY: Navy Clothing and Textile  
Research Facility**

**Table of Contents**

<b><u>Section</u></b>	<b><u>Page</u></b>
1. Historical and Projected Workload	1
2. Current Class 2 Assets	6
3. Class 2 Space Available for Expansion	16
4. Class 1 Space Available for Expansion	20
5. Base Infrastructure Capacity	22
6. Ship Berthing Capacity	26
7. Operational Airfield Capacity	26
8. Depot Level Maintenance Capacity	26
9. Ordnance Storage Capacity	26

**TAB A:** Ship Berthing Capacity  
**TAB B:** Operational Airfield Capacity  
**TAB C:** Depot Level Maintenance Capacity  
**TAB D:** Ordnance Storage Capacity

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

7 April 1994

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

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

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

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

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

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

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

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

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

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

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

Page \_\_\_\_\_ of

UIC \_\_\_\_\_

**Table 1.1 Historical and Projected Workload for Navy Clothing and Textile Research Facility**  
 (UIC 62367)

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	4174	4174	0	50	50	0
87	3220	3220	0	52	52	0
88	3209	3209	0	48	48	0
89	3526	3526	0	50	50	0
90	3535	3535	0	50	50	0
91	3603	3603	0	47	47	0
92	3179	3179	0	49	49	0
93	4017	4017	0	49	49	0
94	3716			47		
95	3730			47		
96	3630			47		
97	3670			47		

Page \_\_\_\_\_ of \_\_\_\_\_

UIC \_\_\_\_\_

**Table 1.2 Historical and Projected Workload for Detachments of Navy Clothing and Textile Research Facility - Philadelphia (1)**

(UIC 62367)

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	250	250	0	7	7	
87	285	285	0	7	7	0
88	241	241	0	6	6	0
89	210	210	0	6	6	0
90	222	222	0	6	6	0
91	217	217	0	6	6	0
92	282	282	0	6	6	0
93	274	274	0	6	6	0
94	246			5		
95	240			5		
96	240			5		
97	240			5		

(1) Note: Philadelphia detachment is a tenant at the Defense Personnel Support Center (UIC SP0100), which is scheduled to move to the Aviation Supply Office as a result of BRAC-93

Page \_\_\_\_\_ of \_\_\_\_\_

UIC \_\_\_\_\_

**TABLE 1.3 FY 1993 BREAKOUT OF FUNDS BUDGETED for Navy Clothing and Textile Research Facility**

(UIC 62367)

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
NAVSUP									1925						
ONR		580													
NAVSEA				776											
NAVFAC					85										
Coast Guard															108
Air Force								504							
Army								38							
DLA															1

Page \_\_\_\_\_ of

UIC \_\_\_\_\_

**TABLE 1.3 FY 1994 BREAKOUT OF FUNDS BUDGETED FOR Navy Clothing and Textile Research Facility**

(UIC 62367)

SPONSOR	RDTE(N)						Other RDTE	Other Appropriation					All Other	
	6.1	6.2	6.3a	6.3b	6.4	6.5		6.6	OKM	APN	OPN	WPN		SCN
NAVSUP								1881						
ONR		513												
NAVSEA				948				92						
NAVFAC								16						
Army														
MC														
CG														100
NAVILCO														10

**TABLE 1.3 FY 1995 BREAKOUT OF FUNDS BUDGETED for Navy Clothing and Textile Research Facility**

(UIC 62367 )

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
NAVSUP									1860						
ONR		750													
NAVSEA				900											
NAVFAC									10						
Army								10							
MC								100							
CG															100

Page \_\_\_\_\_ of \_\_\_\_\_

UIC \_\_\_\_\_

**TABLE 1.3 FY 1996 BREAKOUT OF FUNDS BUDGETED for Navy Clothing and Textile Research Facility**

(UIC 62367 )

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
NAVSUP									1760						
ONR		750													
NAVSEA				800											
DLA															100
Army								20							
AF								50							
MC								50							
CG															100

Page \_\_\_\_\_ of \_\_\_\_\_

UIC \_\_\_\_\_

**TABLE 1.3 FY 1997 BREAKOUT OF FUNDS BUDGETED for Navy Clothing and Textile Research Facility**

(UIC 62367 )

SPONSOR	RDT&(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
NAVSUP									1710						
ONR		750													
NAVSEA				800											
DLA															100
Army							20								
AF							100								
MC							90								
CG															100

Page \_\_\_\_\_ of \_\_\_\_\_

UIC \_\_\_\_\_

**TABLE 1.4 FY 1993 BREAKOUT OF FUNDS BUDGETED for DETACHMENTS of Navy Clothing and Textile Research Facility - Philadelphia (UIC 62367 )**

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
NAVSUP									274						

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Page \_\_\_\_\_ of

UIC \_\_\_\_\_

**TABLE 1.4 FY 1994 BREAKOUT OF FUNDS BUDGETED for DETACHMENTS of Navy Clothing and Textile Research Facility - Philadelphia**  
**(UIC 62367 )**

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
NAVSUP									246						

Page \_\_\_\_\_ of

UIC \_\_\_\_\_

**TABLE 1.4 FY 1995 BREAKOUT OF FUNDS BUDGETED for DETACHMENTS of Navy Clothing and Textile Research Facility - Philadelphia**  
**(UIC 62367 \_\_\_\_\_)**

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
NAVUSP									240						

Page \_\_\_\_\_ of \_\_\_\_\_

UIC \_\_\_\_\_



**TABLE 1.4 FY 1997 BREAKOUT OF FUNDS BUDGETED for DETACHMENTS of Navy Clothing and Textile Research Facility - Philadelphia**  
**(UIC 62367 )**

SPONSOR	RDT&(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
NAVSUP									240						

Page \_\_\_\_\_ of

UIC \_\_\_\_\_

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

For your Site:

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

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

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

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Page \_\_\_\_\_ of  
UIC \_\_\_\_\_

**Table 2.1 Main Site Class 2 Assets of Navy Clothing and Textile Research Facility (UIC 62367)**

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

Note: NCTRF is a tenant of the U.S. Army Natick Research, Development, and Engineering Center (UIC W038AA), and as such, is not a Class 2 plant account holder.

Page \_\_\_\_\_ of

UIC \_\_\_\_\_

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

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

\_\_\_\_\_  
\_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_  
UIC \_\_\_\_\_



Table 2.3 Class 2 Space Utilized/Leased by Navy Clothing and Textile Research Facility (UIC 62367)

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	12,667 12.7	11,000 11.0		23,667 23.7
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	16,000 16.0			16,000 16.0
Housing & Community	700				
Utilities & Grounds	800				
Other					
<b>Totals</b>		<b>12,667 12.7</b>	<b>11,000 11.0</b>		<b>23,667 23.7</b>

Note: NCTRF is a tenant at the U. S. Army Natick Research, Development and Engineering Center (UIC W038AA), which is the plant account holder for this property. There is no rental or lease fee, per se, associated with this property. Services are provided through an Interservice Support Agreement.

For your Detachment sites not receiving this Data Call directly:

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

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

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

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Page \_\_\_\_\_ of  
UIC \_\_\_\_\_

**Table 2.4 Class 2 Assets of Navy Clothing and Textile Research Facility \_ Occupied by Detachments  
No plant accounts held for the Philadelphia detachment**

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					
<b>Totals</b>					

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

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Page \_\_\_\_\_ of

UIC \_\_\_\_\_

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

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Page \_\_\_\_\_ of

UIC \_\_\_\_\_



Table 2.6 Class 2 Space Utilized/Leased by Detachments of Navy Clothing and Textile Research Facility - Philadelphia (UIC 62367)

Building type	NAVFAC (P-80) category code	GF/BA (KSF)			
		Adequate	Sub-standard	In-adequate	Total-adequateTota
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	1500	1.5		1500 1.5
Housing & Community	700				
Utilities & Grounds	800				
Other					
<b>Totals</b>		<b>1500</b>	<b>1.5</b>		<b>1500 1.5</b>

*1500 1.5* *sup 311* *5/12/94*

*sup 311* *5/12/94*

*sup 311*

*sup 311* *5/12/94*

Note: Philadelphia detachment is a tenant at the Defense Personnel Center (UIC SP0100), which is scheduled to move to Aviation Supply Office Compound as a result of the BRAC - 93. There is no lease or rental cost associated with this space. Services are provided through an Inter Service Support Agreement.

Page \_\_\_\_\_ of

UIC \_\_\_\_\_

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

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

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

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

d. Use Table 3.2 below to indicate additional unconstrained growth opportunities for accepting expanded or new roles. Unconstrained growth allows for construction of new facilities on existing buildable Class 1 property. The only constraint being that the land must currently be on your plant account holdings as of 31 March 1994 and free of existing land use constraints. Limit new buildings to three stories. Add numbered notes to highlight and explain additional opportunities that would require remediation or waiver of a land use constraint as part of the expansion. Provide lettered notes to clearly identify each opportunity with the title & UIC of the site it refers to. Do not include space that has been reported in Table 3.1.

Page \_\_\_\_\_ of

UIC \_\_\_\_\_

Table 3.1 Constrained Class 2 Space Available for Expansion at \_\_\_\_\_  
(UIC \_\_\_\_\_)

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		
N/A					
<b>Totals</b>					

Note: As NCTRF is a tenant at the U. S. Army Natick Research Development and Engineering Center, this section is not applicable.

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\_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_  
UIC \_\_\_\_\_



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

N/A - NCTRF is a tenant organization.

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

N/A - See above.

\_\_\_\_\_  
\_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_  
UIC \_\_\_\_\_

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

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

\_\_\_\_\_  
 \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_  
 UIC \_\_\_\_\_

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

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

Table 5.1 Base Infrastructure Capacity & Load

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

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

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

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

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

Table 5.2 Maintenance, Repair & Equipment Expenditure Data  
for \_\_\_\_\_ (UIC: \_\_\_\_\_ )

Fiscal Year	MRP (\$M)	CPV (\$M)	ACE (\$M)
1985	N/A		
1986			
1987			

Page \_\_\_\_\_ of \_\_\_\_\_

UIC \_\_\_\_\_

1988			
1989			
1990			
1991			
1992			
1993			
1994			
1995			
1996			
1997			

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Page \_\_\_\_\_ of \_\_\_\_\_  
UIC \_\_\_\_\_

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
N/A to tenant activity								

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

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Page \_\_\_\_\_ of \_\_\_\_\_  
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(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) <sup>1</sup>	Capacity (Student HRS/YR)
N/A			

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

---

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

Page \_\_\_\_\_ of \_\_\_\_\_

UIC \_\_\_\_\_

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.  
N/A

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Page \_\_\_\_\_ of \_\_\_\_\_  
UIC \_\_\_\_\_

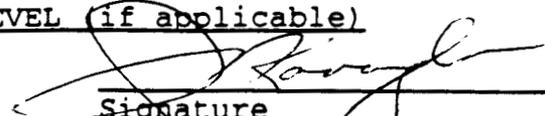
I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

J. T. KAVANAUGH  
NAME (Please type or print)

Rear Admiral, SC, USN  
Title

COMNEXCOM  
Activity

  
Signature  
MAY 03 1994  
Date

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

NEXT ECHELON LEVEL (if applicable)

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

\_\_\_\_\_  
Title

\_\_\_\_\_  
Activity

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

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

MAJOR CLAIMANT LEVEL

R. M. MOORE, RADM, SC, USN  
NAME (Please type or print)

COMMANDER  
Title

NAVAL SUPPLY SYSTEMS COMMAND  
Activity

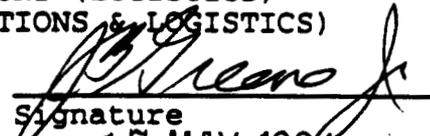
  
Signature  
MAY 12 1994  
Date

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)

J. B. GREENE, JR  
NAME (Please type of print)

ACTING  
Title

  
Signature  
17 MAY 1994  
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.

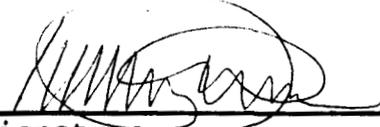
I certify the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

W. E. JOHNSON  
NAME (Please type of print)

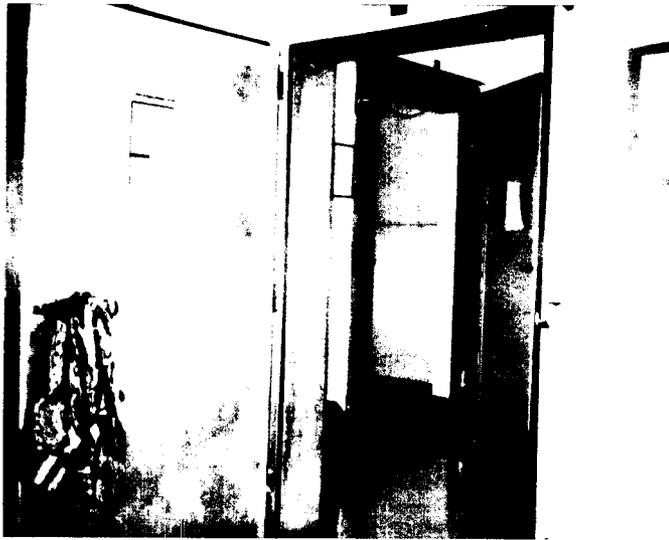
Commander, SC, USN  
Title

NCTRF  
Activity

  
Signature

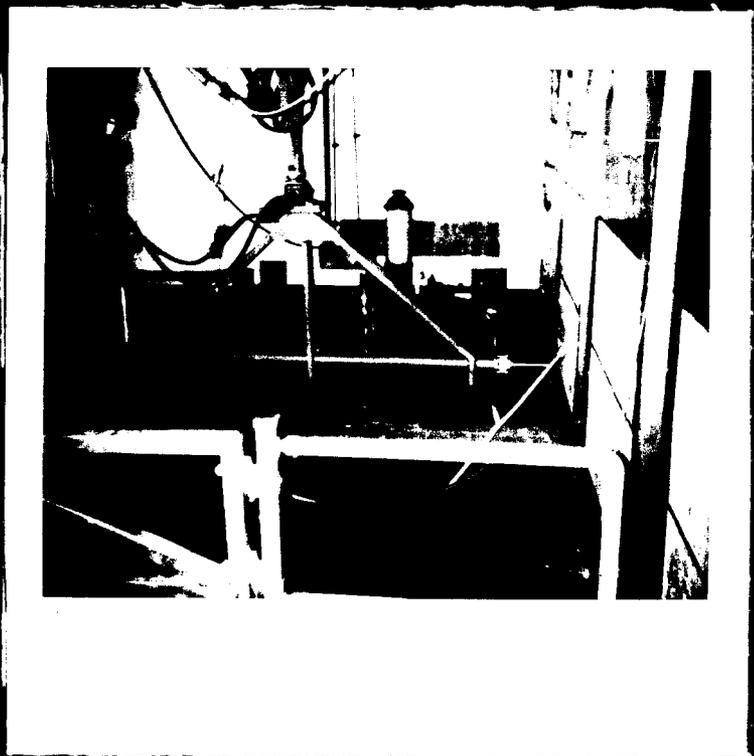
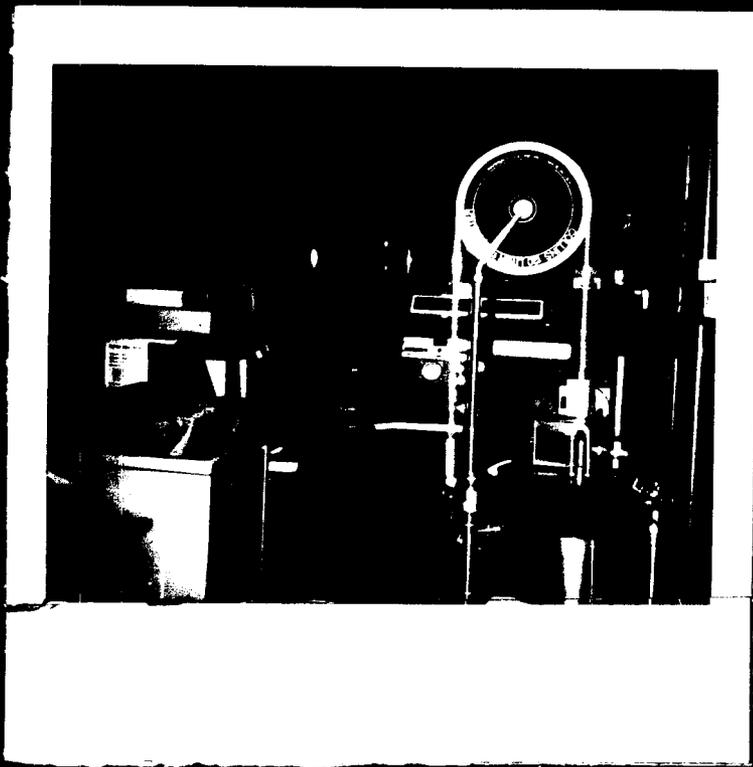
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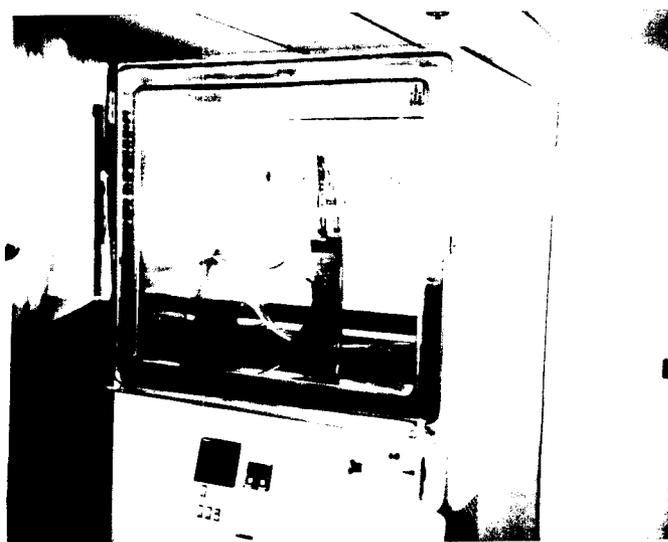
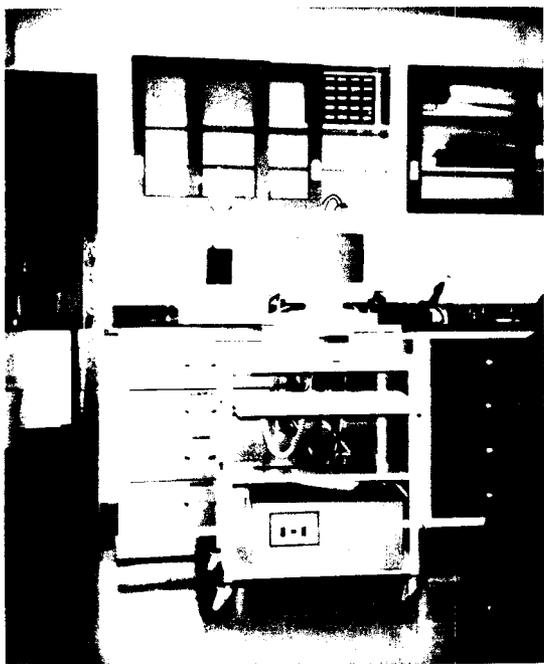
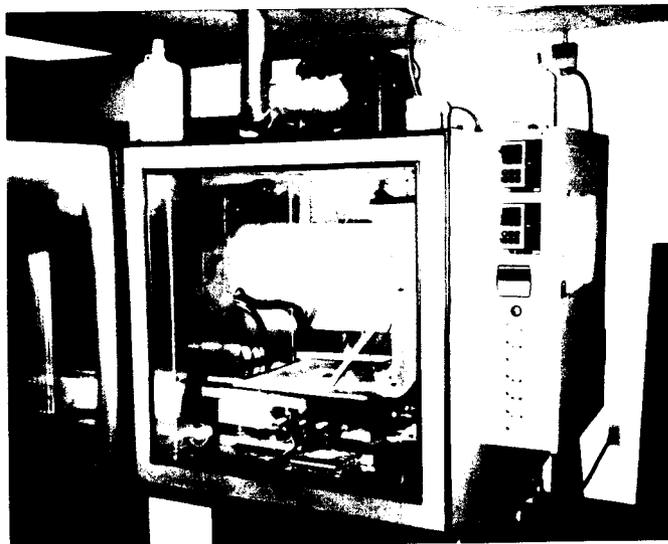
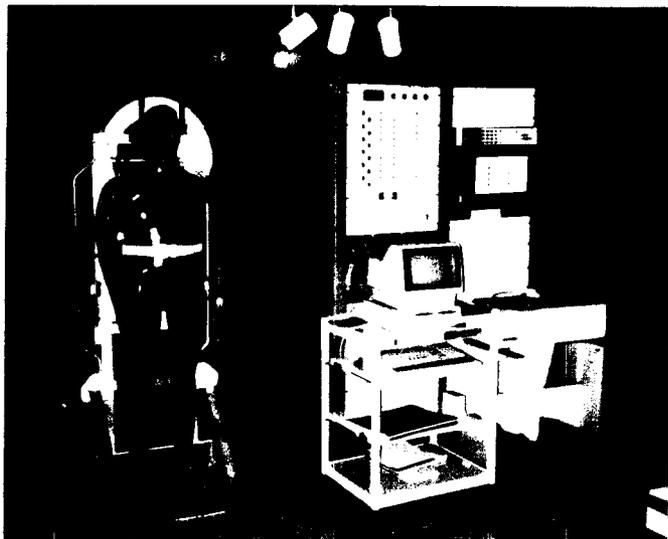
Navy Clothing and Textile Research Facility  
HYDRO-ENVIRONMENTAL SIMULATOR

84  
SUT 3.1  
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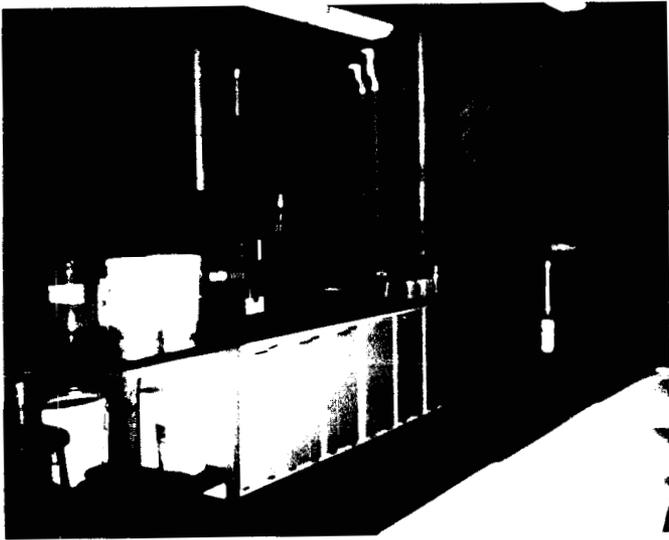
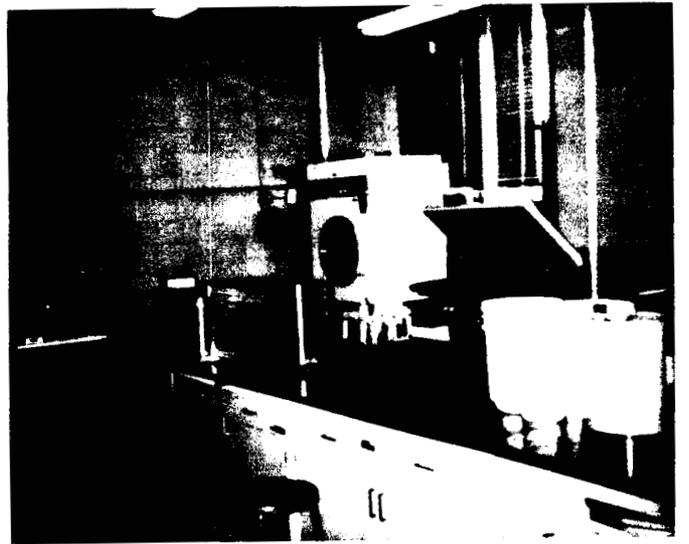
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**SUPPORTING EQUIPMENT FOR**  
**ENVIRONMENTAL TEST CHAMBER AND HYDRO-ENVIRONMENTAL SIMULATOR**



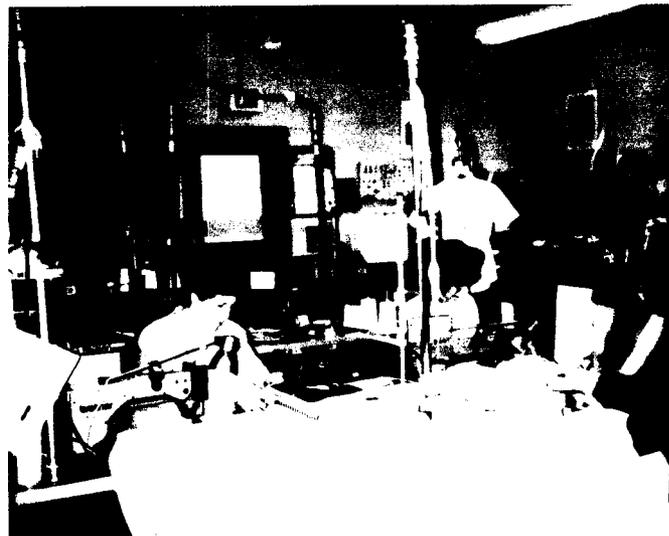
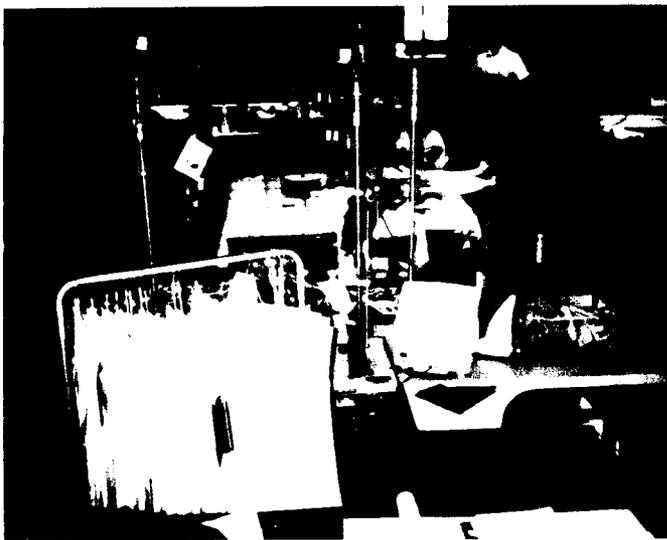
Navy Clothing and Textile Research Facility  
BIOPHYSICAL TEST EQUIPMENT

16  
JAN 3.1  
87-191



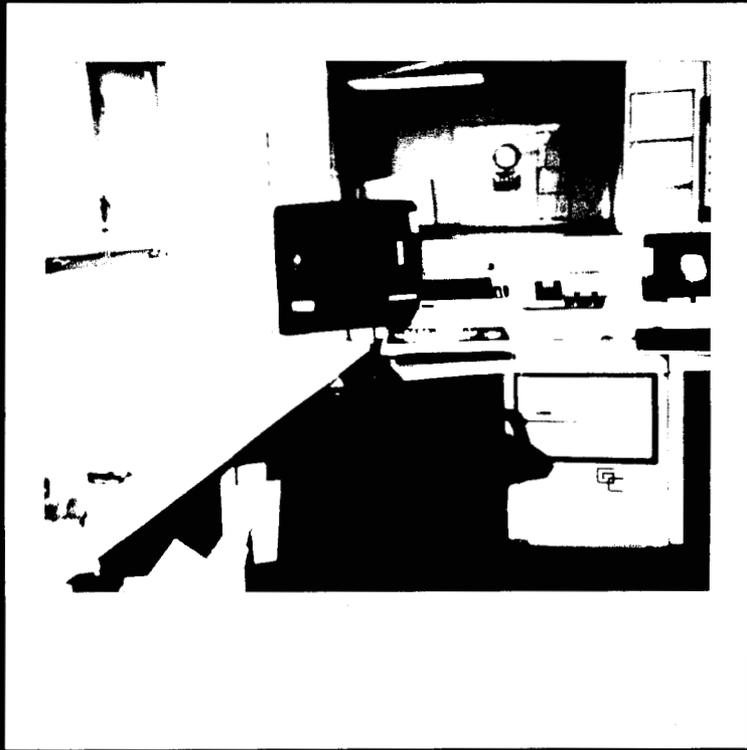
Navy Clothing and Textile Research Facility  
LAUNDRY LABORATORY

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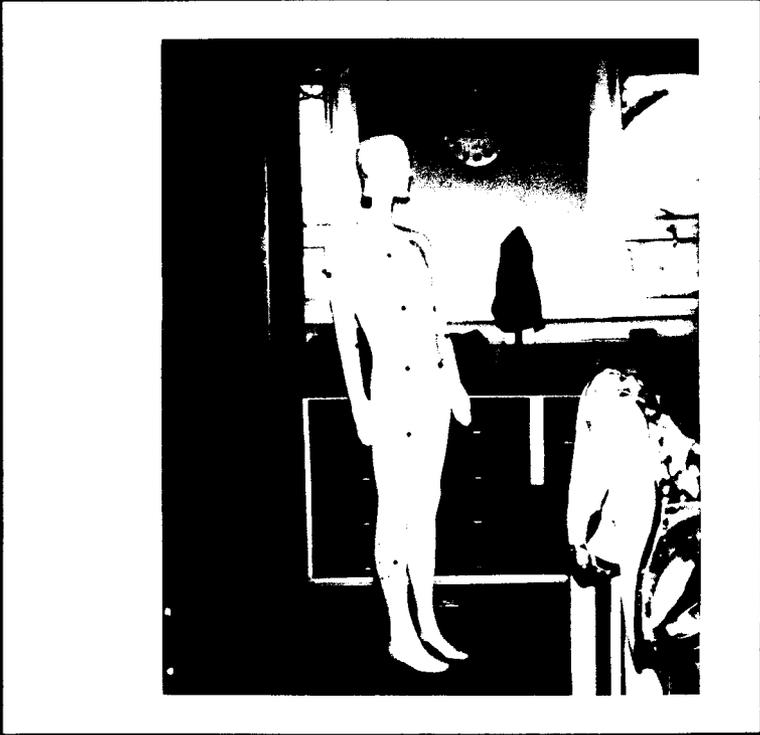
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**Navy Clothing and Textile Research Facility  
THERMAL FLAMMABILITY LABORATORY**

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