

MILITARY VALUE DATA CALL
TECHNICAL CENTERS

Category	Training Range
Technical Center Site	AFWTF UIC 00017A
Location/Address	NAVSTA ROOSEVELT ROADS, PR

Mission

1. Mission Statement
2. Joint Service Missions

Technical Functions

3. Technical Functions Resource Allocations

Manpower

4. Work Breakdown Structure
5. Technical Staff Qualifications

Facilities and Equipment

6. Special Facilities/Equipment Resources
7. General Facilities/Equipment Resources

Location

8. Geographic Location

Features and Capabilities

9. Computational Facilities
10. Mobilization Responsibility and Capability
11. Range Resources

Quality of Life

12. **Military Housing**
13. **MWR Facilities**
14. **Base Family Support Facilities**
15. **Metropolitan Areas**
16. **VHA**
17. **Off-base Housing Rental and Purchase**
18. **Sea Intensive Ratings**
19. **Commute**
20. **Educational Opportunities**
21. **Employment Opportunities**
22. **Medical/Dental**
23. **Crime Rate**

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

MILITARY VALUE MEASURES

NOTE: The Atlantic Fleet Weapons Training Facility, AFWTF, UIC 0017A is a tenant command onboard Naval Station Roosevelt Roads, Puerto Rico, UIC 00389. AFWTF maintains no property account of class I or II property. Quality of Life issues relating to this Military Value Data Call vest primarily with the host NAVSTA and should be the focus of their attention in NAVSTA BRAC 95 Military Value calls.

AFWTF is a major fleet training range which operates, maintains, and develops weapons training facilities and services in direct support of fleet training. Although it is not directly responsible to conduct test and evaluation of new weapon systems, it has the capability to provide support for RDT&E activities in their test and evaluation programs. This support is provided in almost all warfare areas utilizing the resources distributed in four coordinated ranges; i.e., Outer Range, Inner Range, Underwater Tracking Range and Electronic Warfare Range.

The following BRAC-95 Data Call input is submitted on the basis of the tenant/host command relationship.

UIC 0017A

MISSION

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

"To operate, maintain, and develop weapons training facilities and services in direct support of the training of fleet forces and other activities, and for the development, test and evaluation, on a reimbursable basis, of weapons systems." COMNAV AIRLANTINST 5450.45

2. **Joint Service Missions.** State any officially assigned joint/lead service assignments missions and cite the document(s) that assigned them. None.

UIC 0017A

TECHNICAL FUNCTIONS

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

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

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

UIC 0017A

MANPOWER

4. Work Breakdown Structure.

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

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

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

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

NOTES:

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

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

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

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

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

UIC 0017A

**Table 4.1, General Support Resources for
(Activity: AFWTF) (UIC: 0017A)**

Function	Space allocated (Gross SQFT)	Work Years	Civilian Persnel onboard	Contract Work Years	Military Personnel Onboard	
					Off	Enl
ADMINISTRATION						
Command (CO/XO/TD/etc.)	332	3	1			0
Comptroller	717	3	3			0
Admin	1253	11	5			4
Human Resources						0
OPERATIONS SUPPORT						
Supply Management	588	9	2			6
Consolidated Computational Computer Support	786	5	5			0
Information Systems and Communications	164	1	1			0
Safety/OSH/Environmental	180	3				1
INFRASTRUCTURE						
Physical Security		1				1
Public Works/Staff Civil Engr						0
Fire Protection						0
Medical/Dental						0
Military Support		10				10
Air/Waterfront Operations		62				52
Other	1331	4	4			
TECHNICAL STAFF						
Technical Operations	2335	15	15			
Totals	7506	127	36			17
						74

UIC 0017A

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

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

UIC: 0017A

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

NOTE: (1) AFWTF (0017A) has no detachments.
(2) N/A TO AFWTF (UIC: 0017A)

UIC 0017A

**Table 4.3, Previous BRAC Impact to General Support Resources for
(Activity: AFWTF) (UIC: 0017A)**

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

NOTE: (1) No previous BRAC impact to AFWTF.

UIC 0017A

5. Technical Staff Qualifications.

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

Table 5.1, Technical Staff Education Level for
(Activity: AFWTF) (UIC: 0017A)

Highest Degree Attained	Years of Government and/or Military Service					Total
	Less than 3 Years	3-10 Years	11-15 Years	16-20 Years	More than 20 Years	
Grade School						
High School						
B.A./B.S			6	1	4	11
M.A./M.S		1	3			4
Ph.D./M.D.						
Total		1	9	1	4	15

UIC 0017A

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

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

NOTE: (1) AFWTF (UIC 0017A) has no detachments.
 (2) N/A TO AFWTF

UIC 0017A

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

**Table 5.3, Technical Staff Academic Fields for
(Activity: AFWTF) (UIC: 0017A)**

Academic field	Number
Physics	
Chemistry	
Biology	
Mathematics/Statistics/ Operations Research	4
Engineering	15
Medical	
Dental	
Computer Science	4
Social Science	
Other Science	
Non-Science	
Total	23

UIC 0017A

**Table 5.4, Technical Staff Academic Fields for all Detachments
(Parent Activity: AFWTF) (UIC: 0017A)**

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

NOTE: (1) AFWTF (UIC 0017A) does not have detachments.
(2) N/A to AFWTF

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

Yes, periodic hiring from CONUS requires small COLA adjustment to base salary. Typically local employee pool is sufficient to meet needs.

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. None

e. List all technical books and/or chapters written by the in-house technical staff that were published or accepted for publication since 1 January 1990. None

f. Identify any Nobel laureates employed at this activity. None

g. List all non-governmental awards for research or technical excellence given to members of your technical staff since 1 January 1990. None

UIC 0017A

h. List all governmental awards for research or technical excellence given to members of your technical staff since 1 January 1990. None

i. List all patents awarded to the in-house technical staff members of this activity since 1 January 1990. None

j. List all patents applied for by the in-house technical staff members of this activity since 1 January 1990. None

k. Identify any in-house staff that are members of the National Academy of Engineering. None

l. Identify any in-house staff that are members of the National Academy of Sciences.
None

m. How many Cooperative Research and Development Agreements (CRDAs) have been signed by the activity since 1 January 1990? None

n. What has been the activity's annual royalty income from CRDAs and patent licenses for each year since 1 January 1990? None

o. List and describe any major end item prototypes, either product or process technology, developed in-house by the activity that are currently in production and/or are currently in use by the U.S. Armed Forces or by industry. Cite a published reference that documents the work. None

UIC 0017A

FACILITIES AND EQUIPMENT

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

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

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

Equipment - Resources used to support the operation of the site with a replacement value of \$500,000 or greater. Do not include land or buildings in this category. In reporting equipment, provide information to indicate the degree of portability of the equipment.

Class 3 Personal Property items ("plant equipment" or "equipment in place") by definition are highly portable and can be moved easily. Some Class 2 Installed Equipment, such as Main-frame computers, test stands and small hyperbaric chambers, require more extensive utilities support and assembly of components, but can be relocated without damage to the facility or equipment, and therefore are considered "moveable" assets. Other Class 2 items are so large and/or integral to the facility that houses them that major demolition and construction would be required to relocate them, and therefore are considered "fixed" assets. Where appropriate, pieces of equipment can be aggregated for the purposes of completing Tab B.

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.

Yes, an average \$500,000.00 is generated through foreign military sales. FMS services involve range services for training.

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

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

UTC 0017A

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

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

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

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

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

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

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

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

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

(5) CWE & planned BOD.

d. What is the distance (in miles) to the nearest military airfield and/or pier not located at your site? Describe. Assume all previous BRAC closures have been executed. N/A; see Notes (1) and (2).

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

NOTE: (1) AFWTF is a Tenant Activity onboard Naval Station, Roosevelt Roads, PR.

(2) Closest military airfield and/or pier is within 4 miles of this facility. Field and piers are custody of host NAVSTA, Roosevelt Roads.

UIC 0017A

LOCATION

8. Geographic Location.

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

Yes, The location of the AFWTF is a trade off between the steaming distance/time/cost from the US home ports of the range users, and the availability of unrestricted air and sea space to conduct live fire weapons training exercises. The average 4 days of steaming time to transit to the Puerto Rican operating areas limits units' flexibility to come on the range, but at the same time allows a ship to conduct intense internal training exercises in areas such as damage control and engineering while enroute. Also, the availability of weapons for live fire practice and training would limit use of the range if it were closer to the US coast.

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

Our location provides over 200,000 square miles of virtually unrestricted and unused air and surface for live fire missile and gun exercises, over 400 square nautical miles of unrestricted deep (up to 2000 fathoms) water instrumented for ASW training, and a live Naval gunfire and bombing range, all collocated in one place and supported by a Navy base. As an example, the surface and airspace allow virtually no-notice scheduling of BQM target launches. The size of the range is critical to a successful multi-unit or battle group exercise, and is becoming very critical to the testing and training for new long range weapons. The collocation improves the intensity of a live exercise, making the training much more realistic.

UIC 0017A

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.

In order to satisfy AFWTF mission a unique set of computer systems and subsystems have been developed and installed at AFWTF through the years. A combination of militarized and commercial hardware coexist to form the Central Command and Control System Network (CCCSN). The CCSN is a wide area star network of computers and instrumentation systems used to perform the range command and control, threat presentation, surveillance, safety, data collection, data products and exercise reconstruction and playback functions. All CCCSN components are interconnected through high speed parallel or serial interfaces. Attachment A provides a block diagram of the CCCSN. The following is a short description of the CCSN major subsystems:

(1) Central Data Processing and Distribution System (CDPDS). CDPDS is the central computer suite. It provides data processing, distribution track data management and correlation capabilities as required in support of all CCSN sub-systems and range instrumentation resources. It consists of two Encore 32/8780s, each with associated peripherals.

(2) Range Advanced Combat Direction System (RACDS). The RACDS is a fleet compatible system supporting command, control and communications. It provides standard ACDS Block 0 shipboard functionality in the management, display and dissemination of Range Data. The RACDS provides video processing of radar and IFF standard Link-11 and Link-4A communications.

(3) Real-Time Display System (RTDS). The RTDS supports the management of Range Operations. It interfaces directly with the CDPDS ENCORE 32/8780s in order to receive, process, and display tactical real-time data at the Command and Control Terminals (CCTs) and the Large Screen Display (LSD) System, as well as forward operator control actions to CCSN subsystems.

(4) Integrated Target Control System (ITCS). The ITCS system was built to meet a set of Navy Requirements reflecting the need of several Navy Ranges including AFWTF. ITCS performs target vehicle tracking and control functions in a variable mission scenario.

UIC 0017A

(5) Remote Data and Drone Control System (RDDCS). The RDDCS remotely controls and monitors airborne as well as waterborne target drones. It consists of three (3) telemetry receivers, known as the Range Instrumentation Site (RIS), two Drone Control Consoles (DCC) for remote control of drones, and Drone Instrumentation Consoles (DIC) containing graphic monitors used to display digital, analog, track and reference points/lines.

(6) Sensor Positioning and Readback System (SPARS). SPARS provides the interface between the Range Precision Tracking Radars and CDPDS to receive radar data as well as to provide acquisition data. SPARS consists of Sensor Buffers located at each radar site and a central Buffer located at the AFWTF ROC which interfaces with CDPDS.

(7) Range Surveillance Systems (RSS). The RSS is responsible for the detection, acquisition, tracking, processing and identifying all surface and air vehicular activities within the Outer Range operating areas. The RSS function is performed real time and on-line with other range major CCCSN systems discussed subscribers. The RSS is built around two AN/SPS-48C surveillance radars, one installed on top of Crown Mt., St. Thomas, U.S.V.I., and the second on top of Pico del Este, Puerto Rico. Radar analog video signals are input to the NTDS TDDCs.

(8) TAPS. The TAPS provides current position information on operator-selected tracks to remotely located telemetry antennas. At the remote sites, the TAPS equipment accepts the transmitted data and, by operator selection, automatically positions the antennas. Readouts are provided at the remote sites for displaying the track number, azimuth and elevation of the telemetry targets.

(9) TRS AP. The TRS system provides simulation of numerous hostile radar signals in order to create a realistic presentation of the simulated hostile EW environment. The CCCS supplies antenna positioning data to the TRS.

(10) Underwater Tracking Range (UTR). The UTR conducts Fleet ASW Training Exercises and for the Test and Evaluation of ASW Weapons Systems. The UTR is comprised of a Real Time Data Gathering and Processing System (DGPS) with a Post Exercise Data Extraction and Reduction System. The UTR DGPS is responsible for the acquisition, processing and display of real-time tracking data in the most versatile and variable of the naval tactical training environments; subsurface, surface and aerial Hydroacoustic coded noise emissions, surveillance and tracking radar data, and tactical digital links converge at the front end processors of the DGPS in order to convey the creation of a real-time situation display in support of the most complex ASW tactical scenarios. The UTR DGPS is designed around a Local Area Network (LAN) with a large suite of state-of-the-art, highly interactive, fourth generation workstations. Extensive use of modern graphic display technology, e.g., higher resolution, multi-color displays using UNIX OS, Windows and Posit/Motiff support software, made it possible that at each workstation a large set of application functions as well as man-machine interfaces could be supported.

UIC 0017A

(11) IDER. Provides AFWTF Range Users with Post Mission Playback capabilities and the ability to provide reduced data listing dumps, and plots of the exercise events. Exercise data products can be tailored to the specific requirements of Range users. IDER comprises two computer systems with their own peripheral suites as follows:

(a) PDP 11/84

(b) VAX 6000

(12) Range Electronic Warfare Simulators (REWS). The EW range exhibits the largest and most capable suite of threat simulators available for Fleet tactical training. Included are: four Threat Platforms Simulator (TPS) AN/ULQ13(V), one Noise Jammer Simulator (NJS) AN/FLQ-4, one Threat Radar Simulator (TRS) AN/FPQ-23, and one Outboard Stimulator (OBS) AN/FSQ-154. Each of the simulators threat scenarios presentation is computer controlled in a preset fashion and/or could be dynamically modified at the parameter level. That capability is achievable only with the use of complex, highly interactive support and application software systems that reside in state-of-the-art computing hardware environment. All EW simulator systems made use of imbedded computer systems that range from mini computer to single PC boards computers with PROM application firmware

Digital Microwave System. The AFWTF digital microwave system consists of 11 links. It is a fully digital system consisting of radios manufactured by Rockwell Collins, high speed multiplexer (DS-3) manufactured by Northern Telecom and channel banks manufactured by Wescom. Other unique components used in the system are Radar Video Compression Units (RVCS) manufactured by ARCATA and Associates; these units digitize and compress radar signals for transmission to the Range Control Center and ultimate display. The Pico del Este, Crown Mt. and Monte Pirata links have a capacity of two DS-3's (90 Mb). The others have a DS-3 capacity (44Mb) capacity. Each DS-3 can carry 28 T-1 circuits or translated to voice channels, 672 channels or 672, 56 Kb data circuits.

Fiber Optic Systems. AFWTF has two fiber optics links serving the ROC. One link ties the ROC with the North Delicias instrumentation site which is about a mile distant. It consists of 18 multimode fibers operating at 850nm wavelength and uses Optelecom optical interfaces. Radio, telephone, video and radar signals are passed through this system. The second link ties the North Delicias site with the ASR-8 radar site and is used exclusively to relay the radar signals for display at the ROC. It consists of 10 multi-mode fibers and uses Optelecom optical interfaces.

10. Mobilization Responsibility and Capability.

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

UIC 0017A

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

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

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

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

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

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

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

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

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

11. **Range Resources.** Include a copy of the form provided at Tab C of this data call for each range located at this activity or operated by this activity. See Tab C.

UIC 0017A

QUALITY OF LIFE

12. Military Housing

(a) Family Housing:

(1) Do you have mandatory assignment to on-base housing? No

(2) For military family housing in your locale provide the following information: N/A (Note (1))

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					

Note: (1) AFWTF is a tenant command on NAVSTA Roosevelt Roads. Quality of life issues shall be addressed by the host (NAVSTA, Roosevelt Roads, Puerto Rico) in BRAC 95 Data Call 36 (NAVSTA Military Value).

(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?

UIC 0017A

(4) Complete the following table for the military housing waiting list. N/A
 (Note (1))

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

¹As of 31 March 1994.

(5) What do you consider to be the top five factors driving the demand for base housing? Does it vary by grade category? If so provide details. N/A (Note (1))

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 11'0 & Military Handbook 1035-Family Housing)? N/A (Note (1))

(7) Provide the utilization rate for family housing for FY 1993. N/A (Note (1))

Type of Quarters	Utilization Rate
Adequate	N/A
Substandard	
Inadequate	

(8) As of 31 March 1994, have you experienced much of a change since FY 1993? If so, why? If occupancy is under 98% (or vacancy over 2%), is there a reason? N/A (Note (1))

UIC 0017A

(b) **BEQ:**

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

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 (Note (1))

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

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

(4) Indicate in the following chart the percentage of geographic bachelors (GB) by category of reasons for family separation. Provide comments as necessary. N/A (Note (1))

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

(5) How many geographic bachelors do not live on base? N/A (Note (1))

UIC 0017A

(c) BOQ:

(1) Provide the utilization rate for BOQs for FY 1993. N/A (Note (1))

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 (Note (1))

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

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

(4) Indicate in the following chart the percentage of geographic bachelors (GB) by category of reasons for family separation. Provide comments as necessary. N/A (Note (1))

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

(5) How many geographic bachelors do not live on base? N/A (Note (1))

UIC 0017A

(d) BOQ/BEQ Housing and Messing.

(1) Provide data on the BOQs and BEQs assigned to your current plant account. The desired unit of measure for this capacity is people housed. Use CCN to differentiate between pay grades, i.e., E1-E4, E5-E6, E7-E9, CWO-O2, O3 and above. None assigned.

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?

UIC 0017A

(3) Provide data on the BOQs and BEQs projected to be assigned to your plant account in FY 1997. The desired unit of measure for this capacity is people housed. Use CCN to differentiate between pay grades, i.e., E1-E4, E5-E6, E7-E9, CWO-O2, O3 and above. None projected to be assigned.

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?

UIC: 0017A

(5) Provide data on the messing facilities assigned to your current plant account.
None assigned.

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

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

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

UIC 0017A

(7) Provide data on the messing facilities projected to be assigned to your plant account in FY 1997. None projected to be assigned.

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

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

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

UIC 0017A

13. **MWR Facilities.** For on-base MWR facilities¹⁰ available, complete the following table for each separate location. For off-base government owned or leased recreation facilities indicate distance from base. If there are any facilities not listed, include them at the bottom of the table. N/A (Note (1))

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		

Note (1): To be included in host (NAVSTA Roosevelt Roads, Puerto Rico) response to BRAC 95 Data Call #37 (NAVSTA Military Value).

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

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

(a) Is your library part of a regional interlibrary loan program? N/A
(Note 1)

14. Base Family Support Facilities and Programs.

a. Complete the following table on the availability of child care in a child care center on your base. N/A (Note (1))

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

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

Facility type/code:

What makes it inadequate?

What use is being made of the facility?

What is the cost to upgrade the facility to substandard?

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

Current improvement plans and programmed funding:

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

c. If you have a waiting list, describe what programs or facilities other than those sponsored by your command are available to accommodate those on the list. N/A (Note (1))

d. How many "certified home care providers" are registered at your base? N/A (Note (1))

e. Are there other military child care facilities within 30 minutes of the base? State owner and capacity (i.e., 60 children, 0-5 yrs). N/A (Note (1))

Note: (1) To be included in host (NAVSTA Roosevelt Roads, Puerto Rico) response to BRAC 95 Data Call number 37 (NAVSTA Military Value).

UIC 0017A

f. Complete the following table for services available on your base. If you have any services not listed, include them at the bottom. N/A (Note (1))

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): N/A; to be included in host (NAVSTA Roosevelt Roads, Puerto Rico) response to BRAC 95 Data Call number 37 (NAVSTA Military Value).

City	Distance (Miles)
San Juan	37
Carolina	29
Caguas	31

UIC 0017A

16. Standard Rate VHA Data for Cost of Living:

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

Note (1): N/A; to be included in host (NAVSTA Roosevelt Roads, Puerto Rico) response to BRAC 95 Data Call number 37 (NAVSTA Military Value).

UIC 0017A

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. N/A (Note (1))

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)			

Note (1): N/A; to be included in host (NAVSTA Roosevelt Roads, Puerto Rico) response to BRAC 95 Data Call number 37 (NAVSTA Military Value).

(b) What was the rental occupancy rate in the community as of 31 March 1994? N/A (Note (1))

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)	

UIC 0017A

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

Note (1): N/A; to be included in host (NAVSTA Roosevelt Roads, Puerto Rico) response to BRAC 95 Data Call number 37 (NAVSTA Military Value).

(c) What are the median costs for homes in the area? N/A (Note (1))

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

(d) For calendar year 1993, from the local MLS listings provide the number of 2, 3, and 4 bedroom homes available for purchase. Use only homes for which monthly payments would be within 90 to 110 percent of the E5 BAQ and VHA for your area. N/A (Note (1))

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

UIC: 0017A

August			
September			
October			
November			
December			

(e) Describe the principle housing cost drivers in your local area. N/A (Note (1))

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

Rating	Number Sea Billets in the Local Area	Number of Shore billets in the Local Area
OS	0	35
EW	0	10
RM	0	7
SK	0	5
FN	0	3

Note: Submitted Data is for AFWTF UIC 0017A only; Host (NAVSTA Roosevelt Roads, Puerto Rico) shall submit base data in subsequent Data Call.

19. Complete the following table for the average one-way commute for the five largest concentrations of military and civilian personnel living off-base. N/A; to be included in host (NAVSTA Roosevelt Roads, Puerto Rico) response to BRAC 95 Data Call number 37 (NAVSTA Military Value).

Location	% Employees	Distance (mi)	Time(min)
Fajardo			
Ceiba			

UIC 0017A

San Juan			
Luquillo			
Naquabo			

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. N/A (Note (1))

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

Note (1): N/A; to be included in host (NAVSTA Roosevelt Roads, Puerto Rico) response to BRAC 95 Data Call number 37 (NAVSTA Military Value).

(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. N/A (Note (1))

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

(c) List the educational institutions which offer programs on-base available to service members and their adult dependents. Indicate the extent of their programs by placing a "Yes" or "No" in all boxes as applies. N/A (Note (1))

Institution	Type Classes	Program Type(s)				
		Adult High School	Vocational/ Technical	Undergraduate		Graduate
				Courses on y	Degree Program	
Central Texas College	Day					
	Night					
	Correspondence					
Columbia College	Day					
	Night					
	Correspondence					
New Hampshire College	Day					
	Night					
	Correspondence					
	Day					
	Night					
	Correspondence					

21. Spousal Employment Opportunities.

Provide the following data on spousal employment opportunities. N/A; to be included in host (NAVSTA Roosevelt Roads, Puerto Rico) response to BRAC 95 Data Call number 37 (NAVSTA Military Value).

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

Note (1): N/A; to be included in host (NAVSTA Roosevelt Roads, Puerto Rico) response to BRAC 95 Data Call number 37 (NAVSTA Military Value).

22. Medical/Dental.

a. Do your active duty personnel have any difficulty with access to medical or dental care, in either the military or civilian health care system? Develop the why of your response. N/A (Note 1))

b. Do your military dependents have any difficulty with access to medical or dental care, in either the military or civilian health care system? Develop the why of your response. N/A (Note 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. N/A (Note (1))

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

Note (1): N/A; to be included in host (NAVSTA Roosevelt Roads, Puerto Rico) response to BRAC 95 Data Call number 37 (NAVSTA Military Value).

UIC 0017A

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

UIC 0017A

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

UIC 0017A

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

UIC 0017A

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

UIC 0017A

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

UIC 0017A

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	AFWTF
Functional Support Area	(Note 1)
Life Cycle Work Area	(Note 2) (Note 3)

1. **In-House Work Years.** Provide the number of in-house government employee (civilian and military) work years for FY1993 that were performed in this functional support area - life cycle work area. Workyears are to be consistent with those used in the preparation of inputs to the President's budget. 44 WYs (Note 2)

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in FY1993 for this functional support area - life cycle work area. \$(K) 1,769 (Note 2)

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) 8,481

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: (1) Overall Support of T&E functions encompassed on all AFWTF ranges

Note: (2) Workyears and in-house expenditures are determined based on the MRTFB uniform funding policy figures submitted in FY95/96 RTFB of 18 June 1993

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.

NOTE: (1) Overall support of T&E Functions.

(2) Work Years and In-house/Out-house expenditures are determined based on the MRTFB uniform funding policy figures submitted in FY-95/96 MRTFB of 18 June 1993.

(3) Current accounting method used on range tends to be systems oriented rather than operations oriented. The Life Cycle Work Area most applicable to these areas is number 10 (Program Support). AFWTF provides operating ranges to the user who is engaged in the RDT&E effort.

TAB B

SPECIAL FACILITIES AND EQUIPMENT

FACILITIES/EQUIPMENT CAPABILITY FORM

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

Technical Center Site	Outer Range (AFWTF)
Facility/Equipment Nomenclature or Title	Central Command and Control System Network (CCCSN)

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

The CCCSN is a wide area star network of computers and instrumentation systems used to perform the range command and control, threat presentation, surveillance, safety, data collection, data products and exercise/test reconstruction and playback functions. All CCCSN components are interconnected through high speed parallel or serial interfaces.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 13 of this data call.

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.

\$62M for all instrumentation systems and assuming that the same software can be used.

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

Gross weight = 50 Tons
Volume = 4,000 cu. ft.

Note: The equipment is distributed in multiple locations in rack configurations with other range instrumentation systems.

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

Two emergency Uninterruptible Power Supply (UPS) systems are used to provide reliable electrical power to ensure continuous operations support and avoid equipment damage. Some of the system components require distilled water cooling systems and 400 Hz electrical

power.

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).

Temperature - 72 degrees F

Relative Humidity - 50%

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 CCCSN will be very difficult to replicate or relocate to another site. Several development efforts have been implemented through the years to upgrade the system to the present configuration. These efforts have been unique for the range, in particular those related to the required software system. If the equipment is lost the range will not be able to perform the required functions for testing and training support, in particular those related to the air and surface functional areas.

The CCCSN is essential to perform the command and control of the units within the operational ranges. All exercise/test participants positional information is processed and displayed on different consoles to perform such control functions. Console operators and range officers require the processed data to ensure that operations are conducted in a safe environment. Also the data is recorded for test/exercise playback to perform associated critique and analysis. Without the CCCSN these functions cannot be performed.

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

The CCCSN was originally installed in the early 70's and has been expanded through the years by implementing different projects.

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.

2.2 Guided missiles

3.2 Air

- 3.3 Surface
- 5.2 Radar systems
- 8.3 EW systems

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

4224 hours.per year. Unit of measure is the hour.

12. Provide the projected utilization data out to FY 1997.

4224 hours per year.

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

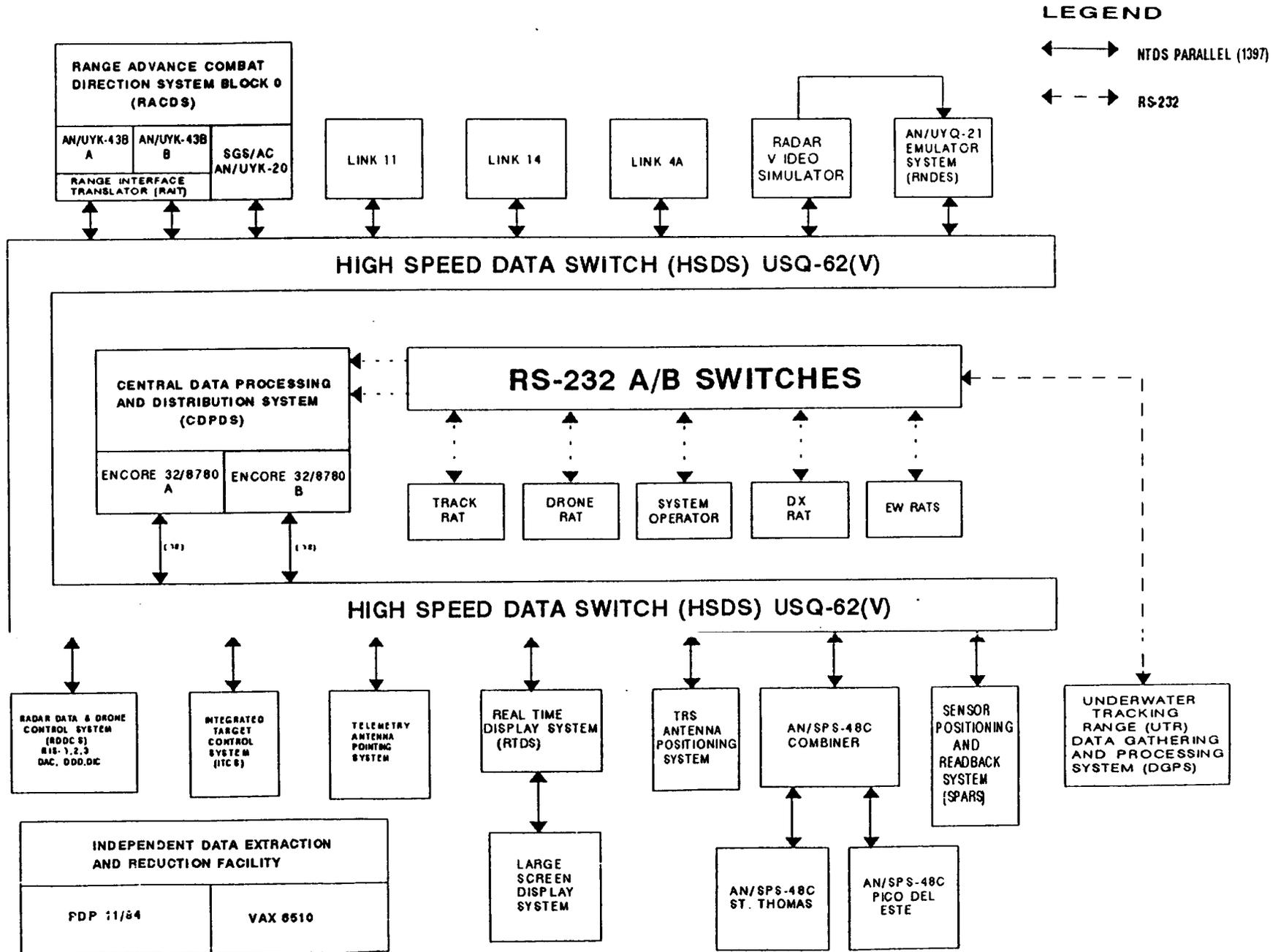
35 contractor personnel, including maintenance.

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

Refer to above answer.

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

AFWTF CENTRAL COMMAND AND CONTROL SYSTEM NETWORK (CCCSN) BLOCK DIAGRAM





COMPUTER ROOM (CDPDS
10/25/77)

Technical Center Site	Outer Range (AFWTF)
Facility/Equipment Nomenclature or Title	AN/FPS-67A Radar

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

The AN/FPS-67A surveillance radar is used to provide positional data of all air and surface units participating in the tests or exercises within the operational areas in order to exercise the command and control functions of the range in a safe environment. The radar is also used by the FAA for air traffic control for all the Puerto Rico area and nearby islands.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 13 of this data call.

Moveable.

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

\$35M

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

Gross weight = 10 Tons
Volume = 1,040 cu. ft.

Note: Data has been estimated for this old radar system.

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

An emergency Uninterruptible Power Supply (UPS) system is used to provide reliable electrical power to ensure continuous operations support and avoid equipment damage.

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

RF shielding is required.

7. State any environmental control requirements for the facility/equipment (i.e.,

TAB B
UIC: 0017A

temperature, humidity, air scrubbing).

Temperature - 72 degrees F

Relative Humidity - 50%

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 AN/FPS-67A can be substituted with similar radars used by FAA for air traffic control. Such new radar will have to be modified to support the surveillance and beacon tracking modes requirement of the range. The relocation of the AN/FPS-67A to another location will not be cost effective due to the major efforts involved for this old radar system. This particular radar site offers the best line-of-sight to cover the operational areas for surface units. Other AFWTF radar sites do not have this capability.

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

The radar was installed at the remote site of Pico del Este approximately in 1959 by means of a major construction project.

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.

2.2 Guided missiles

3.2 Air

3.3 Surface

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

2114.4 hours per year. Unit of measure is the hour.

12. Provide the projected utilization data out to FY 1997.

1800 hours per year.

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

20 civil service (FAA) employees which are also used for maintenance.

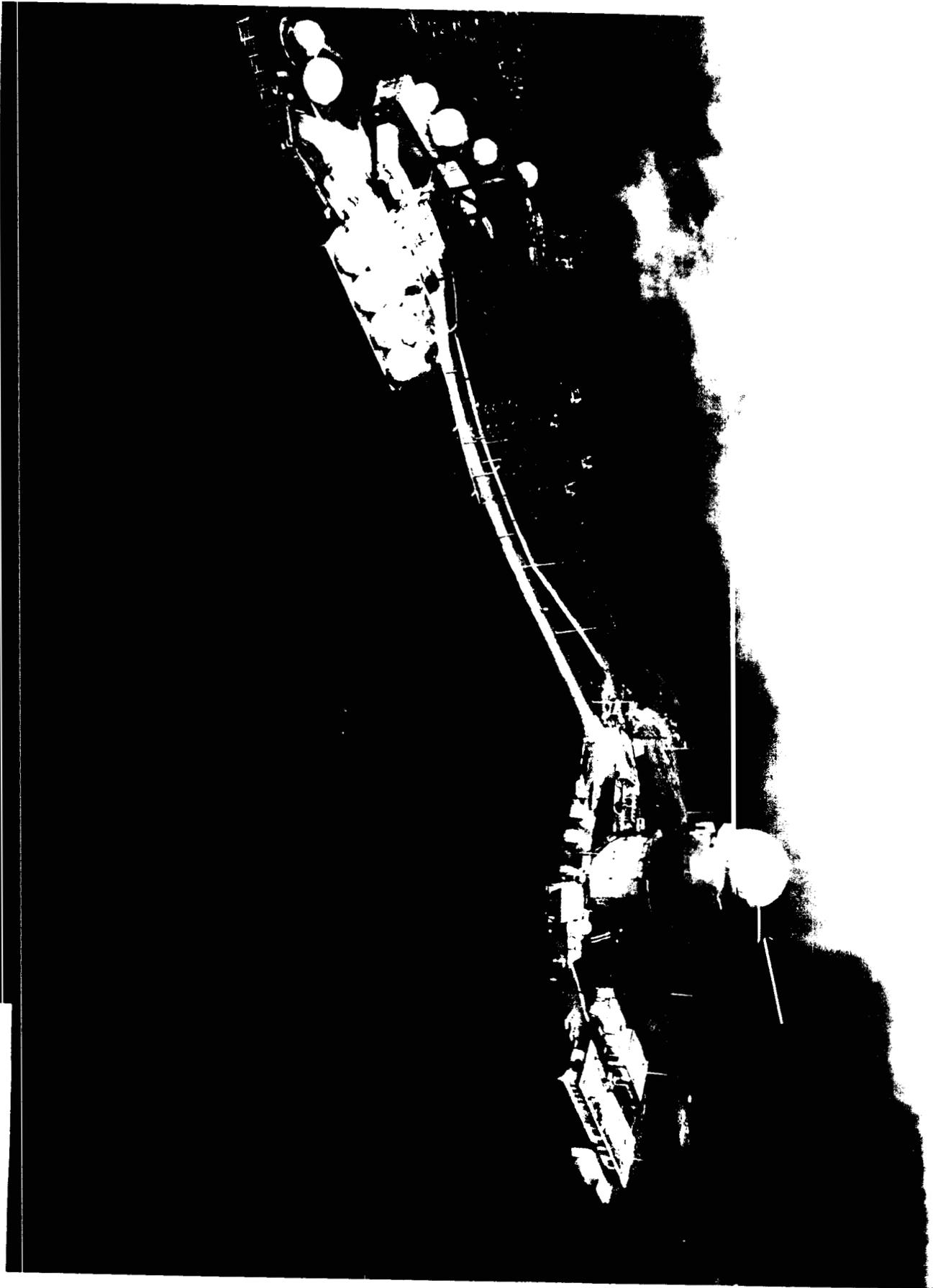
TAB B
UIC: 0017A

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

Refer to answer above.

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

FPS-67A, PICO DEL ESTE



Technical Center Site	Outer Range (AFWTF)
Facility/Equipment Nomenclature or Title	AN/SPS-48C Radar at Crown Mt., St. Thomas

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

Long range air and surface surveillance/tracking to provide positional data of all units participating in the tests or exercises within the operational areas in order to perform the command and control functions of the range in a safe environment.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 13 of this data call.

Moveable.

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

\$12M approx.

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

Gross weight = 7 Tons
Volume = 1,610 cu. ft.

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

3 phase, 440 V, 400 Hz electrical power

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

Distilled water system required for cooling. Special foundation required for the antenna pedestal.

7. State any environmental control requirements for the facility/equipment (i.e.,

temperature, humidity, air scrubbing).

Temperature - 72 degrees F

Relative Humidity - 50%

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 radar is a shipboard type system, not commercially available. The basic unit is designed for at-sea combat operations. Our system was specifically modified for the current AFWTF installation on a high mountain (Crown Mt.). A different installation scheme will have to be developed for a new site. Radar relocation would be a major effort. If the radar is lost the range capability to provide precision positional data will be degraded thus affecting the command and control functions of the range.

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

Transported by surface and installed in 1991.

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.

2.2 Guided missiles

3.2 Air

3.3 Surface

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

2080 EST hours per year. Unit of measure is the hour.

12. Provide the projected utilization data out to FY 1997.

2080 hours per year.

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

2 contractor personnel minimum.

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

2 contractor personnel minimum.

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



SP3-48C RADAR, ST. THOMAS

Technical Center Site	Outer Range (AFWTF)
Facility/Equipment Nomenclature or Title	AN/SPS-48C Radar at Pico del Este, Puerto Rico

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

Long range air and surface surveillance/tracking to provide positional data of all units participating in the tests or exercises within the operational areas in order to perform the command and control functions of the range in a safe environment.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 13 of this data call.

Moveable.

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

\$15M approx.

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

Gross weight = 7 Tons
Volume = 1,610 cu. ft.

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

3 phase, 440 V, 400 Hz electrical power. An emergency Uninterruptible Power Supply (UPS) system is used to provide reliable electrical power to ensure continuous operations support and avoid equipment damage.

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

Distilled water system required for cooling. Special foundation required for the antenna pedestal.

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

Temperature - 72 degrees F
Relative Humidity - 50%

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 radar is a shipboard type system, not commercially available. The basic unit is designed for at-sea combat operations. Our system was specifically modified for the current AFWTF installation on a high mountain (Pico del Este). A different installation scheme will have to be developed for a new site. Radar relocation would be a major effort. If the radar is lost the range capability to provide precision positional data will be degraded thus affecting the command and control functions of the range. This particular radar site offers the best line-of-sight to cover the operational areas for surface units. Other AFWTF radar sites do not have this capability.

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

Transported by surface and installed in 1992.

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

2.2 Guided missiles
3.2 Air
3.3 Surface

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

1600 EST hours per year. Unit of measure is the hour.

12. Provide the projected utilization data out to FY 1997.

2080 hours per year.

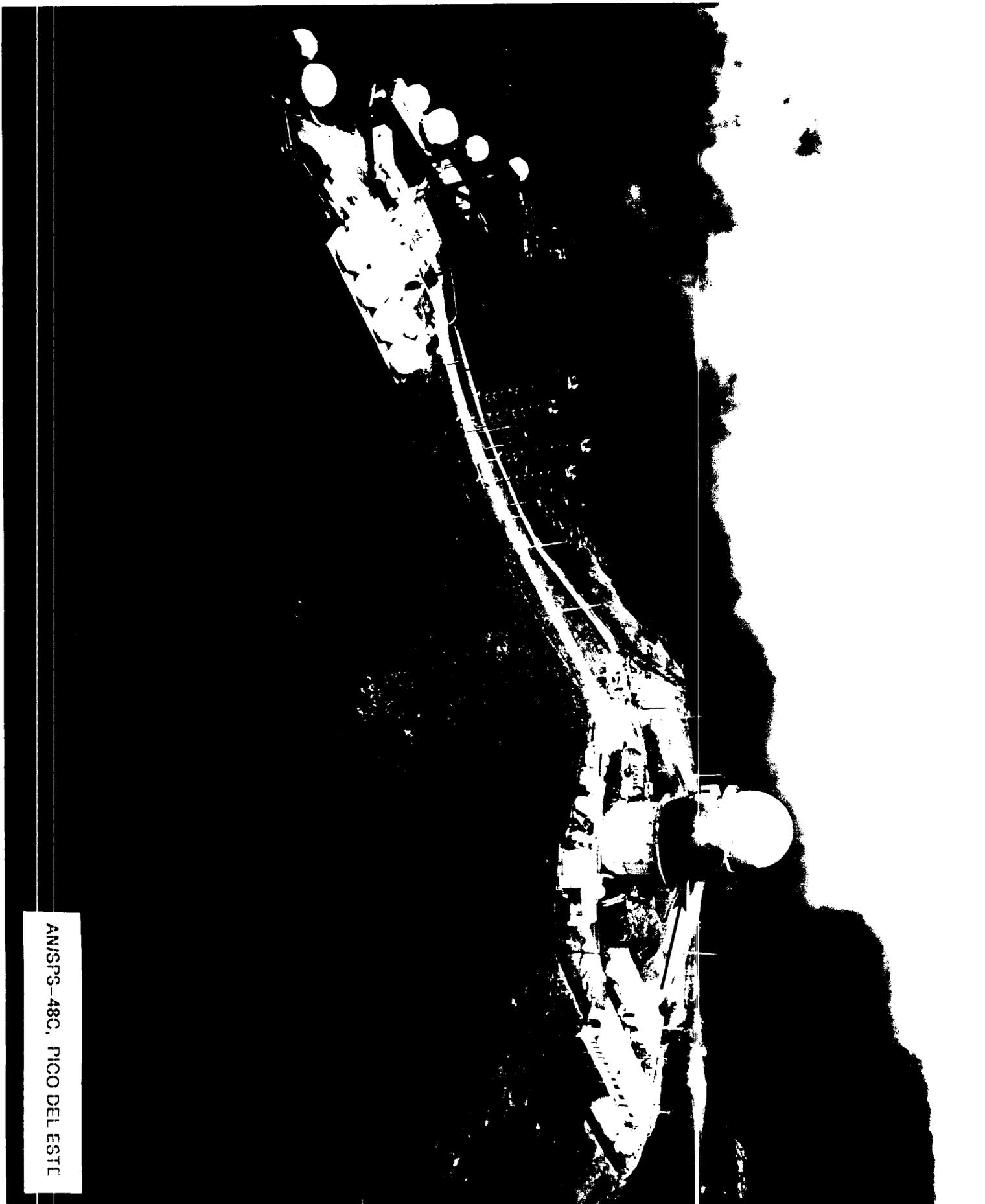
13. What is the approximate number of personnel used to operate the facility/equipment?

2 contractor personnel minimum.

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

2 contractor personnel minimum.

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



AN/SPS-480. PICO DEL ESTE

Technical Center Site	Outer Range (AFWTF)
Facility/Equipment Nomenclature or Title	AN/FOS-105(V) Compact All-Purpose Range Instrumentation Rada (CAPRI), at St. Thomas, U.S.V.I

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

"C" Band air/surface precision tracking and for aerial target control.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 13 of this data call.

Moveable.

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

\$5.0M

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

Weight = 3 Tons.

Volume = 1,200 cu. ft.

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

None.

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

Special foundation required for the antenna pedestal.

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

Temperature - 72 degrees F
Relative Humidity - 50%

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 radar can be relocated provided that the required facilities are constructed. The radar requires a boresight tower approximately 1,000 ft. away from the antenna for calibration purposes. This boresight tower installation requires more real-estate. If the radar is lost the range capability to provide precision positional data will be degraded thus affecting the command and control functions of the range.

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

Transported by surface and installed in 1978.

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.

2.2 Guided missiles
3.2 Air
3.3 Surface

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

298.5 hours per year. Unit of measure is the hour.

12. Provide the projected utilization data out to FY 1997.

300 hours per year.

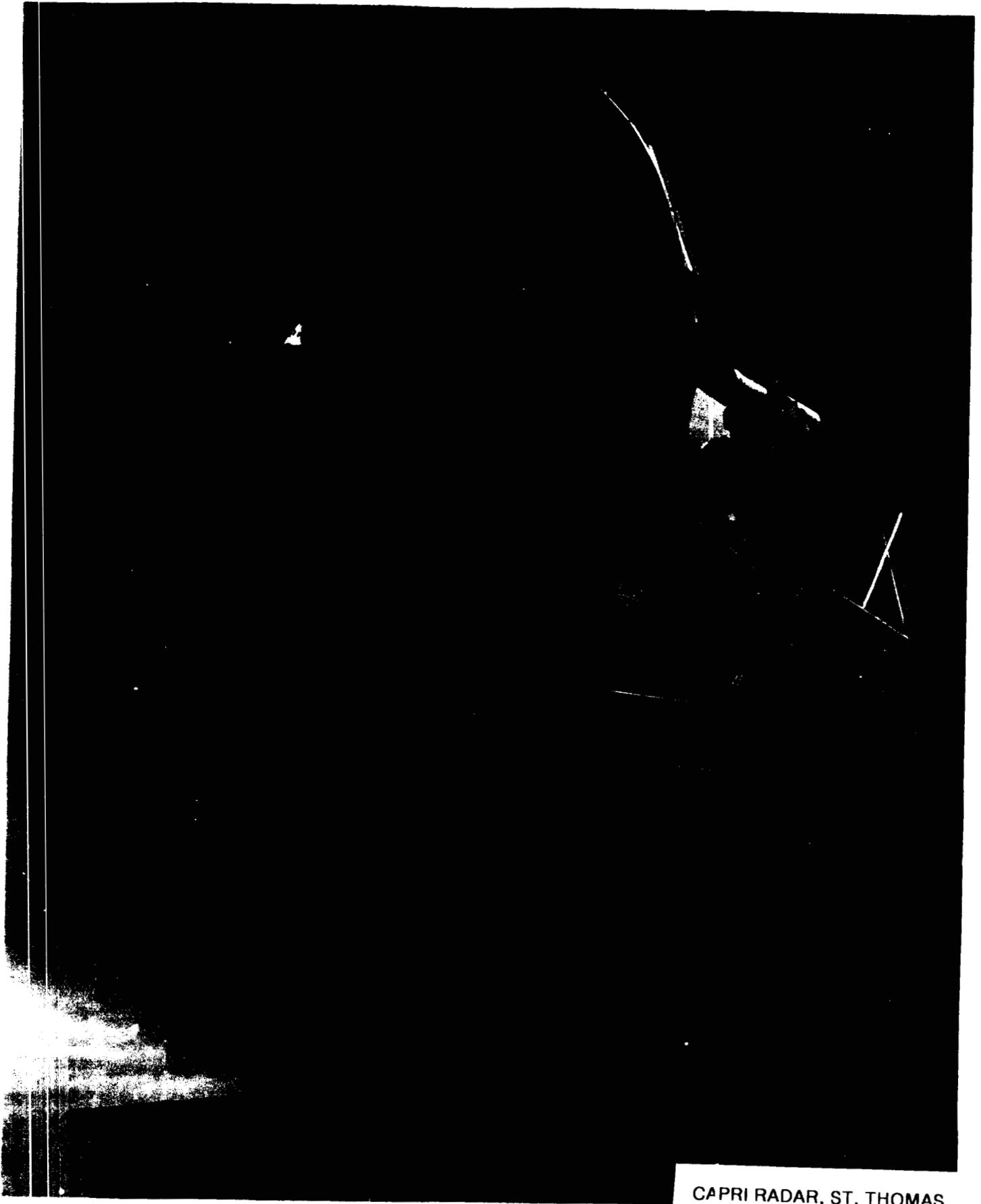
13. What is the approximate number of personnel used to operate the facility/equipment?

2 contractor personnel.

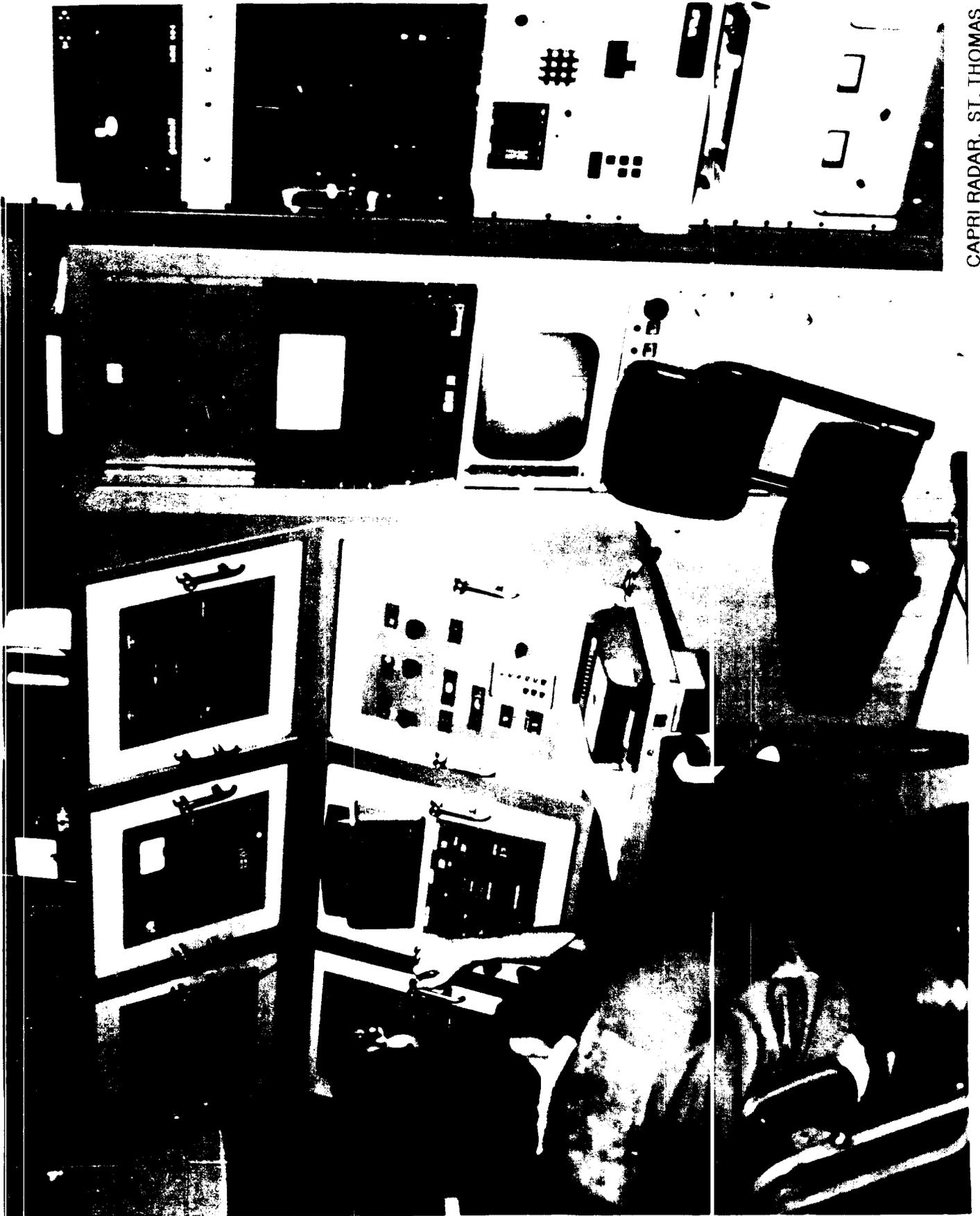
14. What is the approximate number of personnel needed to maintain the equipment?

2 contractor personnel.

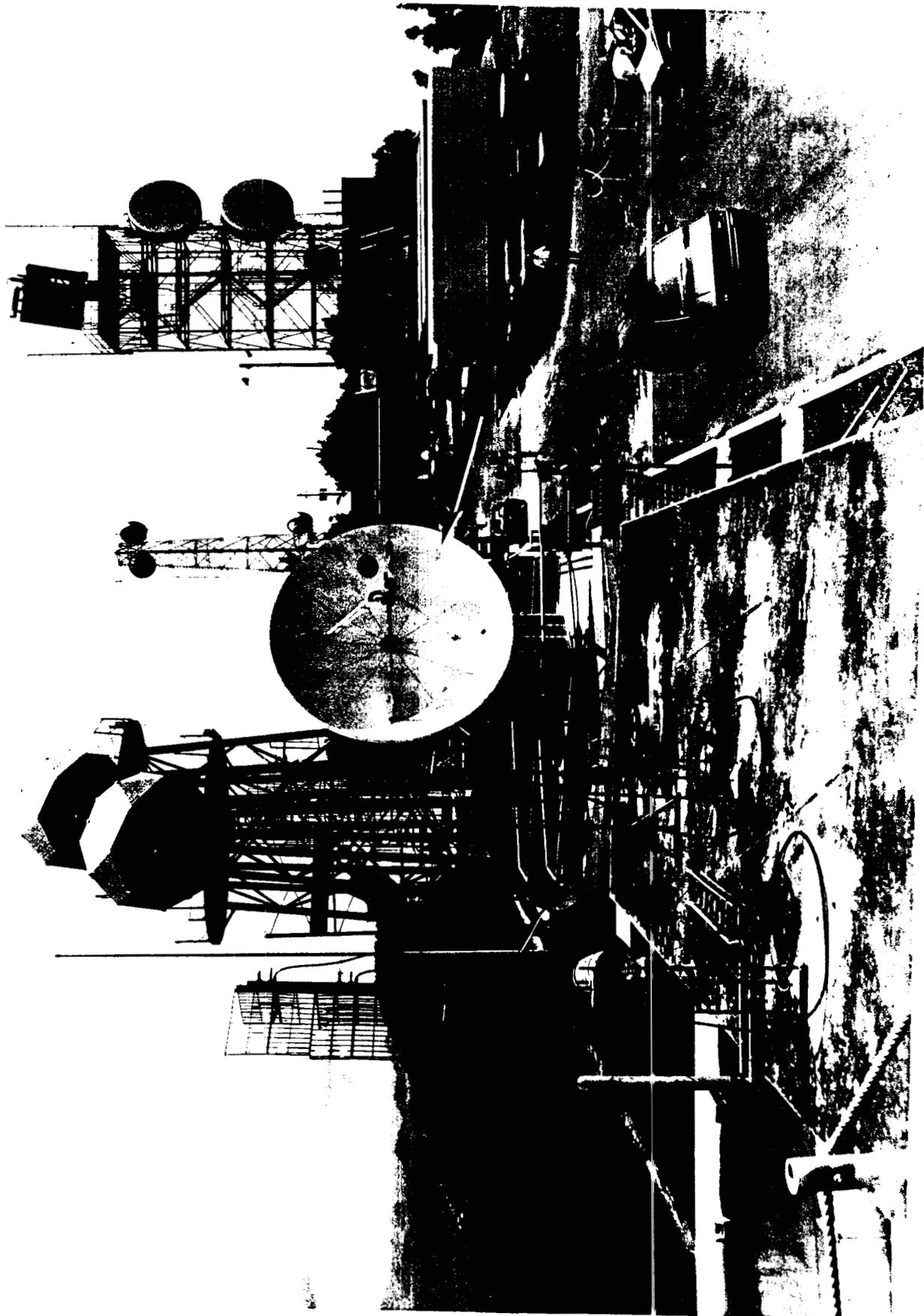
15. Provide one 8 1/2 x 11 black and white photo of the facility/equipment.



CAPRI RADAR, ST. THOMAS



CAPRI RADAR, ST. THOMAS



CAPRI RADAR, ST. THOMAS

Technical Center Site	Outer Range (AFWTF)
Facility/Equipment Nomenclature or Title	Nike Hercules tracking radar, Pico del Este, PR

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

"X" Band air/surface precision tracking and for aerial targets con rol.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 13 of this data call.

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.

\$3.0M

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

Weight = 2 Tons
Cube = 1,500 cu. ft.

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

400 Hz electrical power. Also, an emergency Uninterruptible Power Supply (UPS) system is used to provide reliable electrical power to ensure continuous operations support and avoid equipment damage.

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).

Temperature - 72 degrees F
Relative Humidity - 50%

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.

Although the radar antenna is installed using a fixed configuration, the entire system can be rearranged as a mobile unit. If the radar is lost the range capability to provide precision positional data will be degraded thus affecting the command and control functions of the range, in conjunction with the target control tasks. This particular radar site offers the best line-of-sight to cover the operational areas for surface units. Other AFWTF radar sites do not have this capability.

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

Transported by surface and installed in 1993.

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.

2.2 Guided missiles
3.2 Air
3.3 Surface

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

0 hours per year. Unit of measure is the hour.

12. Provide the projected utilization data out to FY 1997.

600 EST hours per year.

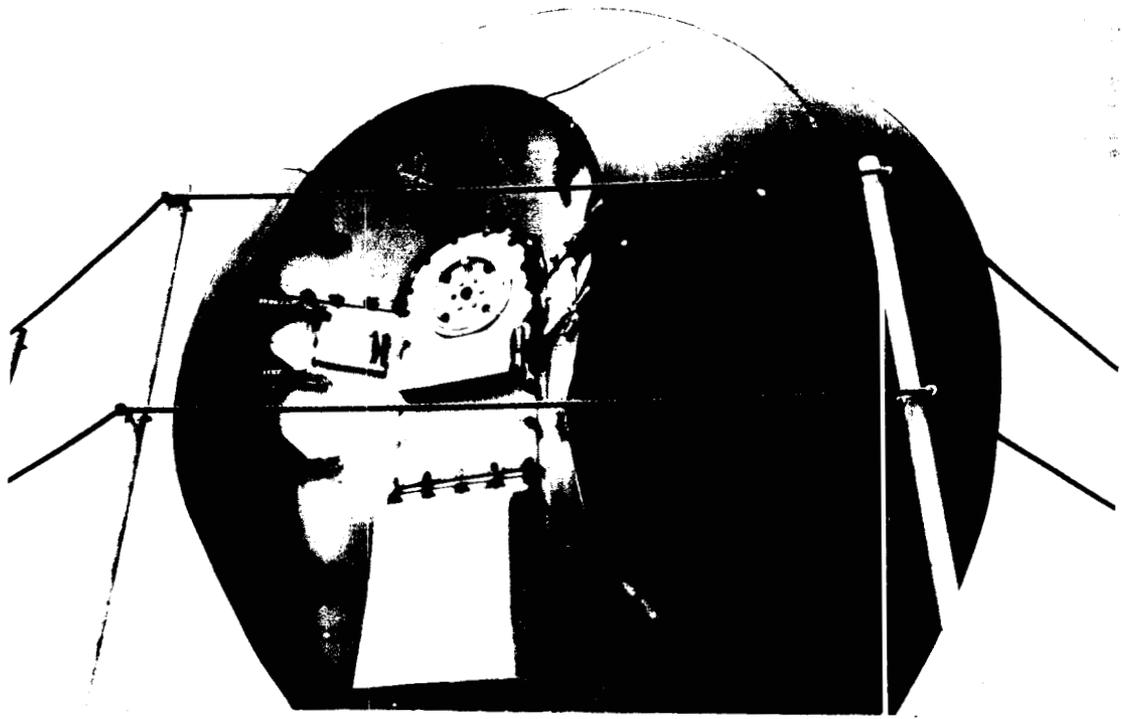
13. What is the approximate number of personnel used to operate the facility/equipment?

2 contractor personnel.

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

2 contractor personnel.

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



NIKE HERC AT PICO DEL ESTE:

Technical Center Site	Outer Range (AFWTF)
Facility/Equipment Nomenclature or Title	Nike Hercules tracking radar, Crown Mt., St Thomas USVI

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

"X" Band air/surface precision tracking and for aerial targets control.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 13 of this data call.

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.

\$3.0M

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

Weight = 2 Tons
Cube = 1,500 cu. ft.

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

400 Hz electrical power.

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).

Temperature - 72 degrees F
Relative Humidity - 50%

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.

Although the radar antenna is installed using a fixed configuration, the entire system can be rearranged as a mobile unit. If the radar is lost the range capability to provide precision positional data will be degraded thus affecting the command and control functions of the range.

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

Transported by surface and installed in 1970.

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.

2.2 Guided missiles

3.2 Air

3.3 Surface

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

583.5 hours per year. Unit of measure is the hour.

12. Provide the projected utilization data out to FY 1997.

550 hours per year.

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

2 contractor personnel.

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

2 contractor personnel.

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

NIKE-HERCULES RADARS, ST. THOMAS



Technical Center Site	Underwater Tracking Range (AFWTF)
Facility/Equipment Nomenclature or Title	Data Gathering and Processing System (DGPS)

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

The DGPS is a state-of-the-art computer system in a local area network (LAN) configuration for the purpose of receiving positional data from range sensors (acoustic tracking system and radars) for processing and displaying on control consoles and large display systems. This information is then used to exercise the command and control functions of the range in a safe environment. The data is recorded for analysis, exercise reconstruction, and playback.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 13 of this data call.

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.

\$10M

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

Gross weight = 8 Tons
Volume = 600 cu. ft.

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

An emergency Uninterruptible Power Supply (UPS) system is used to provide reliable electrical power to ensure continuous operations support and avoid equipment damage.

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).

Temperature - 72 degrees F

Relative Humidity - 50%

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 can be relocated to another site for utilization in the same or similar application. The software system would require modifications or a new high-cost development effort will have to be pursued. Evidently, the relocation of the DGPS will represent the closure of the AFWTF Underwater Tracking Range and all the antisubmarine warfare (ASW) support that is provided for fleet training and weapons testing will be completely lost. Similar operations are carried out in the AUTEK range in the Bahamas; however, the Underwater Tracking Range can present open ocean, real-world operational/testing scenarios with the potential for expansion with existing radars coverage for satisfying future requirements.

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

The DGPS components were delivered by surface transportation and installed in 1993.

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.

2.4 Torpedoes

3.1 Subsurface

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

520 hours per year. Unit of measure is the hour.

12. Provide the projected utilization data out to FY 1997.

500 hours per year.

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

10 contractor personnel

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

5 contractor personnel

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

Technical Center Site	Underwater Tracking Range (AFWTF)
Facility/Equipment Nomenclature or Title	AN/FPS-16(V) Range Instrumentation Rador (CAPRI Type) at St. Croix, U.S.V.I.

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

"C" Band air/surface precision tracking and for aerial target control.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 13 of this data call.

Moveable.

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

\$5.0M

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

Weight = 3 Tons.

Antenna = 20 ft. x 8 ft x 5 ft. (800 cu. ft.)

Van = 8 ft. x 8 ft. x 10 ft. (640 cu. ft.)

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

An emergency Uninterruptible Power Supply (UPS) system is used to provide reliable electrical power to ensure continuous operations support and avoid equipment damage.

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

Special foundation required for the antenna pedestal.

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

Temperature - 72 degrees F
Relative Humidity - 50%

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 radar can be relocated provided that the required facilities are constructed. The radar requires a boresight tower approximately 1,000 ft. away from the antenna for calibration purposes. This boresight tower installation requires more real-estate. If the radar is lost the range capability to provide precision positional data will be degraded thus affecting the command and control functions of the range.

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

Transported by surface and installed in 1983.

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.

- 2.2 Guided missiles
- 3.2 Air
- 3.3 Surface

11. Provide the historical utilization for the past five fiscal years (1992 - 1996). Define the unit of measure used.

1498 hours per year. Unit of measure is the hour.

12. Provide the projected utilization data out to FY 1997.

1400 hours per year.

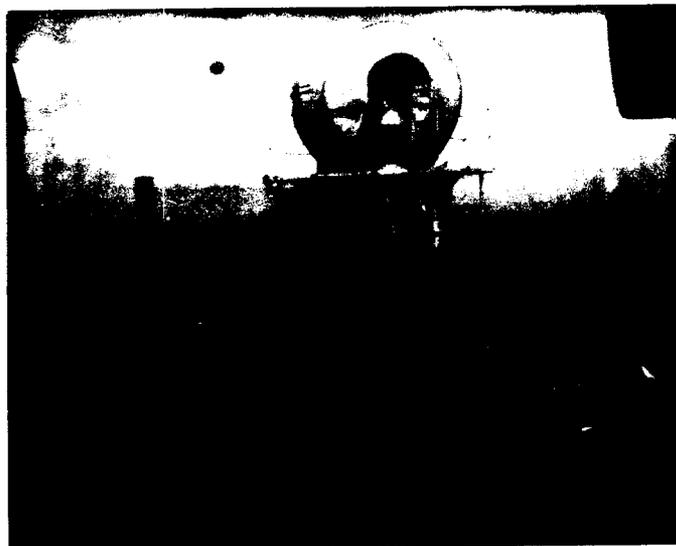
13. What is the approximate number of personnel used to operate the facility/equipment?

2 contractor personnel.

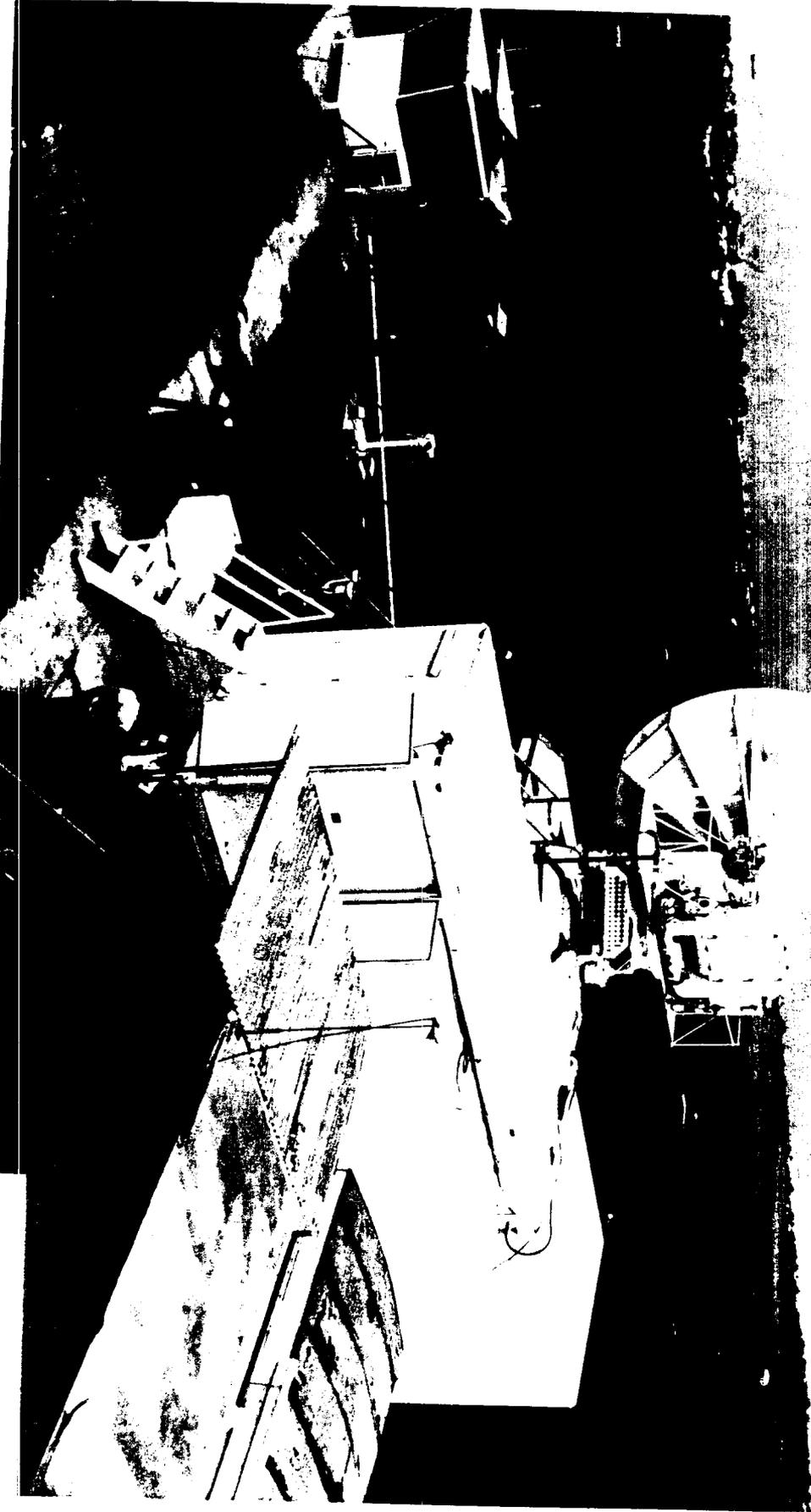
14. What is the approximate number of personnel needed to maintain the equipment?

2 contractor personnel.

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



NIKE HERC AT CROWN MT. ST. THOMAS



CAPRI RADAR, ST. CROIX

Technical Center Site	Underwater Tacking Range (AFWTF)
Facility/Equipment Nomenclature or Title	Nike Hercules tracking radar, Crown Mt., St Thomas, U.S.V.I (Second radar system)

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

"X" Band air/surface precision tracking and for aerial targets con rol.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 13 of this data call.

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.

\$3.0M

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

Weight = 2 Tons
 Cube = 1,500 cu. ft.

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

400 Hz electrical power.

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).

Temperature - 72 degrees F
Relative Humidity - 50%

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.

Although the radar antenna is installed using a fixed configuration, the entire system can be rearranged as a mobile unit. If the radar is lost the range capability to provide precision positional data will be degraded thus affecting the command and control functions of the range.

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

Transported by surface and installed in 1993.

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.

2.2 Guided missiles

3.2 Air

3.3 Surface

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

583.5 hours per year. Unit of measure is the hour.

12. Provide the projected utilization data out to FY 1997.

550 hours per year.

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

2 contractor personnel.

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

2 contractor personnel.

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

WISS CONTROL STATION
INNER RANGE, VIEQUES



Technical Center Site	Inner Range (AFWTF)
Facility/Equipment Nomenclature or Title	Weapons Impact Scoring System (WISS)

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

The WISS is a precision closed TV system used for the scoring of inert bombs dropped from aircraft to two bull's eye land targets located at the eastern part of Vieques Island, P.R.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 13 of this data call.

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.

\$900K

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

Gross weight = 350 lbs

Volume = 6 ft. x 8 ft. x 3 ft. = 144 cu. ft.

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

None.

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

Cameras should be mounted in bunkers for protection against erroneously delivered weapons and from the weather.

7. State any environmental control requirements for the facility/equipment (i.e.,

temperature, humidity, air scrubbing).

Temperature - 72 degrees F

Relative Humidity - 50%

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 WISS relocation to another site depends on the available real estate to accommodate the system components, the environmental regulations of the area, and the proximity to surrounding communities. Sufficient real-estate is required to locate/ install the cameras a few miles away from the target area without obstructions. Also, during operations the noise from aircraft turbines may become highly annoying to nearby populations. This situation could become worse if the atmospheric conditions create sound channels for increased noise propagation.

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

The equipment was delivered by surface transportation to the site and installed in 1986.

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.

2.3 Free fall weapons

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

1574.8 bomb runs per year. Unit of measure is bomb runs.

12. Provide the projected utilization data out to FY 1997.

1800 bomb runs per year.

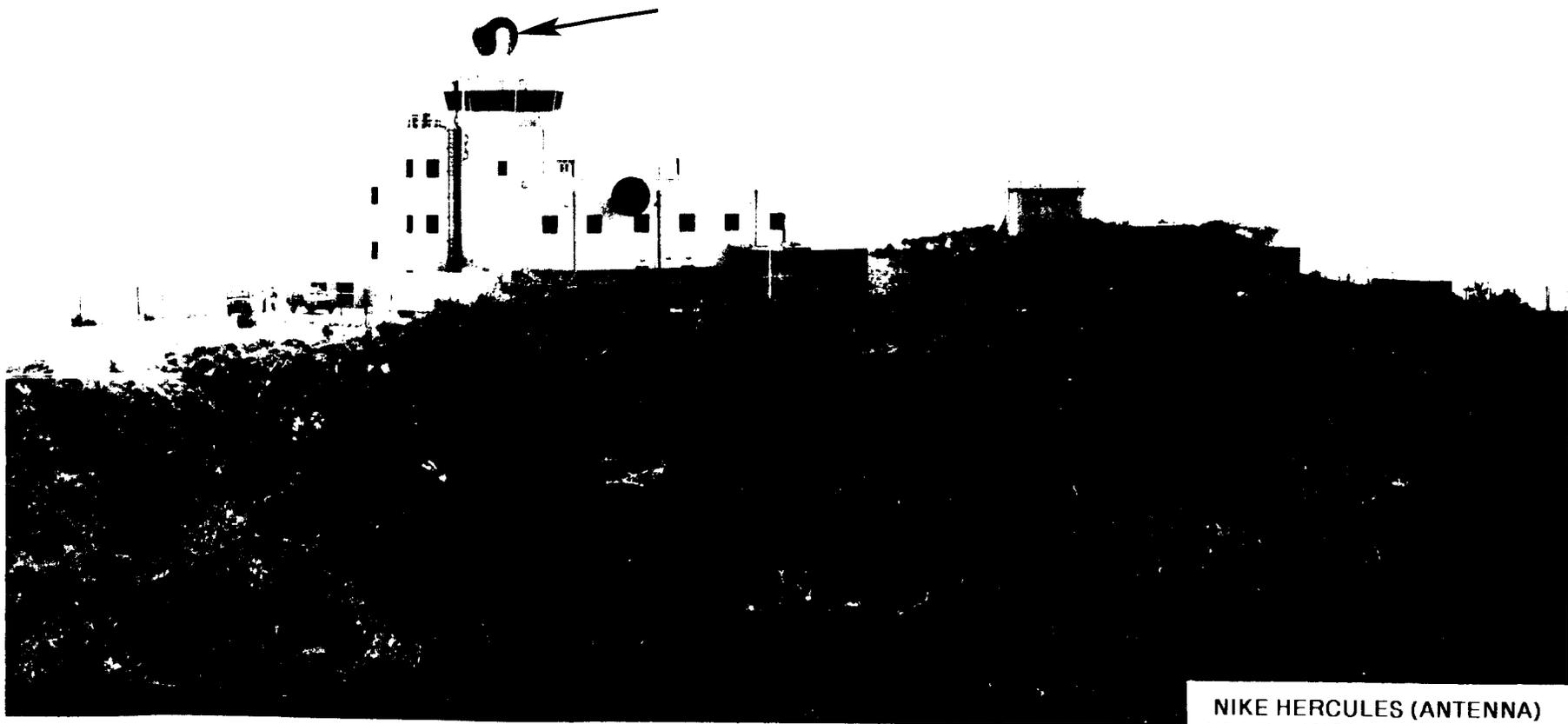
13. What is the approximate number of personnel used to operate the facility/equipment?

2 contractor personnel which are also used for maintenance.

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

Refer to answer above.

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



NIKE HERCULES (ANTENNA)
INNER RANGE, CERRO MATIAS

Technical Center Site	Inner Range (AFWTF)
Facility/Equipment Nomenclature or Title	Nike Hercules Tracking radar, Vieques Island, PR

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

"X" Band air/surface precision tracking, for mining exercises, and for naval gunfire support.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 13 of this data call.

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.

\$3.0M

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

Weight = 2 Tons
Cube = 1,500 cu. ft. (van)

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

400 Hz electrical power.

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).

Temperature - 72 degrees F
Relative Humidity - 50%

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.

Although the radar antenna is installed using a fixed configuration, the entire system can be rearranged as a mobile unit. If the radar is lost the range capability to provide precision positional data and to exercise the safety functions will be degraded thus affecting the command and control functions of the range. This includes the utilization of the radar for mining exercises and to provide the minimum gun-target line during Naval Gunfire Support exercises for safety reasons.

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

Transported by surface and installed in 1974.

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.

2.2 Guided missiles

3.2 Air

3.3 Surface

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

745 hours per year. Unit of measure is the hour.

12. Provide the projected utilization data out to FY 1997.

550 hours per year.

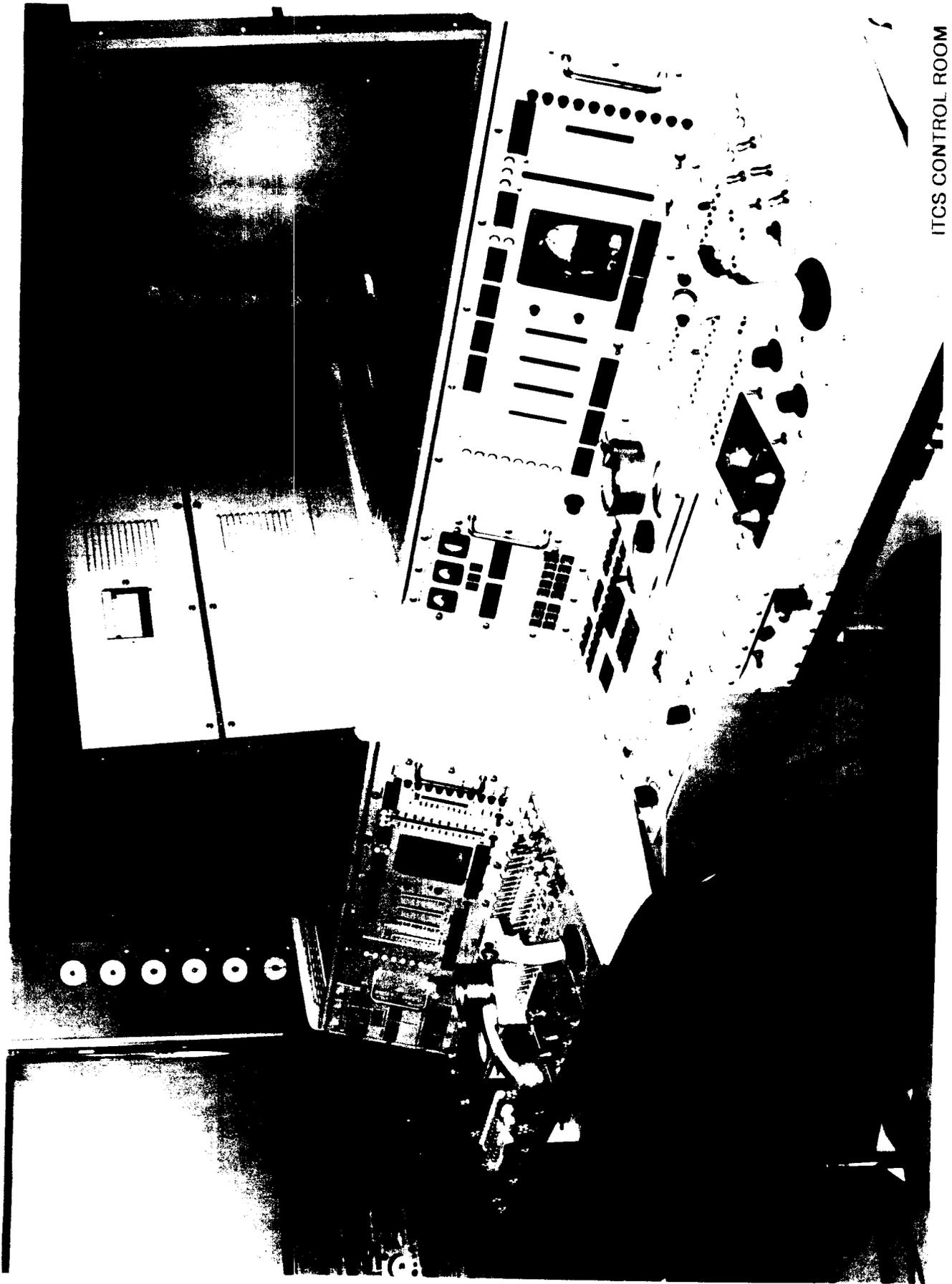
13. What is the approximate number of personnel used to operate the facility/equipment?

2 contractor personnel.

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

2 contractor personnel.

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



ITCS CONTROL ROOM

Technical Center Site	Outer Range (AFWTF)
Facility/Equipment Nomenclature or Title	Integrated Target Control System (ITCS)

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

The ITCS provides remote control of aerial and surface targets within the range operational areas. Aerial targets can be supersonic or subsonic and full scale or subscale.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 13 of this data call.

Moveable.

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

\$40M

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

Gross weight = 10 Tons
Volume = 20,000 cu. ft.

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

None.

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

None.

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

Temperature = 72 Degrees F
Relative Humidity = 50%

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 ITCS is composed of six AN/TSW-10 trackers; four installed on a building at Pico del Este radar site, two trackers installed on towers at Crown Mt., St. Thomas, and the control system installed in the AFWTF Range Operations Center at Roosevelt Roads. The trackers are installed in a staggered configuration to avoid interference. Similar ITCS systems are available at other military installations. Some specific software development for the AFWTF application was required. The ITCS is not commercially available.

The ITCS is highly essential for the fulfillment of the AFWTF mission. Several operations in the Outer Range involve the presentation of simultaneous aerial targets to simulate multiple-missile attack from different angles/locations to fleet ships and aircraft. The rest of the operations may only involve the single presentation of a target. Whichever the case may be, without these capabilities the AFWTF Outer range will not be able to operate and satisfy established air-to-air and surface-to-air testing and training requirements, particularly those of modern fleet ships which need to perform as a combat weapon system.

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

The equipment was delivered by surface transportation, two trackers installed in 1976 and upgraded in 1986 with the addition of four trackers.

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.

- 2.2 Guided missiles
- 3.2 Air
- 3.3 Surface

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

427 hours per year. Unit of measure is the hour.

12. Provide the projected utilization data out to FY 1997.

400 hours per year..

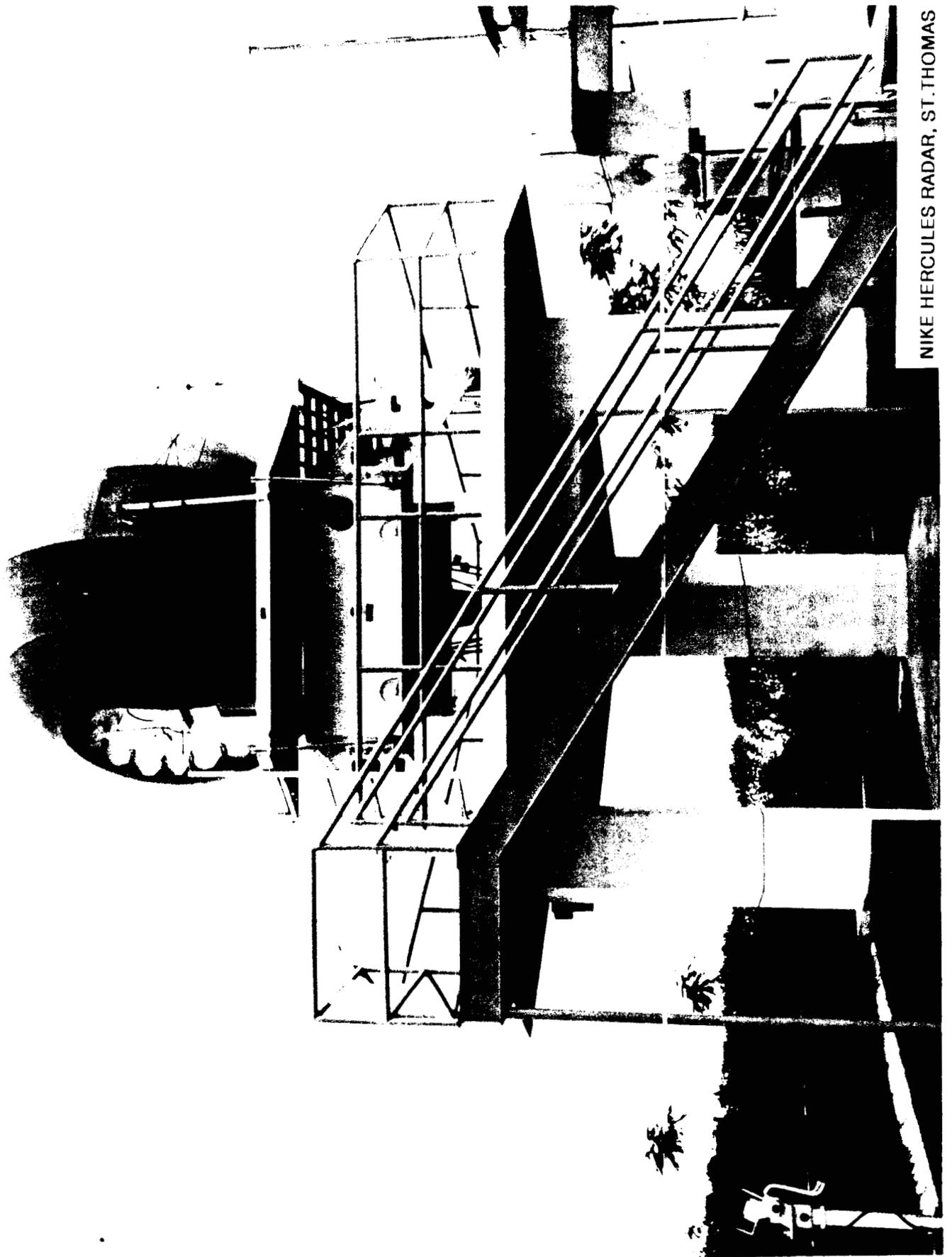
13. What is the approximate number of personnel used to operate the facility/equipment?

12 contractor personnel for full system operations which are also used for maintenance.

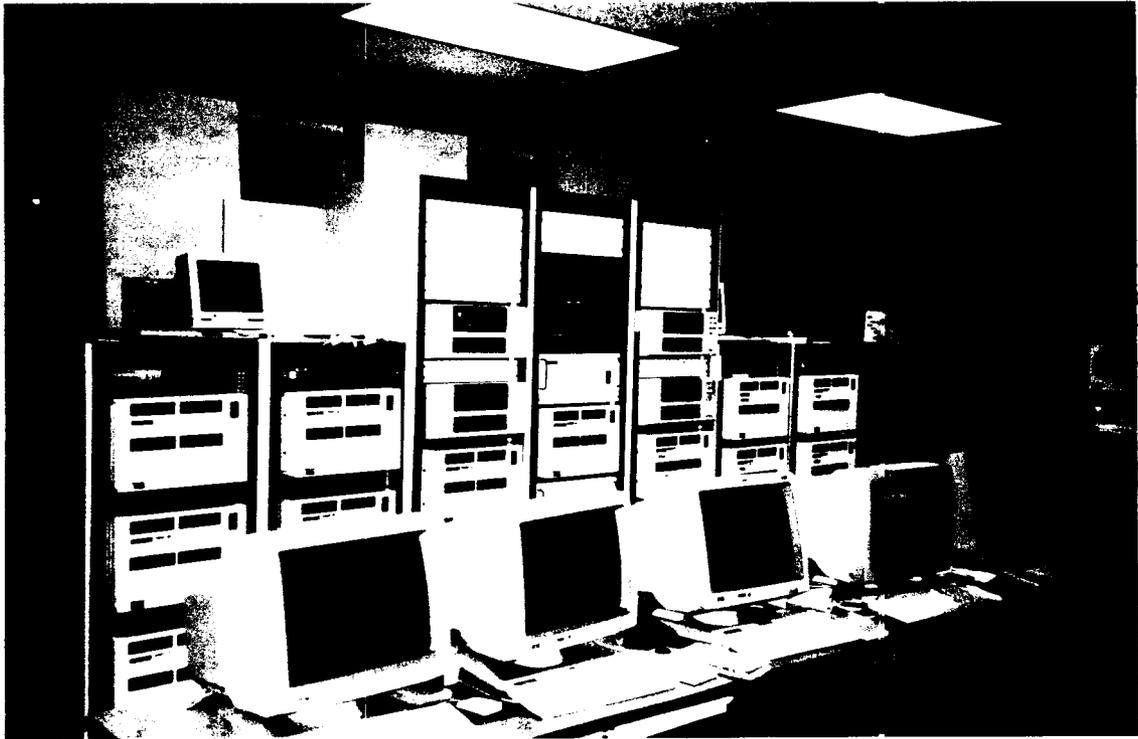
14. What is the approximate number of personnel needed to maintain the equipment?

Refer to answer above.

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



NIKE HERCULES RADAR, ST. THOMAS



DGPS SYSTEM AT UTR ROC ST CROIX

Technical Center Site	Underwater Tracking Range (AFWTF)
Facility/Equipment Nomenclature or Title	Long-Baseline Hydrophone Array System

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

The hydrophone array system provides acoustic tracking data to the Underwater Tracking Range Control Center of all instrumented subsurface and surface vessels participating in the exercise or test within the 400 square nautical miles of operational area. The system utilizes 46 hydrophone arrays to cover the operational area.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 13 of this data call.

Fixed. The recovery of underwater-installed hydrophone arrays is not considered cost effective. The water depths involved will require special vessels for the extensive recovery effort.

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.

\$60M

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

Gross weight = 53 Tons
Volume = 16,000 cu. ft.

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

Lightning arrestors.

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

Special recovery vessels which are not readily available are required to perform repairs. Also, underwater structures are made of titanium.

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

The sea cables must be "anodized" to prevent electrolysis.

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/equipment will be almost impossible to relocate due to the open-ocean area used which is covered by presidential order and the available real-estate to install the underwater cables through trenches to the shore-end junction box for connecting them to the receivers and acoustic signal processors. The loss of the hydrophone array system will represent the closure of the AFWTF Underwater Tracking Range and all the antisubmarine warfare (ASW) support that is provided for fleet training and weapons testing. Similar operations are carried out in the AUTEK range in the Bahamas; however, the Underwater Tracking Range can present open ocean, real-world operational/testing scenarios with the potential for expansion with existing radars coverage for satisfying future requirements.

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

The hydrophones with the associated structures and cables were installed by special handling surface vessels as follows:

6 hydrophones in 1976
24 hydrophones in 1980
16 hydrophones in 1986

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.

2.4 Torpedoes
3.1 Subsurface

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

2500 hours per year. Unit of measure is the hour.

12. Provide the projected utilization data out to FY 1997.

2600 hours per year.

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

1 contractor personnel

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

2 contractor personnel

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

Technical Center Site	Underwater Tracking Range (AFWTF)
Facility/Equipment Nomenclature or Title	Surface Ship Radiated Noise Measurements (SSRNM)

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

Measure the acoustic signatures of a surface vessel for analysis to determine the course of action necessary for noise reduction.

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

Fixed (Based on the underwater structure).

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.

\$4.0M

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

Gross weight = 2 Tons

Volume = 1,100 cu. ft.

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

Lightning arrestors.

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

Special recovery vessels which are not readily available are required to perform repairs to the underwater hydrophone structures. Also, underwater structures are made of titanium.

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

The sea cable must be "anodized" to prevent electrolysis.

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.

A similar system is established in the AUTEK facilities in the Bahamas. The relocation of the SSRNM would be a major effort for the underwater array structure. The SSRNM is a specially designed system and is not commercially available.

If the SSRNM is lost the required measurements of the acoustic signatures of the fleet surface vessel for analysis will not be performed at AFWTF.

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

Transported by surface means and installed in 1984.

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.

3.3 Surface

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

309.6 hours per year. Unit of measure is the hour.

12. Provide the projected utilization data out to FY 1997.

200 hours per year.

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

2 contractor personnel which are also used for shore electronics maintenance.

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

Refer to above answer.

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

Technical Center Site	Electronic Warfare Range (AFWTF)
Facility/Equipment Nomenclature or Title	Threat Platform Simulators (TPSs)

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

The basic AN/ULQ-13 TPS system simulates a realistic electromagnetic environment for the development, testing, and evaluation of fleet electronic warfare systems and for the training of the Fleet for their readiness in EW warfare. Five simultaneous anti-ship missile radar signals at realistic radiated power levels can be provided in the E,F,H,J, and I frequency bands. There is a total of three TPSs. Only two of the TPSs have the capability to provide simulations in the J-Band.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 13 of this data call.

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.

\$30M for the three TPSs.

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

Gross weight = 5 Tons per TPS (Total of 15 Tons)

Volume = 1,280 cu. ft. per TPS (Total of 3,840 cu. ft.)

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

None. The TPSs are self-contained except for the electrical power source.

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

12 ft. x 20 ft. leveled concrete pad

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 system is transportable and can very easily be relocated to another site provided that the leveled concrete pad is available and the power substation has the capacity to support the instrumentation van electrical load or a dedicated mobile power generator is provided. The instrumentation is a one-of-a-kind system which was specifically designed and fabricated for the particular EW range application. There are no commercially available substitutes.

The system is part of the Electronic Warfare Range which, in conjunction with other assets, provides a realistically simulated electromagnetic environment. Sufficient real-estate is required to distribute the instrumentation vans throughout the range complex for the required operational area coverage with realistic multi-axis threat presentations. The loss of the systems from AFWTF assets will degrade the Electronic Warfare capabilities for providing a real-world electromagnetic environment for weapons testing and fleet training as modern EW processing units are introduced in the Fleet.

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

The TPSs were delivered by surface transportation and installed in 1974 (one system) and in 1975 (two systems).

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.

8.3 Electronic Warfare (EW) systems

11. Provide the historical utilization for the past five fiscal years (1987 - 1993). Define the unit of measure used.

1131.26 hours per year. Unit of measure is the hour.

12. Provide the projected utilization data out to FY 1997.

650 hours per year.

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

8 contractor personnel (2 per TPS) which are also used for maintenance.

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

Refer to answer above.

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

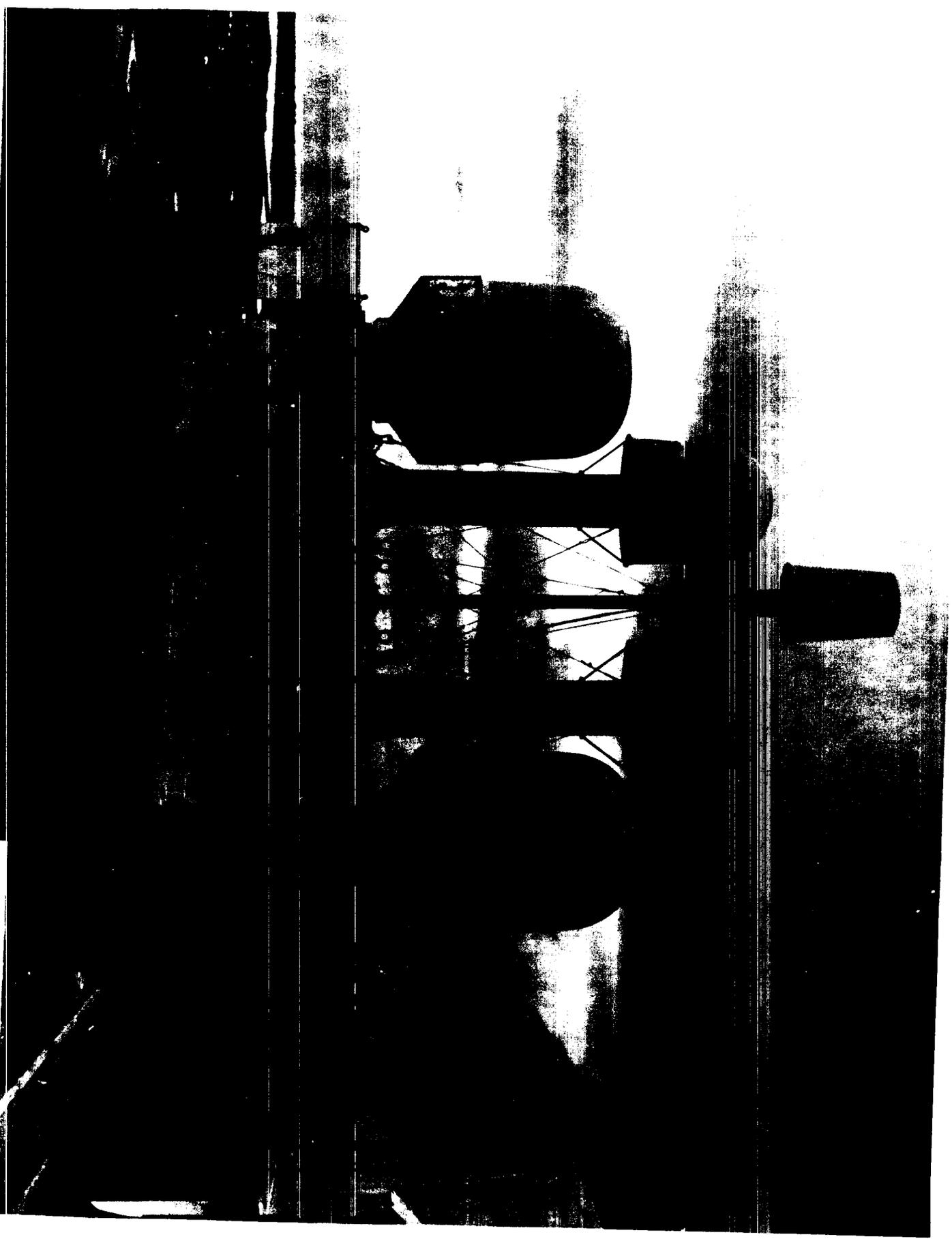


LONG EASELINE-HYDROPHONE
ARRAY SYSTEM (UTR)



SSRNM
UNDERWATER TRACKING RANGE

THREAT PLATFORM SIMULATOR (TPS)
ST. GEORGE HILL, ST. CROIX USVI



Technical Center Site	Electronic Warfare Range (AFWTF)
Facility/Equipment Nomenclature or Title	Threat Radar Simulator (TRS), Pico del Este

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

The TRS system simulates a realistic electromagnetic environment for the development, testing, and evaluation of fleet electronic warfare systems and for the training of the Fleet for their readiness in EW warfare. Forty-eight simultaneous threat missiles and acquisition radar signals at realistic radiated power levels can be provided in the E,F,H, and I frequency bands.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 13 of this data call.

Moveable. The system was integrated in the AFWTF complex in a five-trailer configuration. The antennas required a major effort for installation on the concrete pad. However, the TRS can be set in a transportable configuration but requires several days of preparation.

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.

\$30M

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

Gross weight = 7 Tons
Volume = 20,000 cu. ft. (van complex)

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

None. The unit is self-contained except for the electrical power source.

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

60 ft. by 60 ft. leveled concrete pad with special foundations for the antenna pedestals installation.

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

None. The system is self-contained.

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 system can be set in a transportable configuration for relocation to another site provided that the leveled concrete pad is available and the power substation has the capacity to support the instrumentation trailer's electrical load. The TRS is a one-of-a-kind system which was specifically designed and fabricated for the particular EW range application. There are no commercially available substitutes.

The TRS is part of the Range EW System (REWS) of the AFWTF Electronic Warfare Range which, in conjunction with other assets, provides a realistically simulated electromagnetic environment for development, testing, and evaluation of fleet electronic warfare systems and for the training of the Fleet for their readiness in EW warfare. The loss of the system from the AFWTF assets will degrade the Electronic Warfare capabilities for providing a real-world electromagnetic environment for weapons testing and fleet training as modern EW processing units are introduced in the Fleet.

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

The TRS was delivered by surface transportation and installed in 1992.

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

8.3 Electronic Warfare (EW) systems

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

531.35 hours per year. Unit of measure is the hour.

12. Provide the projected utilization data out to FY 1997.

450 hours per year.

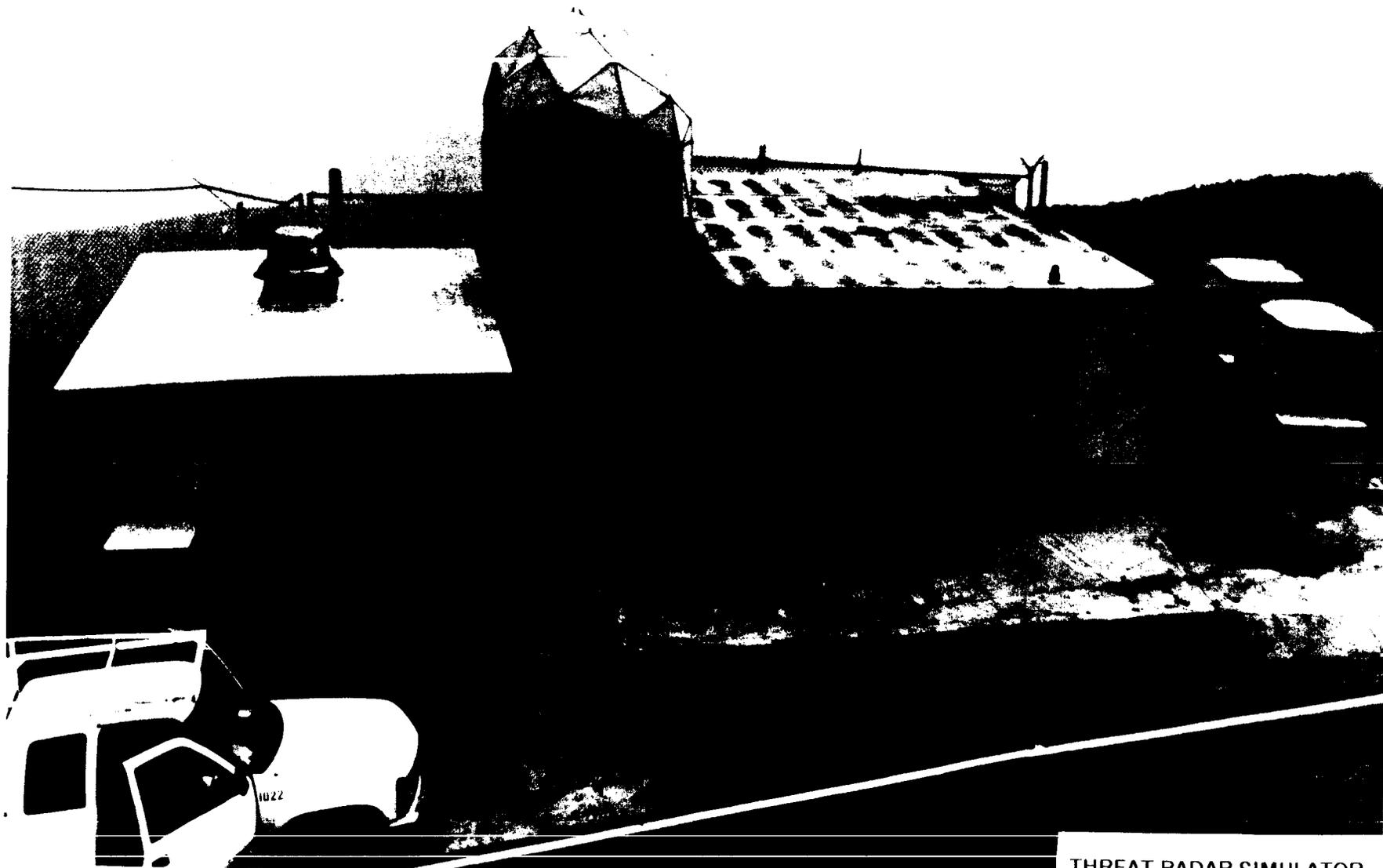
13. What is the approximate number of personnel used to operate the facility/equipment?

3 contractor personnel which are also used for maintenance.

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

Refer to previous answer.

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



THREAT RADAR SIMULATOR

Technical Center Site	Electronic Warfare Range (AFWTF)
Facility/Equipment Nomenclature or Title	EW Noise Jammer Simulator (NJS)

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

The NJS is a generic radiating system for simulating threat-noise jammers which can be used against the shipboard radars within the Fleet assets. This capability complements the AFWTF EW Range to provide a realistically simulated electromagnetic environment for the development, testing, and evaluation of fleet electronic warfare systems and for the training of the Fleet for their readiness in EW warfare.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 13 of this data call.

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.

\$20M

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

Gross weight = 6 Tons
Volume = 4,000 cu. ft.

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

None. The unit is self-contained except for the electrical power source.

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

14 ft. x 25 ft. leveled concrete pad.

7. State any environmental control requirements for the facility/equipment (i.e.,

temperature, humidity, air scrubbing).

None. The system is self-contained.

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 system can be relocated to another site provided that the leveled concrete pad is available and the power substation has the capacity to support the instrumentation van electrical load. The NJS is a one-of-a-kind system which was specifically designed and fabricated for the particular EW range application. AFWTF has one of the only two systems in the U.S. There are no commercially available substitutes.

The NJS is part of the Range EW System (REWS) of the AFWTF's Electronic Warfare Range which, in conjunction with other assets, provides a realistically simulated electromagnetic environment.

The loss of the system from the AFWTF assets will degrade the Electronic Warfare capabilities for providing a real-world threat-noise jamming environment for fleet training.

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

The NJS was delivered by surface transportation and installed in 1984.

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.

8.3 Electronic Warfare (EW) systems

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

167.3 hours per year. Unit of measure is the hour.

12. Provide the projected utilization data out to FY 1997.

400 hours per year.

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

2 contractor personnel which are also used for maintenance.

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

Refer to previous answer.

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



NOISE JAMMER SIMULATOR

Technical Center Site	Electronic Warfare Range (AFWTF)
Facility/Equipment Nomenclature or Title	Frequency Control and Analysis (FCA) System

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

The FCA System is designed to provide an electromagnetic (EM) compatible environment within the AFWTF range complex by detecting and identifying all EMI sources causing interference. In addition, it supports sub-area frequency coordination and other collateral functions. The equipment is distributed in two buildings and in a mobile unit.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 13 of this data call.

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.

\$2.5M

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

Gross weight = 4 Tons
Volume = 1,400 cu. ft.

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

None.

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

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 system can be relocated to a new range; however, space in two permanent facilities will be required for the basic stations for proper system operation. A small truck was modified in order to have the mobile unit. Commercially available equipment is being used.

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

The equipment was delivered by surface transportation and installed in 1993.

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.

10.9 Activity mission and function support

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

2080 hours per year. Unit of measure is the hour.

12. Provide the projected utilization data out to FY 1997.

2080 hours per year.

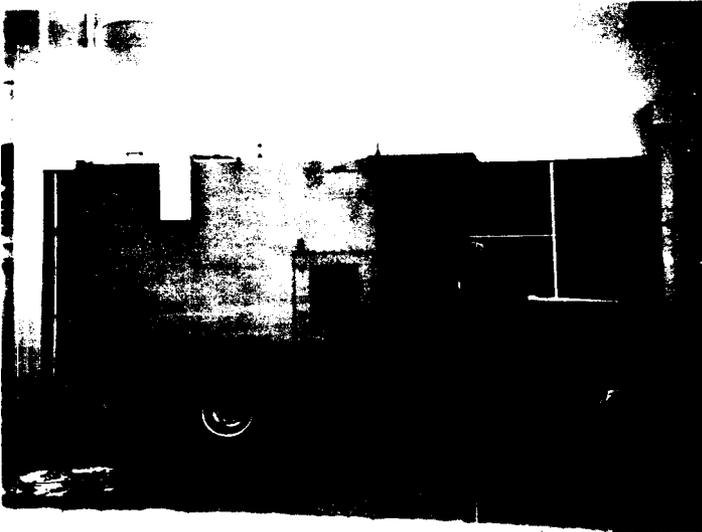
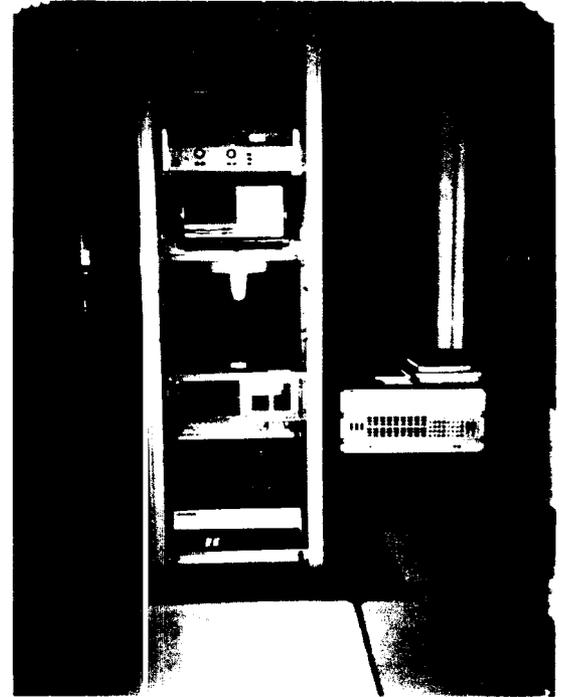
13. What is the approximate number of personnel used to operate the facility/equipment?

5 contractor personnel total which are also used for maintenance.

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

Refer to answer above.

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



FREQUENCY CONTROL & ANALYSIS

Technical Center Site	All AFWTF Ranges
Facility/Equipment Nomenclature or Title	Digital Microwave System

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

The digital microwave system is used to provide required channels for the transmission of range data, video, and voice between the remote AFWTF sites in Puerto Rico, Vieques Island, and in the U.S. Virgin Islands, and the Range Operations Center at Roosevelt Roads.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 13 of this data call.

Moveable.

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

\$15M

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

Gross weight = 6 Tons
Volume = 12,500 cu. ft.

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

None.

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

None.

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

Temperature = 72 degrees F

Relative humidity = 50%

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 microwave system is commercially available. It can be used at any other location provided that the antennas are installed in adequate locations to obtain line-of-sight with other applicable receiving or transmitting station(s).

The digital microwave system is vital to conduct range operations. All the radar data, target control signals, communication radios, timing information, etc., are transmitted through this system using a total of 11 different links. No range operations could be performed without this essential system.

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

The digital microwave system installation was recently completed in 1993. This new system replaced an old analog system which was originally installed in 1967. Both air and surface transportation were utilized to deliver the equipment to the different sites.

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.

No specific functional area is supported. All the AFWTF ranges utilize the microwave system.

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

Full 365 days per year, 24 hrs per day.

12. Provide the projected utilization data out to FY 1997.

Full 365 days per year, 24 hrs per day.

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

10 contractor personnel which are also used for maintenance.

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

Refer to answer above.

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



DIGITAL MICROWAVE SYSTEM

Technical Center Site	All AFWTF Ranges
Facility/Equipment Nomenclature or Title	Range Communications Network (RCN)

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

The RCN is used to effectively distribute and coordinate required channels for the transmission of range data, video, and voice between the remote AFWTF sites in Puerto Rico, Vieques Island, and in the U.S. Virgin Islands, and the Range Operations Center at Roosevelt Roads. These functions are performed via the digital microwave system.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by paragraph 6, page 13 of this data call.

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.

\$3.0M

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

Weight = 5 tons
Cube = 600 cu. ft

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

None.

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

None.

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

Temperature = 72 degrees F
Relative humidity = 50%

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 RCN system is commercially available. It can be used at any other location provided that required communications links are provided.

The RCN, in conjunction with the digital microwave system, is vital to conduct range operations. All the radar data, target control signals, communication radios, timing information, etc., are distributed and coordinated through this system. Proper support could not be provided to the range operations if this system is not available. The RCN provides the interconnection flexibility between the Range Operations Center and remote sites for responding to system/subsystem failures and avoid costly operations delays.

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

The RCN installation was completed in 1990. This new system replaced an old system which was originally installed in 1967. Both air and surface transportation were utilized to deliver the equipment to the different sites.

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.

No specific functional area is supported. All the AFWTF ranges utilize the RCN.

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

Full 365 days per year, 24 hrs per day.

12. Provide the projected utilization data out to FY 1997.

Full 365 days per year, 24 hrs per day.

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

5 contractor personnel which are also used for maintenance.

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

Refer to answer above.

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



COMMUNICATION DIGITAL SWITCHING
SYSTEM (CDSS) R C N

TAB C
RANGE RESOURCES
RANGE CAPABILITY FORM

**RANGE RESOURCES
RANGE CAPABILITY FORM**

Technical Center Site	AFWTF
Range Nomenclature or Title	OUTER RANGE

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. The Outer Range north and south operating areas host all types of missile operations, air and surface gunnery and other exercises that require large sea or air space. Various targets such as BQM-34S, AQM-37C, BQM-74Cs and QST-35 SEPTARs are utilized for fleet training or RDT&E projects. Exercises are controlled from the Range Operations Center (ROC) at the AFWTF Headquarters Building, Naval Station Roosevelt Roads. The ROC is capable of linking with NTDS capable ships and aircraft.

b. Geographic location of the range. Oceanic areas north and south of Puerto Rico.

c. Distance from the range to the activity's headquarters facility (main site). 25 NM.

d. Range size in square miles. 194,000 SQ NM.

e. Scheduling authority. CINCLANTFLT

f. Air space available/restrictions. Chartered International Air Space.

g. Maximum water depth available/restrictions. 6,000 Fathom; International Waters.

h. Instrumentation capability. 4 single object precision tracking radars.

i. Accuracy of tracking. Range accuracy = +/- 2 yards; Angle accuracy = +/- 0.1 mils.

TAB C
U.C: 0017A

j. Data collection/replay capability. The central data processing and distribution system CDPDS provides data collection capability for all subscribers. In addition, the AN/SPS-48 radar has data recording capability. Data can be printed/displayed for test/exercise reconstruction and playback.

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). 2088 hours/year

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

FY-89 - 1553 hrs
90 - 1739 hrs
91 - 1442 hrs
92 - 1352 hrs
93 - 1495 hrs

m. What were the actual hours that this range was utilized in FY1993? 1495.

n. Who are the customers of the range? DON, DAF, NATC, SO AM, NAVIES.

o. Of the actual hours utilized what percentage of utilization time was provided to which customers? Historically 70% DOD training. 30% DOD operational testing/developmental testing, FMS, others.

p. Provide a sketch, drawing or map of the range.

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

3. Are there any limiting (current or future) environmental and/or encroachment characteristics that are associated with this range. No.

TAB C
UIC: 0017A

Technical Center Site	AFWTF
Range Nomenclature or Title	EW RANGE

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. Only one range is maintained by the AFWTF EW division. The purpose of the Electronic Warfare Range is to provide a realistic electromagnetic environment for training of EW and Combat Systems Teams and support of RDT&E projects operating on AFWTF ranges.

b. Geographic location of the range. The EW range is located at Naval Station Roosevelt Roads with sites at St. Croix and Vieques Islands.

c. Distance from the range to the activity's headquarters facility (main site). Located in same.

d. Range size in square miles. 32,000 square miles

e. Scheduling authority. Commanding Officer AFWTF

f. Air space available/restrictions. N/A

g. Maximum water depth available/restrictions. N/A

h. Instrumentation capability.

EW Range Communications

Communications on the EW Range are conducted using non-secure UHF. Lines 50 and 51 are the primary use circuits for operations. Unit call signs are IAW AMSH 1707.

Line No.	Usage	Frequency	Remarks
50	Primary UHF	361.0 MHZ	
51	Secondary UHF	281.2 MHZ	
54	Primary HF	6694.5 KHZ	6693.0 KHZ Window Freq.

EW Range Call sign is TROPICROW

TAB C
UIC: 0017A

NJS Parametric Capabilities

The FLQ-4 can simulate First generation noise jammers, Second generation click jammers, and Third generation smart noise jammers. The following waveforms can be generated:

FM NOISE

Slide
Sawtooth
Clipped sawtooth
Sine

AM NOISE

Sine
Triangle
Sawtooth
Wobulation asymmetrical
Asymmetrical
Blink

AN/FLQ-4 Frequency Coverage (NJS)

BAND 1 425-450 MHZ ERP 61 DBM
BAND 2 850-942 MHZ ERP 73 DBM
BAND 4 2.9-3.6 GHZ ERP 83 DBM
BAND 5 5.4-5.9 GHZ ERP 85 DBM
BAND 6 8.5-10.5 GHZ ERP 82 DBM

TRS Parametric Capabilities

Frequency	2.7-3.1 GHZ E/F 7.8-9.6 GHZ H/I 14.4-15.2 GHZ J
PRF	100-5000 PPS
PW	0.5-5.0 USEC E/F 0.05-1600 USEC H/I/J
PRF Modulation	Fixed/Stagger/Jitter
Power (KW)	200 E/F 100 H/I/J
Signal Quantity (MAX)	1 E/F 32 H/I 16 J

TAB C
UIC: 0017A

Antenna Gain (db)	32 E/F 38 H/I/J
Antenna BW (deg)	4x4 E/F 2X2 H/I/J
Scan Generation	Circular/Bi-directional Sector/Uni-directional Sector/Palmer/Raster/Helical/Conical/Steady

TPS Parametric Capabilities

Frequency	2.7-3.1 GHZ E/F 7.8-9.6 GHZ H/I 14.0-15.2 GHZ J
PRF	100-5000 PPS E/F, H/I 200-5000 PPS J
PW	0.2-3.5 USEC E/F, H/I 0.2-2.0 USEC J
Number of Pulses	1 to 9 PPG all transmitters
Pulse Spacing	2.5-3.0 USEC E/F, H/I 2.5-40.0 USEC J
FM PRR	10-99 HZ E/F, H/I $\pm 10\%$ Deviation at 10-400 HZ
Stagger PRR	4.3 E/F, H/I 1/16-15/16 ratio
Jitter PRR	Random E/F, H/I
Random	$\pm 10\%$ Deviation at 10-400 HZ FM ratio J
Power	200 KW E/F, H/I Bands 100 KW J Band

TAB C
UIC: 0017A

ANTENNA

	<u>E/F BAND</u>		<u>H/I BAND</u>		<u>J BAND</u>	
	High Gain (db)	Low Gain (db)	High Gain (db)	Low Gain (db)	High Gain (cb)	Low Gain (db)
	30	20	35	20	35	20
Polarization	H	V	H	V	H	V
Beamwidth AZ	5'	10 ± 2'	4'	10 ± 2'	4'	10'
Beamwidth EL	5'	20'	2'	20'	1.7'	20'

The following systems are normally available at AFWTF also:

DPT-1: Radar Simulator Device

Vehicle: BQM-34 S/E
Parameters: FREQ. 7.8-9.6 Ghz
 14.0-15.2Ghz
 PRF 200-2000 PPS
 PW 0.4 or 0.8 uSec
 SCAN Circular, Bi-directional or Steady
 Power 70 KW

DPT-2: Radar Simulator Device

Vehicle: BQM-346, BQM-74C
Parameters: Freq. 9.4 Ghz
 PRF 400-1400 PPS
 PW 0.8 uSec
 Power 20 KW

AST-4: Radar Pod

Vehicle: TA-4J
 Carries DPT-1 and DPT-2 simulators.

DLQ-3B: Jammer/Deception Device

Vehicle: BQM-34 S/E

TAB C
 UIC: 0017A

Parameters: Freq. B,C,G,H,I,J Bands.

Normally configured to target fire control radar in G-H band, EW/2D air search radars in B/C band.

ALQ-167: Jammer/Deception Pod

Vehicle: TA-4J

Carries DLQ-3B jammer.

i. Accuracy of tracking. +/- two degrees, tracking provided by AN/SPS-67 radar

j. Data collection/replay capability. No replay capability, Data collection provides the number of EWR simulations, number of radiations reported by participating units, number of evaluations incorrect, average time to correct evaluations.

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). 8760 hours

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

FY 1989 4092

FY 1990 1651

FY 1991 2004

FY 1992 2130

FY 1993 2231

m. What were the actual hours that this range was utilized in FY 1993? 2231.

n. Who are the customers of the range? EW range provides support for all U.S. military, U.S. government, DOD and all authorized foreign services.

o. Of the actual hours utilized what percentage of utilization time was provided to which customers? 30%

p. Provide a sketch, drawing or map of the range.

2. Are any of your ranges part of the DoD Major Range and Test Facility Base (MRTFB)? (yes/no) If yes, which ones? Yes, all of AFWTF (UIC 0017A) is a designated MRTFB.

TAB C
UIC: 0017A

3. Are there any limiting (current or future) environmental and/or encroachment characteristics that are associated with this range? No.

TAB C
UIC: 0017A

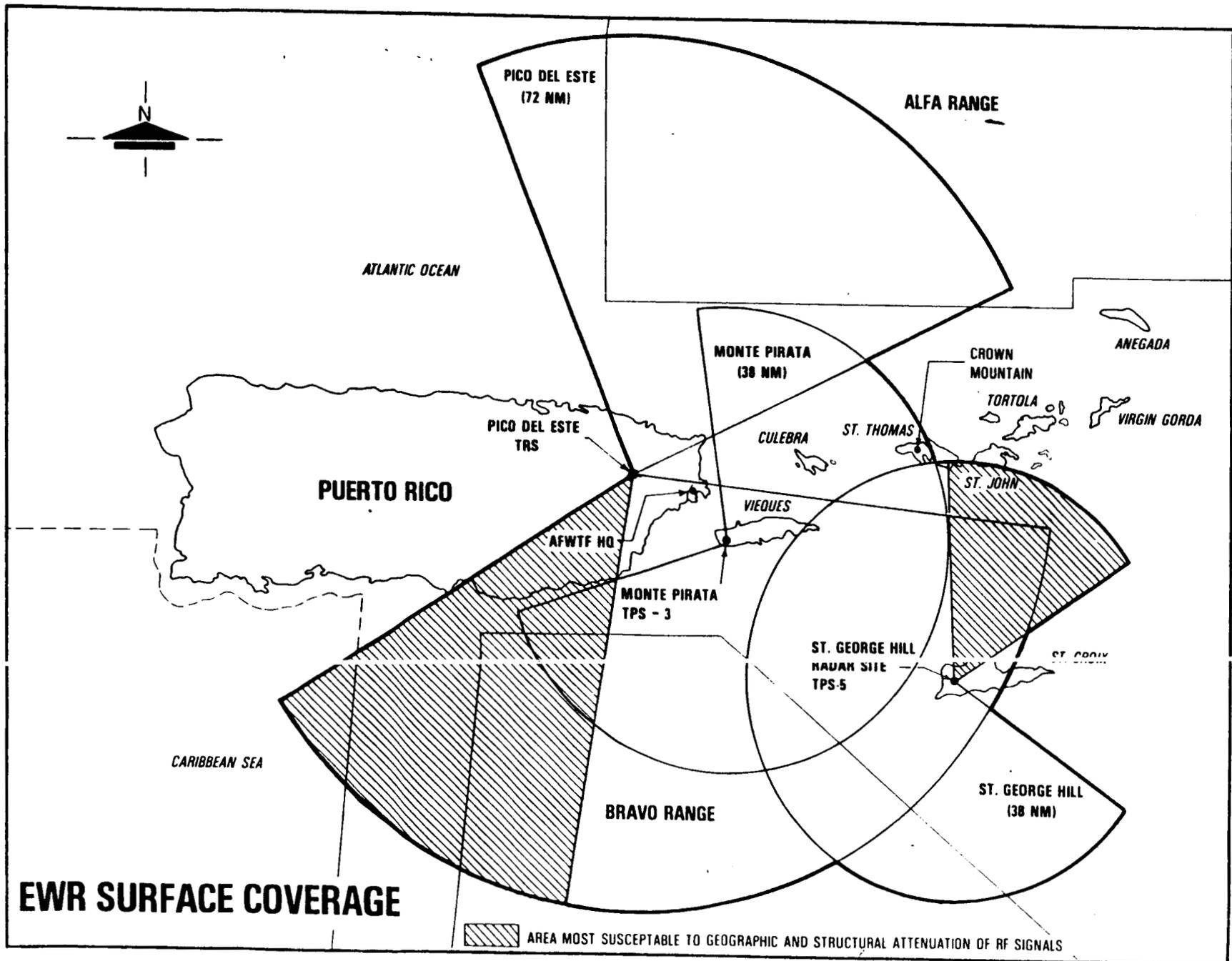


FIGURE 4 - 1

Technical Center Site	AFWTF
Range Nomenclature or Title	UNDERWATER TRACKING RANGE

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. The Underwater Tracking Range (UTR) at St Croix, U.S.V.I. is under the cognizance of the Atlantic Fleet Weapons Training Facility (AFWTF). The UTR is an instrumented range used for an i-submarine warfare qualifications in support of the U.S. Navy. A small amount of RDT&E is also conducted in support of inert weapons testing and sonar system development.

b. Geographic location of the range. UTR is located off the west coast of St Croix, U.S.V.I.

c. Distance from the range to the activity's headquarters facility (main site). 60 NM from NAVSTA Roosevelt Roads, Puerto Rico.

d. Range size in square miles. 400 square miles

e. Scheduling authority. AFWTF

f. Air space available/restrictions. Unrestricted above the range.

g. Maximum water depth available/restrictions. Maximum water depth is 14,000 feet in the north and 5,000 feet in the southern part.

h. Instrumentation capability. UTR is an instrumented range using the MK-84 range pinger.

i. Accuracy of tracking. +/- 1 meter.

j. Data collection/replay capability. Yes. Collection is tailored to individual customer needs. Formats in ASCII II, binary or reform are available as is all methods of hardcopy printout.

TAB C
U. C: 0017A

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). 7288 hours

l. What were the actual hours this range was utilized per year for the last five years (FYs 1989-1993)? Data is kept by CY vice FY:

CY 1989 3800
CY 1990 3600
CY 1991 3234
CY 1992 2746
CY 1993 2462

m. What were the actual hours that this range was utilized in FY 1993? 2462 hours

n. Who are the customers of the range? DON and FMS

o. Of the actual hours utilized what percentage of utilization time was provided to which customers? DON-91%

FMS - 9%

p. Provide a sketch, drawing or map of the range.

2. Are any of your ranges part of the DoD Major Range and Test Facility Base (MRTFB)? (yes/no) If yes, which ones? Yes, all AFWTF (UIC) 0017A is a designated MRTFB.

3. Are there any limiting (current or future) environmental and/or encroachment characteristics that are associated with this range? No.

TA 3 C
UIC: 0017A

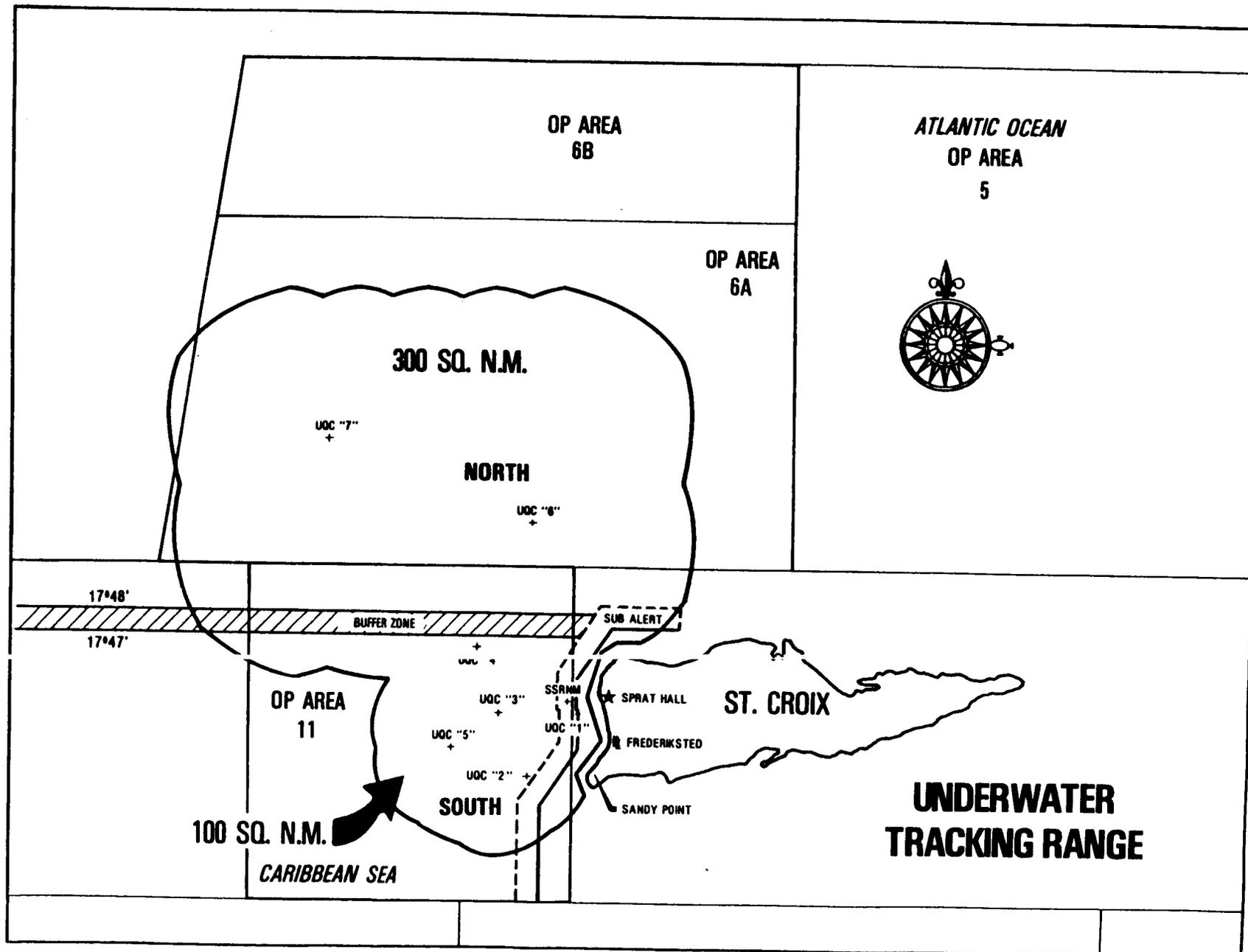


FIGURE 7 - 1

Technical Center Site	AFWTF
Range Nomenclature or Title	INNER RANGE

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. A multi-purpose target complex consisting of naval gunfire support (NGFS), supporting arms (SA), and air-to-ground (ATG) ordnance ranges; practice aerial and surface minefields; and amphibious/submarine special warfare operating areas.

b. Geographic location of the range. A hilly island approximately 18 miles long and 4 miles wide, Vieques is located 7 miles southeast of Roosevelt Roads, 8 miles south of Culebra and 20 miles southwest of St. Thomas, U.S. Virgin Island. The Inner Range complex is located on the eastern half of the island and adjacent waters.

c. Distance from the range to the activity's headquarters facility (main site). 17 miles southeast.

d. Range size in square miles. 224 square miles.

e. Scheduling authority. AFWTF

f. Air space available/restrictions. Land

Inner Range	22.65 Square Miles
AFWTF	5.46 Square Miles
Live Impact	1.40 Square Miles

Air:

R-7104	110.00 Square Miles
W-428	224.00 Square Miles

Restrictions: No Supersonic Flights.
No missiles allowed.

TAB C
UIC: 0017A

g. Maximum water depth available/restrictions. 6,000 feet. No underwater weapons firings or ordnance impacting in the water allowed.

h. Instrumentation capability. Weapons Impact Scoring Set (WSS), EON acoustic scoring system, laser spot recording board and mini-ranger scoring system.

i. Accuracy of tracking. Scoring available within feet.

j. Data collection/replay capability. Manual and voice on, real time only.

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).

Live impact area available 4425 hours per year.

Eastern Training area available 7080 hours per year.

Amphibious operating area available 7080 hours per year.

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

	R7104	W428
FY 89	2489.4	2384.0 Hrs
FY 90	2397.8	2345.2 Hrs
FY 91	1960.7	1846.1 Hrs
FY 92	2300.1	2259.3 Hrs
FY 93	1765.5	1763.3 Hrs

m. What were the actual hours that this range was utilized in FY 1993?

FY 93	1765.5	1763.3 Hrs
-------	--------	------------

n. Who are the customers of the range? All DOD and DOT services, Foreign Military Sales (FMS), local, state and federal law enforcement agencies.

o. Of the actual hours utilized what percentage of utilization time was provided to which customers?

DOD: 85%

DOT: 2%

FMS: 11%

TAB C
UIC: 0017A

Other: 2%

p. Provide a sketch, drawing or map of the range.

2. Are any of your ranges part of the DoD Major Range and Test Facility Base (MRTFB)? (yes/no) If yes, which ones? Yes, all of AFWTF (UIC 0017A is designated MRTFB.

3. Are there any limiting (current or future) environmental and/or encroachment characteristics that are associated with this range? Yes, the Inner Range is located on the eastern third of Vieques Island, approximately 7 miles south of NAVSTA Roosevelt Roads. Military operations taking place on Vieques and in the Inner Range occur under a Memorandum of Understanding (MOU) between Puerto Rico and the U.S. Navy (1983). Subject MOU addresses concerns such as: community assistance, land use, ecosystems/conservation zones, marine life management, noise, historic preservation and mitigation measures. Additionally, the host NAVSTA awaits receipt of a new water quality certificate (WQC) from EPA. Previous NPDES permit expired in 1989. Current operations occur under "administrative agreement" with EPA and Puerto Rico environmental quality board (EQB).

TAB C
UIC: 0017A

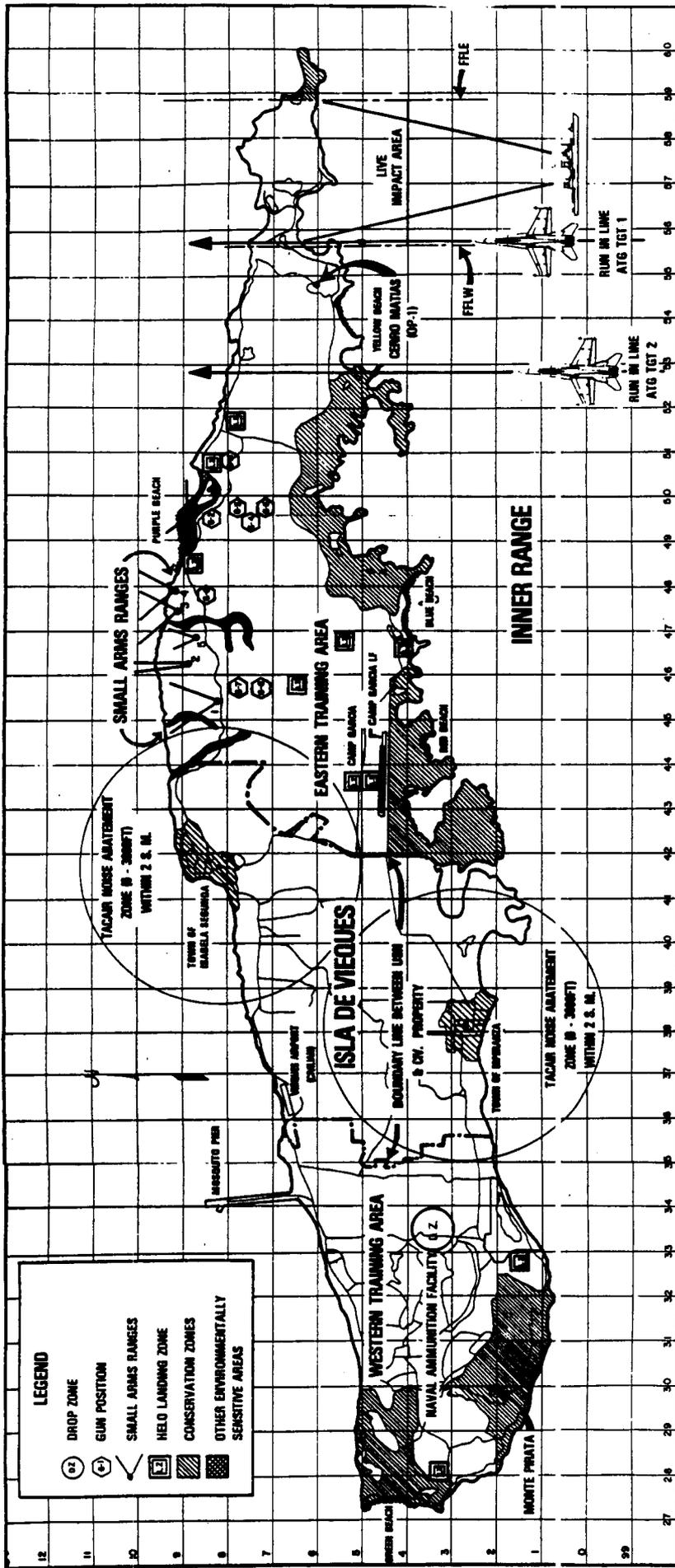


FIGURE 5 - 3

AFWTF ROOSEVELT ROADS UIC 0017A
DATA CALL FIVE

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

H. H. MAUZ, JR.

NAME (Please type or print)

Admiral

Title Commander in Chief
U.S. Atlantic Fleet

Activity

Signature

Date

5/27/94

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

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

J. B. GREENE, JR.

NAME (Please type or print)

ACT-106

Title

Signature

Date

2 JUN 94

Activity: 0017A

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."

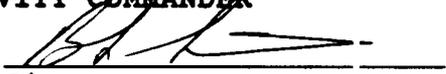
The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

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

ACTIVITY COMMANDER

B. L. LINER, CAPT, USN
Name


Signature

Commanding Officer
Title

4 MAY 94
Date

AFWTF (UIC 0017A)
Activity

**CAPACITY ANALYSIS:
DATA CALL #4 WORK SHEET FOR
TECHNICAL CENTER or LABORATORY: Technical Center (AFWTF)**

Table of Contents

Section

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

TAB A: Ship Berthing Capacity

TAB B: Operational Airfield Capacity

TAB C: Depot Level Maintenance Capacity

TAB D: Ordnance Storage Capacity

Note: See next page

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).

UIC 0017A

**Table 1.1 Historical and Projected Workload for AFWTF
(UIC 0017A)**

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	20870	20870	N/A	42	125	434
87	21243	21243	N/A	46	129	438
88	21225	21225	N/A	46	129	438
89	21869	21869	N/A	45	128	411
90	24016	24016	N/A	47	139	412
91	22207	22207	N/A	43	137	428
92	23429	23429	N/A	41	134	408
93	28397	28397	N/A	41	132	410
94	26546	26546	N/A	40	132	400
95	27015	27015	N/A	39	132	399
96	24125	24125	N/A	39	132	398
97	23974	23974	N/A	39	132	398

NOTE: (1) AFWTF (UIC 0017A) HAS NO DIRECT CITE FUNDING

UIC 0017A

Table 1.2 Historical and Projected Workload for Detachments of AFWTF

(UIC 0017A)

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

NOTE: (1) AFWTF (UIC 0017A) DOES NOT HAVE DETACHMENTS.

UIC 0017A

**TABLE 1.3 FY 1993 BREAKOUT OF FUNDS BUDGETED for AFWTF
(UIC 0017A)**

SPONSOR	RDT&E(N)							Other RDT& E	Other Appropriation						
	(1) 6.1	6.2	6.3a	6.3b	6.4	6.5	6.6		OMN	APN	OPN	WPN	SCN	Other Navy	All Other
TELCOM									30						
NAVSEA	674								2870				2113		
NAVAIR											345				
NAVELEX									303						
CNO									2206 2						

NOTE: (1) AFWTF is unable to break down RDT&E funds, thus, all RDT&E has been listed under 6.1.
(2) All funds reported in \$K.

UIC 0017A

**TABLE 1.3 FY 1994 BREAKOUT OF FUNDS BUDGETED for AFWTF
(UIC 0017A)**

SPONSOR	RDT&E(N)						Other RDT&E	Other Appropriation						
	(1) 6.1	6.2	6.3a	6.3b	6.4	6.5		6.6	OMN	APN	OPN	WPN	SCN	Other Navy
NAVSEA	150							3216				1400		
NAVAIR										180				
CNO								2160						
								0						

NOTE: (1) AFWTF is unable to break down RDT&E funds, thus, all RDT&E has been listed under 6.1.
 (2) All funds reported in \$K.

UIC 0017A

**TABLE 1.3 FY 1995 BREAKOUT OF FUNDS BUDGETED for AFWTF
(UIC 0017A)**

SPONSOR	RDT&E(N)							Other RDT&E	Other Appropriation						
	(1) 6.1	6.2	6.3a	6.3b	6.4	6.5	6.6		OMN	APN	OPN	WPN	SCN	Other Navy	All Other
NAVSEA	150								3306				1050		
CNO	N/A								2250 9						

NOTE: (1) AFWTF is unable to break down RDT&E funds, thus, all RDT&E has been listed under 6.1

(2) All funds reported in \$K.

(3) RDT&E funding for FY 95 is not available/unknown.

UIC 0017A

**TABLE 1.3 FY 1996 BREAKOUT OF FUNDS BUDGETED for AFWTF
(UIC 0017A)**

SPONSOR	RDT&E(N)							Other RDT&E	Other Appropriation						
	(1) 6.1	6.2	6.3a	6.3b	6.4	6.5	6.6		OMN	APN	OPN	WPN	SCN	Other Navy	All Other
NAVSEA	N/A								3406				1400		
CNO	N/A								1931						

NOTE: (1) AFWTF is unable to break down RDT&E funds, thus, all RDT&E has been listed under 6.1

- (2) All funds reported in \$K.
- (3) RDT&E funding for FY 96 is not available/unknown.

UIC 0017A

**TABLE 1.3 FY 1997 BREAKOUT OF FUNDS BUDGETED for AFWTF
(UIC 0017A)**

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
NAVSEA	N/A								3000				1400		
CNO	N/A								1957 4						

NOTE: (1) AFWTF is unable to break down RDT&E funds, thus, all RDT&E has been listed under 6.1.
 (2) All funds reported in \$K.
 (3) RDT&E funding for FY 97 is not available/unknown.

UIC 0017A

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.

Note: (1) Tables 2.1, and 2.2 are N/A to AFWTF (UIC 0017A).

(2) AFWTF has no assigned class 2 property. All such property is property of host Naval Station Roosevelt Roads, Puerto Rico. Such data shall be reported out in their response to NAVSTA based data calls.

UIC 0017A

Table 2.1 Main Site Class 2 Assets of N/A to AFWTF (UIC)

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					

UIC 0017A

Totals				
---------------	--	--	--	--

NOTE: (1) AFWTF (UIC 0017A) holds no class 2 assets or space .
(2) Class 2 property custodied to Host Naval Station, Roosevelt Roads (UIC 00389)

UIC 0017A

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?

NOTE: (1) N/A TO UIC 0017A. All facilities used by AFWTF are provided by the host Naval Station Roosevelt Roads, Puerto Rico. NAVSTA responses to questions on class 1 and 2 property shall be addressed in NAVSTA based Data Calls.

UIC 0017A

Table 2.3 Class 2 Space Utilized/Leased by AFWTF (UIC 0017A)

Building type	NAVFAC (P-80) category code	GF/BA (K SF)			
		Adequate	Sub-standard	In-adequate	Total
Operational & Training	100	132.346	5.928	7.105	145.379
Maintenance & Production	200	69.218	4.000	20.574	93.792
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	0.136			0.136
Hospital & other Medical	500				
Administrative Facilities	600	26.998		1.886	29.884
Housing & Community	700	6.984			6.984
Utilities & Grounds	800	8.164	0.575		8.739
Other					
Totals		243.846	10.503	30.565	284.914

NOTE: (1) AFWTF (UIC 0017A) holds no class 2 assets or space. All such property is property of host Naval Station.

UIC 0017A

Roosevelt Roads (UIC 00389).

(2) AFWTF leases no class 2 space.

(3) All class 2 property listed in Table 2.3 is property accountable to NAVSTA Roosevelt Roads, Puerto Rico (UIC 00389).

UIC 0017A

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.

NOTE: (1) Tables 2.4, 2.5 and 2.6 are N/A to AFWTF (UIC 0017A).

(2) AFWTF has no detachments.

(3) AFWTF holds no class 2 assets or space. All class 2 property is property of host Naval Station Roosevelt Roads (UIC 00389).

UIC 0017A

**Table 2.4 Class 2 Assets of N/A to AFWTF (UIC 0017A)
Occupied by Detachments**

Building type	NAVFAC (P-80) category code	GF/BA (K SF)			
		Adequate	Sub-standard	n-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					

UIC 0017A

Table 2.6 Class 2 Space Utilized/Leased by Detachments of N/A to AFWTF (UIC 0017A)

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

3. **Class 2 Space Available for Expansion.** An activity's expansion capability is a function of it's ability to

UIC 0017A

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.

NOTE: (1) Tables 3.1, and 3.2 do not apply to AFWTF.

(2) AFWTF (UIC 0017A) holds no class 2 assets or space. All class 2 property is property of host Naval Station Roosevelt Roads (UIC 00389).

UIC 0017A

4. Class 1 Space Available for Expansion.

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

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

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

NOTE: (1) AFWTF holds no class 1 space. All Class 1 property/space is property of the host Naval Station, Roosevelt Roads (UIC 00389). The Tables 4.1 for various sites that follow provide NAVSTA Roosevelt Roads information (also reported in Data Calls number 6 and 16) with specific answers to question 4.d which was not asked in Data Calls number 6 and 16.

UIC 0017A

Table 4.1 Class I Resources of AFWTF (Tenant) (UIC 0017A)

Site Location: Roosevelt Roads Proper¹

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	308	93	75 ^{2,3}	140
Operational	2726	1681	324 ^{3,4,5}	721
Training	3	3	0	0
R & D	0	0	0	0
Supply & Storage	363	110	5 ³	248
Admin	123	49	0	74
Housing	660	500	50 ⁴	110
Recreational ⁶	749	345	0	404
Navy Forestry Program	2930	32	2898 ⁷	0
Navy Agricultural Outlease Program	176	3	0	173
Hunting/Fishing Programs	0	0	0	0
Other ⁸	383	115	219 ^{4,5}	49
Total:	8421	2931	3571	1919

AFWTF is a tenant activity at U.S. Naval Station, Roosevelt Roads. Roosevelt Roads Real Estate resources are available for development by AFWTF and any other existing and future tenant activity. Accordingly, Table 4.1 is equally applicable to BRAC 95 Data Calls number 6 and 16.

² LANDFILL

³ ESQD

⁴ TOPOGRAPHIC CONSTRAINTS

⁵ AIRFIELD SAFETY AREA

⁶ INCLUDES BEACHES, SCHOOLS, CHURCHES, ETC. (NAMED PERSONNEL SUPPORT IN MASTER PLAN)

⁷ WETLANDS AND CRITERIA HABITATS

⁸ INCLUDES MEDICAL AND ORDNANCE STORAGE

d. Of the total Unrestricted Acres reported above, how much of it has existing roads and/or utilities that could support expansion efforts? 1535 Acres. Explain.

Construction of new access from existing roads to future development site will be required. Estimated maximum length of a new road is 0.5 miles. Estimated maximum distance of existing utilities to a potential new development site is less than 1.5 miles.

UIC 0017A

Table 4.1 Class 1 Resources of AFWTF (Tenant) (UIC 0017A)
 Site Location: Vieques, East

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	8037	7737	270	30
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	1	1	0	0
Recreational	43	43	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	5957	5957	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	14038	13738	270	30

NOTE: This data is also being reported by NAVSTA Roosevelt Roads (Plant account holder) on BRAC 95 Data Calls number 6 and 16.

d. Of the total Unrestricted Acres reported above, how much of it has existing roads and/or utilities that could support expansion efforts? 30 Acres. Explain.

Additional sanitary sewage treatment facility would be required. Existing sewage treatment lagoons will be replaced by a septic tank in FY 95.

NOTE: (1) AFWTF, as a tenant, holds no class 1 space.

UIC 0017A

Table 4.1 Class 1 Resources of AFWTF (tenant) (UIC 0017A)
 Site Location: Vieques, West

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	1	1	0	0
Operational	3482	3432	37	13
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	3740	3740	0	0
Admin	1	1	0	0
Housing	1	1	0	0
Recreational	30	30	0	0
Navy Forestry Program	150	150	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	7405	7355	37	13

NOTE: This data is also being reported by Naval Station Roosevelt Roads (plant account holder) on BRAC 95 Data Calls number 6 and 16.

d. Of the total Unrestricted Acres reported above, how much of it has existing roads and/or utilities that could support expansion efforts? 13 Acres. Explain.

Sanitary sewage collection and treatment facilities would require expansion to accommodate new development.

NOTE: (1) AFWTF (UIC 0017A) holds no class 1 space.

UIC 0017A

Table 4.1 Class 1 Resources of AFWTF (tenant) (UIC 0017A)
 Site Location: St. Thomas

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	87	87	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	0	0	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	87	87	0	0

NOTE: This data is also being reported by Naval Station Roosevelt Roads (plant account holder) on BRAC 95 Data Calls number 6 and 16.

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

There is no land available for development.

NOTE: (1) AFWTF (UIC 0017A) holds no class 1 space.

UIC 0017A

Table 4.1 Class 1 Resources of AFWTF (tenant) (UIC 0017A)
 Site Location: St. Croix

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	10.62	10.62	0	0
Training	12.24	12.24	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	0	0	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	22.86	22.86	0	0

NOTE: This data is also being reported by Naval Station Roosevelt Roads (plant account holder) on BRAC 95 Data Calls number 6 and 16.

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

There is no land available for development.

NOTE: (1) AFWTF (UIC 0017A) holds no class 1 space.

UIC 0017A

Table 4.1 Class 1 Resources of AFWTF (tenant) (UIC 0017A)
 Site Location: Stop 7-1/2, San Juan

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	.2	.2	0	0
Admin	1.3	1.3	0	0
Housing	4.0	4.0	0	0
Recreational	2.2	2.2	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	7.7	7.7	0	0

NOTE: This data is also being reported by Naval Station Roosevelt Roads (plant account holder) on BRAC 95 Data Calls number 6 and 16.

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

There is no land available for development.

NOTE: (1) AFWTF (UIC 0017A) holds no class 1 space.

UIC 0017A

Table 4.1 Class 1 Resources of AFWTF (tenant) (UIC 0017A)
 Site Location: Pico del Este

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	87	87	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	0	0	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	87	87	0	0

NOTE: This data is also being reported by Naval Station Roosevelt Roads (plant account holder) on BRAC 95 Data Calls number 6 and 16.

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

There is no land available for development.

NOTE: (1) AFWTF (UIC 0017A) holds no class 1 space.

UIC 0017A

Table 4.1 Class I Resources of AFWTF (tenant) (UIC 0017A)
 Site Location: Culebra, Puerto Rico

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	3	3	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	0	0	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	84	14	73 ¹	0
Total:	87	14	73	0

¹ Restriction is due to the possible presence of unexploded ordnance. Approximately 90% of the area is covered with dense vegetation. Approximately 40% is rough steep terrain. Both factors omit the possibility of an ordnance sweep and cleaning the property for development. The land is outleased to Fish and Wildlife Service for use and surveillance as a conservation zone.

NOTE: This data is also being reported by Naval Station Roosevelt Roads (plant account holder) on BRAC 95 Data Calls number 6 and 16.

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

There is no land available for development.

NOTE: (1) AFWTF (UIC 0017A) holds no class 1 space.

UIC 0017A

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

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

Table 5.1 Base Infrastructure Capacity & Load

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

NOTE: (1) AFWTF is a tenant on Naval Station Roosevelt Roads, Puerto Rico (UIC 00389)

(2) AFWTF (UIC 0017A) draws all base infrastructure capacity and load services from Host Naval Station, Roosevelt Roads.

(3) Subject data will be reported by NAVSTA Roosevelt Roads in their response to NAVSTA Data Calls.

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:

UIC 0017A

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 N/A for AFWTF (UIC: 0017A)**

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

UIC 0017A

1995			
1996			
1997			

UIC 0017A

c. Training Facilities:

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

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

A = STUDENTS PER YEAR

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

C = A x B

NOTE: (1) Does not apply to AFWTF, UIC 0017A, AFWTF has 10 school assigned.

UIC 0017A

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

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

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

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

NOTE: (1) Does not apply to AFWTF, UIC 0017A, AFWTF has no school assigned.

6. Ship Berthing Capacity. If your activity has the capacity to berth ships, fill out the data sheets provided at TAB A. N/A to AFWTF. All such capacity is a part of the host Naval Station, Roosevelt Roads, Puerto Rico.

7. Operational Airfield Capacity. If your activity owns and operates an operational

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

UIC 0017A

airfield fill out the data sheets provided at TAB B. N/A to AFWTF. All such capacity is a part of the host Naval Station, Roosevelt Roads, Puerto Rico.

8. Depot Level Maintenance Capacity. Fill out 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 to AFWTF. AFWTF has no depot level maintenance capacity.

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.

UIC 0017A

TAB A

SHIP BERTHING CAPACITY

NOTE: (1) Not applicable to AFWTF. AFWTF has no ship berthing capacity. All such capacity is part of the host Naval Station, Roosevelt Roads (UIC 00389). Such data shall be reported out in their response to NAVSTA based Data Calls.

SHIP BERTHING CAPACITY

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

Table 11.1

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

¹Original age and footnote a list of MILCON improvements in the past 10 years.

²Use NAVFAC P-80 for category code number.

³Comment if unable to maintain design dredge depth

⁴Water distance between adjacent finger piers.

⁵Indicate if RO/RO and/or Aircraft access.

⁶Describe the additional controls for the pier.

⁷Net explosive weight. List all ESQD waivers that are in effect with expiration date.

TAB A
UIC 0017A

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

Table 13.1

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

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

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

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

TAB A
UIC 0017A

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

Table 14.1

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

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

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

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

TAB A
UIC 0017A

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

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

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

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

TAB A
UIC 0017A

TAB B

OPERATIONAL AIRFIELD CAPACITY

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

NOTE: (1) TAB B applies to AFWTF (UIC 0017A) only for items numbered 25(12b) and 26(12c). All other items manifest with the host Naval Station, Roosevelt Roads (UIC 00389)
(2) AFWTF maintains no airfield facility or capability.
(3) Host Naval Station Roosevelt Roads shall submit pertinent data under NAVSTA BRAC 95 Data Calls.

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

Airfield Name NONE (Local airfield is account property of NAVSTA Roosevelt Roads Puerto Rico (UIC 00389).

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

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

- F -- Full lighting (runway edge, center, and threshold)
- P -- Partial lighting (less than full)
- C -- Carrier deck lighting simulated
- N -- No lighting

NOTE: (1) Not applicable to AFWTF.
 (2) Airfield facilities are property of the host Naval Station Roosevelt Roads, PR

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

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

NOTE: (1) Not applicable to AFWTF.

TAB B
UIC 0017A

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

NOTE: (1) Not applicable to AFWTF.

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

NOTE: (1) Not applicable to AFWTF.

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

NOTE: (1) Not applicable to AFWTF.

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

NOTE: (1) Not applicable to AFWTF.

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

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

NOTE: (1) Not applicable to AFWTF.

TAB B
UIC 0017A

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

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

NOTE: (1) Not applicable to AFWTF.

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

NOTE: (1) Not applicable to AFWTF.

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

NOTE: (1) Not applicable to AFWTF.

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

NOTE: (1) Not applicable to AFWTF.

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

NOTE: (1) Not applicable to AFWTF.

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

NOTE: (1) Not applicable to AFWTF.

14. [2g.] Are there any **air traffic control constraints/procedures** that currently, or may

TAB B
UIC 0017A

in the future, limit air station operations? If yes, fully explain impact.

NOTE: (1) Not applicable to AFWTF.

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

NAVAID	DESCRIPTION/LOCATION

NOTE: (1) Not applicable to AFWTF.

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

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

NOTE: (1) Not applicable to AFWTF.

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

TAB B
UIC 0017A

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

NOTE: (1) Not applicable to AFWTF.

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

NOTE: (1) Not applicable to AFWTF.

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

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

NOTE: (1) Not applicable to AFWTF.

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

TAB B
UIC 0017A

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

NOTE: (1) Not applicable to AFWTF.

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

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

NOTE: (1) Not applicable to AFWTF.

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

TAB B
UIC 0017A

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

NOTE: (1) Not applicable to AFWTF.

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

NOTE: (1) Not applicable to AFWTF.

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

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

NOTE: (1) Not applicable to AFWTF.

25. [12b.] For each Special Use Airspace (SUA) or airspace-for-special use routinely used

TAB B
UIC 0017A

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

include RON/domestic deployment training

SUA	Location /Distance	Types/Uses	Scheduling Authority (UIC)	Squadron/Unit	Training Requirement (types of training)	Yearly Usage Rate (Hrs)
W-368	43NM N of NSRR	AAW, SA, AS, EW, AND FO	0017A	DON, USA USAF, FMS	AAW, SA, AS, EW, AND FO	DON-836 DOD-172 FMS-221
W-369	50NM N of NSRR	AAW, SA, AS, EW, AND FO	00178	DON, USA, USAF, FMS	AAW, SA, AS, EW, AND FO	DON-634 DOD-131 FMS-168
W-370	35NM S of NSRR	AAW, SA, AS, EW, AND FO	0017A	DON, USA, USAF, FMS	AAW, SA, AS, EW, AND FO	DON-917 DOD-189 FMS-243
W-429	105N M N of NSRR	AAW, SA, AS, EW, AND FO	0017A	DON, USA, USAF, FMS	AAW, SA, AS, EW, AND FO	DON-473 DOD- 97 FMS-125
W-428	15NM E of NSRR	AGB, FO, SME, AO, AND NG	0017A	DON, USA, USAF, FMS	AGB, FO SME, AO, AND NG	DON-1088 DOD- 224 FMS- 288
W-372	86NM S of NSRR	AAW, SA, AS, EW, AND FO	0017A	DON, USA, USAF, FMS	AAW, SA, AS, EW, AND FO	DON-395 DOD- 81 FMS-105
W-373	24NM S of NSRR	AAW, SA, AS, EW, AND FO	0017A	DON, USA, USAF, FMS	AAW, SA, AS, EW, AND FO	DON-917 DOD-189 FMS-243

include RON/domestic deployment training

TAB B
UIC 0017A

W-374	55NM S of NSRR	FO	0017A	DON, USA, USAF, FMS	FO	DON- 86 DOD- 19 FMS- 0
W-375/ 376	90NM S of NSRR	FO	0017A	DON, USA, USAF, FMS	FO	DON- 86 DOD- 19 FMS- 0
W-377	88NM SE of NSRR	AAW, SA, AS, EW, AND FO	0017A	DON, USA, USAF, FMS	AAW, SA, AS, EW, AND FO	DON-317 DOD- 65 FMS- 84
R-7104	15NM E of NSRR	AGB, NG, ME, SAF, AND AO	0017A	DON, USA, USAF, FMS	AGB, NC, ME, SAF, AND AO	DON-1088 DOD- 224 FMS- 288

Remarks:

(1) Air to Air Warfare (AAW), Surface to Air Warfare (SA), Air to Surface Warfare (AS), Electronic Warfare (EW), Flight Operations (FO), Air to Ground Bombing (AGB), Naval Gunfire (NG), Mining Exercises (ME), Small Arms Fire (SAF), Amphibious Operations (AO), Strafing Mine Exercises (SME), and Naval Station Roosevelt Roads (NSRR).

(2) All distances are from NAVSTA Roosevelt Roads (UIC 00389).

TAB B
UIC 0017A

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

SUA	Location/ Distance	Types/Uses	Scheduling Authority (UIC)	Fiscal Year	Scheduled	Utilized ¹	Operating Limitations ²
					# Hours	# Hours	
W-368	43NM N of NSRR	AAW, SA, AS, EW, AND FO	0017A	1992	1735.5	1154.2	None
				1993	1384.9	1229.2	
W-369	50NM N of NSRR	AAW, SA, AS, EW, AND FO	0017A	1992	1469.5	983.3	None
				1993	1064.5	932.7	
W-370			0017A	1992	1119.9	1032.1	None
				1993	1192.9	1022.4	
W-372	86NM S of NSRR	AAW, SA, AS, EW, AND FO	0017A	1992	719.5	566.4	None
				1993	632.0	581.1	
W-373	24NM S of NSRR	AAW, SA, AS, EW, AND FO	0017A	1992	1677.5	1449.3	None
				1993	1446.8	1448.0	
W-374	55NM SW of NSRR	FO	0017A	1992	207.1	98.0	No Live Firing
				1993	125.5	105.0	
W-375	90NM SW of NSRR	FO	0017A	1992	176.0	97.0	No Live Firing
				1993	125.5	105.0	
W-376	90NM SW of NSRR	FO	0017A	1992	80.0	51.0	No Live Firing
				1993	28.7	51.0	
W-377	88NM SE of NSRR	FO	0017A	1992	347.5	234.8	None
				1993	495.9	467.1	

TAB B
UIC 0017A

W-428	15NM E of NSRR	AGB, FO, SME, AO, AND NG	0017A	1992 1993	2708.5 1872.0	22;9.3 16;0.2	None
W-429	105NM N of NSRR	AAW, SA, AS, EW, AND FO	0017A	1992 1993	1140.0 806.0	89;6 69;3	None
R-7104	15NM E of NSRR	AGB, NG, ME, SAF, AND AO	0017A	1992 1993	2708.5 1872.0	22;9.3 16;0.2	None

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

² Provide any comments on operating limitations.

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

NOTE: (1) Not applicable to AFWTF.

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

NOTE: (1) Not applicable to AFWTF.

TAB B
UIC 0017A

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

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

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

NOTE: (1) Not applicable to AFWTF.

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

Hangar #/ID/Type	SQD/Mod # Assignment ¹	Ops + Admin Spaces SF/Module	Maint Shops SF/Module (O Level)	Hangar Deck SF/Module	A/C Line parking spaces ³		
					#/Modul ²	SF	Elec. Pwr.
TOTAL							

¹ Provide which SQD/Det was assigned to the specific module at receipt of this Data Call. (i.e., VFA-15, Hgr 1, Mod C)

² Dedicated aircraft parking spaces per Module and total square feet (SF) of A/C line parking spaces

³ Are there A/C line parking spaces supported by permanently installed electric power? (Y/N)

NOTE: (1) Not applicable to AFWTF.

TAB B
UIC 0017A

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

Squadron/Detachment	#/Type Aircraft	Deployed Location

NOTE: (1) Not applicable to AFWTF.

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

Squadron/Detachment	#/Type Aircraft	Hanger Module Assignment

NOTE: (1) Not applicable to AFWTF.

TAB B
UIC 0017A

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

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

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

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

NOTE: (1) Not applicable to AFWTF.

TAB B
UIC 0017A

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

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

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

NOTE: (1) Not applicable to AFWTF.

TAB B
UIC 0017A

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

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

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

NOTE: (1) Not applicable to AFWTF.

TAB B
UIC 0017A

TAB C

DEPOT LEVEL MAINTENANCE CAPACITY

NOTE: (1) Does not apply to AFWTF (UIC 0017A). AFWTF has no Depot Level Maintenance capability or facilities.

Maintenance and Industrial Activities

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

JCSG-DM: Maintenance and Industrial Activities

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

TAB C
UIC: 0017A

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

Notes:

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

TAB C
UIC: 0017A

PART I: MAINTENANCE & INDUSTRIAL ACTIVITIES

1. Historic and Predicted Workload

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

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

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

TAB C - PART I
Page ___ **of** ___
UIC: _____

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

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

TAB C - PART I
 Page ___ of ___
 UIC: _____

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

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

TAB C - PART I
Page ___ **of** ___
UIC: _____

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

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

TAB C - PART I
Page ___ **of** ___
UIC: _____

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

Table 1.2.a: Maximum Potential Depot/Industrial Workload N/A

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

TAB C - PART I
Page ___ of ___
UIC: _____

Table 1.2.b: Maximum Potential Depot/Industrial Workload N/A

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

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

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

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

TAB C - PART I
Page ____ of ____
UIC: _____

2. Workload Summary

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

Table 2.1.a: PREDICTED WORKLOAD VARIANCE FOR FY 1995 N/A

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

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

Table 2.1.b: PREDICTED WORKLOAD VARIANCE FOR FY 1996 N/A

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

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

Table 2.1.c: PREDICTED WORKLOAD VARIANCE FOR FY 1997 N/A

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

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

Table 2.1.d: PREDICTED WORKLOAD VARIANCE FOR FY 1998 N/A

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

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

Table 2.1.e: PREDICTED WORKLOAD VARIANCE FOR FY 1999 N/A

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

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

Table 2.1.f: PREDICTED WORKLOAD VARIANCE FOR FY 2000 N/A

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

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

Table 2.1.g: PREDICTED WORKLOAD VARIANCE FOR FY 2001 N/A

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

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

PART II: HEADQUARTERS (MAJOR OWNERS & OPERATORS)

1. Interservicing Candidates

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

2. Core Requirements

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

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

TAB C - PART II
Page ___ of ___
UIC: _____

Table 2.1.a: Workload Requirements FY 1993 N/A

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

TAB C - PART II
Page ___ **of** ___
UIC: _____

Table 2.1.b: Workload Requirements FY 1994 N/A

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

TAB C - PART II
 Page ___ of ___
 UIC: _____

Table 2.1.c: Workload Requirements FY 1995 N/A

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

TAB C - PART II
 Page ___ of ___
 UIC: _____

Table 2.1.d: Workload Requirements FY 1996 N/A

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

TAB C - PART II
Page ___ of ___
UIC: _____

Table 2.1.e: Workload Requirements FY 1997 N/A

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

TAB C - PART II
 Page ___ of ___
 UIC: _____

Table 2.1.f: Workload Requirements FY 1998 N/A

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

TAB C - PART II
 Page ___ of ___
 UIC: _____

Table 2.1.g: Workload Requirements FY 1990 N/A

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

TAB C - PART II
 Page ___ of ___
 UIC: _____

Table 2.1.h: Workload Requirements FY 2000 N/A

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

TAB C - PART II
Page ___ of ___
UIC: _____

Table 2.1.i: Workload Requirements FY 2001 N/A

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

TAB C - PART II
 Page ___ of ___
 UIC: _____

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

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

TAB C - PART II
Page ____ of ____
UIC: _____

Table 2.2.a: Directed Workloads - FY 1993 N/A

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

TAB C - PART II
 Page ___ of ___
 UIC: _____

Table 2.2.b: Directed Workloads - FY 1994 N/A

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

TAB C - PART II
 Page ___ of ___
 UIC: _____

Table 2.2.c: Directed Workloads - FY 1995 N/A

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

TAB C - PART II
Page ___ of ___
UIC: _____

Table 2.2.d: Directed Workloads - FY 1996 N/A

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

TAB C - PART II
 Page ___ of ___
 UIC: _____

Table 2.2.e: Directed Workloads - FY 1997 N/A

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

TAB C - PART II
 Page ___ of ___
 UIC: _____

Table 2.2.f: Directed Workloads - FY 1998 N/A

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

TAB C - PART II
 Page ___ of ___
 UIC: _____

Table 2.2.g: Directed Workloads - FY 1999 N/A

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

TAB C - PART II
 Page ___ of ___
 UIC: _____

Table 2.2.h: Directed Workloads - FY 2000 N/A

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

TAB C - PART II
Page ___ of ___
UIC: _____

Table 2.2.i: Directed Workloads - FY 2001 N/A

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

TAB C - PART II
 Page ___ of ___
 UIC: _____

3. Organization

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

TAB C - PART II
Page ___ **of** ___
UIC: _____

TAB D

ORDNANCE STORAGE CAPACITY

NOTE: (1) TAB D applies to AFWTF (UIC 0017A) only for item 1.5. AFWTF maintains no ordnance storage capacity. All such capacity is part of the host Naval Station, Roosevelt Roads, Puerto Rico (UIC 00389). Such data shall be reported out in their response to NAVSTA based Data Calls.

ORDNANCE STORAGE CAPACITY

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

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

1. Ordnance Stowage and Support

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

Table 1.1: Total Facility Ordnance Stowage Summary

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

NOTE: (1) AFWTF does not store ordnance material.
(2) Not applicable to AFWTF.

TAB D
UIC: 0017A

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

NOTE: (1) Not applicable to AFWTF. AFWTF is not operating with any restrictions.

TAB D
UIC: 0017A

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

Table 1.5: Related Ordnance Support

Related Functions	Performed? (Y / N)	Type of Commodity	DLMHs
Maintenance (specify level) IMA	Y	TORPEDO'S	27,750
	Y	AQM-37	4,625
	Y	BQM-34	11,100
	Y	BQM-74	12,025
Testing	Y	TORPEDO'S	N/A
	Y	AQM-37	N/A
	Y	BQM-34	N/A
	Y	BQM-74	N/A
Manufacturing	N	N/A	N/A
	N	N/A	N/A
	N	N/A	N/A
	N	N/A	N/A
Outload	Y	TORPEDO (EXER)	N/A
	Y	AQM-37	N/A
	Y	BQM-34	N/A
	Y	BQM-74	N/A
Technical Support	Y	TORPEDO'S	N/A
	Y	AQM-37	N/A
	Y	BQM-34	N/A
	Y	BQM-74	N/A

Note: See REMARKS on next page.

REMARKS: IMA maintenance level includes build-up, testing, launching, outload or upload.

TAB D
UIC: 0017A

and technical support. Ordnance material includes cads, squids, explosive bolts, flares, ignitors, jato bottles, rocket motors, grain propellant, OTTO fuel II, and hypergolic fuel. All units remain stored in Naval Station Roosevelt Roads, Puerto Rico facilities before and after handling..

TAB D
UIC: 0017A

AFWTF ROOSEVELT ROADS UIC 0017A
DATA CALL FOUR

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

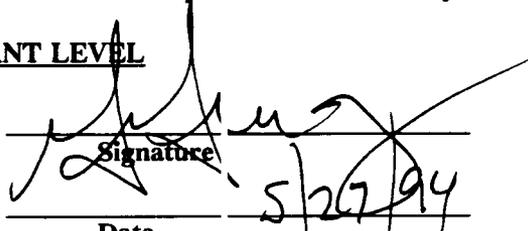
Date

Activity

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

MAJOR CLAIMANT LEVEL

H. H. MAUZ, JR.
NAME (Please type or print)


Signature

Admiral
Title Commander in Chief
U.S. Atlantic Fleet

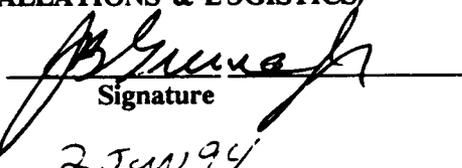
Date 5/27/94

Activity

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

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

J. B. GREGG, JR.
NAME (Please type or print)


Signature

ACTING
Title

Date 2 JUN 94

Activity: 0017A

Reference: SECNAVNOTE 11000 of 08 December 1990

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 "

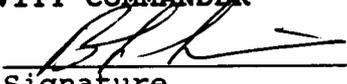
The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

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

ACTIVITY COMMANDER

B. L. LINER, CAPT, USN
Name


Signature

Commanding Officer
Title

4 MAY 94
Date

AFWTF (UIC 0017A)
Activity

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

NEXT ECHELON LEVEL (if applicable)

T. S. THERRELL
Name (Please type or print)

CHIEF OF STAFF
Title

COMMANDER FLEET AIR CARIBBEAN
Activity

J. S. Shuell
Signature

4 May 1994
Date

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

NEXT ECHELON LEVEL (if applicable)

L.P. LALLI
Name (Please type or print)

ACTING
Title

COMMANDER NAVAL AIR FORCE
Activity U.S. ATLANTIC FLEET

L.P. Lalli
Signature

5/6/94
Date

I certifying 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 certifying 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

Activity

Signature

Date

169

DATA CALL 65 UIC: 0017A
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

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

Activity Name:	AFWTF
UIC:	0017A
Major Claimant:	CINCLANTFLT

General Instructions/Background:

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

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

DATA CALL 65 UIC: 0017A
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

General Instructions/Background (Continued):

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

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

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

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

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

1. Workforce Data

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

Average Appropriated Fund Civilian Salary Rate:	\$45,445.00
--	--------------------

Source of Data (1.a. Salary Rate):	AFWTF FY 95/96 BUDGET SUBMISSION
---	---

DATA CALL 65 UIC: 0017A
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

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

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

County of Residence ¹	State	No. of Employees Residing in County		Percentage of Total Employees	Average Distance From Base (Miles)	Average Duration of Commute (Minutes)
		Military	Civilian			
FAJARDO	PR	15	12	23.5	7.8	21.5
SAN JUAN	PR	0	6	5.2	45	75
HUMACAO	PR	0	4	3.5	25	40
CEIBA	PR	11	4	13.0	2.9	11.7
CAROLINA	PR	0	5	4.3	35	60
LUQUILLO	PR	3	0	2.6	15	23.3
OTHER	PR	5	6	9.6	38.5	68.2
LIVING ON BASE NAVSTA ROOSEVELT ROADS	PR	44	0	38.3	N/A	5.0

= 100%

¹Puerto Rico does not have counties. Listed are municipalities.

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

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

Government housing is onboard NAVSTA Roosevelt Roads. AFWTF has 44 military personnel living onboard NAVSTA Roosevelt Roads.

DATA CALL 65 UIC: 0017A
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Source of Data (1.b. 1) & 2) Residence Data): Personnel Survey of June 94

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 ¹	Distance from base (miles)
San Juan		45
Carolina		35

Source of Data (1.c. Metro Areas): 1990 Census

¹Puerto Rico does not have counties. Listed are municipalities.

DATA CALL 65 UIC: 0017A
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

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

Age Category	Number of Employees	Percentage of Employees
16 - 19 Years	0	0
20 - 24 Years	0	0
25 - 34 Years	2	5
35 - 44 Years	15	41
45 - 54 Years	18	49
55 - 64 Years	0	0
65 or Older	2	5
TOTAL	37	100 %

Source of Data (I.d.) Age Data): Personnel Survey of June 94

DATA CALL 65 UIC: 0017A
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

e. Education Level of Civilian Workforce

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

Last School Year Completed	Number of Employees	Percentage of Employees
8th Grade or less	0	0
9th through 11th Grade	0	0
12th Grade or High School Equivalency	3	8
1-3 Years of College	14	38
4 Years of College (Bachelors Degree)	15	41
5 or More Years of College (Graduate Work)	5	13
TOTAL	37	100 %

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

Degree	Number of Civilian Employees
Terminal Occupation Program - Certificate of Completion, Diploma or Equivalent (for areas such as technicians, craftsmen, artisans, skilled operators, etc.)	0
Associate Degree	2
Bachelor Degree	15
Masters Degree	5
Doctorate	0

DATA CALL 65 UIC: 0017A
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Source of Data (1.e.1) and 2) Education Level Data): Personnel Survey of June 94

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

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

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

DATA CALL 65 UIC: 0017A
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

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

DATA CALL 65 UIC: 0017A
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Industry	SIC Codes	No. of Civilians	% of Civilians
5i. Legal Services	81	0	NA
5j. Educational Services	82	0	NA
5k. Social Services	83	0	NA
5l. Museums	84	0	NA
5m. Engineering, Accounting, Research & Related Services (includes RDT&E, ISE, etc.)	87	30	81.1
5n. Other Misc. Services	89	7	18.9
Sub-Total 5a. through 5n.:	70-89	37	100
6. Public Administration	91-97	0	NA
6a. Executive and General Government, Except Finance	91	0	NA
6b. Justice, Public Order & Safety (includes police, firefighting and emergency management)	92	0	NA
6c. Public Finance	93	0	NA
6d. Environmental Quality and Housing Programs	95	0	NA
Sub-Total 6a. through 6d.		0	NA
TOTAL		37	100 %

Source of Data (1.f.) Classification By Industry Data): Personnel Survey of Jun 94

DATA CALL 65 UIC: 0017A
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
1. Executive, Administrative and Management	0	NA
2. Professional Specialty	0	NA
2a. Engineers	15	40.54
2b. Architects and Surveyors	4	10.81
2c. Computer, Mathematical & Operations Research	0	NA
2d. Life Scientists	0	NA
2e. Physical Scientists	0	NA
2f. Lawyers and Judges	0	NA
2g. Social Scientists & Urban Planners	0	NA
2h. Social & Recreation Workers	0	NA
2i. Religious Workers	0	NA
2j. Teachers, Librarians & Counselors	0	NA
2k. Health Diagnosing Practitioners (Doctors)	0	NA
2l. Health Assessment & Treating (Nurses, Therapists, Pharmacists, Nutritionists, etc.)	0	NA

DATA CALL 65 UIC: 0017A
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Occupation	Number of Civilian Employees	Percent of Civilian Employees
2m. Communications	0	NA
2n. Visual Arts	3	8.11
Sub-Total 2a. through 2n.:	22	59.46
3. Technicians and Related Support	0	NA
3a. Health Technologists and Technicians	0	NA
3b. Other Technologists	0	NA
Sub-Total 3a. and 3b.:	0	NA
4. Administrative Support & Clerical	15	40.54
5. Services	0	NA
5a. Protective Services (includes guards, firefighters, police)	0	NA
5b. Food Preparation & Service	0	NA
5c. Dental/Medical Assistants/Aides	0	NA
5d. Personal Service & Building & Grounds Services (includes janitorial, grounds maintenance, child care workers)	0	NA
Sub-Total 5a. through 5d.	0	NA
6. Agricultural, Forestry & Fishing	0	NA
7. Mechanics, Installers and Repairers	0	NA
8. Construction Trades	0	NA
9. Production Occupations	0	NA
10. Transportation & Material Moving	0	NA
11. Handlers, Equipment Cleaners, Helpers and Laborers (not included elsewhere)	0	NA
TOTAL	37	100 %

DATA CALL 65 UIC: 0017A
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Source of Data (1.g.) Classification By Occupation Data): Personnel Survey of Jun 94

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

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

DATA CALL 65 UIC: 0017A
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

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

1. Percentage of Military Employees Who Are Married:	71.6
2. Percentage of Military Spouses Who Work Outside of the Home:	45.3
3. Break out of Spouses' Location of Employment (Total of rows 3a. through 3d. should equal 100% and reflect the number of spouses used in the calculation of the "Percentage of Spouses Who Work Outside of the Home").	
3a. Employed "On-Base" - Appropriated Fund:	41.7
3b. Employed "On-Base" - Non-Appropriated Fund:	12.5
3c. Employed "Off-Base" - Federal Employment:	25.0
3d. Employed "Off-Base" - Other Than Federal Employment	20.8

Source of Data (1.h.) Spouse Employment Data): Personnel Survey of June 94

DATA CALL 65 UIC: 0017A
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 UIC: 0017A
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

a. Table A: Ability of the local community to meet the expanded needs of the base. AFWTF is a tenant command of NAVSTA Roosevelt Roads. NAVSTA Roosevelt Roads will provide this information. See attachment.

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

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

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

DATA CALL 65 UIC: 0017A
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.

AFWTF is a tenant command of NAVSTA Roosevelt Roads. NAVSTA Roosevelt Roads will provide this information. See attachment

Source of Data (2.a. 1) & 2) - Local Community Table): N/A

DATA CALL 65 **UIC: 0017A**
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.

AFWTF is a tenant command of NAVSTA Roosevelt Roads.

NAVSTA Roosevelt Roads will provide this information. See attachment.

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

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

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

DATA CALL 65 **UIC: 0017A**
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.

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.
See attachment.**

Source of Data (2.b. 1) & 2) - Regional Table): N/A
--

DATA CALL 65 UIC: 0017A
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

3. Public Facilities Data:

AFWTF is a tenant command of NAVSTA Roosevelt Roads. NAVSTA Roosevelt Roads will provide this information. See attachment.

- 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:

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.**

Rental Units:

Units for Sale:

Source of Data (3.a. Off-Base Housing): N/A
--

DATA CALL 65 UIC: 0017A
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

b. **Education.** See attachment.

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).

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.**

School District	County	Number of Schools			Enrollment		Pupil-to-Teacher Ratio		Does School District Serve Gov't Housing Units? *
		Elementary	Middle	High	Current	Max. Capacity	Current	Max. Ratio	

* 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): N/A

DATA CALL 65 UIC: 0017A
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 :

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.**

Source of Data (3.b.3) Colleges): N/A
--

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:

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.**

Source of Data (3.b.4) Vo-tech Training): N/A
--

DATA CALL 65 UIC: 0017A
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

c. **Transportation.** See attachment

1) Is the activity served by public transportation?

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.**

	<u>Yes</u>	<u>No</u>
Bus:	___	___
Rail:	___	___
Subway:	___	___
Ferry:	___	___

Source of Data (3.c.1) Transportation): N/A

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.

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.**

Source of Data (3.c.2) Transportation): N/A

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.

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.**

DATA CALL 65 UIC: 0017A
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Source of Data (3.c.3) Transportation): N/A

4) How many carriers are available at this airport?

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.**

Source of Data (3.c.4) Transportation): N/A

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

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.**

Source of Data (3.c.5) Transportation): N/A

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.)

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.**

b) Do access roads transit residential neighborhoods?

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.**

DATA CALL 65 UIC: 0017A
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

c) Are there any easements that preclude expansion of the access road system?

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.**

d) Are there any man-made barriers that inhibit traffic flow (e.g., draw bridges, etc.)?

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.**

Source of Data (3.c.6) Transportation): N/A
--

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.

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.
See attachment**

Source of Data (3.d. Fire/Hazmat): N/A

e. **Police Protection.** See attachment.

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

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.**

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.

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.**

DATA CALL 65 UIC: 0017A
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

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

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.**

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.

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.**

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.

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.**

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

f. **Utilities.** See attachment

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.

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.**

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.

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.**

DATA CALL 65 UIC: 0017A
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

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.

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
 NAVSTA Roosevelt Roads will provide this information.**

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

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):

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
 NAVSTA Roosevelt Roads will provide this information.
 See attachment**

Employer	Product/Service	No. of Employees
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

Source of Data (4. Business Profile): N/A

DATA CALL 65 UIC: 0017A
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.f. (page 3), in the aggregate:

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.
See attachment**

- a. Loss of Major Employers:

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.**

- b. Introduction of New Businesses/Technologies:

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.**

- c. Natural Disasters:

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.**

- d. Overall Economic Trends:

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.**

Source of Data (5. Other Socio/Econ): N/A
--

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

**AFWTF is a tenant command of NAVSTA Roosevelt Roads.
NAVSTA Roosevelt Roads will provide this information.
See attachment.**

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

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

UIC 00389

Category	20% Increase	50% Increase	100% Increase
Off-Base Housing	A	A	A
Schools - Public	A	A	A
Schools - Private	A	A	A
- On base*	B	C	C
Public Transportation - Roadways	A	A	A
Public Transportation - Buses/Subways	A	A	A
Public Transportation - Rail	NONE	NONE	NONE
Fire Protection	A	A	A
Police	A	A	A
Health Care Facilities - Off base ¹	B	B	B
- On base*	A	B	B
Utilities:	A	A	A
Water Supply	A	A	A
Water Distribution	A	A	A
Energy Supply	A	A	A
Energy Distribution	A	A	A
Waste Water Collection	A	A	A
Waste Water Treatment	A	A	A
Storm Water Collection	A	A	A
Solid Waste Collection and Disposal	A	A	A
Hazardous/Toxic Waste Disposal	A	A	A
Recreational Activities	A	A	A

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

Copy of information referenced in Data Call 65, AFWTF, Question Table 2.a. Source document is Data Call 65, NS Roosevelt Roads.

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

UIC 00389

NOTE: This table reflects that the civilian work force component required for an increase in mission will most likely come from the local economy rather than another DON activity, due to high taxes, language barriers and unwillingness to relocate from stateside. The local economy can easily support an increase in DON employment opportunities. The military work force would be accommodated on base with construction. Refer to the "Comments on Non-CONUS Infrastructure Assessment" at the beginning of the table.

¹ The municipality of Ceiba does not currently have a community hospital and is very limited in the number of practicing physicians for the existing population. The U.S. Department of Health Services Health Care Financing Administration's 1991 Publication of the medicare directory lists five general medicine doctors, two gynecologists and one pediatrician. Although existing facilities are supporting the existing community, investment in health care is considered needed. Increase in staffing and equipment at the Navy Hospital as well as facility modifications would be required to meet increase in mission.

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.

Roosevelt Roads Elementary School (RRES) will be adding a preschool in September 1994. The addition of this new program will increase enrollment at RRES to well over 800 students. Since the facility has permanent classrooms for only 700 students, the remainder will utilize temporary facilities. Long range plans for RRES include a MILCON project in FY96 to expand the facility. Until that project is completed, RRES will not be able to accommodate an enrollment increase of 20% or more.

Roosevelt Roads Middle/High School (RRM/HS) could accommodate additional students in grades 9 to 12, while grades 6 to 8 are close to capacity. On the whole, however, RRM/HS would not be able to accommodate an enrollment increase of 20% or more.

Source of Data (2.a. 1) & 2) - Local Community Table): Market Survey for Available Rental Units of March 1992; Antilles Consolidated School System; Health Benefits Advisor, Naval Hospital Roosevelt Roads
--

Copy of information referenced in Data Call 65, AFM/TTF, Table 2.a
Source document is Data Call 65, NS Roosevelt Roads

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

UIC 00389

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.

The economic region consists of Ceiba, Fajardo, Humacao, Luquillo, Naguabo and Vieques.

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
- On base*	B	C	C
Public Transportation - Roadways	A	A	A
Public Transportation - Buses/Subways	A	A	A
Public Transportation - Rail	NONE	NONE	NONE
Fire Protection	A	A	A
Police	A	A	A
Health Care Facilities - Off base ¹	A	A	A
- On base*	A	B	B
Utilities:	A	A	A
Water Supply	A	A	A
Water Distribution	A	A	A
Energy Supply	A	A	A
Energy Distribution	A	A	A
Waste Water Collection	A	A	A
Waste Water Treatment	A	A	A

Copy of information referenced in Data Call 65, AFWTF, Table 2.b. Source document is Data Call 65, NS Roosevelt Roads.

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

UIC 00389

Category	20% Increase	50% Increase	100% Increase
Storm Water Collection	A	A	A
Solid Waste Collection and Disposal	A	A	A
Hazardous/Toxic Waste Disposal	A	A	A
Recreation Facilities	A	A	A

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

NOTE: This table reflects that the civilian work force component required for an increase in mission will most likely come from the local economy rather than another DON activity, due to high taxes, language barriers and unwillingness to relocate from stateside. The local economy can easily support an increase in DON employment opportunities. The military work force would be accommodated on base with construction. Refer to the "Comments on Non-CONUS Infrastructure Assessment" at the beginning of the table.

¹ There are Hospitals in Luquillo, Humacao and Fajardo which are within the defined support region. However, due to quality of care, size and specialty limitations, the preferred referral facilities are the private hospitals in San Juan and Caguas. The hospital in Fajardo, operated under contract, has been taken over by the Commonwealth. If desired improvements are made, it would be considered a referral facility. Although these health care facilities are supporting the existing communities, investment in health care is still considered needed.

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.

Roosevelt Roads Elementary School (RRES) will be adding a preschool in September 1994. The addition of this new program will increase enrollment to well over 800 students. Since the facility has permanent classrooms for only 700 students, the remainder will utilize temporary facilities. Long range plans for RRES include a MILCON project in FY96 to expand the facility. Until that project is completed, RRES will not be able to accommodate an enrollment increase of 20% or more.

Roosevelt Roads Middle/High School (RRM/HS) could accommodate additional students in grades 9 to 12, while grades 6 to 8 are close to capacity. On the whole, however, RRM/HS would not be able to accommodate an enrollment increase of 20% or more.

Copy of information referenced in Data Call 65, AFVTF, Table 2b
Source document is Data Call 65, NS Roosevelt Roads.

DATA CALL 65 UIC 00389
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Source of Data (2.b. 1) & 2) - Regional Table): Market Survey for Available Rental Units of March 1992; ACSS; Health Benefits Advisor, Naval Hospital Roosevelt Roads

3. Public Facilities Data:

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

Rental Units: Ceiba - 10%
 Fajardo - 17%
 Humacao - 13%
 Luquillo - 28%
 Naguabo - 12%

Units for Sale: 3-7%

NOTE: The above rental unit percentage reflects adequate housing for the local economy (i.e., civilian work force). However, standards do not match stateside in terms of air conditioning, security and size.

Source of Data (3.a. Off-Base Housing): Rental Market Survey of March 92, prepared by LANTNAVFACENCOM; 1990 Census on Housing Eastern PR, DD11377, Family Housing Survey of Jan 91. Units for sale data was obtained from T & L Realty and BV Realty.

Copy of information referenced in Data Call 65, AFWTF, Question 3.a
Source document is Data Call 65, NS Roosevelt Roads.

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

UIC 00389

b. Education.

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

School District	County	Number of Schools			Enrollment		Pupil-to-Teacher Ratio		Does School District Serve Govt Housing Units? *
		Elementary	Middle	High	Current	Max Capacity	Current	Max Ratio	
Humacao	Ceiba	4	1	1	2,357 ¹	4,935	17:1 ²	35:1	No
Humacao	Luquillo	8	2	1	3,105 ¹	5,915	18:1 ²	35:1	No
Humacao	Fajardo	10	2	1	6,134 ¹	13,300	16:1 ²	35:1	No
Humacao	Naguabo	13	4	1	4,561 ¹	7,945	20:1 ²	35:1	No
Humacao	Humacao	22	8	3	11,180 ¹	20,230	19:1 ²	35:1	No
Humacao	Vieques	10	22	1	2,105 ¹	4,305	17:1 ²	35:1	No
ACSS ³	Ceiba on Base	1	NA	NA	702	750	14:1	14:1	Yes
ACSS ³	Ceiba on Base	NA	1	1	387	420	11:1	13:1	Yes

Copy of information referenced in Data Call 65, AFWTF, Question 3.b.1
Source document is Data Call 65, NS Roosevelt Roads.

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

UIC 00389

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

¹ Current enrollment is based on September 1993, since enrollment for school year 1994-95 is incomplete.

² Ratio is the average of urban and rural schools. Pupil-to-Teacher ratio is higher in urban schools and lower in rural schools.

³ Antilles Consolidated School Systems

Source of Data (3.b.1) Education Table): Commonwealth of Puerto Rico (CWPR) Department of Education and Antilles Consolidated School Systems (ACSS)

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

Yes. As shown on Table 3.b.1, there are two Section 6 schools, the Roosevelt Roads Elementary School and the Roosevelt Roads Middle/High School with a current enrollment of 702 and 387 students, respectively.

Source of Data (3.b.2) On-Base Schools): Commonwealth of Puerto Rico (CWPR) Department of Education and Antilles Consolidated School Systems (ACSS)

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 :

Humacao: Universidad de Puerto Rico (Colegio de Humacao)
International College of Business & Technology
Humacao Community College

Fajardo: Universidad Interamericana (Recinto de Fajardo)
Humacao Community College (Centro de Fajardo)

Naguabo: Universidad del Turabo (Centro de Extramuro de Naguabo)

NOTE: The majority of the classes taught at the above Universities are in Spanish.

Copy of information referenced in Data Call 65, AFWT, Questions 3.a.2 and 3.b.3. Source document is Data Call 65, NS Roosevelt Roads.

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

UIC 00389

Source of Data (3.b.3) Colleges): Commonwealth of Puerto Rico (CWPR) Consejo de Educacion Superior

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

- Humacao:** Escuela Superior Vocacional (Electronics, Auto Mechanics, Carpentry, Auto Body Repair)
Academia de Belleza Oriente (Cosmetology)
International Business College
American City College (Cosmetology, Basic Computer Class, Hair Styling, Bartender)
Centro de Estudios Multidisciplinarios (Medical Emergencies, Practical Nurse, Pharmacist Aid, Florist, Fashion Designer)
Instituto Fotografico y Tecnologico de Carolina (Photography (Basic, Professional), Basic Sewing)
Instituto Politecnico del Este, Inc. (Hair Styling, Cosmetology)
Rogie School of Beauty Culture (Cosmetology Hair Styling, Basic Computer, Basic and Advanced Sewing)
- Fajardo:** Escuela Vocacional Francisco C. Vigil (Auto Mechanics, Cosmetology, Carpentry)
Modern Hairstyling Institute (Cosmetology, Hair Styling)
Puerto Rico Barber College (Cosmetology, Advanced Cosmetology, Hair Styling)
National Computer College (Tourism, Dental Assistance, Secretary, Computer Programming, Accounting)
Instituto de Banca (Bank Clerk, Accounting)

NOTE: The majority of the classes taught at the vocational/technical training schools of Puerto Rico are in spanish.

Source of Data (3.b.4) Vo-tech Training): Commonwealth of Puerto Rico (CWPR) Department of Education, National Computer College

Copy of information referenced in Data Call 65, AFWTF, Question 3.b.4
Source document is Data Call 65, NS Roosevelt Roads.

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

UIC 00389

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>

Source of Data (3.c.1) Transportation): NAVSTA Roosevelt Roads PWO

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.

There are no passenger railroads in Puerto Rico.

Source of Data (3.c.2) Transportation): NAVSTA Roosevelt Roads PWO

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.

a) Luis Munoz Marin International Airport: located on the town of Carolina 37 miles northwest of Naval Station.

b) Diego Jimenez Torres Regional Airport: located on the town of Fajardo 5 miles north of Naval Station. Serves local commuter airlines, cannot service large aircraft.

Source of Data (3.c.3) Transportation): Puerto Rico Ports Authority

4) How many carriers are available at this airport?

DATA CALL 65 UIC 00389
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

There are ten USA and ten foreign airlines at Luis Munoz Marin International Airport. At Diego Jimenez Torres Regional Airport there are four commuter airlines.

Source of Data (3.c.4) Transportation): Puerto Rico Ports Authority

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

Currently, the nearest interstate, PR52, is approximately 3 miles from the Naval Base. Puerto Rico Route #3 is the nearest 2/4 lane major road and is less than one mile from our main gate. A limited access highway, PR51, (commonly known as PR3 relocation) is currently under construction and is approximately 2 miles from NAVSTA main gate with a major interchange at less than one fourth of a mile from Gate #3.

Source of Data (3.c.5) Transportation): Puerto Rico Highway Authority

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.)

Existing PR3, the primary access to the base, is currently operating close to capacity during peak periods. PR53, currently under construction will relieve peak period congestion.

b) Do access roads transit residential neighborhoods?

There are no access roads which transit neighborhoods.

c) Are there any easements that preclude expansion of the access road system?

Copy of information referenced in Data Call 65, AFWTF, Questions 3.c.4 and 3.c.5. Source document is Data Call 65, NS Roosevelt Roads.

DATA CALL 65 **UIC 00389**
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

No. One additional lane could be added to the access road to Gate #3 within our current easement.

d) Are there any man-made barriers that inhibit traffic flow (e.g., draw bridges, etc.)?

There are no man made barriers that inhibit traffic flow.

Source of Data (3.c.6) Transportation): Puerto Rico Highway Authority.

- 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.

NAVSTA has a mutual aid fire fighting assistance agreement with Puerto Rico fire service under NAVSTAROOSRDSINST 11320.4C.

Per Executive Order 12856 and the Emergency Planning and Community Right to Know Act, information on hazardous materials stored on base is provided to the State Emergency Response Commission, Local Emergency Planning Coordinator for Zone 8, Humacao; and the Civil Defense (CD) Zone 9, Carolina. CD personnel of Zones 8 and 9 respond to hazardous material incidents in Ceiba and Vieques Island, respectively. NAVSTA Roosevelt Roads is included in the emergency plan for the town of Ceiba.

Source of Data (3.d. Fire/Hazmat): Air Ops Dept/Fire Division, Roosevelt Roads, Environmental Engineering Division, PWD.

- e. **Police Protection.**

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

Based upon historical documents, legislative, and case law, the property comprising U.S. NAVSTA Roosevelt Roads is held in exclusive federal jurisdiction.

Copy of information referenced in Data Call 65, AFYTF, Questions 3.c.6 and 3.d. Source document is Data Call 65, NS Roosevelt Roads.

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

UIC 00389

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.

Not Applicable. There is only one level of legislative jurisdiction.

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

No. There is no specific written agreement with local law enforcement concerning the provision of local police protection.

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.

Not Applicable. No agreements exist.

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.

Military law enforcement officials are not routinely augmented by officials of other federal agencies in the course of day-to-day operations. However, under certain unique circumstances (i.e., terrorist threat, or major drug seizure, etc.) Naval Criminal Investigative Service notifies the Federal Bureau of Investigation or U.S. Customs or Drug Enforcement Agency officials.

Source of Data (3.e. 1) - 5) - Police): Security Department, NAVSTA Roosevelt Roads

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.

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

UIC 00389

No. One additional lane could be added to the access road to Gate #3 within our current easement.

d) Are there any man-made barriers that inhibit traffic flow (e.g., draw bridges, etc.)?

There are no man made barriers that inhibit traffic flow.

Source of Data (3.c.6) Transportation): Puerto Rico Highway Authority.

- 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.

NAVSTA has a mutual aid fire fighting assistance agreement with Puerto Rico fire service under NAVSTAROOSRDSINST 11320.4C.

Per Executive Order 12856 and the Emergency Planning and Community Right to Know Act, information on hazardous materials stored on base is provided to the State Emergency Response Commission, Local Emergency Planning Coordinator for Zone 8, Humacao; and the Civil Defense (CD) Zone 9, Carolina. CD personnel of Zones 8 and 9 respond to hazardous material incidents in Ceiba and Vieques Island, respectively. NAVSTA Roosevelt Roads is included in the emergency plan for the town of Ceiba.

Source of Data (3.d. Fire/Hazmat): Air Ops Dept/Fire Division, Roosevelt Roads, Environmental Engineering Division, PWD.

- e. **Police Protection.**

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

Based upon historical documents, legislative, and case law, the property comprising U.S. NAVSTA Roosevelt Roads is held in exclusive federal jurisdiction.

Copy of information referenced in Data Call 65, AFWTF, Questions 3.c.6 and 3.d. Source document is Data Call 65, NS Roosevelt Roads.

DATA CALL 65 UIC 00389
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

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.

Not Applicable. There is only one level of legislative jurisdiction.

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

No. There is no specific written agreement with local law enforcement concerning the provision of local police protection.

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.

Not Applicable. No agreements exist.

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.

Military law enforcement officials are not routinely augmented by officials of other federal agencies in the course of day-to-day operations. However, under certain unique circumstances (i.e., terrorist threat, or major drug seizure, etc.) Naval Criminal Investigative Service notifies the Federal Bureau of Investigation or U.S. Customs or Drug Enforcement Agency officials.

Source of Data (3.e. 1) - 5) - Police): Security Department, NAVSTA Roosevelt Roads
--

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.

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

UIC 00389

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

Employer	Product/Service	No. of Employees
1. Commonwealth of Puerto Rico	Government Services	9,000 - 10,000
2. El Conquistador Resort	Tourism	1,000 - 2,000
3. U.S. Federal Government	Government Services	1,000 - 1,200 ¹
4. Bristol-Myers Squibb Co.	Pharmaceutical	500 - 1,000
5. Alcon (Puerto Rico), Inc.	Pharmaceutical	300 - 500
6. Tonka Footwear Co., Inc	Footwear	300 - 500
7. Warner Lambert, Inc.	Pharmaceutical	300 - 500
8. Caribe General Electric	Miscellaneous electrical	300 - 500
9. Stanric, Inc.	Auto parts	300 - 500
10. Pall Biomedical, Inc	Filters	300 - 500

¹Civil service only.

<p>Source of Data (4. Business Profile): CWPR Economic Development Administration (EDA)</p>
--

Copy of information referenced in Data Call 65, AFWTF, Question 4. Source document is Data Call 65, NS Roosevelt Roads.

DATA CALL 65 UIC 00389
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:

From January 1990 to May 1994, thirty-four small businesses in the local area closed their operation, resulting in a net loss of approximately 700 jobs.

b. Introduction of New Businesses/Technologies:

From January 1990 to May 1994, thirty-nine manufacturers created over 2,000 new jobs in the area.

c. Natural Disasters:

In September 1989 hurricane Hugo caused severe regional damage. The recovery resulted in multimillion dollar investment in the area by both Federal and State government as well as private sector. The Federal government invested approximately \$100 million in the recovery program which generated approximately 1500 jobs under ongoing construction contracts.

d. Overall Economic Trends:

The Puerto Rico economy has recovered from the worst effects of the recession. Real gross national product (GNP) growth was 3.1 percent in FY 1993 (ending June 30) after rates of 0.8 percent and 1.1 percent in FYs 1991 and 1992, respectively. The Planning Board has projected growth to be 2.9 percent for FY 1994 and 3.0 percent for FY 1995.

The unemployment rate fell to 13.7 percent in May 1994 compared to 17.3 percent in May of the previous year. However, most of this change was due to a reduction in the number of persons actively looking for work (-43,000) rather than increased employment (+7,000).

There are a number of uncertainties that cloud the outlook for the future of the economy. Changes to Section 936 of the U.S. Internal Revenue Code have significantly reduced the after-tax rate of return for U.S. corporate investors in Puerto Rico's manufacturing sector. These changes are being phased in between 1994 and 1998. Many companies are still examining their alternatives and the final net effects on the Puerto Rico economy will not be known for several years. Since

Copy of information referenced in Data Call 65, AFWTR, Question 5.
Source document is Data Call 65, NS Roosevelt Roads

DATA CALL 65 **UIC 00389**
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

the main source of new jobs and investment in Puerto Rico's manufacturing sector has been pharmaceutical and medical instruments, the uncertainty concerning reform of U.S. health care industry adds an important additional layer of uncertainty to Puerto Rico's economic prospects.

The impact of the passage of the North American Free Trade Agreement (NAFTA) is probably partly responsible for a decline in employment in apparel manufacturing in Puerto Rico. Employment in this sector fell from 29 thousand in January 1993 to 26 thousand in March 1994. Further effects from NAFTA, and from future General Agreement on Trade and Tariff (GATT) liberalizations may adversely impact such labor intensive sectors as apparel, leather goods and tuna canning in Puerto Rico.

Source of Data (5. Other Socio/Econ): Commander, Fleet Air Caribbean (CFAC) Public Affairs Office (PAO), CWPR EDA, Island of Vieques Memorandum of Understanding, Supply Department.

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

Naval Station Roosevelt Roads provides indirect employment to approximately 2,000 people through non-appropriated funds, construction and service contracts.

Through the Small Purchase Program, NAVSTA purchases close to \$8 000,000 per year. Approximately 92% of these acquisitions are distributed among the Island market to small and disadvantaged business.

The following contributions by Naval Station are to the island of Vieques at no cost:

Provides 164 acres for use of a ball field, recreation and conservation areas.

Repairs roads throughout the Municipality.

Provides the use of Building No. 300 to support Vieques Sea Cadets activities.

Authorizes Puerto Rico Ports Authority to use Mosquito Pier.

Provided a 3.05 acres of land easement for expansion of the Vieques Airport.

Copy of information referenced in Data Call 65, AFWTF, Question 6
Source document is Data Call 65, NS Roosevelt Roads.

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

UIC 00389

Developed and financed a re-forestation project at Vieques Island to encourage economic development.

Over 1,000 acres of land made available through lease to Agro-Vieques, Inc. for agricultural/grazing purposes.

Established and monitored conservation zones for the protection of 15 threatened/endangered species.

Commander Fleet Air, Caribbean, headquartered at Naval Station Roosevelt Roads, receives Overseas Navy Relation Funds in the amount of \$22,000 annually to support communities in the AOR. Ninety percent of this money is used in Puerto Rico. These support projects have included the following:

Constructed playground at an orphanage in Naguabo and rehabilitated orphanage.

Provided Thanksgiving meals to shut-ins and senior citizens at area nursing homes.

Adopted Ceiba's Parcellis Elementary School and repaired windows, floors and painted interior of the school.

Repaired facilities, side walks, and constructed benches at local parks

Painted the interior and exterior of Ceiba municipal gymnasium.

Bi-annually conducted children's medical/dental screening examinations for school children at Vieques.

Hosted annual Christmas parties for underprivileged children in Ceiba, Naguabo, Fajardo and Vieques, and donated gifts.

Hosted Puerto Rico-wide Boy Scouts camporee, and Girl Scouts camp outs on base property and base facilities.

<p>Source of Data (6. Other): CFAC PAO, NAVSTA ROOSRDS PAO; Navy Exchange; Morale Welfare & Recreation Department; Facilities Support Contracts Division, PWD; AFWTF (COTAR Contract); and Resident Officer in Charge of Construction, Puerto Rico Area</p>
--

AFWTF UIC N0017A
DATA CALL SIXTY-FIVE

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

RADM H. W. GEHMAN, JR.

NAME (Please type or print)

H.W. Gehman, Jr.
Signature

Acting

Title Commander in Chief

U.S. Atlantic Fleet

125 AUG 1994
Date

Activity

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

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

W. A. EARNER

NAME (Please type or print)

W. A. Earner
Signature

Title

8/24/94
Date

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

NEXT ECHELON LEVEL (if applicable)

E. E. CHRISTENSEN
Name (Please type or print)

E. E. Christensen
Signature

COMMANDER
Title

Date

COMMANDER FLEET AIR, CARIBBEAN
Activity

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

NEXT ECHELON LEVEL (if applicable)

VADM Richard C. Allen
Name (Please type or print)

R. C. Allen
Signature

COMMANDER
Title

4 August 1994
Date

Naval Air Force, U.S. Atlantic Fleet
Activity

I certifying 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)

Signature

Title

Date

Activity

I certifying 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)

Signature

Title

Date

Activity

Activity: 0017A

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.

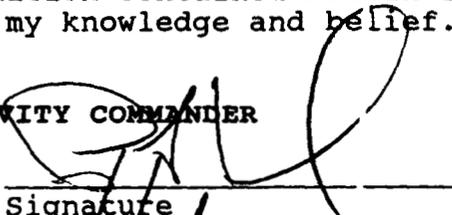
Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain those certifications at your activity for audit purposes. For purposes 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 certifying that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

P. A. MAHONEY, CDR, USN, ACTING

Name


Signature

Commanding Officer

Title

2/6/94
Date

AFWTF (UIC 0017A)

Activity

Encl (2)

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

Jack E. Buffington
Signature
7/13/94
Date

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

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

W. A. EARNER

NAME (Please type or print)

Title

W. A. Earner
Signature:
7/18/94
Date

BRAC-95 CERTIFICATION

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

MARK E. DONALDSON
NAME (Please type or print)


Signature

CDR, CEC, USN
Title

12 July 1994
Date

MILCON PROGRAMMING DIVISION
Division

FACILITIES PROGRAMMING AND CONSTRUCTION DIRECTORATE
Department

NAVAL FACILITIES ENGINEERING COMMAND
Activity

Enclosure (1)

BRAC DATA CALL NUMBER 64
CONSTRUCTION COST AVOIDANCE

Information on cost avoidance which could be realized as the result of cancellation of on-going or programmed construction projects is provided in Tables 1 (MILCON) and 2 (FAMILY HOUSING). These tables list MILCON/FAMILY HOUSING projects which fall within the following categories:

1. all programmed construction projects included in the FY1996 - 2001 MILCON/FAMILY HOUSING Project List,
2. all programmed projects from FY1995 or earlier for which cost avoidance could still be obtained if the project were to be canceled by 1 OCT 1995, and,
3. all programmed BRAC MILCON/FAMILY HOUSING projects for which cost avoidance could still be obtained if the project were to be canceled by 1 OCT 1995.

Projects listed in Tables 1 and 2 with potential cost avoidance were determined as meeting any one of the following criteria:

Projects with projected Work in Place (WIP) less than 75% of the Current Working Estimate (CWE) as of 1 OCT 1995 .

Projects with projected completion dates or Beneficial Occupancy Dates subsequent to 31 March 1996.

Projects with projected CWE amount greater than \$15M.

The estimated cost avoidance for projects terminated after construction award would be approximately one-half of the CWE for the remaining work. Close-out, claims and other termination costs can consume the other half.

169

**DATA CALL 63
FAMILY HOUSING DATA**

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

Installation Name:	LNTFLTWEAPTRAFAC
Unit Identification Code (UIC):	N0017A
Major Claimant:	CINCLANTFLT

Percentage of Military Families Living On-Base:	69.56%
Number of Vacant Officer Housing Units:	0
Number of Vacant Enlisted Housing Units:	0
FY 1996 Family Housing Budget (\$000):	\$320.2
Total Number of Officer Housing Units:	13
Total Number of Enlisted Housing Units:	31

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.

The number of officer and enlisted units reflected above are this activity's share of the family housing assets in the total survey complex, based on data extracted from the FY96 Family Housing Survey (DD Form 1377) and the Current Personnel Summary. These units are not necessarily located at this particular activity. If this activity were to close, the housing assets could still be utilized by other activities located in the survey complex.

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

MAJOR CLAIMANT LEVEL

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

Jack Buffington
Signature

COMMANDER
Title

7/20/94
Date

NAVAL FACILITIES ENGINEERING COMMAND
Activity

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

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

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

W. A. Earner
Signature

Title

7/25/94
Date

BRAC-95 CERTIFICATION

Reference: SECNAV NOTE 11000 dtd 8 Dec 93

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

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

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (1) is provided for individual certifications and may be duplicated as necessary. You are directed to maintain these 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

THOMAS A. DAMES

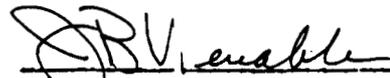
NAME (Please type of print)

Rear Admiral, CEC, USN

Title

LANTNAVFACENCOM

Activity

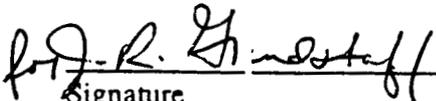

Signature J.B. VENABLE
Acting
Date JUL 06 1994

ENCLOSURE(2)

BRAC-95 CERTIFICATION

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

 Paulette C. Brown
Name (Please type or print)

 P. J. R. Hindstaff
Signature

Head, Operations & Projects Branch
Title

7-6-94
Date

Housing Division
Division

Facilities Management
Department

LANTNAVEACENCOM
Activity

BRAC-95 CERTIFICATION

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

J. Richard Grindstaff
Name (Please type or print)

J. Richard Grindstaff
Signature

Head, Requirements & Acquisition Branch
Title

7-6-98
Date

Housing Division
Division

Facilities Management
Department

LANTNAVFACENGCOM
Activity

BRAC-95 CERTIFICATION

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

Mark D. Raker
Name (Please type or print)

Mark D. Raker
Signature

Housing Management Specialist
Title

7/6/94
Date

Housing Division
Division

Facilities Management
Department

LANTNAVFACENGCOM
Activity

BRAC-95 CERTIFICATION

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

for Moses L. Meadows
Name (Please type or print)

for J. Richard Hundstett
Signature

Director
Title

7-6-99
Date

Housing Division
Division

Facilities Management
Department

LANTNAVFACENGCOM
Activity

FOR OFFICIAL USE ONLY

Department of Defense

**1995 Base Realignment and Closure
T&E Joint Cross-Service Group Data
Guidance**

March 31, 1994

FOR OFFICIAL USE ONLY

FOR OFFICIAL USE ONLY

T&E JOINT CROSS-SERVICE GROUP DATA GUIDANCE

SECTION 1: GUIDANCE, STANDARDS, AND ASSUMPTIONS

- 1.1 GUIDANCE**
 - 1.1.A Guidance for Identification of Test and Evaluation (T&E) Facilities/Capabilities**
 - 1.1.B Guidance for Military Department Data Collection**
 - 1.1.C Guidance for Military Department Data Analysis**
- 1.2 ASSUMPTIONS**
- 1.3 FUNCTIONAL AREAS**
 - 1.3.A Air Vehicles**
 - 1.3.B Electronic Combat (EC) Systems**
 - 1.3.C Armaments/Weapons**

SECTION 2: CAPACITY & TECHNICAL RESOURCES

- 2.1 WORKLOAD**
 - 2.1.A Historical Workload**
 - 2.1.B Forecasted Workload**
- 2.2 UNCONSTRAINED CAPACITY**
- 2.3 TECHNICAL RESOURCES**

SECTION 3: MEASURES OF MERIT

- 3.1 OVER-ARCHING MEASURES OF MERIT**
 - 3.1.A Interconnectivity**
 - 3.1.B Facility Condition**
 - 3.1.C Environmental and Encroachment Carrying Capacity**
 - 3.1.D Specialized Test Support Facilities and Targets**
 - 3.1.E Expandability**
 - 3.1.F Uniqueness**
 - 3.1.G Available Air, Land, and Sea Space**
 - 3.1.H Geographic/Climatological Features**
- 3.2 AIR VEHICLES**
 - 3.2.A Supersonic Airspace**
 - 3.2.B Airfield and Facility Characteristics**
 - 3.2.C Test Operations**
- 3.3 ELECTRONIC COMBAT**
 - 3.3.A Threat Environment**
 - 3.3.B Test Article Support**
- 3.4 ARMAMENTS/WEAPONS**
 - 3.4.A Directed Energy**
 - 3.4.B Rocket/Missile/Bomb Systems**

FOR OFFICIAL USE ONLY

T&E JOINT CROSS-SERVICE GROUP

SECTION 1: GUIDANCE, STANDARDS, AND ASSUMPTIONS

The Military Departments will use the following information for data collection on each facility that has performed T&E and is still capable of performing T&E within the three functional areas of air vehicles, electronic combat, and armaments/weapons for any component (hardware or software), subsystem, system, or platform. Guidance is provided on conducting a cross-service analysis.

1.1 GUIDANCE

1.1.A Guidance for Identification of Test and Evaluation (T&E) Facilities / Capabilities

1.1.A.1 Scope

All DoD installations will be examined to identify facilities that have and are still capable of performing T&E within the three functional areas of air vehicles, electronic combat, and armaments/weapons.

All facilities (tenant and host on the installation) owned by DoD are within scope of this examination.

The Military Departments and Defense Agencies are responsible for submitting the data.

The scope of this examination will include T&E facilities that are funded from any funding source and appropriation (RDT&E, procurement, O&M, training, etc.).

FOR OFFICIAL USE ONLY

FOR OFFICIAL USE ONLY

1.1.A.2 T&E Facilities / Capabilities

The definition of a T&E facility/capability to be used for purposes of data collection will be a set of DoD-owned or controlled property (air/land/sea space) or any collection of equipment, platforms, ADPE or instrumentation that can conduct a T&E operation and provide a deliverable T&E product.

The T&E facility can support T&E of components through systems platforms or missions in the following functional areas: air, land, sea, space, C4I, armaments/weapons, electronic combat, nuclear effects, chem/bio, propulsion, environmental effects, guidance, and materials.

The T&E facilities will be grouped under one of the following test facility categories: modeling and simulation, measurement, integration laboratory, hardware-in-the-loop, installed systems, or open air (See Appendix A for definitions). It will typically consist of all of the following components: data collection sensors and instrumentation, data reception and storage, data processing, and data display and reporting.

The scope will include T&E operations from all funding sources (RDT&E, procurement, O&M, training, etc.).

1.1.B Guidance for Military Department Data Collection

The Military Departments will use the T&E facility/capability definitions included within this data call package. In your descriptions of facility technical capabilities include programmed investments/upgrades in Military Department or Defense Agency 1995 Future Years Defense Plan (FY95 FYDP) in support of the President's Budget (PB95). When calculating capacity data, use the guidelines/definitions included in this package.

FOR OFFICIAL USE ONLY

Data will be collected on all facilities/capabilities that are within the scope defined in section 1.1.A. Data will be collected using Appendix A, Data Forms and Instructions

1.1.C Guidance for Military Department Data Analysis

The Military Departments will use the 95 FYDP as the baseline to calculate costs and savings. Address closure/realignment opportunities at the functional T&E and facility levels. Retain essential technical capabilities for core competencies and technologies. Consider consolidation of subfunctions such as centralized maintenance of common platforms, instrumentation, data processing. Consider retention of difficult-to-replace essential geographic assets (e.g. airspace, ground/terrain, climates, seaports) without regard to "ownership". Recognize adaptability to future technologies. Do not consider environmental cleanup costs/difficulties for closure or downsizing a facility/capability.

1.2 ASSUMPTIONS

Cross-service analyses will use the following assumptions:

1.2.A T&E workload is not a direct function of force structure, but is related to the RDT&E budget and acquisition funding.

1.2.B The FYDP is considered certified data. Information from non-DoD activities will not be used as a basis for analyses.

1.2.C At least one test facility/capability will be required to address any technology in use or nearing maturation. Geographic assets (airspace, ground space, sea space, terrain, climate, physical security) must be adequate. Closure or realignments of laboratories, maintenance depots, and training activities could necessitate consolidation with T&E facilities/capabilities.

1.2.D Evaluation of developing technologies and systems will follow a process that involves a progression of test facilities/capabilities ranging from modeling

FOR OFFICIAL USE ONLY

and simulation, measurements, through hardware-in-the-loop, system integration laboratories, installed-systems, to open air/range testing.

1.2.E Potential for internetting facilities/capabilities can be considered in workload projections if investments to provide internetting capability are programmed.

1.2.F With regard to outsourcing, it will be assumed that work currently performed in-house will remain in-house and that work currently outsourced will remain outsourced.

1.2.G With regard to foreign military sales (FMS), it will be assumed that the FMS workload will continue at FY93 levels into the future (straight-lined).

1.3 FUNCTIONAL AREAS

Three functional areas of T&E facilities/capabilities were selected for specific emphasis during cross-service analyses following analysis of the T&E Reliance study areas. These three areas -- air vehicles, electronic combat, and armament/weapons -- show the greatest potential for cross-service consolidation opportunities; others are predominately or nearly Military Department unique.

Over-arching measures of merit have been developed that are applicable to many T&E facilities/capabilities across the three functional areas. These measures generally relate to the overall demographics of the facility/capability at an installation and are important to evaluating a facility/capability for: overall condition; potential to support current or future contingency, mobilization and future missions; additional workload; and overall Mission Essentiality.

Additional data specific to the three functional areas will also be collected. For the purpose of this data collection, the three functional areas are defined as follows:

FOR OFFICIAL USE ONLY

1.3.A Air Vehicles

This functional area includes facilities involved in the testing of all air vehicles/subsystems/components whether fixed wing or rotary wing and test of major sub-systems (e.g., avionics, engines, and sensors). This includes flight testing and the testing involving pre- and post-flight preparation and processing of the air vehicle. Unmanned air vehicles and cruise missiles are included.

1.3.B Electronic Combat (EC) Systems

This functional area includes facilities involved in the testing of stand-alone electronic combat systems and electronic combat subsystems that are normally integrated into other weapon systems. It includes the testing of systems or subsystems that have as their primary mission threat warning, testing of systems that provide countermeasures in the RF (radio frequency) spectrum against radars and other RF sensors, systems that provide countermeasures that are used against sensors in the electro-optical or infrared spectrum as well as testing of electronic and C3 countermeasures.

1.3.C Armaments / Weapons

This functional area includes facilities involved in the testing of the weapons portion of a weapon system. In those cases where the weapon system is composed almost exclusively of the weapon, it may include system-level and platform integration testing. In other cases, it addresses just the weapon subsystem (e.g., guidance and control, propulsion, warheads, and airframe), while the testing of the weapon system's vehicle is in another functional area.

SECTION 2: CAPACITY & TECHNICAL RESOURCES

Use the forms and accompanying instructions in appendix A to provide answers for this section.

FOR OFFICIAL USE ONLY

2.1 WORKLOAD

Annual workload will be reported in units as follows: for open air ranges involving flight testing, report test hours and missions. For all other T&E facilities direct labor hours and test hours must be reported; if available, missions must be reported. If an estimation of test hours based on direct labor hours is necessary, refer to the instructions for Determination of Unconstrained Capacity on page 28.

2.1.A Historical Workload

-2.1.A.1 What amount of workload have you performed each year from FY86-93? Use the Historical Workload Form provided in Appendix A of this package.

2.1.B Forecasted Workload

-2.1.B.1 Identify all appropriations (by program element) that generated a requirement for testing or test support, or are expected to generate a requirement for testing/test support in your Military Department (by functional areas of air vehicles, electronic combat (EC), armament/ weapons, and other test) for FY92, FY93, and each year in the FY95 FYDP. The Military Departments will provide total funding amounts appropriated for all PEs identified in each functional area shown above.

AFWTF does not operate in a purely RDT&E mode. Efforts which may be undertaken in a RDT&E or T&E role have historically occurred concurrent with a scheduled fleet or program exercise evolution. Consequently, a distinction between testing and training cannot be made, particularly for funding and manpower.

-2.1.B.2 What amount of test work was performed at your facility (in workyears by functional areas of air vehicles, electronic combat, armament/weapons, other tests, and other) in FY92 & FY93?

FOR OFFICIAL USE ONLY

AFWTF does not operate in a purely RDT&E mode. Efforts which may be undertaken in a RDT&E or T&E role have historically occurred concurrent with a scheduled fleet or program exercise evolution. Consequently, a distinction between testing and training cannot be made, particularly for funding and manpower. An estimate of test work is provided below for each of the four ranges (Inner Range, Outer Range, Underwater Tracking Range (UTR), and Electronic Warfare Range (EW Range))

	FY 92	FY 93
Outer Range:	15%	15%
Inner Range:	> 2%	> 2%
EW Range:	5%	5%
UTR:	12%	12%

2.2 UNCONSTRAINED CAPACITY

-2.2.A Unconstrained capacity is the maximum capacity of this facility, assuming man-power and consumable supplies (excluding utilities) are unlimited, but allowing for expected downtime (maintenance, weather, darkness (daylight), holidays, etc.). Provide your response by filling out the Determination of Unconstrained Capacity Form in accordance with the instructions in Appendix A.

-2.2.B Is this capacity limited by the physical characteristics of the facility itself, safety or health considerations, commercial utility availability, etc?

Outer Range/Inner Range/EW Range: No. Capacity based upon standard year (261 range days/2088 hrs).

UTR: No. The capacity is limited only by the current contract in effect with the range contractor.

FOR OFFICIAL USE ONLY

2.3 TECHNICAL RESOURCES

-2.3.A Does the facility have a specified war-time or contingency role established in approved war plans?

All Ranges: No.

-2.3.B Does the facility provide a T&E product or service without which irreparable harm would be imposed on the test mission of the host installation?

Outer Range: Yes. In accordance with CNALINST 5450.45C, AFWTF provides services in direct support of other activities' T&E. AFWTF itself does not perform T&E. Any loss of this function would impact those commands requiring AFWTF test sites. However, impact is not harmful to Fleet training mission. **Inner Range:** Yes. There is no other naval gunfire range on the Atlantic coast to test long range fire.

EW Range: Yes. AFWTF provides Electronic Combat T&E for U.S. and foreign services. Currently, there is an increase of T&E by foreign services, without which AFWTF funding would be severely impacted.

UTR: Yes. The UTR, as an integral part of AFWTF, is available to support fleet ASW training.

-2.3.B.1 On the test mission of any other activity?

Outer Range: Yes. Without Outer Range, other facilities such as NSWC PHD, NAVSEA, NAVAIR, OPTENFOR, etc., would have no place to test.

Inner Range: No.

EW Range: Yes. AFWTF is a one of a kind test facility capable of providing all facets of electronic combat training, testing and evaluation to a variety of activities.

UTR: Yes. Impact would be felt in other areas of the Navy and other commands of the Navy. Testing of underwater weapons systems and submarine development would have to be done at an alternative location that does not provide the realistic ASW environment that AFWTF has to offer.

FOR OFFICIAL USE ONLY

-2.3.B.2 On any other mission deemed critical to the operational effectiveness of the armed forces of the United States?

Outer Range: Yes. Range irreplaceable on the Atlantic coast of the U.S.. Range is capable of full spectrum of Joint and battlegroup training in all warfare areas within the confines of the total AFWTF training complex.

Inner Range: Yes. AFWTF conducts NGFS qualification exercises for all Atlantic Fleet ships in accordance with FXP-5 prior to deployment.

EW Range: Yes. AFWTF is currently capable of training joint services, U.S. and foreign services in joint EW operations.

UTR: Yes. The only other range that could accompany ASW services on the east coast is AUTEK in the Bahama Islands.

SECTION 3: MEASURES OF MERIT

This section relates the measures of merit and the required data to the four criteria that have been established for Military Value. The four military value (MV) criteria are:

CRITERION 1: The current and future mission requirements and the impact on operational readiness of the Department of Defense's total force.

CRITERION 2: The availability and condition of land, facilities and associated airspace at both the existing and potential receiving locations.

CRITERION 3: The ability to accommodate contingency mobilization, and future total force requirements at both the existing and potential receiving locations.

CRITERION 4: The cost and manpower implications.

3.1 OVER-ARCHING MEASURES OF MERIT

FOR OFFICIAL USE ONLY

The over-arching measures of merit are listed with accompanying questions (or data requirements) intended to elicit standard information upon which the cross-service analyses can be based, and on which the Joint Cross-Service Groups can base their reviews of the Military Department analyses. Additional specific measures of merit are shown under individual functional areas. The numbers in parentheses () before each measure of merit indicate the BRAC selection criteria for military value.

3.1.A. Interconnectivity (MV I) - Measure of Merit: *Extent of linkage of this facility with other facilities and assessment of single-node failure potential.*

-3.1.A.1 What percentage of total test workload in FY93 involved the real-time or near real time exchange of data or control with another facility? List the facilities you interconnect to for test and identify how many are simultaneous activities. Identify these as to whether they are internal and external to the site.

Outer Range: N/A. Currently the Outer Range is a stand alone facility. As part of the AFWTF range complex the Outer Range is critical in maintenance of a full warfare training capability.

Inner Range: N/A.

EW Range:

UNIT	SIMULTANEOUS	EXT/INT
Fleet Tactical Readiness Group	Y	E
Naval Security Group	N	I
COMNAVSURFLANT (Assets)	Y	E
COMNAVAIRLANT (Assets)	Y	E
COMSECONDFLT (Assets)	Y	E
COMSUBLANT (Assets)	Y	E
COMNAVSEASYSYSCOM (Assets)	Y	E
COMNAVAIRSYSYSCOM (Assets)	Y	E

UTR: N/A. The UTR is a stand alone facility.

-3.1.A.2 If your facility were to be closed, would there be an impact on other facilities to which you are connected?

FOR OFFICIAL USE ONLY

Outer Range: Yes. Closure would directly impact training capability of the AFWTF training complex.

Inner Range: Yes. No other NGFS range with our capabilities exists on the east coast. AFWTF would be harmed by not offering any NGFS, ATG or amphibious capabilities.

EW Range: Yes. The following services would be severely impacted upon the closure of this facility: Testing and Evaluation; Pre-Deployment Workups; Multi-National Training; Joint Service Training. Loss of this range from the AFWTF complex would eliminate a critical aspect of this comprehensive training area which is able to accommodate all warfare areas within the total training area.

UTR: Yes. While AUTECH could handle the annual training and RDT&E requirements in ASW for the Atlantic Fleet, the loss of this range from the AFWTF complex would eliminate a critical aspect of this comprehensive training area which is able to accommodate all warfare areas within the total training area.

3.1.B Facility Condition (MV II) - Measure of merit: *Current and planned status of the T&E facilities for supporting assigned test missions.*

Fill out the Facility Condition Form in Appendix A in accordance with the instructions.

3.1.C Environmental and Encroachment Carrying Capacity (MV II) - Measure of Merit: *Extent of current and future potential environmental and encroachment impacts on air, land, and sea space for testing.*

- 3.1.C.1 Do you have limiting (current or future) environmental and/or encroachment characteristics associated with the installation facility?

Outer Range: No.

Inner Range: Currently operates under formal MOU between Puerto Rico and U.S. Navy which provides guidance and mitigation measures for use of range properties on Vieques.

EW Range: No.

FOR OFFICIAL USE ONLY

UTR: No.

- 3.1.C.2 How much could workload be increased before this limit would be reached? Express your answer as a percentage of your current workload.

All Ranges: Workload is not impacted by current environmental requirements.

- 3.1.C.3 Do you currently operate under temporary permits of an environmental nature, or voluntary agreements (including treaties) of any sort that deal with the environment? If so, when do they expire? Please describe.

Inner Range: Range is currently operating under an agreement with the EPA as it awaits renewal of a water quality permit which previously expired in 1989. Permit will be issued through the host (NAVSTA Roosevelt Roads, Puerto Rico). Permit application has been filed and awaits action of the Puerto Rican Environmental Quality Board (EQB).

Outer Range: No.

EW Range: No.

UTR: No.

- 3.1.C.4 What is the total population within a 50 mile radius? 100 mile radius? 150 mile radius? 200 mile radius?

All Ranges:

50 mile radius - 1.9 million

100 mile radius - 3.6 million

150 mile radius - 3.8 million

200 mile radius - 4.0 million (all estimated)

- 3.1.C.5 Identify the commercial air/land/sea traffic routes, public use of air/land/sea space, and frequency of use for each that affects or could affect mission accomplishment in your air, land, or sea space.

Outer Range: Air routes amber 312, 632, 300, G431, 432; Local air routes 2, 4, and 6 all cross operating areas. Joint USN/FAA agreements provide mutually acceptable operating procedures that do not hinder range operations to

FOR OFFICIAL USE ONLY

any significant degree.

Inner Range: Air routes 2, 4 and 6 outside of warning areas.

EW Range: None.

UTR: The UTR is not a restricted area. Commercial traffic is authorized to use the area. Coordination with all users of the area is maintained to ensure safety and mission accomplishment.

- 3.1.C.5.A How many test missions per year are canceled due to commercial or public use?

All Ranges: None.

- 3.1.C.6 What is the number of test missions that have been canceled due to encroachment in each of the last two years?

All Ranges: None.

3.1.D Specialized Test Support Facilities and Targets (MIV I) - Measure of Merit: *Extent to which specialized test support facilities and targets are available.*

-3.1.D.1 Do you have specialized facilities are required to support you in conducting your test operations at your facility (e.g. Aerial delivery load build-up facilities; parachute drying towers/packing facilities; paratroop support facilities; specialized fuel storage and delivery systems; mission planning facilities; corrosion control, painting, washing facilities; and specialized maintenance facilities such as avionics intermediate shops)? Yes/no. If yes, please describe.

Outer Range: Yes. Range infrastructure - radars systems used for area surveillance; two way UHF/VHF/HF radios; microwave links connecting outer sites with main facility; hangars used for aerial target storage, maintenance and build-up; control center; computers used for control and coordination of Range activities; aerial target launch sites.

Inner Range: Yes. Aerial delivery load build-up facilities parachute facilities

FOR OFFICIAL USE ONLY

and mission planning facilities at NAVSTA Roosevelt Roads. Vehicle washdown facilities at NAVSTA Roosevelt Roads and Inner Range Camp Garcia.

EW Range: Yes. Airborne Target Shop (ATS) provides maintenance and repair of AST-4 Simulator Pods and ALQ-167 Jamming Pods. Marine Ocean and Engineering (MOE) provides ships for mobile threat simulator and drone launching. VC-8 provides A-4 aircraft to carry simulator pods for fleet operational and training missions.

UTR: Yes:

- Dive Locker: Supports dive operations in support of ASW Range.
- Portable Underwater Tracking Translator (PUTT) Shop: Build up and test of tracking instrumentation used on ASW Range.
- MK 46 IMA: Build up of MK 46 exercise torpedoes for use on the ASW Range.
- MK 48 Flush Facility: Decontamination and preparation of expended exercise MK 48 torpedoes for shipment to stateside MK 48 IMA.
- OTTO Fuel/HAZMAT Storage: Collect and prepare hazardous material from expended MK 46 and MK 48 exercise torpedoes for transportation and CONUS disposal.
- Other Support: Although not a physical element of the UTR, the following additional support assets are required to maintain range operations:
 - Ships - Marine Ocean Engineering (MOE) operated Navy Vessels of 65, 85 and 180(2) feet operate as the primary recovery and launch platform for the MK 30 target and recovery of MK 46/48 torpedoes.
 - Aircraft - SH3 helicopters owned by VC 8 (Secondary MK 30 and MK 48 recovery platform).

-3.1.D.2 Are specialized targets required to support this facility?

Outer Range: Yes. Contemporary USN aerial and surface targets which include BQM-74E, BQM-34S, AQM-37C, TDU-34A, QST-35, QF-84, 1STT, WILLIAMS TOW, TRIMARAN TOW.

Inner Range: No.

EW Range: Yes. ATS provides AST-4, ALQ-167 airborne simulators; MOE provides mobile threat simulator and drone launching capability.

FOR OFFICIAL USE ONLY

UTR: Yes. The MK 30 Mobile Antisubmarine Warfare Target (MAST) is required to support fleet and units training in the event real world assets are unavailable.

-3.1.D.2.A Have the specialized targets been validated? Yes/no. If yes, by whom?

Outer Range: Yes. By NAVAIRSYSCOM & NAVSEASYSYSCOM.

Inner Range: N/A.

EW Range: Yes. Naval Air Weapons Center, Point Magu, CA.

UTR: Yes. MK 30 specialized targets are validated annually by COMNAVSEASYSYSCOM.

3.1.E Expandability (MV III) - Measure of Merit: *Extent to which an installation/facility is able to expand to accommodate additional workload or new missions.*

-3.1.E.1 Other than the expandability inherent in unconstrained capacity, discussed earlier, are there any special aspects of this facility that enhance its ability to expand output within each T&E functional area? Yes/no. If yes, explain.

Outer Range: Yes. Relatively sparsely travelled open ocean areas vis-a-vis surface and air traffic. Minimal with no pleasure craft (yachts and smaller) traffic. No commercial fishing. Minimal marine live area (animals/turtles).

Inner Range: No.

EW Range: No.

UTR: Yes. The UTR is the only east coast ASW range that provides the largest training area with the acoustic background characteristics that are inherent to the real world.

-3.1.E.1.A Can you accept new T&E workload different from what you are

FOR OFFICIAL USE ONLY

currently performing? Yes/no. If yes, identify by T&E functional area and test type.

Outer Range: Yes. Functional Areas: Armament/weapons, air vehicles, electronic combat. Test Types: Rocket Interceptor Missile Exercise (RIMEX), Missile Exercise (MISSLEX), Gun Exercise (GUNEX), Air to Air and Air to Surface Warfare (AAW/ASUW)

UTR: Yes. Functional Areas: Armament/weapons. Test Types: Torpedo Exercise (TORPEX), ASW Exercise (ASWEX).

EW: Yes. Functional Areas: Electronic combat. Test Types: ELW-1-SS, ELW-3-SF, ELW-4-SF, ELW-1-A, ELW-11-A, ELW-12-A, ELW-10-SF, ELW-11-SF, ELW-12-SF, NJS-DEMO, ADEX-325, ADEX-326, ADEX-451, ADEX-452, ADEX 4, EWX207, EWX208, EWX209, EWX210, EWX211, EWX221, EWX222, EWX410, EWX411, EWX412, EWX413, EWX414.

Inner Range: Yes. Functional Areas: Armament/weapons. Test Types: Mine Exercise (MINEX), Mine Readiness Certification Inspection (MRCI), Naval Gunfire Support (NGFS).

-3.1.E.2 Are airspace, land, and water areas--adjacent to areas under DoD control--available and/or suited for physical expansion to support new missions or increased footprints? Yes/no. If yes, please explain.

Outer Range: Yes. Relatively "clean" area now available for expansion within charted operating areas to double or triple the current area.

Inner Range: Yes. North and South Range. Available airspace is primarily located in areas of open ocean and remains reasonably clear of conflicting traffic. Existing areas are sufficiently large to accommodate increased military traffic and missions. Land on Vieques Island under military control is available for expanded use within constraints of existing environmental regulations and MOU which exists between the U.S. Navy and Puerto Rico. Available water areas surrounding the Inner Range are suitable for continued and expanded military use within existing environmental regulations and MOU which exists between the U.S. Navy and Puerto Rico.

EW Range: Yes. Located within major open ocean and land training ranges.

FOR OFFICIAL USE ONLY

UTR: Yes. Open ocean areas surround the range; the range could be expanded without any impact to environmental or commercial concerns.

-3.1.E.3 Is the facility equipped to support secure operations? Yes/no. If yes, to what level of classification (Confidential, Secret, Top Secret, Special Access Required)?

Outer Range/Inner Range: Yes; Top Secret.

EW Range/UTR: Yes. Secret

-3.1.E.4 Are there any capital improvements underway or programmed in the 95 FYDP, that would change your capacity/capability? Yes/no. If yes, explain.

Outer Range/Inner Range/UTR: No.

EW Range: Yes. Expansion to include: EW Range Operations Center (ROC) refurbishment of TPS Sites, installation of I-Band Sea going threat emitter, UPQ-8 GTE, possible acquisition of AST-6 pods.

3.1.F Uniqueness (MV I) - Measure of Merit: *Extent to which the facility is one-of-a kind.*

-3.1.F.1 Is this a one-of-a-kind facility within the DoD? Yes/no. If yes, describe.

Outer Range: Yes. (Qualified) Only facility of its type on Atlantic coast.

Inner Range: Yes. The Inner Range complex is a multi-purpose target complex consisting of NGFS, air-to-ground, mining and land based supporting arms ranges with amphibious operating areas and landing beaches, capable of conducting all types of operations/scenarios simultaneously.

EW Range: Yes. The only training facility in which all facets of warfare can be performed in one day and at one location. (Level 4 training capability)

UTR: Yes. The UTR is the ASW range that provides the largest training area with the acoustic background characteristics that are inherent to the real world.

FOR OFFICIAL USE ONLY

The range also has the capability to train in Electronic Warfare while conducting ASW.

-3.1.F.1.A Within the US Government? Yes/no. If yes, describe.

Outer Range: No. NAWCWD PT Mugu in accordance with Socal Ranges provides much of the same services, but it is not able to support multi warfare scenarios.

Inner Range: Yes. The Inner Range complex is a multi-purpose target complex consisting of NGFS, air-to-ground, mining and land based supporting arms ranges with amphibious operating areas and landing beaches, capable of conducting all types of operations/scenarios simultaneously.

EW Range: Yes. Seaborne capacity for level 4 training.

UTR: Yes. The UTR is the ASW range that provides the largest training area with the acoustic background characteristics that are inherent to the real world. The range also has the capability to train in Electronic Warfare while conducting ASW.

-3.1.F.1.B Within the US? Yes/no. If yes, describe.

Outer Range: Yes. There is only one comprehensive site on the east coast.

Inner Range: Yes. The Inner Range complex is a multi-purpose target complex consisting of NGFS, air-to-ground, mining and land based supporting arms ranges with amphibious operating areas and landing beaches, capable of conducting all types of operations/scenarios simultaneously.

EW Range: Yes. Seaborne capacity for level 4 training.

UTR: Yes. The UTR is the ASW range that provides the largest training area with the acoustic background characteristics that are inherent to the real world. The range also has the capability to train in Electronic Warfare while conducting ASW.

-3.1.F.2 Are you currently providing support to DoD users outside your Military Department? Yes/no. If yes, indicate percentage of total workload in FY92 and FY93 by Military Department.

FOR OFFICIAL USE ONLY

Outer Range: Yes. USAF. Less than 5% for FY 92/93.

Inner Range: Yes:

	FY 92	FY 93
DOT	2%	2%
USAF	4%	1%
PRNG/ANG	4%	1.5%
USA	4%	0
Foreign	11%	11%

NOTE: Department of Transportation (DOT), U.S. Air Force (USAF), Puerto Rico National/Air National Guard (PRNG/ANG), U.S. Army (USA), and foreign services

EW Range: Yes. FYs 92/93 USAF (10%)

UTR Range: No.

3.1.G Available Air, Land, and Sea Space (MV II) - Measure of Merit:
Extent to which controlled test ranges satisfy weapon system test requirements.

-3.1.G.1 How many square miles of air, land, and sea space are available to support test operations?

Outer Range: 194,000 square miles of open sea ranges which includes air.

Inner Range:

Land:

Inner Range: 22.65 square miles

AFWTF: 5.46 square miles

Live Impact: 1.40 square miles

Air:

R-7104 110.00 square miles

W-428 224.00 square miles

EW Range: 32,000 square miles (enhanced by mobile sea platform capability)

UTR: 400 square miles of open ocean area is available.

-3.1.G.2 Who owns and or controls the land under the restricted airspace you use?

FOR OFFICIAL USE ONLY

Outer Range/Inner Range/EW Range: U.S. GOVT and Commonwealth of Puerto Rico. Also AFWTF uses some international Sea/Air space.

UTR: N/A.

-3.1.G.3 How much of this is Restricted Airspace, and what altitude limits are associated with the restricted areas?

Outer Range: When activated, to infinity.

Inner Range: All 110 square miles, surface to 50,000 feet

EW Range: N/A

UTR: N/A.

-3.1.G.4 Do you have special use airspace other than supersonic airspace? Yes/no. If yes, for what types of test (e.g. terrain following radar)? Dimensions? Will it support simultaneous users? Yes/no.

Outer Range: Yes. Surface-to-air, air-to-air, surface-to-surface, air-to-surface missile firings. Alfa Range, north and east of Puerto Rico, is 120,000 square miles. Bravo Range, south of Puerto Rico, is 74,000 square miles.

Yes, it will support simultaneous users.

Inner Range: No.

EW Range: No.

UTR: Yes. Notices of Instructions for Special Use Airspace is requested only during Anti-Submarine Rocket launches. This occurs approximately 10 days per year for a total of 100 hours. A letter of agreement is on file with the FAA when such area is to be activated. No, it will not support simultaneous users.

-3.1.G.5 Is the airspace over land or water? List the number of square miles over each.

Outer Range: Over water - 194,000 square miles.

Inner Range: Over water - 305.49 square miles; over land - 28.51 square miles

EW Range: N/A

UTR: 400 square miles over water.

FOR OFFICIAL USE ONLY

-3.1.G.6 Identify known or projected airspace problems that may prevent accomplishing your mission.

All Ranges: None.

-3.1.G.7 What is the maximum straight line segment in your airspace in nautical miles?

Outer Range: 600 nautical miles

Inner Range: 22 nautical miles

EW Range: N/A

UTR: 40 nautical miles

-3.1.G.8 What public airspace have you used for overflight of weapons systems in the past? What was the nature of those tests? Do you anticipate being able to use that same public airspace for similar tests in the future? Yes/no.

Outer Range/Inner Range/EW Range: None.

UTR: Anti-submarine Rocket launches are the only weapons that are launched into the air space. Approximately 10 tests per year are scheduled. No problems with air space scheduling are anticipated with future launches.

3.1.H Geographic/Climatological Features (MV II) - Measure of Merit:
Extent to which types of climatic/geographic conditions represent world-wide operational conditions.

-3.1.H.1 Describe the topography and ground cover/vegetation within your test airspace (include nap-of-the-earth capability). Identify all of the following that apply: mountains, forest/jungle, cultivated lowland, swamp/riverine, desert, and sea. State the area of each in square miles.

Outer Range: North Range: 120,000 square miles; south range: 74,000 square miles open ocean. Large open ocean warning areas could support performance and qualitative handling qualities tests for fixed and rotary wing aircraft. Aircraft can depart and return to NAVSTA Roosevelt Roads airfield

FOR OFFICIAL USE ONLY

without overflying personnel and all air vehicle testing can be accomplished over water making Roosevelt Roads an excellent candidate for air vehicle testing. Unmanned vehicles could be launched from the airfield or Cabras Island and mission profiles accomplished over water. Cruise missile profiles could be flown in the warning areas and, as air and sea traffic is sparse, safety is increased.

Inner Range: Forest/jungle, dense mesquite type brush. Nape-of-earth capable both land and water. Over land - 28.51 square miles; over water - 305.49 square miles.

EW Range: Primarily mountains and sea. Mountains are approximately 300 square miles and play an important role in EW simulations. Remaining 32,000 square miles is sea.

UTR: 400 square miles of open ocean.

-3.1.H.2 Are there features of the local geology or soil conditions that enhance or inhibit any types of test?

Outer Range/Inner Range/UTR: No.

EW Range: Yes. The height of our simulator greatly enhances the reception range and multiple islands allow for multiple threat axis.

-3.1.H.3 Did you have to go to other geographical locations to satisfy test requirements? Yes/no and explain. If yes, provide as a percent of overall workload per year for the past 8 years.

All Ranges: No; all test requirements can be satisfied within the AFWTF complex.

-3.1.H.4 What is the number of days per year the average temperature is below 32 degrees F? Between 32 and 95 degrees? Above 95 degrees?

All Ranges:

32 degrees F - 0

Between 32 and 95 degrees - 365 days

Above 95 degrees - 0

FOR OFFICIAL USE ONLY

-3.1.H.5 What is the number of days per year the average relative humidity is below 30%? Between 30 and 80%? Above 80%?

All Ranges:

Below 30% - 0

Between 30 and 80% - 265 days

Above 80% - 100 days

-3.1.H.6 What is the number of test missions per year (1985 - 1993) canceled due to weather?

Outer Range/Inner Range: None.

EW Range: 3.

UTR: 10 missions per year are cancelled due to high sea states (sea state greater than 4).

-3.1.H.7 What is the number of test days per year (1985 - 1993) canceled due to weather?

Outer Range: 60 days lost due to hurricane damage in 1989. Total delayed due to weather is approximately 40. Delays are associated with reduced visibility in rain showers.

Inner Range: None.

EW Range: 5 days.

UTR: 10 range days per year are cancelled due to high sea states.

-3.1.H.8 What is the number of days per year the visibility is less than 1 mile? Between 1 and 3 miles? Greater than 3 miles?

All Ranges:

Statistical data does not support determination of numbers of days rather a frequency. Less than 1NM: .1%; 1-2NM: .1%; 2-5NM .7% and greater than 5NM: 99.1%.

-3.1.H.9 What is the average number of flying days available per year for flight test? Provide historical average from the past eight years.

FOR OFFICIAL USE ONLY

Outer Range/EW Range: Flying days are available year around as requested.

Inner Range: N/A

UTR: N/A

-3.1.H.10 What percentage of the time are your test operations restricted due to weather?

Outer Range: Less than 10%.

Inner Range: 0

EW Range: 1%

UTR: Less than 5%

3.2 AIR VEHICLES

This functional area includes facilities involved in the testing of all air vehicles/subsystems/components whether fixed wing or rotary wing and test of major subsystems (e.g., avionics, engines, and sensors). This includes flight testing and the testing involving pre- and post-flight preparation and processing of the air vehicle. Unmanned air vehicles and cruise missiles are included.

3.2.A Supersonic Airspace (MV II) - Measure of Merit: *Extent of range size to support weapon system requirements.*

-3.2.A.1 Do supersonic corridors or areas exist?

Outer Range: Yes.

Inner Range/EW Range/UTR: N/A

-3.2.A.2 Where are they located relative to your airfield?

Outer Range: 30NM to border of areas.

Inner Range/EW Range/UTR: N/A

-3.2.A.3 At what altitude (upper and lower altitude)?

FOR OFFICIAL USE ONLY

Outer Range: Surface to Infinity.
Inner Range/EW Range/UTR: N/A

-3.2.A.4 Over land or water? What size and shape (length and width)?

Outer Range: Water. 200NM X 600NM and 180NM X 240NM.
Inner Range/EW Range/UTR: N/A

-3.2.A.5 Are there restrictions you must observe to use this space?

Outer Range: Yes. Activation procedures in accordance with USN/FAA joint agreements, international notice to Mariners, Airmen.
Inner Range/EW Range/UTR: N/A

-3.2.A.6 What is the maximum number of simultaneous users?

Outer Range: Dependent upon exercises.
Inner Range/EW Range/UTR: N/A

-3.2.B Airfield and Facility Characteristics (MV II) - Measure of Merit:
Extent of air vehicle infrastructure to support T&E operations.

-3.2.B.1 Provide a brief description of your airfield and support facilities, to include the following: number and azimuth of runways, elevation, runway length (excluding overrun), overrun length, terminal and/or landing aids, arresting cable (yes/no, type), ramp area (in square feet), construction material (runway and ramps), load capability, and hangar space.

AFWTF does not have a custodied airfield. As a tenant of the host (Naval Station Roosevelt Puerto Rico (UIC 00389)), AFWTF Ranges utilize airfield facilities of that command.

-3.2.B.2 How close and how many emergency runways or airfields are in your

FOR OFFICIAL USE ONLY

area of operation?

6 within 30 miles (5 civilian and 1 military (NAVSTA Roosevelt Roads)).

-3.2.B.3 Where is your airfield situated relative to working areas (airspace) for supporting test operations?

Outer Range: Within 5NM.

Inner Range/EW Range/UTR: N/A

-3.2.B.4 What makes your airfield unique or at least suited for supporting test operations?

Outer Range: Isolated location and relatively clear airspace.

Inner Range/EW Range/UTR: N/A

-3.2.B.5 Is there a size, weight, maintenance or mission limitation that would affect test operations? If so, describe the limitation(s).

All Ranges: No.

-3.2.B.6 Including hangers and ramp space, how many fighter size aircraft could you support? Large multi-engine aircraft? Rotary wing? UAV? Cruise missiles?

All Ranges: N/A. NAVSTA Roosevelt Roads operates airfield, not AFWTF.

-3.2.C **Test Operations (MV II) - Measure of Merit:** *Extent of T&E operations that the airspace can accommodate.*

-3.2.C.1 What types of air vehicle testing (fixed wing, rotary wing, unmanned vehicles, and cruise missiles) can be supported? (e.g. performance, handling qualities, fatigue life, static, wheels and brakes, physical integration with external stores or avionics)

Outer Range: Inflight tests. Large open ocean warning areas could support

FOR OFFICIAL USE ONLY

performance and qualitative handling qualities tests for fixed and rotary wing aircraft. Aircraft can depart and return to NAVSTA Roosevelt Roads airfield without overflying personnel and all air vehicle testing can be accomplished over water making Roosevelt Roads an excellent candidate for air vehicle testing. Unmanned vehicles could be launched from the airfield or Cabras Island and mission profiles accomplished over water. Cruise missile profiles could be flown in the warning areas and, as air and sea traffic is sparse, safety is increased.

Inner Range/EW Range/UTR: N/A

-3.2.C.2 Do ground support facilities exist for pre-flight checkout or rehearsal of test missions?

Outer Range: Routine NAS facilities located at NAVSTA Roosevelt Roads offsite airfield.

Inner Range/EW Range/UTR: N/A

-3.2.C.3 What kinds, numbers of aircraft and mix can be supported (manned and unmanned)?

Outer Range: Any type/number of manned. Six to eight unmanned. (dependent upon type.)

Inner Range/EW Range/UTR: N/A

-3.2.C.4 Does UAV and or rotary wing operations pose any limitation on other types of missions?

Outer Range: Yes. Only those inherent with platform type.

Inner Range/EW Range/UTR: N/A

-3.2.C.5 What sorts of missions (e.g. air-to-air, air-to-ground and refueling) can be flown within local airspace?

Outer Range: All assigned missions.

Inner Range/EW Range: N/A

FOR OFFICIAL USE ONLY

UTR: Unlimited. Overlying airspace is unrestricted.

-3.2.C.6 What is the maximum number of simultaneous missions you can support that require telemetry?

Outer Range: Dependent upon type and active TCM antennas. Virtually unlimited manned vehicles. Unmanned limited to six BQM-34/74 and two AQM-37 targets.

Inner Range/EW Range/UTR: N/A

-3.2.C.7 What is the largest number of simultaneous test missions you have supported in your airspace?

Outer Range: Eight unmanned. Unlimited manned.

Inner Range/EW Range/UTR: N/A

-3.2.C.8 Identify the number, types, and owners of aircraft at your installation.

AFWTF has no aircraft. Host command (NAVSTA Roosevelt Roads) provides the operational airfield.

3.3 ELECTRONIC COMBAT

The EW functional area includes facilities involved in the testing of stand-alone electronic combat systems and electronic combat subsystems that are normally integrated into other weapon systems. It includes the testing of systems or subsystems that have as their primary mission threat warning, testing of systems that provide countermeasures in the RF (radio frequency) spectrum against radars and other RF sensors, systems that provide countermeasures that are used against sensors in the electro-optical or infrared spectrum as well as testing of electronic and C3 countermeasures.

NOTE: The AFWTF EW Range utilizes the Outer Range's test/exercise areas for operations.

FOR OFFICIAL USE ONLY

3.3.A Threat Environment (MV I) - Measure of Merit: *Extent to which the capability satisfies weapon system requirements.*

-3.3.A.1 What is the number of threats simulated?

Outer Range: N/A

Inner Range: N/A

EW Range: 500 plus.

UTR: N/A

-3.3.A.2 How many simultaneous threats can be simulated? What type (e.g. AI, AAA, SAM)? What is maximum signal density? Average density? What power level? What band? Radiated or injected?

Outer Range/Inner Range/UTR: N/A

EW Range:

SYSTEM	NUMBER	TYPE	POWER	BAND	RAD/INJ
TRS	49	ALL	200kw 100kw	E/F H/I/J	RAD RAD
TPS-1	5	ALL	200kw 100kw	H/F/H/I J	RAD RAD
TPS-2	5	ALL	200kw 100kw	E/F/H/I J	RAD RAD
NJS	6	ECM		B/C/G-J	RAD
ALQ-167(2)	2	ECM	4kw	B/C/E/F/G-J	RAD
AST-4(4)	4	ALL	70kw	H/I/J	RAD

Maximum Density: As required by the scenario.

Average Density: Scenario dependent.

-3.3.A.3 Are the threat software models and simulators (software/hardware) validated? Yes/no. If yes, by whom?

Outer Range/Inner Range/UTR: N/A

EW Range: No.

FOR OFFICIAL USE ONLY

-3.3.A.4 Do you conduct open loop testing? Reactive? Closed loop? Yes/no for each.

Outer Range/Inner Range/UTR: No

EW Range: Yes for each.

-3.3.A.5 What is the threat representation (fidelity) and density?

Outer Range/Inner Range/UTR: N/A

EW Range: All threat simulations are exact parametrically. The maximum number of radiated signals is 71.

-3.3.A.6 Are you capable of simulating land threats? Sea threats? Combined land/sea threats? Yes/no. If yes, describe.

Outer Range/Inner Range/UTR: N/A

EW Range: Land threats - yes; sea threats - yes; combined land/sea threats - yes. AFWTF is capable of radiating air, surface, and subsurface.

-3.3.A.7 What geographic dispersion can be simulated?

Outer Range/Inner Range/UTR: N/A

EW Range: Three axis threat environment.

-3.3.A.7.A Threat lay down?

Outer Range/Inner Range/UTR: N/A

EW Range: Multiple threats from three different axis in a signal dense environment.

-3.3.A.7.B Representative distance?

Outer Range/Inner Range/UTR: N/A

EW Range: Any distance from 0-60 nautical miles.

FOR OFFICIAL USE ONLY

-3.3.A.8 Are the threats moveable (i.e.dynamic) within a test scenario?
relocatable to new scenarios? yes/no

Outer Range/Inner Range/UTR: N/A

EW Range: Yes.

-3.3.A.9 Is the facility interlinked with off-site threats? Yes/no. If yes, how
are you linked?

Outer Range/Inner Range/UTR: N/A

EW Range: Yes. EW Range is linked with airborne and seaborne threat
simulators via voice communication and other land based threat simulators via
microwave link.

-3.3.A.10 Is there a limit on simultaneous users? Yes/no. If no, explain.

Outer Range/Inner Range/UTR: N/A

EW Range: No. As long as receiving platforms remain within range of our
simulators and receivers, no limitation exists.

3.3.B Test Article Support (MV II) - Measure of Merit: *Extent to which
test support satisfies weapon system test requirements.*

-3.3.B.1 Is there a size, weight, or other limitation on test operations the
facility can support? Yes/no. If so, identify the limits and measures to remove
them.

Outer Range/Inner Range/UTR: N/A

EW Range: No.

-3.3.B.2 What is the number of simultaneous countermeasures that can be
evaluated?

Outer Range/Inner Range/UTR: N/A

EW Range: None currently.

FOR OFFICIAL USE ONLY

-3.3.B.3 What range of spectra can be tested and evaluated?

Outer Range/Inner Range/UTR: N/A

EW Range:

2.7 - 3.1 GHZ E/F

7.8 - 9.6 GHZ H/I TPS/TRS

14.4 - 15.0 GHZ J

-3.3.B.4 What are the available spectra?

Outer Range/Inner Range/UTR: N/A

EW Range: Up to 49 simultaneous signals can be radiated from 3 sites.

-3.3.B.5 Do you have a scene generation capability? Yes/no. If yes, describe.

All Ranges: No.

3.4 ARMAMENTS/WEAPONS

This functional area includes facilities involved in the testing of the weapons portion of a weapon system. In those cases where the weapon system is composed almost exclusively of the weapon, it may include system-level and platform integration testing. In other cases, it addresses just the weapon subsystem (e.g., guidance and control, propulsion, warheads, and airframe), while the testing of the weapon system's vehicle is in another functional area.

3.4.A Directed Energy (MV II) - Measure of Merit: *Extent to which the facility satisfies directed energy weapon system test requirements.*

This includes testing of all types of directed energy weapons.

-3.4.A.1 Do you currently test directed energy weapon systems?

FOR OFFICIAL USE ONLY

All Ranges: No.

3.4.B Rocket / Missile / Bomb Systems (MV II) - Measure of Merit: *Extent capability satisfies weapon system test requirements.*

This includes the testing of all types of rocket, missile, and bomb systems at the system/ subsystem/component level, both stand alone and integrated into the launch platform. This includes testing of air-to-air, air-to-surface, and surface-to-air missiles.

-3.4.B.1 Ground Space

-3.4.B.1.A What is the area in square miles of the land and water space which you can use to conduct tests of live rocket, missile, or bomb systems?

Outer Range: 194,000 square miles.

Inner Range: 1.5 square miles (Impact area of Inner Range Complex; no missiles allowed)

EW Range: N/A

UTR: 400 square miles of open ocean

-3.4.B.1.B How many separate and distinct land and water test areas are available to conduct tests of live weapons? List them and the size of each in acres.

Outer Range: 120,000 square miles (North over water), 74,000 square miles (South over water), both divided into internal sub divisions.

Inner Range: 1 area, no water space, 900 acres of land

EW Range: N/A

UTR: N/A; no live fire exercises

-3.4.B.1.C What are the maximum ranges (nautical miles) you can test, by type weapon?

Outer Range: Ship/Air launched missiles out to 600 nautical miles.

FOR OFFICIAL USE ONLY

Inner Range: 11 nautical miles for any accepted ordnance. The range accepts the following ordnance:

Inert: MK76, MK106, MK20, MK82, MK83, MK84, 5"54 PUJF AND 16"50.

Live: 3"50, 4.5", 5"38, 5"54, 16"50, MK20, NAPALM, MK81, MK82, MK83, MK84, 2.75R, ZUNI, HELLFIRE, MINE, FLARE, 20MM, 25MM, 30MM, 40MM, 60MM, 76MM, 81MM, 100MM, 105MM, 120MM, 155MM, AT-4, .50C, 7.62 AND 5.56

EW Range: N/A; no live fire exercises allowed

UTR: 400 square miles

3.4.B.2 Test Operations

-3.4.B.2.A For each of your land and water ranges, how many test missions were scheduled in FY92 and FY93 that were required to use safety footprints comparable to those required for the following types of weapons:

Outer Range:

--Unguided 2000 pound-class ballistic weapon

---live? None

---inert? None

--Guided weapon (e.g., GBU-24 class)

---live? None

---inert? None

--Stand-off weapon (e.g., AGM-130 class)

---live? None

---inert? None

--Short-range missile (e.g., AIM-9)

---below 5000 feet MSL

---between 5000 and 20,000 feet MSL

---above 20,000 feet MSL

Note: Fired through or in all altitudes.

FY92: 165 FY93: 123

--Long-range missile (e.g., AIM-120)

---below 5000 feet MSL

---between 5000 and 20,000 feet MSL

FOR OFFICIAL USE ONLY

---above 20,000 feet MSL

Note: Fired through or in all altitudes.

FY92: 122 FY93:120

Inner Range: --Unguided 2000 pound-class ballistic weapon

---live? FY 92 = 36 FY 93 = 52

---inert? FY 92 = 145 FY 93 = 0

--Guided weapon (e.g., GBU-24 class)

---live? None

---inert? None

--Stand-off weapon (e.g., AGM-130 class)

---live? None

---inert? None

--Short-range missile (e.g., AIM-9)

---below 5000 feet MSL None

---between 5000 and 20,000 feet MSL None

---above 20,000 feet MSL None

--Long-range missile (e.g., AIM-120)

---below 5000 feet MSL None

---between 5000 and 20,000 feet MSL None

---above 20,000 feet MSL None

EW Range: --Unguided 2000 pound-class ballistic weapon

---live? None

---inert? None

--Guided weapon (e.g., GBU-24 class)

---live? None

---inert? None

--Stand-off weapon (e.g., AGM-130 class)

---live? None

---inert? None

--Short-range missile (e.g., AIM-9)

---below 5000 feet MSL None

---between 5000 and 20,000 feet MSL None

FOR OFFICIAL USE ONLY

- above 20,000 feet MSL None
- Long-range missile (e.g., AIM-120)
 - below 5000 feet MSL None
 - between 5000 and 20,000 feet MSL None
 - above 20,000 feet MSL None

- UTR:** --Unguided 2000 pound-class ballistic weapon
- live? None
 - inert? None
 - Guided weapon (e.g., GBU-24 class)
 - live? None
 - inert? None
 - Stand-off weapon (e.g., AGM-130 class)
 - live? None
 - inert? None
 - Short-range missile (e.g., AIM-9)
 - below 5000 feet MSL None
 - between 5000 and 20,000 feet MSL None
 - above 20,000 feet MSL None
 - Long-range missile (e.g., AIM-120)
 - below 5000 feet MSL None
 - between 5000 and 20,000 feet MSL None
 - above 20,000 feet MSL None

-3.4.B.2.B Were flight termination systems required?

Outer Range: Required only if part of normal missile configuration.

Inner Range: No

EW Range: N/A

UTR: N/A

-3.4.B.2.C If no missions were scheduled in a category, give the reason(s).

Outer Range: Type of weapon not normally employed in open ocean

FOR OFFICIAL USE ONLY

scenarios.

Inner Range: Missile firings are not allowed within the Inner Range.

EW Range: N/A

UTR: No live fire exercises allowed; UTR is strictly an instrumented underwater range.

-3.4.B.2.D Were any scheduled missions canceled before the mission, or terminated/aborted during the mission because of encroachments into the safety footprint?

Outer Range: Yes. No record of cancellations exist, delays exist only to allow encroachers to clear area or for geometry of area to be modified.

Inner Range: No.

EW Range/UTR: N/A

ADDITIONAL INFORMATION

Facility/Capability Title: ELECTRONIC WARFARE RANGE (EWR)

PERSONNEL

	FY-93	FY-94	FY-95	FY-96	FY-97	FY-98	FY-99
Officer	1	1	1	1	1	1	1
Enlisted	10	9	9	9	9	9	9
Civilian	0	0	0	0	0	0	0
Contractor	42	42	42	42	42	42	42
Total	53	52	52	52	52	52	52

Total Square Footage: 4,692

Test Area Square Footage: 4,692

Office Space Square Footage: 0

Tonnage of Equipment: 35.0

Volume of Equipment: 29,590 CU. FT.

Annual Maintenance Cost: \$2.81 M

Estimated Moving Cost: \$2.25 M

*Appendix A
(2 forms) -
stand alone -
11/17/01 Col. Walter
to list of DC*

CAPITAL EQUIPMENT INVESTMENT:

FY-93	FY-94	FY-95	FY-96	FY-97	FY-98	FY-99
N/A	N/A	\$2.2M	\$2.2M	\$750K	N/A	N/A

ADDITIONAL INFORMATION

Facility/Capability Title: Underwater Tracking Range (UTR)

PERSONNEL

	FY-93	FY-94	FY-95	FY-96	FY-97	FY-98	FY-99
Officer	2	1	1	1	1	1	1
Enlisted	3	3	3	3	3	3	3
Civilian	0	0	0	0	0	0	0
Contractor	172	169	163	163	163	163	163
Total	177	173	167	167	167	167	167

Total Square Footage: 73,844.96

Test Area Square Footage: 73,844.96

Tonnage of Equipment: 60.0

Annual Maintenance Cost: 11.01M

Office Space Square Footage: 0

Volume of Equipment: 8140 cu.ft

Estimated Moving Cost: 51.6M

CAPITAL EQUIPMENT INVESTMENT:

FY-93	FY-94	FY-95	FY-96	FY-97	FY-98	FY-99
N/A						

ADDITIONAL INFORMATION

Facility/Capability Title: Inner Range (IR)

PERSONNEL

	FY-93	FY-94	FY-95	FY-96	FY-97	FY-98	FY-99
Officer	2	1	1	1	1	1	1
Enlisted	2	3	3	3	3	3	3
Civilian	0	0	0	0	0	0	0
Contractor	23	23	23	23	23	23	23
Total	27						

Total Square Footage: 13,823

Test Area Square Footage: 13,823

Office Space Square Footage: 0

Tonnage of Equipment: 11.5 Tons

Volume of Equipment: 5,756 cu. ft.

Annual Maintenance Cost: \$ 3.28M

Estimated Moving Cost: \$2.25M

CAPITAL EQUIPMENT INVESTMENT:

FY-93	FY-94	FY-95	FY-96	FY-97	FY-98	FY-99
N/A	N/A	N/A	900K	N/A	N/A	N/A

ADDITIONAL INFORMATION

Facility/Capability Title: Outer Range

PERSONNEL

	FY-93	FY-94	FY-95	FY-96	FY-97	FY-98	FY-99
Officer	3	3	3	3	3	3	3
Enlisted	32	32	32	32	32	32	32
Civilian	25	25	25	25	25	25	25
Contractor	98	98	98	98	98	98	98
Total	158						

Total Square Footage: 212,211

Indoor Test Area Square Footage: 182,327

Office Space Square Footage: 4352 sq ft

Tonnage of Equipment: 175,25 tons

Volume of Equipment: 54,300 cu ft

Annual Maintenance Cost: \$6.33 Estimated Moving Cost: 21.7 Million

CAPITAL EQUIPMENT INVESTMENT:

FY-93	FY-94	FY-95	FY-96	FY-97	FY-98	FY-99
858K	400K	N/A	N/A	N/A	N/A	N/A

TECHNICAL INFORMATION

Facility/Capability Title:

Electronic Warfare Range (EWR)

Facility Description; Including mission statement: The Electronic Warfare Range (EWR) consists of a signal Threat Radiation Simulator (TRS) (AN/FPQ-23), two (2) Threat Platform Simulators (TPS) (AN/ULQ-13 (XDV-2(V))), a signal Noise Jammer Simulator (NJS) (AN/FLQ-4), and a signal Outboard Stimulator (OBS) (AN/FSQ-154). The purpose of the Electronic Warfare Range is to provide full spectrum electronic warfare operation training for surface, sub-surface, combat system teams and fleet aircrews.

Interconnectivity/Mult-Use of T&E Facility: N/A

Type of Test Supported: Electronic Support Measures (ESM) equipment verification testing.

Summary of Technical Capabilities: Instrumentation/Assets:

- 2 ALQ-167 Jammer Pods
- 4 AST-4 Missile Simulator Pods
- 2 TPS (AN/ULQ-139XDV-2) (V))
- 1 TRS (AN/FPQ-23)
- 1 NJS (AN/FLQ-4)
- 2 UYA-4 NTDS Consoles
- Atlantic Fleet Weapons Training Facility UHF Communications Equipment

No electronic recording equipment available for data compilation of electronic support measures simulations.

Keywords: EWR - Electronic Warfare Range

- TPS - Threat Platform Simulator
- TRS - Threat Radiation Simulator
- OBS - Outboard Stimulator
- ESM - Electronic Support Measures
- ECM - Electronic Counter Measures
- NTDS - Naval Tactical Data System
- REWS - Range Electronic Warfare System
- GTE - Ground Threat Emitter
- SAM - Surface to Air Missile

TECHNICAL INFORMATION

Facility/Capability Title:

UNDERWATER TRACKING RANGE (UTR)

Facility Description; Including mission statement: The UTR supports all facets of training fleet units in Anti-submarine Warfare. Open ocean instrumented range exercises take place with the fleet involving exercise torpedoes, ASW targets, submarines, sonar systems and ASW mines. RDT&E is tailored to the customers' needs on a limited basis.

Interconnectivity/Multit-Use of T&E Facility: None at present.

Type of Test Supported: Torpedo firings, submarine training readiness evaluations, and any operation for which precise in water special data is required.

Summary of Technical Capabilities: The Underwater Range facility, located on the west coast of St. Croix, provides the capability to conduct a variety of Anti submarine Warfare exercises along with research/development and independent ship qualifications. Services available include torpedo firing exercises, Surface Ship Radiated Noise Measurement trails, submarine training readiness evaluations, and any operations for which precise, in-water spatial data is required. AFWTF provides exercise torpedoes, MK-30 targets, tracking instrumentation, and rapid post-analysis data products which can be custom made for the individual unit. Four hundred square nautical miles of instrumented acoustic tracking range allows multi-ship and submarine battle group training.

Keywords: Anti Submarine Warfare (ASW), Mobile Anti Submarine Warfare Target (NASWT) Portable Underwater Tracking Transducer (PUTT)

TECHNICAL INFORMATION

Facility/Capability Title:

Inner Range (IR)

Facility Description; Including mission statement: The Inner Range complex is a multi-purpose target complex consisting of NGFS, air-to-ground, mining and land based supporting arms ranges with amphibious operating areas and landing beaches, capable of conducting all types of operations/scenarios simultaneously.

Interconnectivity/Mult-Use of T&E Facility: Naval Surface Warfare Center, Crane IN., Long Range NGFS test. Naval Special Weapons Center, Dahlgren VA., Long Range NGFS test.

Type of Test Supported: Long range NGFS test, Combat Systems Ships Qualification Trials, Range Accuracy Monitoring Program, Over-the-Horizon Missile tracking, Radar Beacon Acquisition (RBA) exercises.

Summary of Technical Capabilities: Skin and beacon tracking - Nike Hercules radar; RBA exercises - AN/PPN-19 RABFAC beacon; Optical scoring with Weapons Impact Scoring System, Acoustical Strafe scoring - EON scoring system

Keywords: Naval Gunfire Support (NGFS), Combat Systems Ship Qualification Test (CSSQT), Radar Beacon Acquisition (RBA), Range Accuracy Monitoring Program (RAMP), Inner Range (IR), Eastern Training Area (ETA), Long Range Naval Gunfire Support (LRNGFS).

TECHNICAL INFORMATION

Facility/Capability Title: _____

Outer Range

Facility Description; Including mission statement:

The Outer Range encompasses two open ocean OPAREAS, Alfa or North Range, and Bravo or South Range. It is utilized for various types of live ordnance exercises and other events requiring large air or sea space. The Range operations center (ROC) located at AFWTF Headquarters is the control center for all outer range activities. All data from radar, IFF, NTDS links and other sources are received, processed, and displayed at the ROC. Operational data are recorded for exercise reconstruction or mission playback for concerned personnel.

Interconnectivity/Multit-Use of T&E Facility:

Inter connectivity to the exercise participant through LINK-11 (LINK4A future). No multi use use other type facilities.

Type of Test Supported: Surface to air, air to air, surface to surface, and air to surface missile firing. Surface to air, surface to surface gunnery.

Summary of Technical Capabilities:
Long range air and surface surveillance, aerial target control and tracking IFF, Naval Tactical Data System (NTDS) with associated data links, UHF/VHF/HF communications station.

Keywords:

- ROC - Range Operations Center
- NTDS - Naval Tactical Data System
- IFF - Identification Friend or FOE

FACILITY CONDITION

FACILITY/CAPABILITY TITLE: OUTER RANGE

AGE: 1964 (30) REPLACEMENT VALUE: \$428 Million (includes cost of equipment replacement)

MAINTENANCE AND REPAIR BACKLOG: None

DATE OF LAST UPGRADE: 1993

NATURE OF LAST UPGRADE: Installation of a nike-hercules Radar at Pico del Este, Puerto Rico

MAJOR UPGRADES PROGRAMMED

1. UPGRADE TITLE: Next generation target control system

TOTAL PROGRAMMED AMOUNT: \$100 Million

SUMMARY DESCRIPTION: Replace existing ITCS

2. UPGRADE TITLE: Keep Alive ITCS

TOTAL PROGRAMMED AMOUNT: _____

SUMMARY DESCRIPTION: Keep alive ITCS until installation of next generation Target Control System.

3. UPGRADE TITLE: Fleet area control and surveillance Facility (FACSFAC)

TOTAL PROGRAMMED AMOUNT: \$700 K (Est)

SUMMARY DESCRIPTION: Upgrade the military Radar Unit (MRU) to provide full air-traffic control and

communications capability with Range Operating area.

FACILITY CONDITION

FACILITY/CAPABILITY TITLE: Inner Range (IR)

AGE: 1963
replacement)

REPLACEMENT VALUE: \$6 Million (includes cost of equipment
replacement)

MAINTENANCE AND REPAIR BACKLOG: None

DATE OF LAST UPGRADE: 1993

NATURE OF LAST UPGRADE: Laser target upgrade/repairs for aircrew target designation performance
evaluation.

MAJOR UPGRADES PROGRAMMED

1. UPGRADE TITLE: Weapon Impact Scoring System (WISS) Upgrade

TOTAL PROGRAMMED AMOUNT: \$900K

SUMMARY DESCRIPTION: Provide Mining Scoring

Capability in addition to Bomb Scoring.

2. UPGRADE TITLE: _____

TOTAL PROGRAMMED AMOUNT: _____

SUMMARY DESCRIPTION: _____

FACILITY CONDITION

FACILITY/CAPABILITY TITLE: UNDERWATER TRACKING RANGE (UTR)

AGE: 1967 REPLACEMENT VALUE: \$100 million (includes equipment replacement cost)

MAINTENANCE AND REPAIR BACKLOG: NONE

DATE OF LAST UPGRADE: DECEMBER 1992

NATURE OF LAST UPGRADE: PROCESSING SYSTEM UPGRADED TO A TWELVE TARGET TRACKING SYSTEM
PREVIOUS SYSTEM WAS AN EIGHT TRACK PROCESSOR.

MAJOR UPGRADES PROGRAMMED

1. UPGRADE TITLE: Underwater hydrophone repair /replacement

TOTAL PROGRAMMED AMOUNT: \$10 million

SUMMARY DESCRIPTION: Repair/replace 9 hydrophone arrays

2. UPGRADE TITLE: Underwater communications system

TOTAL PROGRAMMED AMOUNT: \$1 million

SUMMARY DESCRIPTION: provide underwater communication system to the

UTR

FACILITY CONDITION

FACILITY/CAPABILITY TITLE: Electronic Warfare Range (EWR)

AGE: 1974 (20) REPLACEMENT

VALUE: \$120 million (includes equipment replacement cost)

MAINTENANCE AND REPAIR BACKLOG: Unknown

DATE OF LAST UPGRADE: 20 April 1994

NATURE OF LAST UPGRADE: Range Electronic Warfare Systems (REWS) installation provides for remote control and integration of all land based EWR assets.

MAJOR UPGRADES PROGRAMMED

1. UPGRADE TITLE: Ground Threat Emitter (GTE) 10/94

TOTAL PROGRAMMED AMOUNT: \$265,000.00

SUMMARY DESCRIPTION: ESM simulation for surface to air

(SAM) and triple A (AAA) threats.

2. UPGRADE TITLE: _____

TOTAL PROGRAMMED AMOUNT: _____

SUMMARY DESCRIPTION: _____

DETERMINATION OF UNCONSTRAINED CAPACITY

FACILITY/CAPABILITY TITLE: Electronic Warfare Range (EWR)

ANNUAL HOURS OF DOWNTIME	1. <u>0</u>
AVERAGE DOWNTIME PER DAY (LINE 1 ÷ 365)	2. <u>0</u>
AVERAGE HOURS AVAILABLE PER DAY (24 - LINE 2)	3. <u>24</u>

TEST TYPES	TESTS AT ONE TIME	WORKLOAD PER TEST PER FACILITY HOUR	WORKLOAD PER FACILITY HOUR	UNCONSTRAINED CAPACITY PER DAY (LINE 3 X TOTAL) 8
4	5	6	7	<u>288</u>
<u>Design validation</u>	<u>3</u>	<u>4</u>	<u>12</u>	
_____	_____	_____	_____	ANNUAL UNCONSTRAINED CAPACITY
_____	_____	_____	_____	9 <u>105,120</u>
_____	_____	_____	_____	
_____	_____	_____	_____	
<u>"TYPICAL"</u>	_____	_____	_____	
"	_____	_____	_____	
-	_____	_____	_____	
			TOTAL Σ	<u>12</u>

DETERMINATION OF UNCONSTRAINED CAPACITY

FACILITY/CAPABILITY TITLE: UNDERWATER TRACKING RANGE

ANNUAL HOURS OF DOWNTIME 1. 0

AVERAGE DOWNTIME PER DAY (LINE 1 ÷ 365) 2. 0

AVERAGE HOURS AVAILABLE PER DAY (24 - LINE 2) 3. 24

TEST TYPES	TESTS AT ONE TIME	WORKLOAD PER TEST PER FACILITY HOUR	WORKLOAD PER FACILITY HOUR	UNCONSTRAINED CAPACITY PER DAY (LINE 3 X TOTAL Σ)
4	5	6	7	8
<u>CSSQT</u>	<u>2</u>	<u>544</u>	<u>1088</u>	<u>8,26,112</u>
_____	_____	_____	_____	ANNUAL UNCONSTRAINED CAPACITY
_____	_____	_____	_____	9 <u>9,530,880</u>
_____	_____	_____	_____	
_____	_____	_____	_____	
<u>"TYPICAL"</u>	_____	_____	_____	
"	_____	_____	_____	
_____	_____	_____	_____	
			TOTAL Σ	<u>1088</u>

DETERMINATION OF UNCONSTRAINED CAPACITY

FACILITY/CAPABILITY TITLE: _____ Outer Range _____

ANNUAL HOURS OF DOWNTIME 1. 4380
 AVERAGE DOWNTIME PER DAY (LINE 1 ÷ 365) 2. 12 Hrs.
 AVERAGE HOURS AVAILABLE PER DAY (24 - LINE 2) 3. 12 Hrs.

TEST TYPES	TESTS AT ONE TIME	WORKLOAD PER TEST PER FACILITY HOUR	WORKLOAD PER FACILITY HOUR	UNCONSTRAINED CAPACITY PER DAY (LINE 3 X TOTAL Σ)
4	5	6	7	8 <u>14,400</u>
<u>Sur-to-Air MSLX</u>	<u>1</u>	<u>240</u>	<u>240</u>	
<u>Air to Air MSLX</u>	<u>1</u>	<u>240</u>	<u>240</u>	
<u>Air to Surface MSLX</u>	<u>1</u>	<u>240</u>	<u>240</u>	9 <u>5,256,000</u>
_____	<u>1</u>	<u>240</u>	<u>240</u>	
_____	<u>1</u>	<u>240</u>	<u>240</u>	
<u>"TYPICAL"</u>	_____	_____	_____	
<u>"</u>	_____	_____	_____	

TOTAL Σ 1200

DETERMINATION OF UNCONSTRAINED CAPACITY

FACILITY/CAPABILITY TITLE: _____ Inner Range (IR) _____

ANNUAL HOURS OF DOWNTIME 1. 1680
 AVERAGE DOWNTIME PER DAY (LINE 1 ÷ 365) 2. 4.6
 AVERAGE HOURS AVAILABLE PER DAY (24 - LINE 2) 3. 19.4

NOTE: ETA avail 24hr/day 365 day a year

TEST TYPES	TESTS AT ONE TIME	WORKLOAD PER TEST PER FACILITY HOUR	WORKLOAD PER FACILITY HOUR	UNCONSTRAINED CAPACITY PER DAY (LINE 3 X TOTAL Σ)
4	5	6	7	8. <u>1,707.2</u>
LRNGFS	<u>1</u>	<u>88</u>	<u>88</u>	
_____	_____	_____	_____	ANNUAL UNCONSTRAINED CAPACITY
_____	_____	_____	_____	9 <u>623,128</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
<u>"TYPICAL</u>	_____	_____	_____	_____
"	_____	_____	_____	_____
-	_____	_____	_____	_____
			TOTAL Σ <u>88</u>	

GENERAL INFORMATION

Facility/Capability Title: _____

Outer Range _____

Origin Date: 4-29-94 _____

Service: N Organization/Activity: Atlantic Fleet Weapons Training Facility (AFWTF)

Location: Naval Station, Roosevelt Roads, PR

T&E Functional Area: ARMAMENT/WEAPONS UIC = 0017A

T&E Test Facility Category Open Air Ranges

	<u>T&E</u>	<u>S&T</u>	<u>D&E</u>	<u>IE</u>	<u>T&D</u>	<u>OTHER</u>	= 100%
PERCENTAGE USE:	<u>30%</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>70%</u>	

BREAKOUT BY T&E FUNCTIONAL AREA (%)

Air Vehicles	<u> </u>						
Armanent/Weapons	<u>30%</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>70%</u>	
EC	<u> </u>						
Other	<u> </u>						

Total in Breakout Must Equal "Percentage Use" On First Line

GENERAL INFORMATION

Facility/Capability Title: Inner Range (IR)

Origin Date: 4-29-94

Service: <u>N</u>	Organization/Activity: <u>Atlantic Fleet</u>							
Weapons Training Facility								
Location: <u>Vieques PR</u>								
T&E Functional Area: <u>Armament/Weapons</u>	UIC = <u>0017A</u>							
T&E Test Facility Category <u>Open Air Ranges</u>								
	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><u>T&E</u></td> <td style="text-align: center;"><u>S&T</u></td> <td style="text-align: center;"><u>D&E</u></td> <td style="text-align: center;"><u>IE</u></td> <td style="text-align: center;"><u>T&D</u></td> <td style="text-align: center;"><u>OTHER</u></td> <td style="text-align: right;">= 100%</td> </tr> </table>	<u>T&E</u>	<u>S&T</u>	<u>D&E</u>	<u>IE</u>	<u>T&D</u>	<u>OTHER</u>	= 100%
<u>T&E</u>	<u>S&T</u>	<u>D&E</u>	<u>IE</u>	<u>T&D</u>	<u>OTHER</u>	= 100%		
PERCENTAGE USE:	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><u>5%</u></td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td style="text-align: center;"><u>95%</u></td> <td style="text-align: center;">—</td> <td></td> </tr> </table>	<u>5%</u>	—	—	—	<u>95%</u>	—	
<u>5%</u>	—	—	—	<u>95%</u>	—			
BREAKOUT BY T&E FUNCTIONAL AREA (%)								
Air Vehicles	— — — — —							
Armanent/Weapons	<u>5%</u> — — — — <u>95%</u>							
EC	— — — — —							
Other	— — — — —							
Total in Breakout Must Equal "Percentage Use" On First Line								

GENERAL INFORMATION

Facility/Capability Title: _____

Electronic Warfare Range (EWR) _____

Origin Date: _____

27 April 1994 _____

Service: <u>USN</u> (AFWTF)	Organization/Activity: <u>Atlantic Fleet Weapons Training Facility</u>
Location: <u>Roosevelt Roads, PR</u>	
T&E Functional Area: <u>Electronic Combat</u>	UIC = <u>0017A</u>
T&E Test Facility Category: <u>Open Air Ranges</u>	
PERCENTAGE USE: <u>8.75%</u>	<u>91.25%</u>
BREAKOUT BY T&E FUNCTIONAL AREA (%)	
Air Vehicles	_____
Armament/Weapons	_____
EC	<u>8.75%</u>
Other	_____
Total in Breakout Must Equal "Percentage Use" On First Line	

GENERAL INFORMATION

Facility/Capability Title: Underwater Tracking Range (UTR)

Origin Date: 4-29-94

Service: N

Organization/Activity AFWTF
Location: UTR Facility St. Croix, U.S.V.I.

T&E Functional Area: Armament/Weapons

UIC: 0017A

T&E Test Facility Category: Open Air Range

PERCENTAGE USE: T&E S&T D&E IE T&D OTHER = 100%
 10% — — — 90% —

BREAKOUT BY T&E FUNCTIONAL AREA (%)

Air Vehicles	—	—	—	—	—	—
Armament/Weapons	<u>10%</u>	—	—	—	<u>90%</u>	—
EC	—	—	—	—	—	—
Other	—	—	—	—	—	—

Total in Breakout Must Equal "Percentage Use" On First Line

HISTORICAL WORKLOAD

FACILITY/CAPABILITY TITLE: Inner Range (IR)

T&E FUNCTIONAL AREA		FISCAL YEAR							
		86	87	88	89	90	91	92	93
AIR VEHICLES N/A	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
EC N/A	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
ARMAMENT/WEAPONS	DIRECT LABOR	2127	2618	2576	2489	2397	1960	2300	176 5
	TEST HOURS	(1)	(1)	(1)	(1)	(1)	10	30	20
	MISSIONS	1416	2316	2291	2836	2559	2116	2419	208 4
OTHER T&E	DIRECT LABOR	(1)	(1)	(1)	(1)	(1)	10	30	20
	TEST HOURS	(1)	(1)	(1)	(1)	(1)	10	30	20

	MISSIONS	(1)	(1)	(1)	(1)	(1)	10	30	20
OTHER	DIRECT LABOR								
N/A	TEST HOURS								
	MISSIONS								

NOTE: (1) Data unavailable

OTHER N/A	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								

HISTORICAL WORKLOAD

FACILITY/CAPABILITY TITLE: Electronic Warfare Range (EWR)

T&E FUNCTIONAL AREA		FISCAL YEAR							
		86	87	88	89	90	91	92	93
AIR VEHICLES	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
EC	DIRECT LABOR	(1)	(1)	(1)	409 2	165 1	200 4	213 0	286 6
	TEST HOURS	(1)	(1)	(1)	409 2	165 1	200 4	213 0	223 1
	MISSIONS	(1)	(1)	(1)	914	526	475	504	467
ARMAMENT/WEAPONS	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
OTHER T&E	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								
OTHER	DIRECT LABOR								
	TEST HOURS								
	MISSIONS								

Note: (1) Data unavailable

AFWTF ROOSEVELT ROADS UIC N0017A
DATA CALL THIRTEEN

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

H. H. MAUZ, JR.

NAME (Please type or print)

Signature

Admiral

Title Commander in Chief

U.S. Atlantic Fleet

Date

Activity

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

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

J. B. GREENE, JR.

NAME (Please type or print)

Signature

ACTING

Title

Date

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

NEXT ECHELON LEVEL (if applicable)

T. S. THERRELL
Name (Please type or print)

T. S. Therrell
Signature

CHIEF OF STAFF
Title

4 May 1994
Date

COMMANDER FLEET AIR CARIBBEAN
Activity

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

NEXT ECHELON LEVEL (if applicable)

L.P. LALLI
Name (Please type or print)

L.P. Lalli
Signature

ACTING
Title

5/6/94
Date

COMMANDER NAVAL AIR FORCE
Activity U.S. ATLANTIC FLEET

I certifying 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)

Signature

Title

Date

Activity

I certifying 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)

Signature

Title

Date

Activity

Activity: 0017A

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

ACTIVITY COMMANDER

B. L. LINER, CAPT, USN
Name


Signature

Commanding Officer
Title

4 May 94
Date

AFWTF (UIC 0017A)
Activity

Activity: 0017A

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

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

• Yes No (check one)

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

• Yes No (check one)

• Primary Host (current) UIC: 00389

• Primary Host (as of 01 Oct 1995) UIC: 00389

• Primary Host (as of 01 Oct 2001) UIC: 00389

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

• Yes No (check one)

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

Name	Location	UIC
N/A Command has no Class1/2 property.		

Activity: 0017A

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

Name	UIC	Location	Host name	Host UIC
N/A Command has no detachments.				

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

No, Command has not been impacted by previous BRAC decisions.

Activity: 0017A

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 (No BRAC Change)

- To operate, maintain, and develop facilities for training of fleet forces and other activities, for the development, test and evaluation, on a reimbursable basis, of weapons systems, and for live-fire of conventional air, surface, and sub-surface weapons on the following four major training ranges: Outer, Underwater, Inner, and Electronic Warfare.
- Outer Range provides support for surface-to-surface, air-to-air, surface-to-air, and air-to-surface missile firings in 194,000 square miles of open ocean CPAREAS.
- Underwater Tracking Range is an instrumented ocean area of approximately 400 square miles. Operations involve submarine, surface, and air units, with or without weapons, and may be either single ship or coordinated multi-unit ASW exercises.
- Inner Range is the eastern half of Vieques Island and the surrounding waters and airspace. The Vieques complex consists of a naval gunfire support (NGFS), air-to-ground (ATG), close air support (CAS), and artillery range, small arms ranges, amphibious landing beaches, practice minefields, maneuvering areas, and drop zones with electronic scoring capabilities.
- Electronic Warfare Range provides realistic electronic environment for the training of EW teams across all of the aforementioned ranges and supports a tactical electronic order-of-battle.

Projected Missions for FY 2001 (No BRAC Change)

- AFWTF projected missions include the technological upgrades and expansions necessary to continue to provide the most realistic three-dimensional training environment for the U.S. Armed forces and our allies.
- Future weapons testing and evaluation will continue to be a large segment of AFWTF.
- Detection and monitoring of ships and aircraft throughout the Caribbean for possible drug traffickers.

Activity: 0017A

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

- AFWTF is the only training facility that has the capability to train large battle groups in simultaneous multi-threat scenarios.
- Vieques complex is the only location in the world that has the capability to conduct simultaneous multi-faceted live-fire exercises.

Projected Unique Missions for FY 2001

- AFWTF will still be the only location where the various training exercises can be conducted simultaneously.

NOTE: No changes to current or projected Unique Missions are planned.
AFWTF has no National Command Authority or classified mission responsibility.

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>Commander Fleet Air, Caribbean</u>	<u>62919</u>
• Funding Source	UIC
<u>Commander Naval Air Force, U.S. Atlantic</u>	<u>57012</u>

Activity: 0017A

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

On Board Count as of 01 January 1994

	Officers	Enlisted	Civilian
(Appropriated)*			
• Reporting Command	<u>18</u>	<u>72</u>	<u>37</u>
• Tenants (total)	<u> </u>	<u> </u>	<u> </u>

Authorized Positions as of 30 September 1994

	Officers	Enlisted	Civilian (Appropriated)*
• Reporting Command	<u>20</u>	<u>74</u>	<u>40</u>
• Tenants (total)	<u> </u>	<u> </u>	<u> </u>

* Does not include approximately 400 contractor personnel who operate and maintain AFWTF facilities, including ranges and software development/maintenance, under DoD contract Nos. N00612-91-C-0223 and N00612-89-C-8005 issued by Regional Contracting Department, Naval Supply Center, Charleston, South Carolina.

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>B.L. Liner, CAPT, USN</u>	(809)865-4131	(809)865-0440	(809)865-1347
• Duty Officer	(809)865-7011	[N/A]	[N/A]
• BRAC Coordinator			
<u>E.M. BAUMGARTNER, CDR, USN</u>	(809)865-5215	(809)865-0440	(809)865-1207

ACTIVITY: 0017A

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

- Tenants residing on main complex (shore commands)

Tenant Command Name	UIC	Officer	Enlisted	Civilian
N/A				

AFWTF has no tenant commands.

- Tenants residing on main complex (homeported units.)

Tenant Command Name	UIC	Officer	Enlisted	Civilian
N/A				

AFWTF has no tenant or homeported units.

- 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					

AFWTF has no tenant commands.

- Tenants (Other than those identified previously)

Tenant Command Name	UIC	Location	Officer	Enlisted	Civilian
N/A					

AFWTF has no tenant commands.

Activity: 0017A

13. REGIONAL SUPPORT: Identify your relationship with other activities, not reported as a

host/tenant, for which you provide support. Again, this list should be all-inclusive. The intent of this question is capture the full breadth of the mission of your command and your customer/supplier relationships. Include in your answer any Government Owned/Contractor Operated facilities for which you provide administrative oversight and control.

Activity name	Location	Support function (include mechanism such as ISSA, MOU,etc.)
---------------	----------	---

<i>Martin Marietta Services, Inc.</i>	<i>NSRR</i>	<i>DoD Contract, MMS, Inc. operates and maintains AFWTF ranges, range operations and associated systems. (aprx 360 persons non-appropriated)</i>
<i>Colsa Corporaton</i>	<i>NSRR</i>	<i>DoD Contract, Colsa develops and maintains systems software. (aprx 40 persons non-appropriated)</i>
<i>Atlantic Fleet Naval Units</i>	<i>PROA</i>	<i>ASW, NGFS, ATG, surface-to-surface, air-to-air, air-to-surface, EW services, SPECWAR Ops, Mine., SSRNM, battle group Ops, CSSQT and CAS - on range.</i>
<i>Fleet Marine Forces Atlantic</i>	<i>PROA</i>	<i>CAS, artillery, small arms ranges, amphibious ops, air-to-air, swim ops, ATG, EW services, para drops, and small unit tactics-on range.</i>
FOREIGN UNITS <i>Peruvian Navy</i>	<i>PROA</i>	<i>EW services, ASW, NGFS, surface-to-air, and surface-to-surface on range.</i>
<i>Venezuelan Navy</i>	<i>PROA</i>	<i>Amphibious ops, helo assaults, small arms, NGFS, surface-to-air, EW services, and ASW-on range.</i>
<i>French Marines</i>	<i>PROA</i>	<i>Amphibious ops, small arms, and helo assaults-on range.</i>
<i>Brazilian Navy</i>	<i>PROA</i>	<i>Surface-to-air and surface-to surface-on range.</i>
<i>Royal Navy (UK)</i>	<i>PROA</i>	<i>Surface-to-air, EW services, NGFS, surface-to-surface, and ASW-on range.</i>
<i>Canadian Navy</i>	<i>PROA</i>	<i>ASW, surface-to-air, surface-to-surface, NGFS, EW services-on range.</i>
<i>Dutch Navy</i>	<i>PROA</i>	<i>Surface-to-surface, surface-to-air, EW services, and ASW-on range.</i>
		<i>Surface-to-air, surface-to-surface, ASW, EW services, and NGFS-on range.</i>

Activity: 0017A

Abbreviations:

NGFS Naval gunfire support
ASW Anti-submarine warfare
EW Electronic warfare
CAS Close air support
ATG Air-to-ground
CSSQT Combat ship systems qualification trials
PROA Puerto Rico operating area
NSRR Naval Station Roosevelt Roads, PR

NOTE: Abbreviations provided to facilitate identification of Block 13 Regional Support inputs. Input provided by: CDR E.M. Baumgartner, 015, 28 JAN 94.

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.)
Data for all AFWTF sites will be provided in Naval Station Roosevelt Roads, Puerto Rico, BRAC 95 Data Call 1 input.

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

ACTIVITY COMMANDER

B. L. LINER, CAPT, USN
Name


Signature

Commanding Officer
Title

28 Jan 94
Date

AFWTF
Activity

Enclosure (2)

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

NEXT ECHELON LEVEL (if applicable)

E. E. CHRISTENSEN
Name (Please type or print)

E. E. Christensen
Signature

Commander
Title

31 Jan 94
Date

Commander Fleet Air, Caribbean
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)

L.P. LALLI
Name (Please type or print)

L.P. Lalli
Signature

Chief of Staff
Title

11 Feb 94
Date

Commander, Naval Air Forces
U.S. Atlantic Fleet (Acting)
Activity

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

MAJOR CLAIMANT LEVEL

H. H. MAUZ, JR.
Name (Please type or print)

H. H. Mauz, Jr.
Signature

ADMIRAL, U.S. NAVY
Title

2/15/94
Date

Commander In Chief
U.S. Atlantic Fleet
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)**

S. F. Loftus
Name (Please type or print)
Vice Admiral, U.S. Navy
Deputy Chief of Naval Operations (Logistics)
Title

S. F. Loftus
Signature

17 FEB 1994
Date