DCN 847

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DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

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

Activity Name:	**Naval Warfare Assessment Division, Corona, CA**
UIC:	**64267**
Major Claimant:	**Naval Sea Systems Command**

General Instructions/Background:

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

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

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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:	**$44,500**

Source of Data (1.a. Salary Rate): Civilian Personnel Resource Reporting System (April/May 1994)

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

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

County of Residence*	State	No. of Employees Residing in County		Percentage of Total Employees	Average Distance From Base (Miles)	Average Duration of Commute (Minutes)
		Military	Civilian			
Riverside	CA	3	578	62	15	25
San Bernardino	CA	0	181	19	28	40
Orange	CA	1	96	10	28	40
Los Angeles	CA	0	74	8	44	60
San Diego	CA	1	3	1	90	120

= 100%

* Reflects personnel who work on main installation. Does not reflect field activity personnel.

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.

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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:

No employees live in government housing.

Source of Data (1.b. 1) & 2) Residence Data): Local Rideshare Survey

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.

This question 1.c. requests that this activity identify all major metropolitan areas with population concentrations of 100,000 or more people which are within 50 miles of the installation. The methodology chosen was to identify cities with a population >100k that are within a 50 mile radius of Norco. The data source was Urban Decision Systems, Inc. Their data base contains the 1990 census data and quarterly projections based on a variety of demographic changes. Urban Decision Systems, Inc. provided a report #304607 dated 12 July 1994 which included the demographics of the identified cities based on their 1 April 1994 data. The adjacent cities of Norco and Corona were added due to their close proximity . The following is a summary of the key elements of that report for the cities identified:

City	County	Distance from base (miles)
Anaheim	Los Angeles	21
East Los Angeles	Los Angeles	30
El Monte	Los Angeles	29
Fullerton	Los Angeles	20
Glendale	Los Angeles	42
Inglewood	Los Angeles	44

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Long Beach	Los Angeles	37
Los Angeles	Los Angeles	39
Pasadena	Los Angeles	36
Pomona	Los Angeles	14
Torrance	Los Angeles	44
Garden Grove	Orange	24
Huntington Beach	Orange	31
Irvine	Orange	25
Orange	Orange	19
Santa Ana	Orange	22
Moreno Valley	Riverside	20
Norco/Corona	Riverside	2
Riverside	Riverside	11
Ontario	San Bernardino	10
Rancho Cucamonga	San Bernardino	12
San Bernardino	San Bernardino	19

Source of Data (1.c. Metro Areas): Urban Decision Systems, Inc. Report #304607 12 July 1994

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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	15	1.6
25 - 34 Years	364	38.4
35 - 44 Years	243	25.7
45 - 54 Years	244	25.8
55 - 64 Years	75	7.9
65 or Older	6	0.6
TOTAL	947	100 %

Source of Data (1.d.) Age Data): DCPDS Desire List of 2 July 1994

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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	50	5.3
1-3 Years of College	174	18.4
4 Years of College (Bachelors Degree)	580	61.2
5 or More Years of College (Graduate Work)	143	15.1
TOTAL	947	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.)	11
Associate Degree	37
Bachelor Degree	580

Masters Degree	133
Doctorate	10

Source of Data (1.e.1) and 2) Education Level Data): DCPDS Desire List of 25 April 1994

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	0
2. Construction (includes facility maintenance and repair)	15-17	0	0
3. Manufacturing (includes Intermediate and Depot level maintenance)	20-39		
3a. Fabricated Metal Products (include	34	0	0

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Industry	SIC Codes	No. of Civilians	% of Civilians
ordnance, ammo, etc.)			
3b. Aircraft (includes engines and missiles)	3721 et al	0	0
3c. Ships	3731	0	0
3d. Other Transportation (includes ground vehicles)	various	34	3.6
3e. Other Manufacturing not included in 3a. through 3d.	various	0	0
Sub-Total 3a. through 3e.	20-39	34	3.6
4. Transportation/Communications/Utilities	40-49		
4a. Railroad Transportation	40	0	0
4b. Motor Freight Transportation & Warehousing (includes supply services)	42	0	0
4c. Water Transportation (includes organizational level maintenance)	44	0	0
4d. Air Transportation (includes organizational level maintenance)	45	0	0
4e. Other Transportation Services (includes organizational level maintenance)	47	0	0
4f. Communications	48	0	0
4g. Utilities	49	0	0
Sub-Total 4a. through 4g.	40-49	0	0
5. Services	70-89		
5a. Lodging Services	70	0	0
5b. Personal Services (includes laundry and funeral services)	72	0	0

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Industry	SIC Codes	No. of Civilians	% of Civilians
5c. Business Services (includes mail, security guards, pest control, photography, janitorial and ADP services)	73	19	2
5d. Automotive Repair and Services	75	0	0
5e. Other Misc. Repair Services	76	0	0
5f. Motion Pictures	78	0	0
5g. Amusement and Recreation Services	79	0	0
5h. Health Services	80	0	0
5i. Legal Services	81	0	0
5j. Educational Services	82	0	0
5k. Social Services	83	0	0
5l. Museums	84	0	0
5m. Engineering, Accounting, Research & Related Services (includes RDT&E, ISE, etc.)	87	729	77
5n. Other Misc. Services	89	151	16
Sub-Total 5a. through 5n.:	70-89	899	95
6. Public Administration	91-97		
6a. Executive and General Government, Except Finance	91	0	0
6b. Justice, Public Order & Safety (includes police, firefighting and emergency management)	92	14	1.4
6c. Public Finance	93	0	0
6d. Environmental Quality and Housing Programs	95	0	0

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Industry	SIC Codes	No. of Civilians	% of Civilians
Sub-Total 6a. through 6d.		14	1.4
TOTAL		947	100 %

Source of Data (1.f.) Classification By Industry Data): DCPDS Desire List of June 1994	**9**

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	124	13.1
2. Professional Specialty		
2a. Engineers	495	52.3
2b. Architects and Surveyors	0	0

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Occupation	Number of Civilian Employees	Percent of Civilian Employees
2c. Computer, Mathematical & Operations Research	77	8.1
2d. Life Scientists	0	0
2e. Physical Scientists	9	1.0
2f. Lawyers and Judges	0	0
2g. Social Scientists & Urban Planners	0	0
2h. Social & Recreation Workers	0	0
2i. Religious Workers	0	0
2j. Teachers, Librarians & Counselors	0	0
2k. Health Diagnosing Practitioners (Doctors)	0	0
2l. Health Assessment & Treating(Nurses, Therapists, Pharmacists, Nutritionists, etc.)	0	0
2m. Communications	0	0
2n. Visual Arts	8	0.8
Sub-Total 2a. through 2n.:	589	62.2
3. Technicians and Related Support		
3a. Health Technologists and Technicians	0	0
3b. Other Technologists	118	12.5
Sub-Total 3a. and 3b.:	118	12.5
4. Administrative Support & Clerical	97	10.2
5. Services		
5a. Protective Services (includes guards, firefighters, police)	14	1.5
5b. Food Preparation & Service	0	0

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Occupation	Number of Civilian Employees	Percent of Civilian Employees
5c. Dental/Medical Assistants/Aides	0	0
5d. Personal Service & Building & Grounds Services (includes janitorial, grounds maintenance, child care workers)	0	0
Sub-Total 5a. through 5d.	14	1.5
6. Agricultural, Forestry & Fishing	0	0
7. Mechanics, Installers and Repairers	0	0
8. Construction Trades	0	0
9. Production Occupations	5	0.5
10. Transportation & Material Moving	0	0
11. Handlers, Equipment Cleaners, Helpers and Laborers (not included elsewhere)	0	0
TOTAL	947	100 %

Source of Data (1.g.) Classification By Occupation Data): DCPDS Desire List of 9 June 1994

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.

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

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

1. Percentage of Military Employees Who Are Married:	40
2. Percentage of Military Spouses Who Work Outside of the Home:	50
3. Break out of Spouses' Location of Employment (Total of rows 3a. through 3d. should equal 100% and reflect the number of spouses used in the calculation of the "Percentage of Spouses Who Work Outside of the Home".	
3a. Employed "On-Base" - Appropriated Fund:	0
3b. Employed "On-Base" - Non-Appropriated Fund:	0
3c. Employed "Off-Base" - Federal Employment:	0
3d. Employed "Off-Base" - Other Than Federal Employment	100 %

Source of Data (1.h.) Spouse Employment Data): NWAD Executive Officer Survey of 7 July 1994

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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.

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a. Table A: Ability of the local community to meet the expanded needs of the base. The local community used is the city of Norco, CA.

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	B
Schools - Public	A	B	B
Schools - Private	A	B	B
Public Transportation - Roadways	A	A	B
Public Transportation - Buses/Subways	A	A	A
Public Transportation - Rail	N/A	N/A	N/A
Fire Protection	A	A	A
Police	A	A	A
Health Care Facilities	A	A	A
Utilities:	----------	--------	--------
Water Supply	A*	A*	A*
Water Distribution	A*	A*	A*
Energy Supply	A	A	A
Energy Distribution	A	A	A
Wastewater Collection	A	A	A
Wastewater Treatment	A	A	A
Storm Water Collection	A	A	A
Solid Waste Collection and Disposal	A	A	A
Hazardous/Toxic Waste Disposal	A	A	A
Recreational Activities	A	A	B

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

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

Not applicable.

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

a. INTERVIEW: Lynda Jankel, 8 July 1994, Manager, Facilities Planning & Development Corona-Norco Unified School District

b. INTERVIEW: Brian Oulman, 8 July 1994, Economic Development Coordinator, City of Norco

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b. Table B: Ability of the region described in the response to question 1.b. (page 3) (taken in the aggregate) to meet the needs of additional employees and their families relocating into the area. The region used is Riverside and San Bernardino counties in California.

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

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

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Category	20% Increase	50% Increase	100% Increase
Recreation Facilities	A	A	A

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

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.

Not applicable.

Source of Data (2.b. 1) & 2) - Regional Table): Inland Empire Economic Partnership, Ontario, CA

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3. Public Facilities Data:

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

Rental Units: **14.7%***

Units for Sale: **14.7%***

***Note: The overall vacancy rate for renter and owner occupied housing is estimated to be 14.7%. This estimate is obtained by combining the vacancy rates for Riverside and San Bernardino Counties reported by the California State Department of Finance using the respective number of households listed in "The Inland Empire Abstract 1994". While the relative number of renter and owner occupied households has not been reported, it is estimated that they are similar in magnitude. Accordingly, it is recommended that 14.7% be used for both renter and owner occupied housing. This equates to an approximate aggregate of 140,000 unoccupied units on average.**

Source of Data (3.a. Off-Base Housing):

a. California State Department of Finance report E5 for 1994

b. "The Inland Empire Abstract 1994" 2nd Edition of December 1994

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b. **Education.**

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

School District	County	Number of Schools			Enrollment		Pupil-to-Teacher Ratio		Does School District Serve Gov't Housing Units? *
		Element-ary	Middle	High	Current	Max. Capacity	Current	Max. Ratio	
Alvord	Riverside	11	3	2	16,474	Note 1	Note 2	30:1	
Banning	Riverside	4	1	1	4,668	Note 1	Note 2	30:1	
Beaumont	Riverside	4	1	2	3,348	Note 1	Note 2	30:1	
Cochella Valley	Riverside	10	1	2	10,101	Note 1	Note 2	30:1	
Corona-Norco	Riverside	18	4	7	25,655	Note 1	Note 2	30:1	
Desert Center	Riverside	1	0	0	91	Note 1	Note 2	30:1	
Desert Sands	Riverside	12	5	3	17,926	Note 1	Note 2	30:1	
Hemet	Riverside	10	1	4	14,090	Note 1	Note 2	30:1	
Jurupa	Riverside	15	2	2	16,514	Note 1	Note 2	30:1	
Lake Elsinore	Riverside	10	2	2	12,901	Note 1	Note 2	30:1	
Menifee	Riverside	3	1	0	3,062	Note 1	Note 2	30:1	
Moreno Valley	Riverside	22	6	5	31,621	Note 1	Note 2	30:1	
Murrieta Valley	Riverside	5	1	2	7,043	Note 1	Note 2	30:1	
Nuevo	Riverside	2	1	0	1,253	Note 1	Note 2	30:1	
Palm Springs	Riverside	13	3	2	16,429	Note 1	Note 2	30:1	
Palo Verde	Riverside	3	1	1	3,727	Note 1	Note 2	30:1	
Perris Elementary	Riverside	4	0	0	3,828	Note 1	Note 2	30:1	
Perris Union High	Riverside	0	1	2	3,915	Note 1	Note 2	30:1	
Riverside	Riverside	26	5	4	33,655	Note 1	Note 2	30:1	
Romoland Elementary	Riverside	2	0	0	968	Note 1	Note 2	30:1	
San Jacinto Unified	Riverside	4	1	1	4,403	Note 1	Note 2	30:1	
Temecula	Riverside	6	2	2	9,930	Note 1	Note 2	30:1	
Val Verde	Riverside	7	2	1	7,579	Note 1	Note 2	30:1	

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Adelanto	San Bernardino	6	0	0	2,149	Note 1	Note 2	30:1	
Alta Loma	San Bernardino	7	2	0	7,440	Note 1	Note 2	30:1	
Apple Valley Unified	San Bernardino	8	2	1	12,596	Note 1	Note 2	30:1	
Baker Valley Unified	San Bernardino	2	1	1	210	Note 1	Note 2	30:1	
Barstow Unified	San Bernardino	8	2	1	7,148	Note 1	Note 2	30:1	
Bear Valley Unified	San Bernardino	3	1	1	3,187	Note 1	Note 2	30:1	
Central	San Bernardino	5	2	0	4,664	Note 1	Note 2	30:1	
Chaffey Joint Union High	San Bernardino	0	0	6	14,442	Note 1	Note 2	30:1	
Chino Unified	San Bernardino	18	5	4	25,503	Note 1	Note 2	30:1	
Colton Joint Unified	San Bernardino	16	4	2	16,780	Note 1	Note 2	30:1	
Cucamonga	San Bernardino	3	1	0	2,250	Note 1	Note 2	30:1	
Etiwanda	San Bernardino	4	1	0	4,030	Note 1	Note 2	30:1	
Fontana Unified	San Bernardino	21	5	2	30,275	Note 1	Note 2	30:1	
Helendale	San Bernardino	1	1	0	520	Note 1	Note 2	30:1	
Hesperia Unified	San Bernardino	10	2	1	13,937	Note 1	Note 2	30:1	
Lucerne Valley Unified	San Bernardino	1	1	1	1,268	Note 1	Note 2	30:1	
Morongo Unified	San Bernardino	10	2	2	10,203	Note 1	Note 2	30:1	
Mountain View	San Bernardino	3	1	0	2,650	Note 1	Note 2	30:1	
Mt. Baldy Joint	San Bernardino	1	0	0	85	Note 1	Note 2	30:1	
Needles Unified	San Bernardino	7	1	1	1,650	Note 1	Note 2	30:1	
Ontario-Montclair	San Bernardino	26	5	0	22,062	Note 1	Note 2	30:1	
Oro Grande	San Bernardino	1	0	0	170	Note 1	Note 2	30:1	
Redlands Unified	San Bernardino	14	2	1	16,800	Note 1	Note 2	30:1	
Rialto Unified	San Bernardino	14	3	2	21,895	Note 1	Note 2	30:1	
Rim of the World Unified	San Bernardino	5	1	1	5,752	Note 1	Note 2	30:1	
San Bernardino City Unified	San Bernardino	39	8	4	44,030	Note 1	Note 2	30:1	
Silver Valley Unified	San Bernardino	3	2	1	2,970	Note 1	Note 2	30:1	
Snowline Joint Unified	San Bernardino	4	1	1	5,500	Note 1	Note 2	30:1	
Trona Joint Unified	San Bernardino	1	0	1	634	Note 1	Note 2	30:1	
Upland Unified	San Bernardino	10	2	1	11,395	Note 1	Note 2	30:1	
Victor Elementary	San Bernardino	10	0	0	7,300	Note 1	Note 2	30:1	

Victor Valley Union High	San Bernardino	0	3	1	5,974	Note 1	Note 2	30:1	
Yucaipa-Calimesa Joint Unified	San Bernardino	5	2	1	7,287	Note 1	Note 2	30:1	

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

Note 1: Maximum capacity not exceeded; however, actual maximum capacity for each school district was not available. Individual schools may be operated on a year around basis to achieve pupil-to-teacher ratio requirements.

Note 2: Maximum pupil-to-teacher ratio not exceeded; average ratio is approximately 25:1.

Source of Data (3.b.1) Education Table):

a. Riverside County Superintendent of Schools

b. San Bernardino County Superintendent of Schools (July 1994)

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

No on-base Section 6 Schools.

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Source of Data (3.b.2) On-Base Schools): Local survey

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 :

1. **Desert Community College**
2. **Mount San Jacinto Community College**
3. **Palo Verde Community College**
4. **Riverside Community College**
5. **California Baptist College**
6. **La Sierra College**
7. **California State College, San Bernardino**
8. **University of California, Riverside**
9. **Loma Linda University**
10. **University of Redlands**
11. **Crafton Hills Community College**
12. **San Bernardino Valley College**

Source of Data (3.b.3) Colleges):

a. **Riverside County Office of Education**

b. **NAVORDCEN PACDIV HRO**

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:

1. **ABC Bartending - Bartending**
2. **Allied Business School - Contractors, Appraisers, Real Estate**
3. **American Technical College for Career Training - Travel, Computer**
4. **Anthony Schools - Building Contractor, Real Estate, Broker**
5. **Bartender's National School - Bartending**
6. **California College of Physical Arts - Massage**
7. **California Paramedical & Technical College - Paramedic**
8. **California Southern Law School - Law, Paralegal**

9. California School of Court Reporting - Court Reporting
10. Canterbury Career Schools - Computer, Medical Technician, Medical Assistant
11. Career Development Institute - Computer
12. Colton - Redlands - Yucaipa Regional Occupational Program - Animal Care, Business, Fashion, Warehousing, Photography, Medical
13. Computer Career Institute - Computer
14. Concord Career Institute - Medical Assistant, LVN, Pharmacy Technician
15. Contracting Peerless Institute - Contractor Home Study
16. Contractors State License School - Contractor License
17. Cooper & Cooper Training School - Paralegal
18. Gino Rabair Beauty College - Cosmetology
19. H&R Block - Tax Preparation
20. Hairmaster's University - Cosmetology
21. International Air Academy - Ticketing, Gate Agent, Customer Service Representative
22. ITT Technical Institute - Engineer Technician
23. Internal Control - Private Investigators
24. J&J School of Welding - Welding, Blue Print Reading
25. MTI - Computer
26. North American Heating & Air Conditioning Training Center - Air Conditioning & Heating Repair
27. Phillip's College - Medical Assistant, Accounting, Business, Paralegal
28. Platt College - Paralegal, Graphic Design, Interior Design
29. Richard's Beauty College - Cosmetology
30. Rosston School of Men's Hair Design - Cosmetology
31. U. S. Truck Driving School - Truck Driving
32. Skadron College of Business - Business
33. Optical School of Southern California - Optician
34. Pacific Contractor's School - Contractor License
35. Southern California of Massage - Massage
36. Verlee's Fancy Dog Grooming - Dog Grooming

Source of Data (3.b.4) Vo-tech Training): Riverside & San Bernardino County Telephone Books, 1993/1994

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

c. **Transportation.**

1) Is the activity served by public transportation?

	Yes	No
Bus:	X	
Rail:		X
Subway:		X
Ferry:		X

Source of Data (3.c.1) Transportation): Riverside Transit Agency

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.

The Naval Warfare Assessment Division is equally located between two AMTRAK Stations: City of Fullerton (23 miles); City of San Bernardino (24 miles).

Source of Data (3.c.2) Transportation): AMTRAK Fullerton and San Bernardino

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.

Name: Ontario International Airport
Location: Ontario, CA
Distance: About 14 miles

Source of Data (3.c.3) Transportation): AAA Automobile Club Map, 1994

4) How many carriers are available at this airport?

Ontario International Airport is serviced by 16 public carriers. There are 145 scheduled inbound/outbound flights daily.

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ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Source of Data (3.c.4) Transportation): Ontario International Airport

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

Number: Interstate 15
Distance: About 0.5 mile

Source of Data (3.c.5) Transportation): AAA Automobile Club Map, Riverside County, 1994

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.)

Area access to the Naval Warfare Assessment Division is serviced by Interstate Highway 15 and Hamner Avenue, an all-weather four lane highway with a 12 foot median turn lane which traverse north-south through the rural City of Norco. The activity is located west of this highway and access may be gained via two gates: (1) 4th Street, which is a two lane all-weather street with 12 foot lanes and 8 foot shoulders and (2) 5th Street, which is a two lane all-weather street with 12 foot lanes and 8 foot shoulders and left turn lanes at the Main Base entrance and intersections. No congestion has been evident on any access road to the to the base.

b) Do access roads transit residential neighborhoods?

The primary access road is 5th Street which leads to the area highways. This road transits primarily open and commercial areas. Other access to the base is available from the west on 6th Street transiting rural residential area; and a state correctional facility on the south.

c) Are there any easements that preclude expansion of the access road system?

There are no easements that would preclude expansion of the access road system. The City of Norco has recently completed a partial widening of the 5th Street access road to within 1/4 mile of the facility entrance. The city Master Plan calls for completion of this project to beyond the facility entrance when local and/or state funding is available.

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 to the Naval Warfare Assessment Division.

Source of Data (3.c.6) Transportation): **City of Norco Planning Development**

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.

The Naval Warfare Assessment Division has a Mutual Support Agreement with the Riverside County Fire Department. The nature of the services are to furnish rescue and fire protection personnel, equipment, materials, and supplies; and to render such fire protection and rescue services to each as may be necessary to suppress fire or handle rescue and/or other emergency of a magnitude that has developed, or appears probable to develop beyond the control of a single party and therefore, requires the combined forces of the two Fire Departments.

Source of Data (3.d. Fire/Hazmat): Mutual Support Agreement N64267-9412-305

e. **Police Protection.**

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

The legislative jurisdiction held by the installation is "PARTIAL" and is essentially treated as "EXCLUSIVE" jurisdiction, in that the State of California only retained the rights to: (a) tax personal property, and (b) serve civil process. This change of jurisdiction occurred in 1942 when the land was ceded over from the State of California (then owned privately by a Mr. Clark) to the United States Government (the Navy). As such, the State of California retained no other law enforcement or investigative authority/jurisdiction aboard the installation.

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.

As mentioned above, there is only one level of jurisdiction. Other than the documentation evolving from the 1942 cession of land, there are no other separate "written" agreements for local law enforcement protection. However, officials of the adjoining California Rehabilitation Center, State of California, have verbally assured this command that SWAT Team assistance would be provided in any emergency situation of a major magnitude (i.e., life threatening situations).

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

No.

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

Not applicable.

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.

There is no routine augmentation by officials of other Federal agencies.

Source of Data (3.e. 1) - 5) - Police): NWAD Executive Officer Report of 7 July 1994

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

f. **Utilities.**

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

The Naval Warfare Assessment Division does not have any agreements with the local community (City of Norco) to provide utility requirements. The utility requirements for this activity are met by contracts with area utility vendors i.e., Southern California Gas Company, Southern California Edison, State of California, Pacific Bell, ATT, etc. Refuse and solid waste is picked up and disposed of by a contractor, Inland Disposal Inc.

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.

Water is supplied by local wells operated under grant deed arrangement by the adjacent California Rehabilitation Center. Delivery may be limited between June through September, dependent on well levels. During these intermittent periods, watering of base grounds and refilling of the Lake Norconian are voluntarily restricted. NWAD voluntarily adjusts the use of water for the grounds and in maintaining the water level of the lake when well levels are low in order to assure sufficient water for personnel at both NWAD and the rehabilitation center. There is no adverse impact to the mission of command due to these intermittent water restrictions.

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

No significant disruptions in the availability of utility services have occurred such as "brown outs", etc. Two incidents (lightening strike and automobile accident) have resulted in loss of electrical service for a short period. These losses disrupted work by employees and impacted communications with other activities.

Source of Data (3.f. 1) - 3) Utilities): Base Public Works Utility Records

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ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

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

This question requests this activity to identify the top ten employers in the geographic area defined by the response to a previous question, 1.b. That question resulted in the geographic areas of San Bernardino and Riverside Countries, commonly called the Inland Empire. While this area may be convenient for some analyses, it may not be appropriate for this question. The factors contributing to this view include:

* **Large area encompassed by the two counties.**
* **Natural geographic barriers (mountain ranges, deserts, dairy preserves, etc.) divide these counties.**
* **Population is concentrated in the western part of these counties; however, several major military installations across the mountain ranges and in the desert, tend to skew "employment" figures usage.**
* **The area ignores the effect of the nearby eastern portions of Los Angeles and Orange Counties. These counties have large populations, have no natural barriers, and influence the local area economy.**

The specific response to the question of identifying the top ten employers for the combined areas encompassed by San Bernardino and Riverside Counties was derived from page 33 of the "1993 Book of Lists". The information published by the Inland Empire Business Journal, 305 Sacrament Place, Ontario, CA 91764. The Journal acknowledged that several major employers are not included in the report as they "failed to provide adequate data." Those noted in the report are:

* **Norton Air Force Base, San Bernardino (Closed)**
* **General Dynamics Air Defense (Purchased by Hughes and relocating to Tucson, AZ now)**
* **Riverside Unified School District**
* **Marine Corps Logistics Base, Barstow**

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ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Employer	Product/Service	No. of Employees
1. County of San Bernardino 385 N. Arrowhead Ave. San Bernardino, CA 92415	Local Government	14,000
2. County of Riverside 4080 Lemon Street Riverside, CA 92501	Local Government	10,500
3. Stater Bros. Markets 21700 Barton Road Colton, CA 92324	Supermarkets	9,850
4. March Air Force Base* 22nd Air Refueling Wing MAFB, CA 92518-5000	Military Base	8,637
5. Fort Irwin National Training Center Fort Irwin, CA 92310-5000	Military Base	7,227
6. San Bernardino Unified School District 777 North F Street San Bernardino, CA 92410	Education	5,000
7. U. S. Postal Service 1900 West Redlands Blvd. Redlands, CA 92403-9634	Mail Service	5,000
8. GTE California**	Telecommunication	4,519

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ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Employer	Product/Service	No. of Employees
1 GTE Place Thousand Oaks, CA 91362		
9. Loma Linda University Medical Center 11234 Anderson Street Loma Linda, CA 92354	Medical	4,000
10. Kaiser Permanente 9961 Sierra Avenue Fontana, CA 92335	Medical	3,500

***On base realignment and closure list.**
**** The home office address in Los Angeles County is given for this company. The employees shown are those that work out of field offices in the Inland Empire.**

Source of Data (4. Business Profile): Derived from page 33 of the "1993 Book of Lists". The information is published by The Inland Empire Business Journal, 305 Sacramento Place, Ontario, CA 91764

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ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

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

a. Loss of Major Employers:

AREA:

Closure of Norton, George, and March Air Force Bases, General Dynamics (Hughes) in Pomona and Rancho Cucamonga, and downsizing of Los Angeles and Orange County based defense contractors has had a negative impact on employees who live in the Inland Empire.

CITY OF NORCO:

Because Norco has a very small amount of existing and potential industrial and manufacturing development, business retention is critical to our economic stability. The potential loss of government and related government facilities as NWAD and DynCorp would create a void in the local economy due to the loss of goods and services, supply contracts and other service benefits with local businesses. Norco will also be impacted by the closure of March Air Force Base with similar losses.

b. Introduction of New Businesses/Technologies:

AREA:

1. **AMTRAK's Western Regional Sales Office (400 jobs)**
2. **Anheuser-Busch Company/Metal Container Corporation (150 jobs)**
3. **Recycler Core (80 jobs)**
4. **UniFirst Laundry (150 jobs)**
5. **Smith's Foods Distribution Center (500 jobs)**
6. **Mission Foods (600 jobs)**

Note: Approximately 2/3 of the jobs are blue collar in nature.

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ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

CITY OF NORCO:

Norco is expected to benefit from approximately 1 million square feet of additional commercial growth at the southern end within the next five years as a result of a new intermediate access to be constructed in the Interstate 15 Highway.

c. Natural Disasters:

AREA:

1. **Earthquakes: Landers/Yucca Valley earthquake on 26 June 1992, Richter 7.5; Big Bear earthquake on 26 June 1992, Richter 6.6. Parts of San Bernardino County were declared a disaster area by the Federal Government.**
2. **Flooding: Mainly in the Temecula/Murrieta area in February 1993. Parts of Riverside County was designated a disaster area by the Federal Government.**

Note: No significant economic impact was felt as a result of the earthquake and flooding.

CITY OF NORCO:

None.

d. Overall Economic Trends:

AREA:

The Inland Empire which is comprised of primarily of Riverside and San Bernardino Counties is in the midst of recovery from recession. Projection indicate a 1.6% increase (net) in jobs for 1994. Residential and industrial construction is increasing.

CITY OF NORCO:

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ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Norco's population growth is very stable with a population to 25,000 in 1990 to a projected population of approximately 26,000 in the year 2005. This slow population growth results in modest economic growth potential.

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Source of Data (5. Other Socio/Econ):
Area: Inland Empire Economic Partnership, Ontario
City of Norco: Norco Economic Development Coordinator

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

a. About 8,400 contractor, U. S. government, and foreign government personnel visit this activity each year. These visitors contribute to the local economy and promote awareness of the area. NWAD employees generate nearly $34 Million in salary annually for the local economy with a total annual salary in excess of $42 Million. Additionally, NWAD annually procures goods and services in excess of $24 Million from the local area.

b. The command is significantly involved in the surrounding communities. NWAD personnel are active in the Tutorial and Mentor Program for underprivileged students; the Adopt-a-School with Sherman Indian High School; the Boy and Girl Scouts; and Sea Cadet activities; judging high school science fairs; providing holiday parties for the underprivileged and elderly; providing temporary facility space for Federal, State, and community activities; and hosting professional activities such as the ASQC, ASNE, DMA, NCSL, and Toastmasters. The installation's riparian woodlands, lake, and historical conference center have provided an unique setting for the on-base activities. Good communications exist between the command and local community governing bodies and the command is an active participant in any area planning affecting the operations of the site.

c. The City of Norco is primarily a bedroom community for major employment centers in Orange and Los Angeles Countries. As a result, Norco suffers from a lack of professional employment and a non-diversified economy. The city is heavily dependent on residential and commercial sales tax revenues for economic stability. Since 1990, new business and commercial growth has been severely stagnated, which has caused budgetary shortfalls.

Source of Data (6. Other):
a. NWAD Security Records
b. NWAD Activity Records
c. Norco Economic Development Coordinator

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

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

NEXT ECHELON LEVEL (if applicable)

J. W. EYER
NAME (Please type or print)

Signature

ACTING COMMANDER
Title

7/29/94
Date

NAVAL ORDNANCE CENTER
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

G. R. STERNER
NAME (Please type or print)

Signature

Title

8/2/94
Date

Commander
Naval Sea Systems Command
Activity

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

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

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

Signature

ACTING
Title

17 AUG 1994

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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

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

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

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

ACTIVITY COMMANDER

Edward G. Schwier
NAME (Please type or print)

Edward G. Schwier
Signature

Commanding Officer
Title

13 July 1994
Date

Naval Warfare Assessment Division
Activity Data Call 65

Document Separator

DATA CALL 66
INSTALLATION RESOURCES

Activity Information:

Activity Name:	NAVAL WARFARE ASSESSMENT DIVISION
UIC:	64267
Host Activity Name (if response is for a tenant activity):	
Host Activity UIC:	

General Instructions/Background. A separate response to this data call must be completed for each Department of the Navy (DON) host, independent and tenant activity which separately budgets BOS costs (regardless of appropriation), and, is located in the United States, its territories or possessions.

1. Base Operating Support (BOS) Cost Data. Data is required which captures the total annual cost of operating and maintaining Department of the Navy (DON) shore installations. Information must reflect FY 1996 budget data supporting the FY 1996 NAVCOMPT Budget Submit. Two tables are provided. Table 1A identifies "Other than DBOF Overhead" BOS costs and Table 1B identifies "DBOF Overhead" BOS costs. These tables must be completed, as appropriate, for all DON host, independent or tenant activities which separately budget BOS costs (regardless of appropriation), and, are located in the United States, its territories or possessions. Responses for DBOF activities may need to include both Table 1A and 1B to ensure that all BOS costs, including those incurred by the activity in support of tenants, are identified. If both table 1A and 1B are submitted for a single DON activity, please ensure that no data is double counted (that is, included on both Table 1A and 1B). The following tables are designed to collect all BOS costs currently budgeted, regardless of appropriation, e.g., Operations and Maintenance, Research and Development, Military Personnel, etc. Data must reflect FY 1996 and should be reported in thousands of dollars.

a. Table 1A - Base Operating Support Costs (Other Than DBOF Overhead). This Table should be completed to identify "Other Than DBOF Overhead" Costs. Display, in the format shown on the table, the O&M, R&D and MPN resources currently budgeted for BOS services. O&M cost data must be consistent with data provided on the BS-1 exhibit. Report only direct funding for the activity. Host activities should not include reimbursable support provided to tenants, since tenants will be separately reporting these costs. Military personnel costs should be included on the appropriate lines of the table. Please ensure that individual lines of the table do not include duplicate costs. Add additional lines to the table (following

line 2j., as necessary, to identify any additional cost elements not currently shown). **Leave shaded areas of table blank.** NOT APPLICABLE

Table 1A - Base Operating Support Costs (Other Than DBOF Overhead)			
Activity Name: NWAD, CORONA CA		**UIC: 64267**	
Category	**FY 1996 BOS Costs ($000)**		
	Non-Labor	**Labor**	**Total**
1. Real Property Maintenance Costs:			
1a. Maintenance and Repair	N/A	N/A	N/A
1b. Minor Construction	N/A	N/A	N/A
1c. Sub-total 1a. and 1b.	N/A	N/A	N/A
2. Other Base Operating Support Costs:			
2a. Utilities	N/A	N/A	N/A
2b. Transportation	N/A	N/A	N/A
2c. Environmental	N/A	N/A	N/A
2d. Facility Leases	N/A	N/A	N/A
2e. Morale, Welfare & Recreation	N/A	N/A	N/A
2f. Bachelor Quarters	N/A	N/A	N/A
2g. Child Care Centers	N/A	N/A	N/A
2h. Family Service Centers	N/A	N/A	N/A
2i. Administration	N/A	N/A	N/A
2j. Other (Specify)	N/A	N/A	N/A
2k. Sub-total 2a. through 2j:	N/A	N/A	N/A
3. Grand Total (sum of 1c. and 2k.):	N/A	N/A	N/A

b. Funding Source. If data shown on Table 1A reflects more than one appropriation,

then please provide a break out of the total shown for the "3. Grand-Total" line, by appropriation:

Appropriation	Amount ($000)

NOT APPLICABLE

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

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

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INSTALLATION RESOURCES

Table 1B - Base Operating Support Costs (DBOF Overhead)			
Activity Name: NWAD ONLY		**UIC:** 64267	
Category	**FY 1996 Net Cost From UC/FUND-4 ($000)**		
	Non-Labor	**Labor**	**Total**
1. Real Property Maintenance Costs*:			
1a. Real Property Maintenance (>$15K)	1,148	256	1,404
1b. Real Property Maintenance (<$15K)	104	106	210
1c. Minor Construction (Expensed)	30	0	30
1d. Minor Construction (Capital Budget)	386	0	386
1c. Sub-total 1a. through 1d.	1,668	362	2,030
2. Other Base Operating Support Costs:			
2a. Command Office	4,459	2,242	6,701
2b. ADP Support	2,568	1,989	4,557
2c. Equipment Maintenance	949	4	953
2d. Civilian Personnel Services	0	0	0
2e. Accounting/Finance	0	0	0
2f. Utilities**	2,122	0	2,122
2g. Environmental Compliance	80	13	93
2h. Police and Fire	560	715	1,275
2i. Safety	22	185	207
2j. Supply and Storage Operations	0	0	0
2k. Major Range Test Facility Base Costs	0	0	0
2l. Other (Specify) - SEE ATTACHED	475	57	532
2m. Sub-total 2a. through 2l:	11,235	5,205	16,440
3. Depreciation	1,660	0	1,660

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INSTALLATION RESOURCES

4. Grand Total (sum of 1c., 2m., and 3.) :	14,563	5,567	20,130

*Real Property Maintenance threshold has been changed to $25K.

**2f. Utilities includes telephone and communications costs.

NWAD ONLY
OTHER BASE OPERATING COSTS (Continued)

21. Other:

($000)

	Non-Labor	Labor	Total
Public Works	15	33	48
Janitorial	460	24	484
Other Total:	475	57	532

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INSTALLATION RESOURCES

Table 1B - Base Operating Support Costs (DBOF Overhead)			
Activity Name: NWAD (NWSSB/PACDIV TENANTS)		**UIC:** 64267	
Category	**FY 1996 Net Cost From UC/FUND-4 ($000)**		
	Non-Labor	**Labor**	**Total**
1. Real Property Maintenance Costs*:			
1a. Real Property Maintenance (>$15K)	77	145	222
1b. Real Property Maintenance (<$15K)	180	225	405
1c. Minor Construction (Expensed)	0	0	0
1d. Minor Construction (Capital Budget)	0	0	0
1c. Sub-total 1a. through 1d.	257	370	627
2. Other Base Operating Support Costs:			
2a. Command Office	30	26	56
2b. ADP Support	772	652	1,424
2c. Equipment Maintenance	19	5	24
2d. Civilian Personnel Services	208	862	1,070
2e. Accounting/Finance	43	601	644
2f. Utilities	485	0	485
2g. Environmental Compliance	273	37	310
2h. Police and Fire	0	34	34
2i. Safety	2	4	6
2j. Supply and Storage Operations	30	747	777
2k. Major Range Test Facility Base Costs	0	0	0
2l. Other (Specify)	198	40	238
2m. Sub-total 2a. through 2l:	2,060	3,008	5,068
3. Depreciation	429	0	429

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INSTALLATION RESOURCES

4. Grand Total (sum of 1c., 2m., and 3.) :	2,746	3,378	6,124

*Real Property Maintenance threshold has changed to $25K.

NWAD (NWSSB/PACDIV TENANTS)
OTHER BASE OPERATING COSTS (Continued)

21. Other:

($000)

	Non-Labor	Labor	Total
Public Works	100	36	136
Janitorial	98	4	102
Other Total:	198	40	238

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INSTALLATION RESOURCES

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

Table 2 - Services/Supplies Cost Data

Activity Name: NWAD	**UIC: 64267**
Cost Category	**FY 1996 Projected Costs ($000)**
Travel:	4,932
Material and Supplies (including equipment):	7,652
Industrial Fund Purchases (other DBOF purchases):	8,040
Transportation:	0
Other Purchases (Contract support, etc.):	29,582
Total:	50,206

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INSTALLATION RESOURCES

3. Contractor Workyears.

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

Table 3 - Contract Workyears

Activity Name: NWAD, CORONA	**UIC: 64267**
Contract Type	**FY 1996 Estimated Number of Workyears On-Base**
Construction:	0
Facilities:	32
Mission Support:	75
Procurement	0
Other:*	51
Total Workyears:	158

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

OTHER:

*ADMINISTRATIVE SUPPORT :	15
SECURITY/POLICE :	15
AUTOMATED INFORMATION SYSTEMS (AIS): Development, application, operation and support computational information.	21

NOTE: Includes NOCPACDIV/NWSSB contractor support performed on-site at NWAD, Corona (34 W/Ys).

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INSTALLATION RESOURCES

ACTIVITY NAME: NWAD, CORONA **UIC:** 64267

b. Potential Disposition of On-Base Contract Workyears. If the mission/functions of your activity were relocated to another site, what would be the anticipated disposition of the **on-base contract workyears** identified in Table 3.?

1) Estimated number of contract workyears which would be transferred to the receiving site (This number should reflect the number of jobs which would in the future be contracted for at the receiving site, not an estimate of the number of people who would move or an indication that work would necessarily be done by the same contractor(s)): 111

2) Estimated number of workyears which would be eliminated: 23

3) Estimated number of contract workyears which would remain in place (i.e., contract would remain in place in current location even if activity were relocated outside of the local area): 24

NOTE: The response to this question is based on the following conditions and assumptions:

1. **The mission/functions relocated are not changed in level;**
2. **The personnel performing the mission/function are relocated to a single site and remain essentially intact:**
3. **The receiving site does not have the capacity and capability to perform the mission/functions;**
4. **The NWAD Corona site is retained by the Government in a secure but inactive status.**

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INSTALLATION RESOURCES

c. "Off-Base" Contract Workyear Data. Are there any contract workyears located in the local community, but not on-base, which would either be eliminated or relocated if your activity were to be closed or relocated? If so, then provide the following information **(ensure that numbers reported below do not double count numbers included in 3.a. and 3.b., above)**:

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

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

DATA CALL 66
INSTALLATION RESOURCES

3. Contractor Workyears.

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

Table 3 - Contract Workyears	
Activity Name: NWAD (NWSSB/PACDIV)	**UIC: 60701**
Contract Type	**FY 1996 Estimated Number of Workyears On-Base**
Construction:	0
Facilities Support:	0
Mission Support:	0
Procurement:	0
Other:*	10.5
Total Workyears:	10.5

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

*Automated Information Systems (AIS): Development, application, operation, and support of computational information. 10.5

NOTE: Number reflects workyears performed at NWSSB/PACDIV in support of NWAD.

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INSTALLATION RESOURCES

ACTIVITY: NWAD (NWSSB/PACDIV SUPPORT) **UIC:** 64267

b. Potential Disposition of On-Base Contract Workyears. If the mission/functions of your activity were relocated to another site, what would be the anticipated disposition of the **on-base contract workyears** identified in Table 3.?

1) Estimated number of contract workyears which would be transferred to the receiving site (This number should reflect the number of jobs which would in the future be contracted for at the receiving site, not an estimate of the number of people who would move or an indication that work would necessarily be done by the same contractor(s)): 0

2) Estimated number of workyears which would be eliminated: 0

3) Estimated number of contract workyears which would remain in place (i.e., contract would remain in place in current location even if activity were relocated outside of the local area): 10.5

NOTE: The response to this question is based on the following conditions and assumptions:

1. **The "on-base" is the host installation for the support personnel.**
2. **The relocation of mission/functions refers to those of NWAD Corona, CA.**
3. **There is no change to the host activity mission/functions and that it continues to provide the support services if NWAD is relocated.**

c. "Off-Base" Contract Workyear Data. Are there any contract workyears located in the local community, but not on-base, which would either be eliminated or relocated if your activity were to be closed or relocated? If so, then provide the following information **(ensure that numbers reported below do not double count numbers included in 3.a. and 3.b., above)**:

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

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

DATA CALL 66
INSTALLATION RESOURCES

3. Contractor Workyears.

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

Table 3 - Contract Workyears	
Activity Name: NWAD -DETACHMENT/NAS FALLON	**UIC:** 60495
Contract Type	**FY 1996 Estimated Number of Workyears On-Base**
Construction:	0
Facilities Support:	0
Mission Support:	179
Procurement:	0
Other:*	0
Total Workyears:	179

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

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INSTALLATION RESOURCES

ACTIVITY NAME: NWAD DETACHMENT/NAS FALLON **UIC:** 60495

b. Potential Disposition of On-Base Contract Workyears. If the mission/functions of your activity were relocated to another site, what would be the anticipated disposition of the **on-base contract workyears** identified in Table 3.?

1) Estimated number of contract workyears which would be transferred to the receiving site (This number should reflect the number of jobs which would in the future be contracted for at the receiving site, not an estimate of the number of people who would move or an indication that work would necessarily be done by the same contractor(s)): 0

2) Estimated number of workyears which would be eliminated: 0

3) Estimated number of contract workyears which would remain in place (i.e., contract would remain in place in current location even if activity were relocated outside of the local area): 179

NOTE: The response to this question is based on the following conditions and assumptions:

1. **The "on-base" is the host installation for the NWAD Detachment contract support personnel.**
2. **There is no change in the host activity mission/functions.**
3. **The relocation of mission/functions refers to NWAD Corona, CA.**

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INSTALLATION RESOURCES

c. "Off-Base" Contract Workyear Data. Are there any contract workyears located in the local community, but not on-base, which would either be eliminated or relocated if your activity were to be closed or relocated? If so, then provide the following information **(ensure that numbers reported below do not double count numbers included in 3.a. and 3.b., above)**:

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

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

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INSTALLATION RESOURCES

3. Contractor Workyears.

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

Table 3 - Contract Workyears	
Activity Name: NWAD DETACHMENT/MCAS, YUMA	**UIC:** 62974
Contract Type	**FY 1996 Estimated Number of Workyears On-Base**
Construction:	0
Facilities Support:	0
Mission Support:	53
Procurement:	0
Other:*	0
Total Workyears:	53

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

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ACTIVITY NAME: NWAD DETACHMENT/MCAS, YUMA **UIC:** 62974

b. Potential Disposition of On-Base Contract Workyears. If the mission/functions of your activity were relocated to another site, what would be the anticipated disposition of the **on-base contract workyears** identified in Table 3.?

1) Estimated number of contract workyears which would be transferred to the receiving site (This number should reflect the number of jobs which would in the future be contracted for at the receiving site, not an estimate of the number of people who would move or an indication that work would necessarily be done by the same contractor(s)): 0

2) Estimated number of workyears which would be eliminated: 0

3) Estimated number of contract workyears which would remain in place (i.e., contract would remain in place in current location even if activity were relocated outside of the local area): 53

NOTE: The response to this question is based on the following conditions and assumptions:

1. **The "on-base" is the host installation for the NWAD Detachment contract support personnel.**
2. **There is no change in the host activity mission/functions.**
3. **The relocation of mission/functions refers to NWAD Corona, CA.**

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INSTALLATION RESOURCES

c. "Off-Base" Contract Workyear Data. Are there any contract workyears located in the local community, but not on-base, which would either be eliminated or relocated if your activity were to be closed or relocated? If so, then provide the following information **(ensure that numbers reported below do not double count numbers included in 3.a. and 3.b., above)**:

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

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

DATA CALL 66
INSTALLATION RESOURCES

3. Contractor Workyears.

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

Table 3 - Contract Workyears	
Activity Name: NWAD DETACHMENT/NAS, OCEANA	**UIC:** 60191
Contract Type	**FY 1996 Estimated Number of Workyears On-Base**
Construction:	0
Facilities Support:	0
Mission Support:	20
Procurement:	0
Other:*	0
Total Workyears:	20

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

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INSTALLATION RESOURCES

ACTIVITY NAME: NWAD DETACHMENT/NAS, OCEANA **UIC:** 60191

b. Potential Disposition of On-Base Contract Workyears. If the mission/functions of your activity were relocated to another site, what would be the anticipated disposition of the **on-base contract workyears** identified in Table 3.?

1) Estimated number of contract workyears which would be transferred to the receiving site (This number should reflect the number of jobs which would in the future be contracted for at the receiving site, not an estimate of the number of people who would move or an indication that work would necessarily be done by the same contractor(s)): 0

2) Estimated number of workyears which would be eliminated: 0

3) Estimated number of contract workyears which would remain in place (i.e., contract would remain in place in current location even if activity were relocated outside of the local area): 20

NOTE: The response to this question is based on the following conditions and assumptions:

1. **The "on-base" is the host installation for the NWAD Detachment contract support personnel.**
2. **There is no change in the host activity mission/functions.**
3. **The relocation of mission/functions refers to NWAD Corona, CA.**

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INSTALLATION RESOURCES

c. "Off-Base" Contract Workyear Data. Are there any contract workyears located in the local community, but not on-base, which would either be eliminated or relocated if your activity were to be closed or relocated? If so, then provide the following information **(ensure that numbers reported below do not double count numbers included in 3.a. and 3.b., above)**:

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

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

DATA CALL 66
INSTALLATION RESOURCES

3. Contractor Workyears.

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

Table 3 - Contract Workyears	
Activity Name: NWAD DET/LANGLEY AFB	**UIC: F44650**
Contract Type	**FY 1996 Estimated Number of Workyears On-Base**
Construction:	0
Facilities Support:	0
Mission Support:	4
Procurement:	0
Other:*	0
Total Workyears:	4

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

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INSTALLATION RESOURCES

ACTIVITY: NWAD DET/LANGLEY AFB **UIC:** F44650

b. Potential Disposition of On-Base Contract Workyears. If the mission/functions of your activity were relocated to another site, what would be the anticipated disposition of the **on-base contract workyears** identified in Table 3.?

1) Estimated number of contract workyears which would be transferred to the receiving site (This number should reflect the number of jobs which would in the future be contracted for at the receiving site, not an estimate of the number of people who would move or an indication that work would necessarily be done by the same contractor(s)): 0

2) Estimated number of workyears which would be eliminated: 0

3) Estimated number of contract workyears which would remain in place (i.e., contract would remain in place in current location even if activity were relocated outside of the local area): 4

NOTE: The response to this question is based on the following conditions and assumptions:

1. **The "on-base" is the host installation for the NWAD Detachment contract support personnel.**
2. **There is no change in the host activity mission/functions.**
3. **The relocation of mission/functions refers to NWAD Corona, CA.**

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INSTALLATION RESOURCES

c. "Off-Base" Contract Workyear Data. Are there any contract workyears located in the local community, but not on-base, which would either be eliminated or relocated if your activity were to be closed or relocated? If so, then provide the following information **(ensure that numbers reported below do not double count numbers included in 3.a. and 3.b., above)**:

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

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

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INSTALLATION RESOURCES

3. Contractor Workyears.

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

Table 3 - Contract Workyears	
Activity Name: NWAD DET/MCAS CHERRY POINT	**UIC:** 00146
Contract Type	**FY 1996 Estimated Number of Workyears On-Base**
Construction:	0
Facilities Support:	0
Mission Support:	64
Procurement:	0
Other:*	0
Total Workyears:	64

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

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INSTALLATION RESOURCES

ACTIVITY: NWAD DETACHMENT/MCAS, CHERRY POINT **UIC:** 00146

b. Potential Disposition of On-Base Contract Workyears. If the mission/functions of your activity were relocated to another site, what would be the anticipated disposition of the **on-base contract workyears** identified in Table 3.?

1) Estimated number of contract workyears which would be transferred to the receiving site (This number should reflect the number of jobs which would in the future be contracted for at the receiving site, not an estimate of the number of people who would move or an indication that work would necessarily be done by the same contractor(s)): 0

2) Estimated number of workyears which would be eliminated: 0

3) Estimated number of contract workyears which would remain in place (i.e., contract would remain in place in current location even if activity were relocated outside of the local area): 64

NOTE: The response to this question is based on the following conditions and assumptions:

1. **The "on-base" is the host installation for the NWAD Detachment contract support personnel.**
2. **There is no change in the host activity mission/functions.**
3. **The relocation of mission/functions refers to NWAD Corona, CA.**

c. "Off-Base" Contract Workyear Data. Are there any contract workyears located in the local community, but not on-base, which would either be eliminated or relocated if your activity were to be closed or relocated? If so, then provide the following information **(ensure that numbers reported below do not double count numbers included in 3.a. and 3.b., above)**:

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

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

3. Contractor Workyears.

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

Table 3 - Contract Workyears

Activity Name: NWAD DET/MCAS BEAUFORT	**UIC:** 60169
Contract Type	**FY 1996 Estimated Number of Workyears On-Base**
Construction:	0
Facilities Support:	0
Mission Support:	41
Procurement:	0
Other:*	0
Total Workyears:	41

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

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INSTALLATION RESOURCES

ACTIVITY NAME: NWAD DETACHMENT/MCAS, BEAUFORT **UIC:** 60169

b. Potential Disposition of On-Base Contract Workyears. If the mission/functions of your activity were relocated to another site, what would be the anticipated disposition of the **on-base contract workyears** identified in Table 3.?

1) Estimated number of contract workyears which would be transferred to the receiving site (This number should reflect the number of jobs which would in the future be contracted for at the receiving site, not an estimate of the number of people who would move or an indication that work would necessarily be done by the same contractor(s)): 0

2) Estimated number of workyears which would be eliminated: 0

3) Estimated number of contract workyears which would remain in place (i.e., contract would remain in place in current location even if activity were relocated outside of the local area): 41

NOTE: The response to this question is based on the following conditions and assumptions:

1. **The "on-base" is the host installation for the NWAD Detachment contract support personnel.**
2. **There is no change in the host activity mission/functions.**
3. **The relocation of mission/functions refers to NWAD Corona, CA.**

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c. "Off-Base" Contract Workyear Data. Are there any contract workyears located in the local community, but not on-base, which would either be eliminated or relocated if your activity were to be closed or relocated? If so, then provide the following information **(ensure that numbers reported below do not double count numbers included in 3.a. and 3.b., above)**:

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

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

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INSTALLATION RESOURCES

3. Contractor Workyears.

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

Table 3 - Contract Workyears	
Activity Name: NWAD DET/AIR NATIONAL GUARD, SAVANNAH	**UIC: FB6103**
Contract Type	**FY 1996 Estimated Number of Workyears On-Base**
Construction:	0
Facilities Support:	0
Mission Support:	8
Procurement:	0
Other:*	0
Total Workyears:	8

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

DATA CALL 66
INSTALLATION RESOURCES

ACTIVITY NAME: NWAD DET/AIR NATIONAL GUARD, SAVANNAH **UIC: FB6103**

b. Potential Disposition of On-Base Contract Workyears. If the mission/functions of your activity were relocated to another site, what would be the anticipated disposition of the **on-base contract workyears** identified in Table 3.?

1) Estimated number of contract workyears which would be transferred to the receiving site (This number should reflect the number of jobs which would in the future be contracted for at the receiving site, not an estimate of the number of people who would move or an indication that work would necessarily be done by the same contractor(s)): 0

2) Estimated number of workyears which would be eliminated: 0

3) Estimated number of contract workyears which would remain in place (i.e., contract would remain in place in current location even if activity were relocated outside of the local area): 8

NOTE: The response to this question is based on the following conditions and assumptions:

1. **The "on-base" is the host installation for the NWAD Detachment contract support personnel.**
2. **There is no change in the host activity mission/functions.**
3. **The relocation of mission/functions refers to NWAD Corona, CA.**

DATA CALL 66
INSTALLATION RESOURCES

c. "Off-Base" Contract Workyear Data. Are there any contract workyears located in the local community, but not on-base, which would either be eliminated or relocated if your activity were to be closed or relocated? If so, then provide the following information **(ensure that numbers reported below do not double count numbers included in 3.a. and 3.b., above)**:

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

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

DATA CALL 66
INSTALLATION RESOURCES

3. Contractor Workyears.

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

Table 3 - Contract Workyears	
Activity Name: NWAD DET/AIR NATIONAL GUARD, JACKSONVILLE	**UIC: FB6091**
Contract Type	**FY 1996 Estimated Number of Workyears On-Base**
Construction:	0
Facilities Support:	0
Mission Support:	5
Procurement:	0
Other:*	0
Total Workyears:	5

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

DATA CALL 66
INSTALLATION RESOURCES

ACTIVITY NAME: NWAD DET/AIR NATIONAL GUARD, JACKSONVILLE **UIC:** FB6091

b. Potential Disposition of On-Base Contract Workyears. If the mission/functions of your activity were relocated to another site, what would be the anticipated disposition of the **on-base contract workyears** identified in Table 3.?

1) Estimated number of contract workyears which would be transferred to the receiving site (This number should reflect the number of jobs which would in the future be contracted for at the receiving site, not an estimate of the number of people who would move or an indication that work would necessarily be done by the same contractor(s)): 0

2) Estimated number of workyears which would be eliminated: 0

3) Estimated number of contract workyears which would remain in place (i.e., contract would remain in place in current location even if activity were relocated outside of the local area): 5

NOTE: The response to this question is based on the following conditions and assumptions:

1. **The "on-base" is the host installation for the NWAD Detachment contract support personnel.**
2. **There is no change in the host activity mission/functions.**
3. **The relocation of mission/functions refers to NWAD Corona, CA.**

DATA CALL 66
INSTALLATION RESOURCES

c. "Off-Base" Contract Workyear Data. Are there any contract workyears located in the local community, but not on-base, which would either be eliminated or relocated if your activity were to be closed or relocated? If so, then provide the following information **(ensure that numbers reported below do not double count numbers included in 3.a. and 3.b., above)**:

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

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

DATA CALL 66
INSTALLATION RESOURCES

3. Contractor Workyears.

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

Table 3 - Contract Workyears	
Activity Name: NWAD DET/KORAT AIR BASE (TAF) TAIWAN	**UIC:**
Contract Type	**FY 1996 Estimated Number of Workyears On-Base**
Construction:	0
Facilities Support:	0
Mission Support:	12
Procurement:	0
Other:*	0
Total Workyears:	12

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

DATA CALL 66
INSTALLATION RESOURCES

ACTIVITY NAME: NWAD DET/KORAT AIR BASE (TAF) TAIWAN **UIC:** _____

b. Potential Disposition of On-Base Contract Workyears. If the mission/functions of your activity were relocated to another site, what would be the anticipated disposition of the **on-base contract workyears** identified in Table 3.?

1) Estimated number of contract workyears which would be transferred to the receiving site (This number should reflect the number of jobs which would in the future be contracted for at the receiving site, not an estimate of the number of people who would move or an indication that work would necessarily be done by the same contractor(s)): 0

2) Estimated number of workyears which would be eliminated: 0

3) Estimated number of contract workyears which would remain in place (i.e., contract would remain in place in current location even if activity were relocated outside of the local area): 12

NOTE: The response to this question is based on the following conditions and assumptions:

1. **The "on-base" is the host installation for the NWAD Detachment contract support personnel.**
2. **There is no change in the host activity mission/functions.**
3. **The relocation of mission/functions refers to NWAD Corona, CA.**

DATA CALL 66
INSTALLATION RESOURCES

c. "Off-Base" Contract Workyear Data. Are there any contract workyears located in the local community, but not on-base, which would either be eliminated or relocated if your activity were to be closed or relocated? If so, then provide the following information **(ensure that numbers reported below do not double count numbers included in 3.a. and 3.b., above)**:

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

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

DATA CALL 66
INSTALLATION RESOURCES

3. Contractor Workyears.

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

Table 3 - Contract Workyears	
Activity Name: NWAD DET/MCAS, EL TORO	**UIC:** 60050
Contract Type	**FY 1996 Estimated Number of Workyears On-Base**
Construction:	0
Facilities Support:	0
Mission Support:	1
Procurement:	0
Other:*	0
Total Workyears:	1

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

DATA CALL 66
INSTALLATION RESOURCES

ACTIVITY NAME: NWAD DET/MCAS, EL TORO **UIC:** 60050

b. Potential Disposition of On-Base Contract Workyears. If the mission/functions of your activity were relocated to another site, what would be the anticipated disposition of the **on-base contract workyears** identified in Table 3.?

1) Estimated number of contract workyears which would be transferred to the receiving site (This number should reflect the number of jobs which would in the future be contracted for at the receiving site, not an estimate of the number of people who would move or an indication that work would necessarily be done by the same contractor(s)): 0

2) Estimated number of workyears which would be eliminated: 0

3) Estimated number of contract workyears which would remain in place (i.e., contract would remain in place in current location even if activity were relocated outside of the local area): 1

NOTE: The response to this question is based on the following conditions and assumptions:

1. **The "on-base" is the host installation for the NWAD Detachment contract support personnel.**
2. **There is no change in the host activity mission/functions.**
3. **The relocation of mission/functions refers to NWAD Corona, CA.**

DATA CALL 66
INSTALLATION RESOURCES

c. "Off-Base" Contract Workyear Data. Are there any contract workyears located in the local community, but not on-base, which would either be eliminated or relocated if your activity were to be closed or relocated? If so, then provide the following information **(ensure that numbers reported below do not double count numbers included in 3.a. and 3.b., above)**:

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

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

3. **Contractor Workyears.**

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

Table 3 - Contract Workyears	
Activity Name: NWAD DET/NAVAL STATION, NORFOLK	**UIC:** 62688
Contract Type	**FY 1996 Estimated Number of Workyears On-Base**
Construction:	0
Facilities Support:	0
Mission Support:	57
Procurement:	0
Other:*	0
Total Workyears:	57

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

DATA CALL 66
INSTALLATION RESOURCES

ACTIVITY NAME: NWAD DET/NAVAL STATION, NORFOLK **UIC:** 62688

b. Potential Disposition of On-Base Contract Workyears. If the mission/functions of your activity were relocated to another site, what would be the anticipated disposition of the **on-base contract workyears** identified in Table 3.?

1) Estimated number of contract workyears which would be transferred to the receiving site (This number should reflect the number of jobs which would in the future be contracted for at the receiving site, not an estimate of the number of people who would move or an indication that work would necessarily be done by the same contractor(s)): 0

2) Estimated number of workyears which would be eliminated: 0

3) Estimated number of contract workyears which would remain in place (i.e., contract would remain in place in current location even if activity were relocated outside of the local area): 57

NOTE: The response to this question is based on the following conditions and assumptions:

1. **The "on-base" is the host installation for the NWAD Detachment contract support personnel.**
2. **There is no change in the host activity mission/functions.**
3. **The relocation of mission/functions refers to NWAD Corona, CA.**

DATA CALL 66
INSTALLATION RESOURCES

c. "Off-Base" Contract Workyear Data. Are there any contract workyears located in the local community, but not on-base, which would either be eliminated or relocated if your activity were to be closed or relocated? If so, then provide the following information **(ensure that numbers reported below do not double count numbers included in 3.a. and 3.b., above)**:

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

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

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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

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

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

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

ACTIVITY COMMANDER

Edward G. Schwier
NAME (Please type or print)

Edward G. Schwier
Signature

Commanding Officer
Title

14 July 1994
Date

Naval Warfare Assessment Division
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)

J. W. EYER
NAME (Please type or print)

Signature

~~ACTING COMMANDER~~
Title

7/29/94
Date

NAVAL ORDNANCE CENTER
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

G. R. STERNER
NAME (Please type or print)

Signature

Title
Naval Sea Systems Command

8-15-94
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

22 AUG 1994

Document Separator

212

1995

BASE REALIGNMENT AND CLOSURE

ENVIRONMENTAL

DATA CALL

DATA CALL 33

FOR

NAVAL WARFARE ASSESSMENT DIVISION

CORONA, CALIFORNIA

27 MAY 1994

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

20 APRIL 1994

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

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ENVIRONMENTAL DATA CALL

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

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

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

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

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

Tenant Command	UIC
Naval Weapons Station, Seal Beach	60701
Naval Weapons Center, China Lake	62738
DPS Det., Point Mugu	66965
Branch Medical Clinic, NH Long Beach	46360

Activity: N64267

NAVFACENGCOM, OCICC 68711

1. ENDANGERED/THREATENED SPECIES AND BIOLOGICAL HABITAT

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

NO.

SPECIES (plant or animal)	Designation (Threatened/ Endangered)	Federal/ State	Critical / Designated Habitat (Acres)	Important Habitat (acres)
example: Haliaeetus leucocephalus - bald eagle	*threatened*	*Federal*	*25*	*0*
Least Bell's Vireo	Endangered	Both	Unknown	8.5
Blue-gray Gnatcatcher	Threatened	Federal	Unknown	Unk.
Yellow-billed Cuckoo	Threatened	Both	Unknown	Unk.
Southern Bald Eagle	Endangered	Both	Unknown	Unk.
Willow Flycatcher	Endangered	State	Unknown	Unk.
Vermillion Flycatcher	Endangered	State	Unknown	Unk.
Stephen's Kangaroo Rat	Endangered	Both	Unknown	Unk.

Source Citation: **Natural Resources Management Plan Naval Warfare Assessment Center, Corona, California, 1990.**

The U.S. Fish and Wildlife Service has never had the opportunity to officially designate Naval Warfare Assessment Division (NWAD) acreage as "Critical/Designated Habitat". Hence the acreage is listed as unknown. "Important Habitat," for the most part, is also unknown. However, in the case of the Least Bell's Vireo, it is listed as 8.5 acres, because

this is the number of acres of Riparian woodland on the property. The above list is derived from two sources:

1. San Bernardino County Museum vertebrate biologist/area bird expert, Bob McKernon.

2. Biological Assessment of Riverside Community College and Deane Homes Developments, by Michael P. Hamilton and Associates, 1987.

Designation reference: State of California Department of Fish and Game, ENDANGERED AND THREATENED ANIMALS OF CALIFORNIA, April, 1994.

1b.

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

According to the San Bernardino County Museum bird biologist, The Migratory Bird Act of 1973 grants protection for all migratory birds seen here, except the non-native (introduced) species. There are about 100 species of migratory birds, numbering in the tens of thousands, which visit, feed, or rest here. At times, such as during December and January, there may be 20,000 waterfowl on or around the 55 acres of Lake Norconian at once. Human activity on the lake is curtailed during the migration season to avoid disturbing the birds.

Similarily, in California all raptors and herons, migratory or stationary, are protected. There are over ten raptor species and six heron species seen here. Some of these species are designated as "Species of Special Concern," which means they are candidates for the "Threatened Species List."

Under the Federal Endangered Species Act, the presence of endangered species, whether resident or migratory, requires a "Section 7 consultation with the Lead Agency" to establish a plan of action for species and habitat protection before development can be initiated. This consultation has not taken place. No biological assessment, specific just to NWAD, has ever been conducted.

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

N/A.

1d.

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

1e.

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

2. WETLANDS

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

2a.

Does your base possess federal jurisdictional wetlands?	YES/NO **YES**
Has a wetlands survey in accordance with established standards been conducted for your base?	YES/NO **YES**
When was the survey conducted or when will it be conducted? _7_/_00_/_93_	**JULY 93**
What percent of the base has been surveyed?	**100%**
What is the total acreage of jurisdictional wetlands present on your base?	**55.0 ACRES**

Source Citation: **Master Plan 1989**

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

See attached map.

2c. Has the EPA, COE or a state wetland regulatory agency required you to modify or constrain base operations or development plans in any way in order to accommodate a jurisdictional wetland? **Base operation and development plans have not been impacted by any requirements. However, accommodations have been made to mitigate storm water discharge. Also, during the winter, recreational boating is suspended to avoid disturbing migratory birds.** If YES, summarize the results of such modifications or constraints.

3. CULTURAL RESOURCES

3a.

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

Potential National Register resources have been identified. The Lake Norconian resort/hotel-Navy Hospital may be considered a significant resource potentially important for local landmark status. Registry would require a joint effort by the Navy and the State of California who now owns and controls a portion of the Lake Norconian Club complex built during the 1920's as a resort. Per the Master Plan Update, Cultural Findings and Conclusions: "Among the historic architectural resources present on the [NWAD] site, four major groups of facilities including the entire [NWAD] sites have potential elgibility for inclusion on the National Register of Historic Places as Historic Districts. No individual building on [NWAD] site would probably be eligible for separate inclusion on the National Register of Historic Places. Of these groups of facilities identified with potential for nomination to the National Register of Historic Places, the former Lake Norconian Club complex, (today only partly under Navy control but including all the Corona site) probably has the highest potential for inclusion on the National Register. Because a large portion of the former Lake Noronian Club complex is now under State of California ownership, a joint proposal for inclusion on the National Register of Historic Places would be necessary."

<u>Archaeological Site CA-Riv-1230 at the Corona Site</u>. The value of this recorded archaeological site is very much in question, however, on 25 January 1988, Mr. Richard Hamilton, Public Works, Corona site, verified that the archaeological site location is on Corona site property. The surface indications of the site may be misleading, since a surface collection may have already been made. It is suggested that the site be subjected

to test excavation to determine its potential and Nation Register eligibility. This project should include an effort to determine if a surface collection was made, and, if so, where the collection is now as well as what it contains.

Survey Projects. Five additional archaeological sites are known to exist to the southwest of the Corona site boundary on property which once was part of the Corona site Naval complex, but which was transferred to other ownership some years ago. Four of the sites were orginially recorded by Eastvoid (1977b) under one site number with four loci. Each locus was subsequently assigned a separate site number. H. H. Feickart (1980a, 1980b) revisited the sites as part of a project in support of the land ownership transfer. He updated the site records and took numerous photographs which are currently filed at the California State Land Commission under file number W20999. The last of sites was recorded by McCarthy (1985a, 1985b). All of the sites within this cluster consist of bedrock grinding implements. No other class of remains has been observed by any of the researchers who have visited the sites.

Source: Master Plan Update, 1989
Preparer: ARCHIPLAN, INC.

3b. YES/NO

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

FY 90 MILCON Project P-171 (now completed) orginally called for demolition of Bldg. 210 at NWAD/Corona. Per WESTNAVFACENGCOM first end 11000 Ser 2022B/P2-736 of 20 Nov 87, Bldg. 210 was identified as part of the 1920's resort complex at Corona with potential for National Registry. Per CO/NWS Seal Beach ltr 11000 Ser 054/2334 of 29 Dec 87, Bldg. 210 was deleted from MILCON Project P-171 and construction proceeded to conclusion. This eliminates any impact on the 1920's era Norconian Club Resort structures. The project was also designed to blend with the existing 1940's structure and documentation submitted in compliance with Section 106 of the National Historic Preservation Act indicating the project will have no adverse effect.

3c.

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

Although no sacred areas or burial sites have been located, to date, the Corona-Norco area of Western Riverside County is within the area that had been inhabited by the Gabrielino Indians in times before European contact. Flint flakes, which apparently were man-made have been found at the NWAD site, which indicates Native Americans activity, possibly this tribe. Native Americans are known to have inhabited, hunted, and gathered in this area for at least 7,500 years. When this area was permanently settled by the Spaniards in 1769, they brought with them their Spainsh Mission system. The Native Americans living in Norco at this time thus became associated with Mission San Gabriel. They, along with tribes widely spread in Southern and Central California, became known as the "Gabrielino Indians." In their own dialect, however, their tribal name was "Kumi Vit."

4. ENVIRONMENTAL FACILITIES

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

NWAD does not have any landfill operations.

4a.

Does your base have an operating landfill?					**YES/NO** **NO**
ID/Location of Landfill	**Permitted Capacity (CYD)**		**Maximum Capacity (CYD)**	**Contents[1]**	**Permit Status**
	TOTAL	**Remaining**			
N/A	N/A	N/A	N/A	N/A	N/A

[1] Contents (e.g. building demolition, asbestos, sanitary debris, etc)

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

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

N/A.

4c.

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

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

NONE.

4d.

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

List permit violations and discuss any projects to correct deficiencies.

NONE.

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

Average discharge rate of 90,000 gallons per week. Sewage discharge is connected to the Santa Ana Regional Waste line (SARI). Long term arrangements are in place to continue use of the SARI line. No volume limitations have been placed on discharge; no pollution discharge is allowed. The sewer lift station has reserve capacity more than double that used. There have been no discharge violations.

4f.

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

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

NONE.

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

NO.

4h.

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

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

NONE.

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

NWAD does not operate a WTP. NWAD's potable water supply is from the Santa Ana River basin wells. The California Rehabilitation Center (CRC) is the owner of the systems and provides potable water to NWAD via an easement to the deeded property. No limitations are known. NWAD's full and complete water rights were retained by the Navy when a portion of the Corona complex was deeded to the State of California.

4j.

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

4k.

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

NWAD's NPDES General Permit identification No. 8-33S004650 is grouped with the Naval Weapons Station, Seal Beach in the Santa Ana Regional Water Quality Control Board, Region 8 group. The permit conditions are as follows:

1. Eliminate non-storm water discharge, including illicit discharge, which is any discharge to a municipal separate storm sewer that is not composed entirely of storm water. This has been completed with the exception of run-off from the sprinkler sytems.

2. Develop and implement a storm water pollution prevention plan. Such a plan has been developed by NWS, Seal Beach for the Corona site.

3. Perform monitoring of discharge to the storm water system. Monitoring includes an annual inspection, a dry season inspection, and a wet season inspection. NWS, Seal Beach performs these inspections and supplies a final report to the Santa Ana Regional Water Quality Control Board, Region 8 Group.

4l.

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

Explain:

4m.

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

No environmental facilities are located at NWAD.

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

No environmental facilities in place at NWAD.

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

No environmental facilities in place at NWAD.

5. AIR POLLUTION

5a.

What is the name of the Air Quality Control Areas (AQCAs) in which the base is located? **South Coast Air Quality Management District.**_____
Is the installation or any of its OLFs or non-contiguous base properties located in different AQCAs? ____**NO**_____ . List site, location and name of AQCA.

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

Site: N/A AQCA: N/A

Pollutant	Attainment	Non-Attainment	Maintenance	Target Attainment Year[1]	Comments[2]
CO		**Serious**		**2000**	
Ozone		**Serious**		**2010**	
PM-10		**Serious**		**2000**	
SO_2	**X**				
NO_2		**Serious**		**1999**	
Pb	**X**				

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

Except for SO_2 and NO_2, NWAD is located in a non-attainment area to which it contributes negligible quantities of pollutants. Pollutants generated in the Los Angeles metropolitan area are the major contributors to our non-attainment status.

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

	Emission Sources (Tons/Year)				
Pollutant	Permitted Stationary	Personal Automobiles **(828)**	Aircraft Emissions	Other Mobile	Total
CO	**0.2**	**69.7**	**N/A**	None	**69.9**
NOx	**0.9**	**5.4**	**N/A**	None	**6.3**
VOC	**0.0**	**5.4**	**N/A**	None	**5.4**
PM10	**0.0**	**N/A**	**N/A**	--------	**0.0**

Source Document: **CY 1990 Annual Air Emissions Report, AP 42 Emissions Data**
NOTE: See calculations on following page.

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

	Emissions Sources (Tons/Year)				
Pollutant	Permitted Stationary	Personal Automobiles	Aircraft Emissions	Other Mobile	Total
CO	**0.2**	**69.7**	**N/A**	None	**69.9**
NOx	**0.9**	**5.4**	**N/A**	None	**6.3**
VOC	**0.0**	**5.4**	**N/A**	None	**5.4**
PM10	**0.0**	**N/A**	**N/A**	None	**0.0**

Source Document: **CY 1993 Annual Air Emissions Report, AP 42 Emissions Data**

NOTE: See calculations on this and following page.

5c. and 5d. CALCULATIONS

BACKGROUND

References:

(1) Light-Duty, Gasoline-Powered Vehicles (Automobiles) Table 3.1.2-4, by Kircher, Williams and Masseo, Dec 75

(2) CALTRANS RideGuide by Commuter Transportation Services, Inc., 1992

From Ref (1):

1972 Vehicle exhaust emissions consist of:

CO	Hydrocarbons (VOC)	Nitrogen (NOx) Oxides
46.7 gm/mi	**3.56 gm/mi**	**3.81gm/mi**
(0.103 lb/mi)	**(0.008 lb/mi)**	**(0.008 lb/mi)**

Total Pollutants: 0.103 + 0.008 + 0.008 = 0.119 lb/mi per car

5c. and 5d. CALCULATIONS (cont'd)

From Ref (2):

1991 Vehicle total pollutants = 0.035 lb/mi

Ratio of 1972 versus 1991 vehichle emission = 0.119/0.035 = 3.4 (A 1972 vehicle produces approximately 3.4 times the pollutants of a typical 1991 vehicle.)

Calcuations Assumptions:

1. The above information is valid.

2. Calculations for representative 1994 commuters' emissions may be based upon the 1972 figures, adjusted by a factor of 1/3.4, per the 1991 versus 1972 ratio.

3. NWAD commuters total = 852 vehicles

4. Average round trip of NWAD commuter = 30 miles

5. Average round trips per year for NWAD commuter = 180 trips (this accounts for leave days, TDY, etc.)

6. Total NWAD employee commuting mileage = 852 x 30 x 180 = 4,600,000 mi/yr

Calculations:

CO
(4,600,000 mi/yr) (0.103 lb/mi) (1/2000 lb/ton) (1/3.4) = 69.7 tons/yr CO

VOC
(4,600,000 mi/yr) (0.008 lb/mi) (1/2000 lb/ton) (1/3.4) = 5.4 tons/yr VOC

NOx
(4,600,000 mi/yr) (0.008 lb/mi) (1/2000 lb/ton) (1/3.4) = 5.4 tons/yr NOx

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

Workloading during the next six years is expected to remain constant. We anticipate air emissions will decrease slightly as a result of increased carpooling incentives or the ridesharing program as well as the 5/4/9 work schedule.

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

NWAD is located in the South Coast Air Quality Management District (SCAQMD) non-attainment area for CO, Ozone, PM-10, SO2 and NO2. However, the cause for non-attainment is the pollutants generated in the Los Angles Metropolitan area.

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

NO.

There have been no base operations/mission/functions impacts. However, a habitat improvement plan which consisted of a controlled burn, approved by appropriate wildlife agencies, was disallowed by SCAQMD.

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

NO.

New equipment must have offsets. Exceptions are allowed for emergency use equipment or replacements for previously permitted equipment. A proposed amendment to this rule exempts facilities emitting < 4 tons/year (pollutant specific). NWAD would qualify for offsets based on this exemption.

6. ENVIRONMENTAL COMPLIANCE

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

Program	**Survey Com-pleted?**	**Costs in $K to correct deficiencies**					
		FY94	**FY95**	**FY96**	**FY97**	**FY98-99**	**FY00-01**
Air	Yes	0	0	0	0	0	0
Hazardous Waste	Yes	0	0	0	0	0	0
Safe Drinking Water Act	Yes	0	0	0	0	0	0
PCBs	Yes	0	0	0	0	0	0
Other (non-PCB) Toxic Substance Control Act	Unk.	0	0	0	0	0	0
Lead Based Paint	N/A	0	0	0	0	0	0
Radon	Yes	0	0	0	0	0	0
Clean Water Act	Yes	0	0	0	0	0	0
Solid Waste	Yes	0	0	0	0	0	0
Oil Pollution Act	Yes	0	0	0	0	0	0
USTs	Yes	0	0	0	0	0	0
Other	----	0	0	0	0	0	0
Total	---	0	0	0	0	0	0

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

Existing practices for these program areas are in compliance. However, NWAD has initiated additional improvement actions that will further reduce enviromental exposure. Projects include:

(1) Upgrade of boilers: Cost $200K Start: Aug 94 Complete: Nov 94
(2) Install backflow prevention Device: Cost $50K Start: Aug 94 Complete: Sep 94 (3) Flourescent lighting PCB transformers, remove: $1K/Yr for FY 94-FY 97.

6b.
Does your base have structures containing asbestos? **Yes.** What % of your base has been surveyed for asbestos? **100%** Are additional surveys planned? **Comprehensive surveys are conducted prior to renovation/modification of structures.** What is the estimated cost to remediate asbestos ($K) **Refer to following table.** Are asbestos survey costs based on encapsulation, removal or a combination of both? **Costs are based on removal. Asbestos is encapsulated or segregated from personnel. Therefore, no remediation is required. However, asbestos removed is currently planned according to the following schedule.**

Bldg #	Scheduled	Cost
209	FY 96	$31.78K
501	FY 97	$19.81K
502	FY 96	$33.07K
503	FY 94	$19.82K
505	FY 94	$36.09K
506	FY 94	$35.99K
508	FY 95	$36.15K
509	FY 95	$39.12K
510	FY 95	$36.28K
511	FY 95	$19.20K
513	FY 96	$21.34K
517	FY 95	$47.00K
520	FY 95	$31.93K
522	FY 95	$31.98K

Total Planned Cost $439.56K

Costs identified:
(1) Abatement of contaminated attic spaces
(2) Abatement of pipe runs located in attic spaces

Cost not identified:
(1) Reinsulation costs for attic spaces, pipe runs, HVAC, walls & ceiling board
(2) Removal costs asbestos insulation from HVAC
(3) Removal costs vinyl asbestos floor tile encapsulated by carpet

(4) Removal costs of unidentified ACM: i.e. pipe runs in walls, wall & ceiling board

Costs estimated based on:
(1) Removal and disposal of existing asbestos = $3.00 per L.F., 4" or less dia. pipe pipe insulation
(2) Cleaning and lockdown of attic spaces = $ .50 per square foot
(3) Removal of up to 6" thick contaminated attic insulation = $1.75 per square foot
Estimated total costs for abating all asbestos is $2 million

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

Funding Source	**FY92**	**FY93**	**FY94**	**FY95**	**FY96**	**FY97**	**FY98-99**	**FY00-01**
O&MN								
HA								
PA								
Other (specify) O/H	250K	260K	280K	290K	300K	315K	325K	340K
TOTAL	250K	260K	280K	290K	300K	315K	325K	340K

6d. Are there any compliance issues/requirements that have impacted operations and/or development plans at your base.

NO.

7. INSTALLATION RESTORATION

7a.

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

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

Site # or name	Type site [1]	Groundwater Contaminated?	Extends off base?	Drinking Water Source?	Cost to Complete ($M)/Est. Compl. Date	Status[2]/Comments
#1- Hydrocarbons	CERCLA	**U/K** Unknow	**NO**	**NO**	**U/K** Unknown	**SI**

An old dump site located behind Hill "B" of the NWAD site has been identified as an IR site. No dumping operations have been conducted for years. The extent of contamination is not known. The site is far removed from operations and personnel.

[1] Type site: CERCLA, 'RCRA corrective action (CA), UST or other (explain)
[2] Status = PA, SI, RI, RD, RA, long term monitoring, etc.

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

NO.

7d.

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

State scope and expected length of pump and treat operation.

7e.

Has a RCRA Facilities Assessment been performed for your base?	YES/NO **NO**

7f. Does your base operate any conforming storage facilities for handling **hazardous materials**? If YES, describe facility, capacity, restrictions, and permit conditions.

NO.

7g. Does your base operate any conforming storage facilities for handling **hazardous waste**? If YES, describe facility, capacity, restrictions, and permit conditions.

NO.

7h. Is your base responsible for any non-appropriated fund facilities (exchange, gas station) that require cleanup? If so, describe facility/location and cleanup required/status.

NO.

7i.

Do the results of any radiological surveys conducted indicate limitations on future land use? Explain below.	YES/NO **NO**

7j. Have any base operations or development plans been restricted due to Installation Restoration consideration?

NO

7k. List any other hazardous waste treatment or disposal facilities not included in questions 7b. above. Include capacity, restrictions and permit conditions.

N/A

8. LAND/AIR /WATER USE

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

Parcel Descriptor	Acres	Location
Main Base	**250 acres**	**Norco, California**

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

LAND USE CATEGORY		ACRES
Total Developed: (administration, operational, housing, recreational, training, etc.)		**137 acres**
Total Undeveloped (areas that are left in their natural state but are under specific environmental development constraints, i.e.: wetlands, endangered species, etc.)		Wetlands: **63.5 acres**
		All Others: **0**
Total Undeveloped land considered to be without development constraints, but which may have operational/man caused constraints (i.e.: HERO, HERF, HERP, ESQD, AICUZ, etc.) TOTAL		**0 acres**
Total Undeveloped land considered to be without development constraints		**49.5 acres**
Total Off-base lands held for easements/lease for specific purposes		**0 acres**
Breakout of undeveloped, restricted areas. Some restricted areas may overlap: **0 acres**	ESQD	**0 acres**
	HERF	**0 acres**
	HERP	**0 acres**
	HERO	**0 acres**
	AICUZ	**0 acres**
	Airfield Safety Criteria	**0 acres**
	Other	**0 acres**

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

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

N/A.

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

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

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

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

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

N/A.

8h.

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

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

N/A.

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

N/A.

8k.

If the base has a cooperative agreement with the US Fish and Wildlife Service and/or the State Fish and Game Department for conducting a hunting and fishing program, does the agreement or these resources constrain either current or future operations or activities? Explain the nature and extent of restrictions.	YES/NO **N/A**

8l. List any other areas on your base which are indicated as protected or preserved habitat other than threatened/endangered species that have been listed in Section 1. List the species, whether or not treated, and the acres protected/preserved.

N/A.

9. WRAP-UP

9a. Are there **existing or potential environmental showstoppers** that have affected or will affect the accomplishment of the installation mission that have not been covered in the previous 8 questions?

YES.

Besides the single IR site identified in question 7b., two other potential sites have recently been identified. Both are relatively small in size (less than 100 sq. yds.) These potential sites are:

1. Site 1 the is result of years of spilling of diesel fuel used in a small above ground fuel storage tank that feeds emergency power generators used as back-up power for a computer system housed in Bldg. 509. Problem has been corrected and contamination is localized. However, contamination has not as yet been removed.

2. Site 2 is a possible small dump site of chemicals behind Bldg. 543 which was a chemicals laboratory over 20 years ago. No chemical laboratory operations have been conducted since the early 1970's. A recent renovation project has raised this site as a potential small clean-up issue. No hazard to operations or personnel is at issue.

9b. Are there any **other environmental permits** required for base operations, include any relating to industrial operations.

YES.

Title IV Federal Facilities Permit.

9c. Describe any **other environmental or encroachment restrictions** on base property not covered in the previous 8 sections.

YES.

Although the present NWAD mission is compatible with the environment, prior Navy uses have not been and future use could be restrictive. The NWAD grounds consist of 250 acres of which 55 acres is freshwater wetlands, namely Lake Norconian, and 8.5 acres is Riparian woodland from the lake's runoff and leakage. Riparian woodland and freshwater habitats are excedingly rare and highly valued in Southern California. This 8.5 acres contains a number of sensitive species including several important ones, such as the Least Bell's Vireo, a Federally-listed Endangered Species, and thus is protected by the Endangered Species Act. Also, Lake Norconian

plays host to over 100 species of migratory birds, which are protected under the Migratory Bird Treaty Act of 1973. Tens of

thousands of birds pass through, rest, feed, or stay here during their annualmigrations. Amongst the California-State protected species which visit are numerous raptors, herons, song birds, and others. Several are "Species of Special Concern," meaning they are candidates for the Threatened Species lists. Some species are listed as "Threatened" on either the State or Federal lists. Besides birds, there are reptiles such as the San Diego Coast Horned Lizards, which are rare, and mammals like the Stephen's Kangaroo Rat, which is a Endangered. Within a short distance there are several other Threatened, Endangered, or Rare birds or other animals. No studies have been conducted to determine the area's insects, crustacea, or other fauna or the flora which may likewise be highly valued.

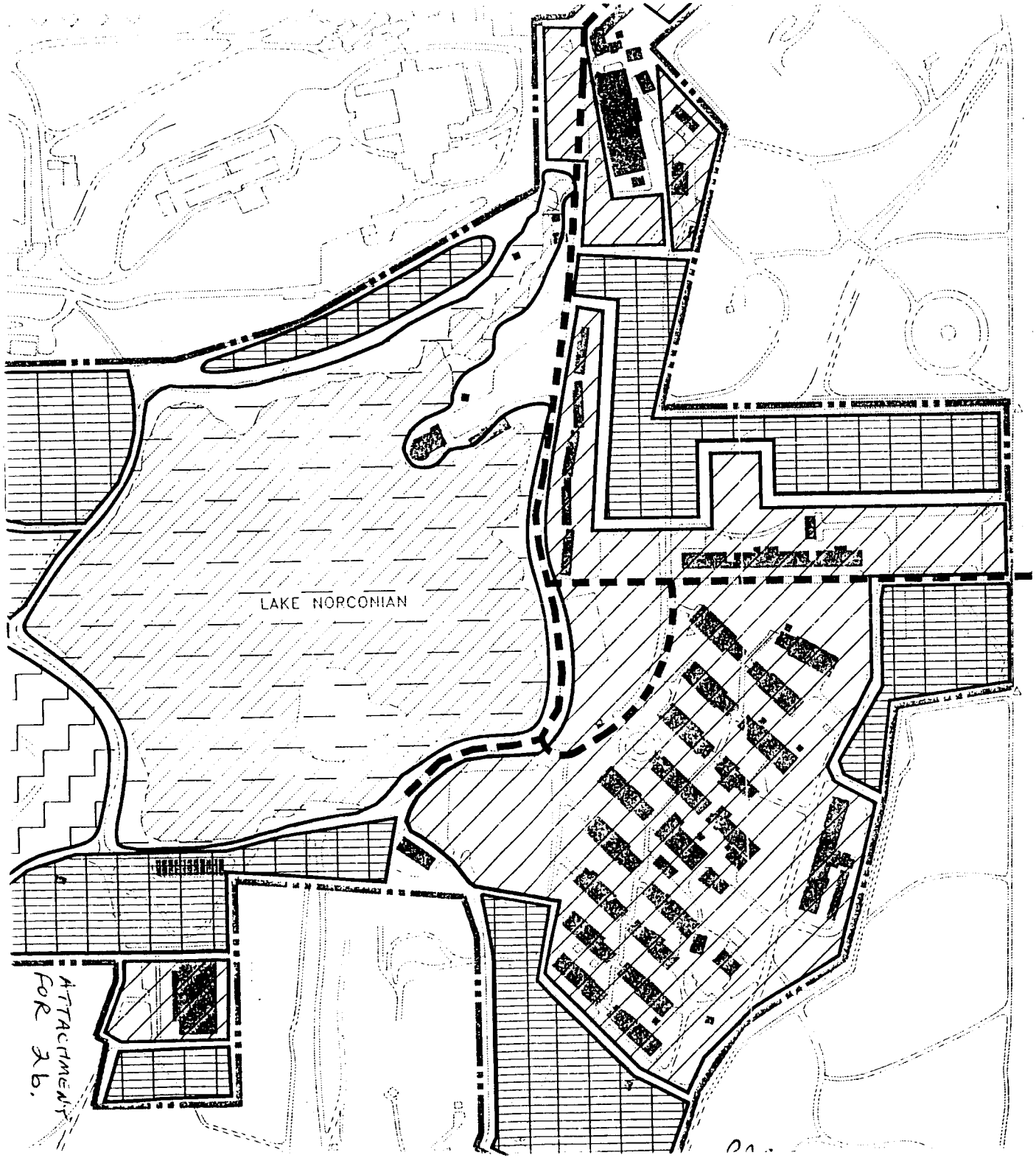
The NWAD grounds may not be suitable for commercial or residential development by future tenants or transfer to others because of the restrictions placed on potential uses. Development would reduce the already constrained native populations. A habitat management plan, designed by the U.S. Fish and Wildlife Service and the California Department of Fish and Game is required to ensure optimal strategy and protection of viable habitat. Furthermore, under the Federal Endangered Species Act, the presence of the Least Bell's Vireo (or any other Federally-listed Endangered Species), requires a Section 7 consultation with the Lead Agency to establish an action plan for protecting the species and its habitat prior to development. This could halt any proposed development of or near the wetlands or Riparian areas. Basically, established wetlands must be maintained continuously into the future.

Recent development of the land adjacent to NWAD was preceded with a detailed biological examination of the area, including the Navy-owned grounds of NWAD. Much of what is discussed above also appears in the resultant report. For further reference on this subject, see the attached Biological Assessment of Riverside Community College and Deane Homes Developments, prepared by Michael P. Hamilton and Associates (1987). Also attached are several photographs of NWAD.

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

NONE.

OPPORTUNITIES/ CONSTRAINT



Unconstrained Development Areas

Major Development Infill Areas

Wetlands Constrained

Difficult Topography

Constrained Open Space-- Lake Norconian Drainage

Primary On-site Circulation System

Existing Boundary

ATTACHMENT FOR 3b.

ATTACHMENT FOR 3b.

CORONA SITE MAP

Biological Assessment

of

Riverside Community College and Deane Homes Developments

City of Norco
Riverside County, California

prepared for:

J.F. Davidson and Associates
Riverside, California

prepared by:

Michael P. Hamilton and Associates
P.O. Box 1807
Idyllwild, CA 92349
714/659-2344

ATTACHMENT for 9c.

INTRODUCTION

This reports describes the biological resources of the surplus navy property proposed for negotiated sale to the City of Norco for subsequent use as a satellite campus of the Riverside Community College District, and a portion of which will become residential housing.

The property is located in Riverside County within the city limits of Norco. Current land use is federal Naval Base with restricted public access. The entire base can be divided roughly into halves, the northern portion contains the navy facilities and Lake Norconian. The southern half includes an area which was once a golf course, and now serves as open space used for sheep grazing, organic waste storage and disposal, and as a buffer zone to the base. Adjacent to the base is the California Rehabilitation Center. Originally developed in the 1920's as a health resort, the navy base and CRC contains many of the original buildings and a fishing and boating reservoir. The Lake is of sufficient size to attract a diversity of resident and migratory waterfowl. The project described in this EIR will be situated on approximately 221 acres within the southern portion of the base, and does not include any portion of Lake Norconian or its southern shoreline.

METHODS

A biological resources survey of the 221 acre project area was conducted during January, February and March of 1987. Owing to the structural simplicity and low diversity of plant and animal communities of the site, walking transects were utilized to describe the nature and extent of vegetation associations and wildlife habitats, live trapping (500 trap nights) to assess small mammal diversity, and Emlen transects for bird census.

Plant associations were mapped on a 1:2000 scale plot map. Agencies contacted for local information and potential sensitive species included:

California Department of Fish and Game
U.S. Fish and Wildlife Service
Riverside County Planning Department
California Natural Diversity Data Base
University of California
San Bernardino County Museum
Sierra Club

Other resources consulted included USGS maps, USDA aerial photography, and local records for avifauna compiled by local Audubon Chapter field trips to Lake Norconian.

Sensitive species which might occur on or near the site are compiled state-wide by the California Natural Diversity Database. Although no records for sensitive taxa are indicated for the naval base, nearby populations of Least Bell's Vireo, Yellow-billed Cuckoo (federally and State listed endangered species) and Blue-gray Gnatcatcher (candidate federal endangered) , in the Santa Ana River drainage and the Prado Basin Flood Control area exist within 1 air mile of the project site.

Other species considered sensitive by California Department of Fish and Game, and the California Natural Diversity Database, and with known occurrences within a five mile radius of the project are listed in table 1.

Table 1.– Senstive Species Occurrences Within The Vicinity of Lake Norconian

Wildlife

Southern Bald Eagle	Federal/Endangered
Least Bell's Vireo	Federal/Endangered
Yellow-billed Cuckoo	Federal/Endagered
Blue-gray Gnatcatcher	Federal candidate/ Endangered
Stephen's Kangaroo Rat	State/Rare
Orange-throated Whiptail	State/Rare
San Diego Coast Horned Lizard	State/Rare

Plants

Caulanthus simulans Pays	List 1 CNPS
Allium fimbriatum var. *munzii* Ownby & Aase	List 1 CNPS
Myosurus minimus L. var. *apus* Greene	List 1 CNPS
Dudleya multicaulis (Rose) Moran	List 1 CNPS
Astragalus brauntonii Parish.	List 1 CNPS
Argemone munita Dur. & Hilg. var. *robusta* G. Ownbey	List 1 CNPS
Chorizanthe procumbens Nutt. var. *albiflora* Goodm.	List 4 CNPS

Specific searches for these species was conducted after examining site records of known locations.

Plant and wildlife species lists were developed over the 3 month field survey. Wildlife records of observed abundances were tallied, and the maximum number of observed individuals for any single observation period were recorded.

A literature review of published references are included with the results.

EXISTING ENVIRONMENT

Geography

The general topography of the project site consists of a variable terrain of low rounded hills, flat ground, and two distinct drainages with surface water and moist soils. Elevations range from 580' above sea level to 755' ASL. Soil samples were not analysed for this report, but they appear granitic in origin, loose and course textured on hillslopes, and fine textured loams with silt and clay in the bottomlands and along drainages. Except for the steep slopes, all soils have been tilled until recently, and much of the site was managed for turf as a golf course until the 1950's. The project is within the Santa Ana River Watershed, 1/2 mile from the Prado County Park, and 1 mile from the Prado Flood Control Basin.

Surrounding land uses are primarily residential and commercial. Western Riverside and San Bernardino County have experienced unprecedented population increases owing to the huge influx of people throughout the southern California region. Interstate 15 will soon link two major east-west corridors which will no doubt further increase rates of development in the Norco area. The result is an island-effect surrounding the entire study area with little or no corridors linking this open space to other areas nearby. The ecolgical effect of this isolation is one of decline in biological diversity and increased sensitivity to disturbance. Figure 1 shows a recent aerial photograph of the project and demonstrates the current level of isolation experienced by the biological resources of the project site.

Botanical Survey Results

Due to extensive cultivation and plantings on the ground, 212 acres of the project supports little native vegetation. Lake Norconian, a man-made reservoir, leaks water from the spillway into a drainage area to the southwest. This perennial water supply supports a 9 acre stand of riparian habitat consisting of approximately 3 species of willow ranging in size from sprouts to 10 meters in height. Other abundant species include *Baccharis viminea, Sambucus mexicana,* date palm saplings, and herbaceous wetland species such as *Typha, Scrirpus* and *Juncus.* Adjacent to this wetland are small relict patches of coastal sage scrub predominated by *Happlopappus* and *Artemisia.*

The remainder of vegetation consists of a planted woodland of ornamental trees including Eucalyptus, Brazilian Pepper, Olive, Pines and Cypresses. Two palms are also common, the date palm, and a royal fan palm. All other areas are essentially a grassland pasture almost exclusively dominated by introduced annuals and turf species. Extensive grazing by domestic sheep was observed, indicating the mechanism by which this property is maintained in an early successional grassland. On steep slopes and hilltops, small areas of

*FIGURE 1

THIRD STREET AREA PLAN
NORCO, CALIFORNIA

rock outcrops provide relictual habitats for several native cismontane plants such as *Opuntia, Eriogonum, Mirabilis, Artemisia* and *Salvia.* Except for *Opuntia* and *Mirabilis,* all native species were extensively grazed by sheep, leaving only vestiges of woody stems and rootstock.

Other than the 9 acre riparian habitat, the remaining habitats are extensively modified or type converted. No evidence of sensitive taxa or their habitats were observed after meticulous walking surveys and transects. Figure 2 defines the location of the major plant communities within the project boundary.

Description of Vegetation

For purposes of this assessment, the vegetation was classified into three major groupings:

1) Pasture and Hillslope Grasslands
2) Planted Woodlands
3) Riparian Woodlands

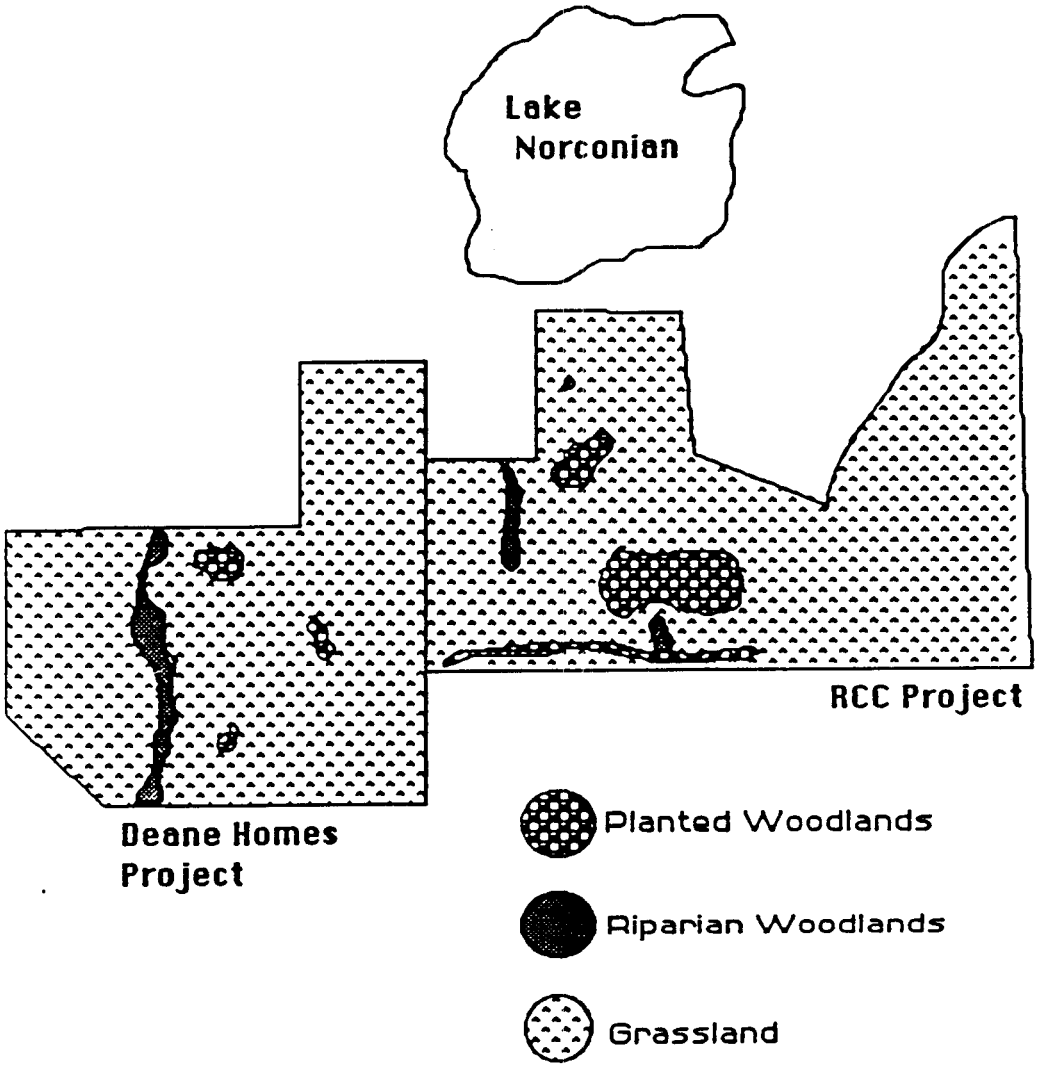
Grasslands and Planted Woodlands

Botanically speaking, the grassland and planted woodlands differ floristically only in the presense of a canopy and/or shrub overstory. The grassland understory was consistely uniform within slope classes. A list of species is shown in Appendix 1. A total of 61 species of vascular plants were associated with the grasslands and planted woodlands, 82% of which are non-native or introduced. Native botanical value of this property is very low, with the exception of the riparian woodland.

Riparian Woodlands

Riparian and other freshwater wetland habitats are exceedingly rare in southern California. Although dwarfed in scale by the nearby Santa Ana River drainage, the 9 acres of riparian woodland contains a significant assemblage of native species to support a diverse and viable wildlife community. Three species of willow, *Salix gooddingii, hindsiana* and *lasiolepis* , as well as *Bacharris viminea*, and *Sambucus mexicana* serve as a well established, multistoried canopy above a perenially wet stream. A variable density understory which includes *Typha, Scirpus, Juncus, Urtica, Polygonum,* and *Rorippa* is suprisingly robust considering this drainage has received extensive disturbance from sheep grazing, trash dumping, oil spills, and flooding. Other than annual grasses and herbs, very few non-native perennials have made it into this community, as upstream are residential homes and Lake Norconian with extensive plantings of exotic species such as Eucalyptus, TreeTobacco, Palms, Olives and other species which readily invade wetlands. A number of date palm seedlings have germinated beneath the willows and

Figure 2. -- Plant associations within the study area



appear quite healthy. No senstive or protected species of plants occur in this habitat.

Wildlife Survey Results

Unlike the botanical species, the majority of wildlife present are native species and are suprisingly rich in diversity. Although many wildlife species recognize and depend upon native vegetation, as is the case of riparian habitat specialists, the more common avifauna and small mammals can utilize, to a certain extent, the habitat values offered by non-native vegetation. The planted woodlands, for instance, serve as roosting and nesting sites for most of the raptors observed. Ground dwelling species such as California Ground squirrels, Desert Cottontails, and Pocket Gophers, are adaptable to many forms of human disturbance. An important element to wildlife success is the presence of habitat structural diversity, that is, a range of conditions permitting multi-storied and multiple age classes of vegetation within a relatively small area. The study area offers some habitat diversity, but favors those species with high dispersibility, such as raptors, and species which depend upon early successional vegetation such as squirrels and rabbits.

Another factor which influences the wildlife diversity of the project area is the nearby Lake Norconian. This popular bird watching area has open water and wetland vegetation which attracts migratory and resident waterfowl. Many of the species such as Common Egrets, Canada Geese, Great Blue Herons and the larger ducks will feed on land nearby the water.

Appendix 2 lists all observed wildlife species by habitat and relative abundance. It should be noted that the timing of this survey was not optimal for the assessment of avifauna diversity. Spring and fall migrants will most likely be missed as will the important spring and summer breeding periods.

Sensitive Species

Survey of wildlife with an emphasis on sensitive taxa revealed the presence of two important species, the Least Bell's Vireo, and the Blue-gray Gnatcatcher. The Least Bell's Vireo is a Federally-listed Endangered Species, and is thus protected by the Endagered Species Act. The Gnatcatcher is currently proposed as a candidate Endangered Species and is likely to be listed in the near future. Both species were observed in the 9 acre Riparian Woodland habitat. Breeding could not be determined as both species will not begin courtship and nest building until mid to late April.

ENVIRONMENTAL IMPACT

Vegetation

The project design for the study site calls for two separate developments: Riverside Community College Campus on the east side, and a residental housing area on the west of the site.

Impacts to vegetation associated with the college campus will result from development of buildings, roads and other facilities. It is doubtful that many of the existing trees will be saved, but landscaping will probably incorporate most of the same species. This impact is not considered significant due to previous land uses and the lack of any significant stands of native vegetation on the east side of the study site.

The residential development on the west side of the site will modify or remove portions of the existing riparian woodland. Current design plans call for a temporary setback of 50 to150 feet from the existing wet drainage due to engineering problems resulting from hydrology. Eventually, plans will follow to remove all of the existing vegetation and to channelize this drainage. The two stage development of this wet drainage will result in two levels of environmental impact. The first level of impact, caused by the enclosure of this habitat by residential development, will have the following effect:

1) changes in surface run-off patterns which will increase streamflow due to removal of vegetative cover within the watershed. Increased sediment loads are also expected which will remove much of the herbaceous understory, and reduce regeneration of overstory species.

2) After housing construction and soil stabilization from landscaping, stream flows may decrease because sewers and flood control devices may reduce recharge into sub-watershed aquafers. This will cause population declines in those species dependent on perennial water flows.

3) Nearby access of the riparian woodland by the public after decades of restricted access by the navy base will result in direct forms of disturbance such as fire wood harvest, possible fires, invasions by introduced exotic plants, and hunting.

If the second phase of stream channelization is completed the resultant impacts will be the complete elimation of all vegetation within the drainage.

Wildlife

The overall impact of both developments on wildlife will be the further reduction and constriction of native populations to an extent which will likely eliminate many of the species which safely reproduce within the project site.

Waterfowl from Lake Norconian will be excluded from terrestrial foraging in this open space. The food base for the raptors dependent on small mammals will be dramatically reduced, resulting in reduced population levels of predators. Ground dwelling species disrupted by grading and building construction are not likely to recover since there are no adjacent habitats to serve as sources for a new population. This is especially true for reptiles and amphibians, burrowing owls, and small mammals. Resident avifauna and mammals which can disperse will probably suffer high mortality since the surrounding urban matrix offers poor habitats which are already at their carrying capacity. Migratory breeders may find other suitable habitats, but reduced open space usually results in population declines in most species.

Urban wildlife populations will increase as these developments will tend to increase habitat diversity for species such as English House Sparrows, Mockingbirds, Starlings, and Rock Doves.

Impacts to Riparian Woodland Habitats

The impact to wildlife dependent upon the riparian woodland will be dramatic. The initial isolation of the woodland from adjacent open space will result in the following changes in habitat utilization:

1) Species which forage in the grasslands and find cover in the riparian woodlands such as badger, racoon, coyote, skunk, will initially become concentrated in the only undisturbed habitat. This concentration will likely eliminate the food base by increasing competition and result in the extinction of these individuals. If they are adaptable species (e.g. urban wildlife), a reduced population may result.

2) A dramatic increase in urban "predators" such as cats and dogs will further increase competition for food and shelter, resulting in population declines.

3) Nesting avifauna such as the Bell's Vireo will be harassed by pets and children from the adjacent residences, reducing the suitability of breeding habitat and possibly causing high levels of mortaility due to the increased energy "costs" of avoiding this new set of predators.

4) Increased siltation and variable stream flows will perterbate the present population dynamics of aquatic insect larvae which serve as the food base for most of the insectivorous vertebrates.

5) The possibility of wildfire, and the detrimental effects of harvesting firewood will further reduce the viability of this habitat.

6) Each of these factors will steadily induce a decline in wildlife use within this small ecological island.

If the vegetation is completely removed for stream channelization, all existing wildlife values will be eliminated. Removal of nesting habitat for the Least Bell's Vireo may cause the death of the breeding pairs. Should a spring census disclose breeding by the vireos, the loss of this habitat will constitute a legal "taking" of those individuals, which is a federal offense.

Summary of Biological Impacts

Construction activities will reduce or eliminate wildlife which are year round residents to the project site. Low dispersal species are not likely to reoccur after construction is completed as there are no nearby population sources due to the high urban densities in the surrounding area.

Urban wildlife with high dispersibility will recolonize the site after construction is completed.

Small islands of remaining habitats, such as the riparian woodland, will experience a permanent decline in species diversity and a loss of most breeding species other than the most resilient, urban associated wildlife. Riparian vegetation diversity will also decline due to changes in hydrology and soil erosion, and increased levels of vegetative disturbance.

Off-site wildlife populations will initially increase as wildlife populations disturbed by construction activities will attempt to enter nearby habitats. This effect will soon cause an overall decline in these populations since most wildlife habitats support local populations at or near the maximum carrying capacity

RECOMMENDATIONS

1. Biological impacts to vegetation in the grassland and planted woodlands are insignificant since most of the species are non-native and typical of urban and agricultural areas throughout Riverside County. ***No mitigation is recommended for this impact.***

2. Isolation and removal of the riparian woodland vegetation is not significant from a botanical standpoint as these species are relatively widespread and abundant in nearby floodplains and riparian woodlands. Disturbance by navy personnel to the understory of this vegetation has reduced the botanical values. ***Cleanup of the oil spills is highly recommended.***

3. Wildlife impacts from construction activities and change in landuse are significant. The loss of open space will reduce feeding opportunities for most of the native species. Landscaping with native species, and retaining as many of the larger trees will insure roosting and limited nesting opportunities for the larger raptors. ***Do not remove any perennial native vegetation without USFWS consultation.***

4. Isolation of the riparian woodland by the residential development will pose a significant impact to wildlife associated with this habitat. The long-range effect will be the decline in species diversity and the loss of many breeders, including the Least Bell's Vireo. ***An appropriate habitat management plan will need to be designed by US Fish and Wildlife Service, and California Department of Fish and Game biologists to insure an optimal strategy to protect the viability of this habitat for vireo reproduction. Under the federal Endangered Species Act, the presence of the Least Bell's Vireo on federal property will require a section 7 consultation with the Lead Agency to establish an action plan for protection of this species and associated habitat before development can be initiated. Additional study of breeding activities of avifauna will be necessary as a component of this recommendation.***

Document Separator

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Appendix 1: Plant Observations

Family Genus Species	Habitat
Anacardiaceae	
Schinus molle L.	Planted
Arecaceae	
Mexican Fan Palm	Planted
Date Palm	Planted
	Riparian
Amaranthaceae	
Amaranthus albus L.	Pasture
A. graecizans L.	Pasture
Asteraceae	
Ambrosia psilostachya DC.	Pasture
Artemisia californica Less.	Pasture
Baccharis viminea DC.	Riparian
Chicorium intybus L.	Pasture
Circium vulgare (Savi) Ten.	Riparian
Conyza canadensis (L.) Cronq.	Pasture
C. bonariensis (L.) Cronq.	P/R
Corethrogyne filaginifolia (H. & A.) Nutt.	Pasture
Encelia californica Nutt.	Pasture
Gnaphalium beneolens A. Davids.	Pasture
G. palustre Nutt.	Riparian
Hedypnois cretica (l.) Willd.	Pasture
Heterotheca grandiflora Nutt.	Pasture
Lactuca serriola L.	P/R
Lepidospartum squamatum (Gray) Gray	Riparian
Microseris douglasii (DC.) Sch.-Bip.	Pasture
Perezia microcephala (DC.) Gray	Riparian
Senecio vulgaris L.	Pasture
Silybum marianum (L.) Gaertn.	P/R
Solidago occidentalis (Nutt.) T. & G.	Riparian
Sonchus oleraceus L.	Pasture
Taraxacum officinale Wiggers.	P/R
Xanthium strumarium L.	Pasture
Boraginaceae	
Cryptantha sp.	Pasture
Plagiorbothrys sp.	Pasture
Brassicaceae	
Brassica campestris L.	Pasture
B. geniculata (Desf.) J. Ball	Pasture
B. nigra (L.) Koch.	Pasture

	Capsella bursa-pastoris (L.) Medic.	Pasture
	Raphanus sativa L.	Pasture
	Sisymbrium altissimum L.	Pasture
	S. officinale (L.) Scop.	Pasture
Cactaceae		
	Opuntia littoralis (Engelm.) Ckll.	Pasture
	O. parryi Engelm.	Pasture
Caprifoliaceae		
	Sambucus mexicana Presl.	Riparian
Cupressaceae		
	Cupressus sp.	Planted
Chenopodiaceae		
	Chenopodium album L.	Pasture
	C. ambrosioides L.	Riparian
	Salsola kali L.	Pasture
Convolvulaceae		
	Convolvulus arvensis L.	P/R
Cyperaceae		
	Scirpus validus Valh.	Riparian
Euphorbiaceae		
	Eremocarpos setigerus (Hook.) Benth.	Pasture
	Euphorbia polycarpa Benth.	Pasture
Fabaceae		
	Medicago sativa L.	Pasture
	Melilotus albus Desr.	Pasture
	M. indicus (L.) All.	Pasture
	Trifolium repens L.	Pasture
	T. tridentatum Lindl.	Riparian
Geraniaceae		
	Erodium cicutarium (L.) L'Her	Pasture
	E. moschatum (L.) L'Her	Pasture
Hydrophyllaceae		
	Amsinkia intermedia F. & M.	Pasture
Juncaceae		
	Juncus balticus Willd.	Riparian
Lamiaceae		
	Marrubium vulgare L.	Pasture
	Salvia apiana Jeps.	Pasture

Myrtaceae		
	Eucalyptus globulus Labill.	Planted
Nyctaginaceae		
	Mirabilis californica Gray	Pasture
Pinaceae		
	Pinus sp.	Planted
Poeaceae		
	Avena barbata Brot.	Pasture
	A. fatua L.	Pasture
	Bromus diandrus Roth.	Pasture
	B. mollis L.	Pasture
	B. rubens L.	Pasture
	B. tectorum L.	Pasture
	Cynodon dactylon (L.) Pers.	Riparian
	Cynosurus echinatus L.	Pasture
	Hordeum jubatum L.	Riparian
	Poa annua L.	Pasture
	Polypogon interuptus HBK.	Pasture
	Sitanian hystrix (Nutt.) J. G. Sm.	Pasture
Polygonaceae		
	Eriogonum fasciculatum Benth.	Pasture
	Polygonum punctatum Elliot.	Riparian
	Rumex crispus L.	P/R
Salicaceae		
	Salix gooddingii Ball. var. *goodingii*	Riparian
	S.*hindsiana* Benth. var. *hindsiana*	Riparian
	S. lasiolepis Benth. var. *lasiolepis*	Riparian
Solanaceae		
	Nicotiana glauca Grah.	Pasture
Typhaceae		
	Typha latifolia L.	Riparian
Urticaceae		
	Urtica holosericea Nutt.	Riparian

Appendix 2: Wildlife Observations

Lake Norconian (*avifauna only*)	**Maximum Number of Individuals Observed/day**
California Gull	7
Western Grebe	4
American Widgeon	24
Pied-billed Grebe	19
American Coot	183
Common Egret	6
Double-crested Cormorant	3
Mallard	1
Shoveller	4
Northern Pintail	3
Great Blue Heron	1
Green Heron	1
Canada Goose	5
Grasslands and Hillslopes/ Planted Woodlands	
Sharp-shinned Hawk	2
Cooper's Hawk	1
Red-tailed Hawk	8
Common Crow	62
Common Raven	3
American Kestrel	9
Turkey Vulture	2
Burrowing Owl	2
Barn Owl	2
Great Horned Owl	1
Mourning Dove	6
Western Meadowlark	16
Loggerhead Shrike	11
Anna's Hummingbird	2
Rock Dove	27
Starling	12
Grasshopper Sparrow	2
Lesser Goldfinch	8
Tree Swallow	80

Coyote	Scat/tracks
Norway Rat	8
Desert Woodrat	1
House Mouse	2
White-footed Deer Mouse	33
Botta's Pocket Gopher	17
California Vole	2
Striped Skunk	Scat/tracks
Western Fence Lizard	18
Side-blotched Lizard	1
Alligator Lizard	2
Gopher Snake	3

Riparian Woodland

Anna's Hummingbird	8
White-crowned Sparrow	8
Song Sparrow	9
Lincoln's Sparrow	12
Savanna Sparrow	2
House Finch	3
Mockingbird	3
House Wren	7
Yellow-rumped Warbler	17
Brown Towhee	2
Catbird	1
Common Bushtit	1
Ground Dove	1
Greater Yellowlegs	1
Least Bell's Vireo	3
Blue-gray Gnatcatcher	2
California Ground Squirrel	27
Black-tailed Hare	1
Desert Cottontail	Scat/track
Raccoon	Scat/track
Oppossum	Tracks
White-footed Deer Mouse	3
Striped Skunk	Tracks/scat
Badger	Burrow/tracks
Pacific Treefrog	22
California Slender Salamander	3
Western Aquatic Gartersnake	1

NWADIV CORONA DC-33

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

NEXT ECHELON LEVEL (if applicable)

R. SUTTON, RADM, USN
NAME (Please type or print)

Signature

COMMANDER
Title

Date

NAVAL ORDNANCE CENTER
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)

J.C. ROBERTSON, CAPT SC, USN
NAME (Please type or print)

Signature

ACTING COMMANDER
Title

6/10/94
Date

NAVAL ORDNANCE CENTER
Activity

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

MAJOR CLAIMANT LEVEL

G. R. STERNER
NAME (Please type or print)

Signature

6-13-94
Date

Title
Commander
Naval Sea Systems Command
Activity

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

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

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

Signature

ACTING
Title

6/24/94
Date

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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

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

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

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

ACTIVITY COMMANDER

Edward G. Schwier
NAME (Please type or print)

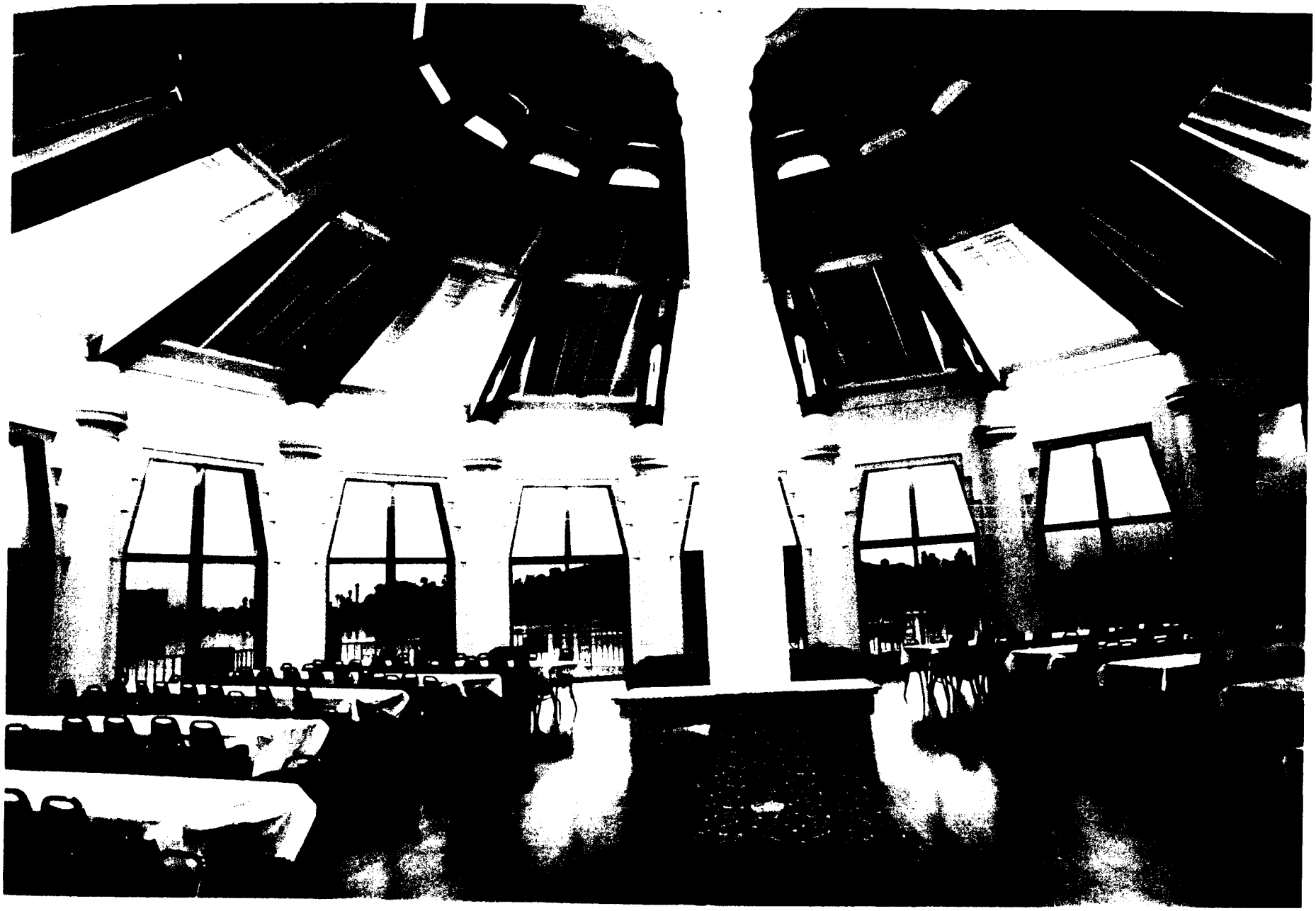
Edward G. Schwier
Signature

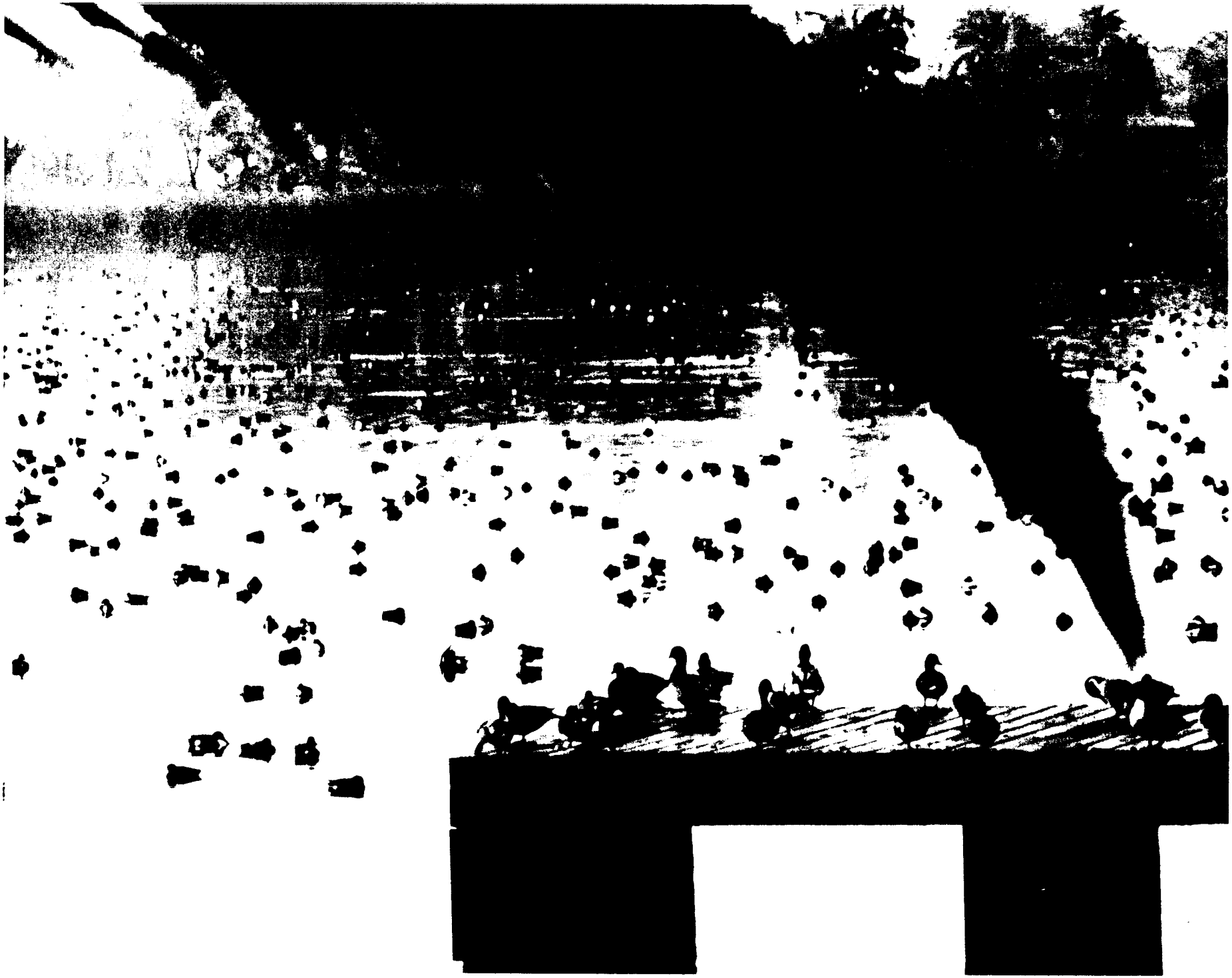
Commanding Officer
Title

27 May 1994
Date

Naval Warfare Assessment Division
Activity

Corona, CA





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CAPACITY ANALYSIS:
DATA CALL #4 WORK SHEET FOR
TECHNICAL CENTER or LABORATORY: Naval Warfare Assessment Division, Corona CA

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TAB A: Ship Berthing Capacity
TAB B: Operational Airfield Capacity
TAB C: Depot Level Maintenance Capacity
TAB D: Ordnance Storage Capacity

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

7 April 1994

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

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

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

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

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

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

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

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

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

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

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

Page ___ of ___
UIC 64267

REVISED P.G.

Table 1.1 Historical and Projected Workload for NWAD (UIC 64267)

Fiscal Year	Total Funds Budgeted ($K)	Total Funds Received w/o Direct Cite ($K)	Direct Cite Funds Received ($K)	Budgeted Wkyrs	Actual In-House Wkyrs	Actual Onsite Contract Wkyrs
86	*	134,123	16,400	1060.0	1067.4	218
87	158,286	132,132	39,400	1270.4	1220.8	225
88	141,679	140,642	*	1247.9	1244.2	181
89	145,792	145,377	*	1305.5	1287.9	149
90	147,485	155,729	20,900	1322.1	1321.4	140
91	127,236	129,278	19,800	1157.2	1138.6	133
92	122,619	106,010	18,700	1100.4	1151.8	112
93	125,499	128,214	20,000	1215.4	1259.0	114
94	120,800			1054.8		
95	126,456			1069.9		
96	129,469			1067.6		
97	125,702			1062.8		

(R

*NOT AVAILABLE

2R 7/15/94

Table 1.1 Historical and Projected Workload for NWAD (UIC 64267)

Fiscal Year	Total Funds Budgeted ($K)	Total Funds Received w/o Direct Cite ($K)	Direct Cite Funds Received ($K)	Budgeted Wkyrs	Actual In-House Wkyrs	Actual Onsite Contract Wkyrs
86	*	134,123	16,400	1060.0	1067.4	218
87	158,286	132,132	39,400	1270.4	1220.8	225
88	141,679	140,642	*	1247.9	1244.2	181
89	145,792	145,377	*	1305.5	1287.9	149
90	147,485	155,729	20,900	1322.1	1321.4	140
91	127,236	129,278	19,800	1157.2	1138.6	133
92	122,619	106,010	18,700	1100.4	1151.8	112
93	125,499	128,214	20,000	1215.4	1259.0	11
94	120,800			1054.8		
95	126,456			1069.9		
96	129,469			1067.6		
97	125,702			1062.8		

*NOT AVAILABLE

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Table 1.2 Historical and Projected Workload for Detachments of NWAD (UIC 64267)

Fiscal Year	Total Funds Budgeted ($K)	Total Funds Received w/o Direct Cite ($K)	Direct Cite Funds Received ($K)	Budgeted Wkyrs	Actual In-House Wkyrs	Actual Onsite Contract Wkyrs	
86	*	*	13,600	377.5	390.8	211	(R
87	3258	2717	14,600	213.7	215.4	222	(R
88	3157	2835	16,067	213.3	212.9	243	(R
89	3881	4531	17,480	192.0	189.9	261	(R
90	3862	3489	23,700	189.0	182.9	353	(R
91	4117	4437	27,800	180.9	169.4	379	(R
92	3420	5363	28,900	176.4	178.9	404	(R
93	4921	4972	24,400	97.5	99.0	410	(R
94	5715			60.0			
95	6740			61.0			
96	6921			61.6			
97	7051			61.6			

* NOT AVAILABLE

Table 1.2 Historical and Projected Workload for Detachments of NWAD (UIC 64267)

Fiscal Year	Total Funds Budgeted ($K)	Total Funds Received w/o Direct Cite ($K)	Direct Cite Funds Received ($K)	Budgeted Wkyrs	Actual In-House Wkyrs	Actual Onsite Contract Wkyrs
86	*	*	13,600	377.5	390.8	2
87	3258	2717	14,600	213.7	215.4	2
88	3157	2835	16,067	213.3	212.9	13
89	3881	4531	17,480	192.0	189.9	15
90	3862	3489	23,700	189.0	182.9	22
91	4117	4437	27,800	180.9	169.4	27
92	3420	5363	28,900	176.4	178.9	28
93	4921	4972	24,400	97.5	99.0	24
94	5715			60.0		
95	6740			61.0		
96	6921			61.6		
97	7051			61.6		

* NOT AVAILABLE

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TABLE 1.3 FY 1993 BREAKOUT OF FUNDS BUDGETED for NWAD (UIC 64267)

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
AIR FORCE								20							1440
ALL OTHER															288
ARMY															1085
COAST GUARD															2
DOD															206
FLEET CINCs							370		8473						
MARINE CORP															1184
NAVAIR	65				1087		315		10701	2394	4032	3175			4172
NAVSEA					3500				6960		1750		500		495
ONR															
OTHER FED. GOV.															491
OTHER NAVY					350				8204		766	601	20	4545	567
PEO/DRPM				300	520	50			11021		925	13925	7346		631
SSPO									7750			4117	996		993
TOTAL	65	0	0	300	5457	50	685	20	53109	2394	7473	21818	8862	4545	11554

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TABLE 1.4 FY 1993 BREAKOUT OF FUNDS BUDGETED for DETACHMENTS of NWAD (UIC 64267)

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
AIR FORCE															19
ALL OTHER															
ARMY															
COAST GUARD															
DOD															
FLEET CINCs									3470						
MARINE CORP															
NAVAIR					47.5				1352	85.5	418.3				186.2
NAVSEA															
ONR															
OTHER FED GOV.															
OTHER NAVY														5.7	
PEO/DRPM									108				115		
SSPO															
TOTAL	0	0	0	0	47.5	0	0	0	4930	85.5	418.3	0	115	5.7	205.2

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TABLE 1.3 FY 1994 BREAKOUT OF FUNDS BUDGETED for NWAD
(UIC 64267)

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
AIR FORCE								90							1346
ALL OTHER															115.3
ARMY															1118
COAST GUARD															3
DOD															212
FLEET CINCs							200		14297						
MARINE CORP															993.3
NAVAIR	75				666.6		315		6693.3	309	5294.8	450		112.5	1893
NAVSEA					3400				5812		1360		300		517
ONR									130						
OTHER FED. GOV.															630
OTHER NAVY				1498	400		1024		5415.8	2166.4	1277	410		6250.2	428.3
PEO/DRPM				1280	570.2	460	50		10033		1673.3	13436	11757		3166.8
SSPO									7009.8			4085	983		1090
TOTAL	**75**	**0**	**0**	**2778**	**5037**	**460**	**1589**	**90**	**49393**	**2475**	**9605**	**18381**	**13040**	**6363**	**11513**

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TABLE 1.4 FY 1994 BREAKOUT OF FUNDS BUDGETED for DETACHMENTS of NWAD (UIC 64267)

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
AIR FORCE															19
ALL OTHER															
ARMY															
COAST GUARD															
DOD															
FLEET CINCs									4509.7						
MARINE CORP															
NAVAIR									1112.6	9.5	1.3			7.6	
NAVSEA															
ONR															
OTHER FED GOV.															
OTHER NAVY									1.9					53.2	
PEO/DRPM															
SSPO															
TOTAL	0	0	0	0	0	0	0	0	5624	9.5	1.3	0	0	60.8	19

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TABLE 1.3 FY 1995 BREAKOUT OF FUNDS BUDGETED for NWAD (UIC 64267)

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
AIR FORCE								90							1307
ALL OTHER															97.1
ARMY															1151
COAST GUARD															3
DOD															220
FLEET CINCs							200		14209						
MARINE CORP															1060
NAVAIR	65				1338.7		315		6093.7	355.5	5102	604		270	1819
NAVSEA					4585				5789		2085		400		933.2
ONR					200										
OTHER FED. GOV.															1113
OTHER NAVY				730	400		722		6783.3	3177	1270	1089		7105.9	278.9
PEO/DRPM	259			750	1197.7	245	50		9738.8		2349	14074	11338.		2072.5
SSPO									7319.6		840	4212.9			1048.9
TOTAL	324	0	0	1480	7721	245	1287	90	49933	3533	11646	19980	11738	7376	11103

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TABLE 1.4 FY 1995 BREAKOUT OF FUNDS BUDGETED for DETACHMENTS of NWAD (UIC 64267)

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
AIR FORCE															19
ALL OTHER															
ARMY															
COAST GUARD															
DOD															
FLEET CINCs									4807						
MARINE CORP															
NAVAIR					70.3		0		1516	9.5	152				130.3
NAVSEA															
ONR															
OTHER FED GOV.															
OTHER NAVY									1.9					34.2	
PEO/DRPM															
SSPO															
TOTAL	0	0	0	0	70.3	0	0	0	6325	9.5	152	0	0	34.2	149.3

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TABLE 1.3 FY 1996 BREAKOUT OF FUNDS BUDGETED for NWAD
(UIC 64267)

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
AIR FORCE								90							1621
ALL OTHER															97.1
ARMY															1325
COAST GUARD															3
DOD															250
FLEET CINCs							200		14175						
MARINE CORP															1040
NAVAIR	65				2015		315		6097.3	328	5433	604		270	1840
NAVSEA					4021				5203		2090		400		1180
ONR					200										
OTHER FED. GOV.															1134
OTHER NAVY				630	400		740		6721.3	3161	1270	1063		7831.9	466.6
PEO/DRPM	345			750	1403.7	80	50		9833.9		2094	12657	13089	105	2043.5
SSPO									7343.6	710	1757	3970.6			956.2
TOTAL	410	0	0	1380	8040	80	1305	90	49374	4199	12644	18295	13489	8207	11956

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TABLE 1.4 FY 1996 **BREAKOUT OF FUNDS BUDGETED for DETACHMENTS of NWAD (UIC 64267)**

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
AIR FORCE															19
ALL OTHER															
ARMY															
COAST GUARD															
DOD															
FLEET CINCs									4930.5						
MARINE CORP															
NAVAIR					140.2		0		1541		152				130.4
NAVSEA															
ONR															
OTHER FED GOV.															
OTHER NAVY									1.9					5.7	
PEO/DRPM															
SSPO															
TOTAL	0	0	0	0	140.2	0	0	0	6473	0	152	0	0	5.7	149.4

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TABLE 1.3 FY 1997 BREAKOUT OF FUNDS BUDGETED for NWAD

(UIC 64267)

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
AIR FORCE								90							1561
ALL OTHER															97.1
ARMY															1365
COAST GUARD															3
DOD															258
FLEET CINCs							200		14030						
MARINE CORP															1040
NAVAIR	65				602.5		315		6166.1	1052	5399	619		270	1845.9
NAVSEA					4120				5790		2090		400		1188
ONR															
OTHER FED. GOV.															1164
OTHER NAVY				724	200		740		6721.3	3043	1270	1244		7451.4	490
PEO/DRPM	675			750	2206.9		50		9719.9		1394	12313	11456	105	1616.9
SSPO									7133.5		1757	3992.3			919.2
TOTAL	$740	0	0	1474	7129	0	1305	90	49560	4095	11910	18168	11856	7826	11548

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TABLE 1.4 FY 1997 **BREAKOUT OF FUNDS BUDGETED for DETACHMENTS of NWAD (UIC 64267)**

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
AIR FORCE															19
ALL OTHER															
ARMY															
COAST GUARD															
DOD															
FLEET CINCs									4979.7						
MARINE CORP															
NAVAIR					142.5		0		31581	9.5	152				130.3
NAVSEA															
ONR															
OTHER FED GOV.															
OTHER NAVY									1.9					34.2	
PEO/DRPM															
SSPO															
TOTAL	0	0	0	0	142.5	0	0	0	6563	9.5	152	0	0	34.2	149.3

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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.

This Command is in the process of making adjustments to the Navy Facility Assests Data Base (NFADB) reflecting the Class 1 and Class 2 property being reported under the Naval Warfare Assessment Division UIC (64267). Thus, this Command is reporting all assets at the Corona site for proposes of this and future data calls. See Table 2.1 for details.

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.

This Command has currently 5 tenants occuyping 98,790 square feet of space. See Table 2.2 for details.

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.

This Command is currently utilizing 38,000 square feet of space located at the Naval Industrial (NIROP) in Reserve Ordnance Plant (NIROP) in Pomona, CA. See Table 2.3 for details.

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Table 2.1 Main Site Class 2 Assets of NWAD (UIC 64267)

Building type	NAVFAC (P-80) category code	Gross Floor/Building Area (KSF)			
		Adequate	Sub-standard	In-adequate	Total
Operational & Training	100	16,538	0	0	16,538
Maintenance & Production	200	36,586	0	0	35,586
Science labs	310				
Aircraft labs	311				
Missile and Space labs	312	203,966	0	0	203,966
Ship and Marine labs	313				
Ground Transportation labs	314				
Weapon and Weapon Systems labs	315	48,690	0	0	48,690
Ammunition, Explosives, & Toxics labs	316				
Electrical Equip. labs	317				
Propulsion labs	318				
Miscellaneous labs	319	84,548	12,505	0	97,053
Underwater Equip. labs	320				
Technical Services labs	321				
Supply Facilities	400	12,830	8,400	0	21,230
Hospital & other Medical	500	606	0	0	606
Administrative Facilities	600	48,172	15,988	0	64,160
Housing & Community	700	28,014	0	0	28,014
Utilities & Grounds	800	2,527	0	0	2,527
Other					
	Totals	482,477	36,893	0	519,370

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UIC 64267

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?

There are no C3 or C4 designated facilities on the Command's BASEREP. Currently, there are no facilities with a condition that meets the NAVFACINST 11010.44E definition "inadequate."

Table 2.2 Main Site Class 2 Space of NWAD (UIC 64267)
Assigned to Tenants

TENANT		NAVFAC (P-80) Category Code	GF/BA Assigned (KSF)
Name	UIC		
NAVAL WEAPONS STATION, SEAL BEACH	60701	131-40	632
NAVAL WEAPONS STATION, SEAL BEACH	60701	171-10	4257
NAVAL WEAPONS STATION, SEAL BEACH	60701	219-10	14,798
NAVAL WEAPONS STATION, SEAL BEACH	60701	219-25	4,578
NAVAL WEAPONS STATION, SEAL BEACH	60701	219-77	2,400
NAVAL WEAPONS STATION, SEAL BEACH	60701	441-10	21,230
NAVAL WEAPONS STATION, SEAL BEACH	60701	610-10	11,744
NAVAL WEAPONS STATION, SEAL BEACH	60701	740-19	367
NAVAL AIR WARFARE CENTER-WEAPONS DIVISION, CHINA LAKE	62738	312-10	34,433
BRANCH MEDICAL CLINIC, NH LONG BEACH	46360	550-10	606
DPS DET, PT MUGU	66965	229-50	3280
NAVFACENGCOM, ROICC	68711	610-10	465
		Total:	98790

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Table 2.3 Class 2 Space Utilized/Leased by NWAD ___ (UIC 64267)

Building type	NAVFAC (P-80) category code	GF/BA (KSF)			
		Adequate	Sub-standard	In-adequate	Total
Operational & Training	100				
Maintenance & Production	200				
Science labs	310				
Aircraft labs	311				
Missile and Space labs	312				
Ship and Marine labs	313				
Ground Transportation labs	314				
Weapon and Weapon Systems labs	315				
Ammunition, Explosives, and Toxics labs	316				
Electrical Equip. labs	317				
Propulsion labs	318				
Miscellaneous labs	319	21,000	0	0	21,000
Underwater Equip. labs	320				
Technical Services labs	321				
Supply Facilities	400	18,000	0	0	18,000
Hospital & other Medical	500				
Administrative Facilities	600				
Housing & Community	700				
Utilities & Grounds	800				
Other					
	Totals	38,000	0	0	38,000

NOTE: This space is occupied at the Naval Industrial Reserve Ordnance Plant presently operated by Hughes Aircraft Division in Pomona, CA. Hughes is scheduled to cease operations in September,

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UIC 64267

1994. This Command plans to relocate it's operations in Pomona to the Corona main site not later than Fiscal Year 1998.

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.

The Naval Warfare Assessment Division is not a plant account holder of Class 2 space at any of it's 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.

The Naval Warfare Assessment Division has no assigned space occupied by it's detachments to other tenant command and/or independent activities at it's detachment sites.

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.

The Naval Warfare Assessment Division has 15 detachments (field offices) located thoughout the contenntial United States and in foreign countries. These detachments are listed below. The space utilized is provided in the attached Table 2.6. There is no leased space occupied by these detachments.

Name	UIC	Location	Host name	Host UIC
NWAD Field Office		Oceana, VA	NAS, Oceana	60191
NWAD Field Office		Fallon, NV	NAS, Fallon	60495
NWAD Field Office		Yuma, AZ	MCAS, Yuma	62974
NWAD Field Office		Cherry Pt. NC	NCAS, Cherry Pt.	00146
NWAD Field Office		Beaufort, SC	MCAS, Beaufort	60169
NWAD Field Office		Key West Air Field	NAS, Key West	00213
NWAD Field Office		Miramar, CA	NAS, Miramar	60259
NWAD Field Office		El Centro, CA	NAS, El Centro	60042
NWAD Field Office		Cecil Field Astor, FL	NAS, Cecil Field	30504
NWAD Field Office		Puerto Rico	NS, Roosevelt	00389
NWAD Field Office		Crete	Naval Support Act. Crete	66691
NWAD Field Office		Norfolk, VA	NS, Norfolk	62688
NWAD Field Office		Moorestown, NJ	AEGIS COMBATSYSC	43980
NWAD Field Office		OASN	RD&A Product Integrety	48142
NWAD Field Office		Tusin, CA	MCAS, El Toro	60050

Table 2.4 Class 2 Assets of NWAD Occupied by Detachments

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

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UIC 64267

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

(1) FACILITY TYPE/CODE:
(2) WHAT MAKES IT INADEQUATE?
(3) WHAT USE IS BEING MADE OF THE FACILITY?
(4) WHAT IS THE COST TO UPGRADE THE FACILITY TO SUBSTANDARD?
(5) WHAT OTHER USE COULD BE MADE OF THE FACILITY AND AT WHAT COST?
(6) CURRENT IMPROVEMENT PLANS AND PROGRAMMED FUNDING:
(7) HAS THIS FACILITY CONDITION RESULTED IN C3 OR C4 DESIGNATION ON YOUR BASEREP?

Table 2.5 Class 2 Space at Detachment Sites of NWAD (UIC 64267)
Assigned to Tenants

TENANT		NAVFAC (P-80) Category Code	GF/BA (KSF) Assigned
Name	UIC		
		Total:	0

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Table 2.6 Class 2 Space Utilized/Leased by Detachments of NWAD_ (UIC64267)

Building type	NAVFAC (P-80) category code	GF/BA (KSF)			
		Adequate	Sub-standard	In-adequate	Total
Operational & Training	100	162.5	0	0	162.5
Maintenance & Production	200	13.8	0	0	13.8
Science labs	310				
Aircraft labs	311				
Missile and Space labs	312	0.5	0	0	0.5
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	1.3	0	0	1.3
Hospital & other Medical	500				
Administrative Facilities	600	0.7	0	0	0.7
Housing & Community	700				
Utilities & Grounds	800				
Other					
	Totals	178.8	0	0	178.8

3. Class 2 Space Available for Expansion. An activity's expansion capability is a function of it's ability to reconfigure and/or expand existing facilities to accept new or increased roles.

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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. 150,731 SQFT.

The majority of the additional space is provided by the installation of Systems Furniture work stations.

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. 74,050 SQFT of Net Floor Area.

Currently three buildings are fitted with Systems Furniture work stations and can accommodate an additional 95 personnel at no cost. By consolidating functions within the present constraints of the other buildings not listed in Table 3.1 an additional 76 personnel can be accommodated at no cost. These expansion opportunities will not adversely impact any ancillary facilities i.e. transportation systems, utility systems, parking, ect.

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

estimated completion date of the downsizing effort.

d. Use Table 3.2 below to indicate additional unconstrained growth opportunities for accepting expanded or new roles. Unconstrained growth allows for construction of new facilities on existing buildable Class 1 property. The only constraint being that the land must currently be on your plant account holdings as of 31 March 1994 and free of existing land use constraints. Limit new buildings to three stories. Add numbered notes to highlight and explain additional opportunities that would require remediation or waiver of a land use constraint as part of the expansion. Provide lettered notes to clearly identify each opportunity with the title & UIC of the site it refers to. Do not include space that has been reported in Table 3.1.

Table 3.1 Constrained Class 2 Space Available for Expansion at NWAD (UIC 64267)

Building # / Category Code (3 digit)	Current NFA (KSF)	Additional Capacity Provided By Expansion		Height of High Bay (FT)	Estimated Cost of Rehab ($K's)
		NFA (KSF)	# of Personnel		
502/312	11,136	*	28	N/A	325
505/312	12,254	*	40	N/A	0
507/312	12,609	*	19	N/A	0
510/312	12,325	*	44	N/A	398
514/312	12,295	*	30	N/A	391
518/319	12,511	*	46	N/A	365
519/319	13,928	*	36	N/A	445
520/319	10,716	*	55	N/A	351
521/319	10,897	*	35	N/A	357
522/319	10,704	*	31	N/A	351
523/319	10,778	*	40	N/A	361
543/312	20,834	*	36	N/A	0
652/312/319	34,433	58,536	390	78	7,396
209/610	7,261	17,679	118	N/A	2,678
Totals	192,681	76,215	948		13,430

*Additional Capacity in the above listed buildings is provided by the installation of Systems Furniture work stations.

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Table 3.2 Unconstrained Class 2 Space Available for Expansion at NWAD (UIC 64267)

Building # / Category Code (3 digit)	Current NFA (KSF)	Additional Capacity Provided By Expansion		Height of High Bay (FT)	Estimated Cost of Rehab ($K's)
		NFA (KSF)	# of Personnel		
P-167	0	40K	200	N/A	8,170
Totals	0	40	200		8,170

4. Class 1 Space Available for Expansion.

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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).

Table 4.1 depicts the available Class 1 space available for expansion at the Corona site of the Naval Warfare Assessment Division. The restricted space for development of R&D expansion is due to the wetlands and 15%-50% slope topography of 63.5 acres. Also, within this area is a possible archaeological site. The potential of this site cannot be assessed until a test excavation has been completed. There are no other known environmental, operational, or cultural resources restrictions at the Corona site.

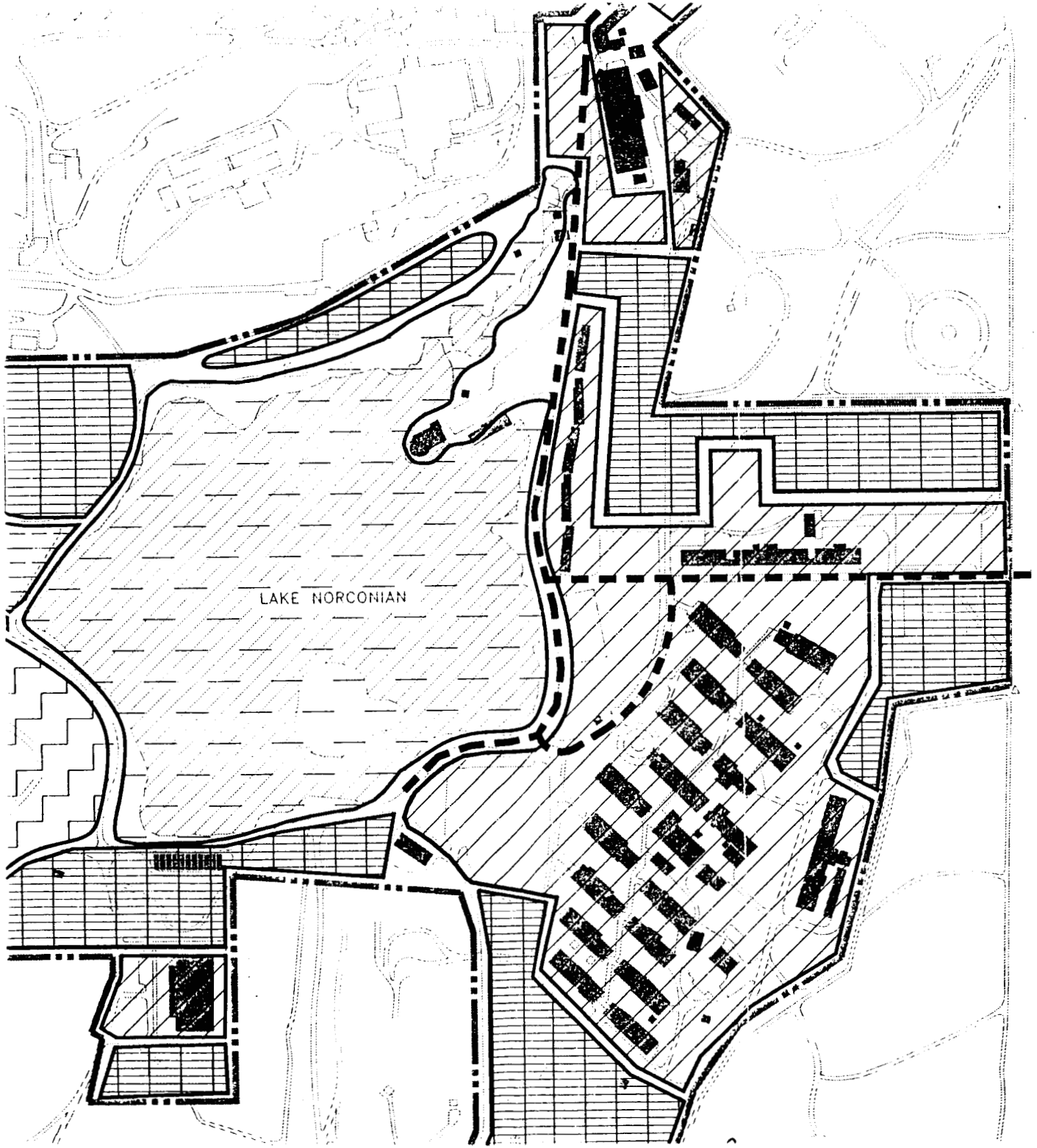
b. Are there any constraints such as parking, utilities, legal restrictions that limit the potential for using Undeveloped land for expansion?

In general, the Corona site provides a unique opportunity to provide an extremely handsome professional working environment to the research and analysis functions performed. Considerable opportunities exist for expanding the use of the site both within the inner-compound as in-fill development and unconstrained potential development sites as shown on attached Land Use Development Map.

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

Significant opportunities exist for the expansion of satellite and communications facilities including antennas north of buildings 501, 502, 503, and 504. There are no known HERP, HERF, AICUZ, etc. constraints within the Class 1 holdings at the Corona site.

OPPORTUNITIES/ CONSTRAINT



Unconstrained Development Areas

Major Development Infill Areas

Wetlands Constrained

Difficult Topography

Constrained Open Space-- Lake Norconian Drainage

Primary On-site Circulation System

Existing Boundary

CORONA SITE MAP

Class 1 Resources of NWAD (UIC: 64267)
Site Location: CORONA Table 4.1

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	4.0	3.0	0	1.0
Operational	4.0	2.0	0	2.0
Training	1.0	0.5	0	0.5
R & D	156.0	68.5	48.5	39.0
Supply & Storage	3.0	2.0	0	1.0
Admin	3.0	1.0	0	2.0
Housing	0	0	0	0
Recreational	64.0	60.0	0	4.0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	15.0	0	15.0	0
Total:	250.0	137.0	63.5	49.5

d. Of the total Unrestricted Acres reported above, how much of it has existing roads and/or utilities that could support expansion efforts? 23.17 Acres. Explain.

Of the 49.5 unrestricted acres of expandable Class 1 space 23.17 acres are located in and around the primary developed areas of the site. Existing transportation, utility, and parking systems can accommodate expansion.

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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.

The On Base Capacity for electrical supply includes an alternate 15KV feeder that has been programmed for FY95. The project number is 91C4153, Repair Electrical Distribution System, Corona; $450,000.00; estimated construction start date is 1st quarter FY95.

Table 5.1 Base Infrastructure Capacity & Load

	On Base Capacity	Off base long term contract	Normal Steady State Load	Peak Demand
Electrical Supply (KWH)	216,154	N/A	37,316	47,136
Natural Gas (CFH)	6125	N/A	2140	2450
Sewage (GPD)	61,750	N/A	21,600	24,700
Potable Water (GPD)	250,000	N/A	60,000	70,000
Steam (PSI & lbm/Hr)	N/A	N/A	N/A	N/A
Long Term Parking	25	N/A	21	25
Short Term Parking	1825	N/A	760	925

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:

This data only includes the Naval Warfare Assessment Division portion of the Maintenance of Real Property (MRP). Prior to FY91 this Command was apart of the Naval

Weapons Station, Seal Beach and shared a NIF charter. The data shown for FY93 and beyond reflects the entire Corona site.

The Current Plant Value (CPV) reflects the entire Naval Warfare Assessment Division, Corona site fiscal year shown.

The Acquisition Cost of Equipment (ACE) for the fiscal years between 1985 and 1990 is not available as records were combined with Naval Weapons Station, Seal Beach prior to NWAD becoming a seperate command in FY91.

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 NWAD_____ (UIC: 64267)

Fiscal Year	MRP ($M)	CPV ($M)	ACE ($M)
1985	1.1	60.7	*
1986	1.1	62.1	*
1987	1.1	62.6	*
1988	0.7	65.8	*
1989	1.8	66.9	*
1990	2.1	72.0	*
1991	1.7	73.8	80.4
1992	1.7	75.0	83.4
1993	2.1	78.6	86.3
1994	2.3	80.6	85.7
1995	2.5	82.9	89.9
1996	2.4	85.3	94.1
1997	2.7	87.9	98.7

* See explaination above.

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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.

(1) This training is a formal programmed course taught by the Naval Warfare Assessment Division at the Corona site and other geographical sites throughout the United States as a consortium member of the Defense Acquisition University (DAU). NWAD is currently involved in teaching/ developing 8 mandatory courses for the DAU. These courses range in length from one to four weeks with 30 students per class. Student allocation for these courses is accomplished by the individual Service Defense Acquisition Career Manager (Army, Navy, Air Force, & DLA.)

Type of Training Facility/CCN	School	Type of Training	FY 1993 Requirements			FY 2001 Requirements		
			A	B	C	A	B	C
171-10	NWAD*	DAWIA**	2.5K	80	200 K	8K	80	640 K

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

* Naval Warfare Assessment Division (QA 20) is consortium member of the Defense Acquisition University
** Defense Acquisition Workforce Improvement Act

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

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

Type Training Facility/CCN	Total Number	Design Capacity (PN)[1]	Capacity (Student HRS/YR)
171-10	6	150	301,200
171-10	1	115	230,900
171-25	1	265	536,400

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

DAYS= 365 - 105 (WEEKENDS) - 10-(FEDERAL HOLIDAYS) = 251
HOURS = 8 HOURS/DAY
SEATS = NUMBER OF SEATS AVAILABLE PEP CLASSROOM (DESIGN CAPACITY)

[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.

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

The Naval Warfare Assessment Center does not have any Ship Berthing Capacity within it's Command.

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

The Naval Warfare Assessment Division does not have any Operational Airfield Capacity within it's Command.

8. Depot Level Maintenance Capacity. Fill out the data sheets provided at TAB C if you or your subordinate activities perform depot level maintenance on a piece of equipment or system.

8.1 SPECIAL INTEREST ITEM: Special Interest items are special Interface Gages. A special interface gage is a device that is used to verify the interchangeability/interface control of components/parts/subassemblies from Navy Weapons made by various manufactures. Special interface gages are also used as an assurance device to provide data on gunfire control equations, and also to ensure weapon system components are within wear limits. NWAD's unique Gage Engineering Laboratory has been chartered for 35 years to perform this function for the Navy. This includes physical interface control analysis, gage design, and gage certification. Gage certification is what is listed in tab C, under "Special Interest Item." Certification is the measurement process that is performed periodically to assure that a gage will continue to operate within its performance specifications over its usage period.

8.2 CALIBRATION: Calibration is the process of comparing a device of lesser accuracy to a device of greater accuracy, to determine any deviation from specifications and to correct any deficiencies. NWAD operates NAVSGA's only Type II standard laboratory. NWAD's laboratory calibrate standards primarily from other West Coast shipboard and shore fleet and depot laboratories. This is the workload listed in Tab C.

8.3 GROUND, GENERAL PURPOSE ITEMS: NWAD is responsible for three groups that design, implement, and maintain hardware/software systems for telemetry design, Weapons Impact Scoring System (WISS), and telecommunications.

8.3.1 TELEMETRY ENGINEERING: NWAD is the Depot Level Repair Facility for Navy Tactical Training Range Telemetry Station Development as designated by NAVAIR PMA248 in NAVAIR TR-ILSP-326, change 2, dated 1 June 1993. The ILSP specifies that operational and intermediate level maintenance will be accomplished at the telemetry field station and that operational level will be performed by NWAD. When equipment fails at a telemetry

field station, the engineers/technicians at the field site fix the equipment if feasible. If they are unable to repair the equipment it is sent to NWAD where the system is given to a local technician that repairs (depot level) the equipment. In some cases, the equipment requires highly customized test equipment or modules.

8.3.2 WISS: Twenty six WISS systems are located at the following DOD training ranges:

NAS Cecil Field, Astor Detachment, FL
NWSTF Boardman, OR
MCB Camp Pendleton, CA
MCAS Cherry Point, NC
NAS Oceana, VA
NAF El Centro, CA
NAS Fallon, NV
NAS North Island, CA (San Clemente Island)
NAS Sigonella, IT
ANG Townsend, GA*
MCAGCC Twenty nine Palms, CA
MCAS Yuma, AZ
AFWTF Vieques, PR
NAS Whidbey Island, WA

* Limited support for Air National Guard WISS operational maintenance is performed by government or contract technicians at each range facility.

8.3.3 TELECOMMUNICATIONS: Although the telecommunications group has systems installed at many DOD facilities, they are not responsible for any level of maintenance for these systems. Although depot level maintenance is not currently performed, laboratory space and personnel are available to implement depot level maintenance, if required.

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.

The Naval Warfare Assessment Division data input is at Table 1.5 - Related Ordnance Support.

TAB A

SHIP BERTHING CAPACITY

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

*** The Naval Warfare Assessment Division does not have any Ship Berthing Capacity within it's Command**

SHIP BERTHING CAPACITY

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

Table 11.1

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

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

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

Table 12.1

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

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

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

Table 13.1

Pier/Wharf	Typical Steady State Loading[1]	Ship Berthing Capacity	Ordnance Handling Pier Capacity[2]	IMA Maintenance Pier Capacity[3]

[1] Typical pier loading by ship class with current facility ship loading.
[2] List the maximum number of ships that can be moored to conduct ordnance handling evolutions at each pier/berth without berth shifts. Consider safety, ESQD and access limitations.
[3] List the maximum number of ships that can be serviced in maintenance availabilities at each pier without berth shifts because of crane, laydown or access limitations.

4. [14.] For each pier/wharf listed above, based on Presidential Budget 1995 budgeted infrastructure improvements in the Presidential Budget 1995 through FY 1997 and the BRAC-91 and BRAC-93 realignments, state the expected normal loading, the maximum capacity for berthing, maximum capacity for weapons handling evolutions, and maximum capacity to conduct intermediate maintenance.

Table 14.1

Pier/ Wharf	Typical Steady State Loading[1]	Ship Berthing Capacity	Ordnance Handling Pier Capacity[2]	IMA Maintenance Pier Capacity[3]

[1] Typical pier loading by ship class with current facility ship loading.
[2] List the maximum number of ships that can be moored to conduct ordnance handling evolutions at each pier/berth without berth shifts. Consider safety, ESQD and access limitations.
[3] List the maximum number of ships that can be serviced in maintenance availabilities at each pier without berth shifts because of crane, laydown, or access limitations.

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5. [15.a.] How much pier space is required to berth and support ancillary craft (tugs, barges, floating cranes, etc.) currently at your facility? Indicate if certain piers are uniquely suited to support these craft.

6. [15.b.] What is the average pier loading in ships per day due to visiting ships at your base. Indicate if it varies significantly by season.

7. [15.c.] Given no funding or manning limits, what modifications or improvements would you make to the waterfront infrastructure to increase the cold iron ship berthing capacity of your installation? Provide a description , cost estimates, and additional capacity gained.

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

TAB B

OPERATIONAL AIRFIELD CAPACITY

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

*** The Naval Warfare Assessment Division does not have any Operational Airfield Capacity within it's Command**

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

Airfield Name _____

For each runway, give its designation, length, width, load capacity, lighting configurations, and arresting gear types. For each runway list any approach obstructions or any restrictions on flight patterns.

Runway	Length (ft)	Width (ft)	Max load	Lighting				Arresting Gear Type(s)
				F	P	C	N	

F -- Full lighting (runway edge, center, and threshold)
P -- Partial lighting (less than full)
C -- Carrier deck lighting simulated
N -- No lighting

2. [1b.] Provide the **composition** (concrete, asphalt) and **load bearing capacity** of your aprons, ramps and taxiway.

Apron/ramp/taxiway Location - ID	SF	Comp.	Load Bearing Capacity	Comments

3. [1c.] Do you have **high speed taxiways**? Discuss number and impact on airfield operations.

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

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

6. [1f.] For the main airfield and each auxiliary and outlying field, discuss any **runway design features** that are specific to particular types of aircraft (i.e., are the airfield facilities designated primarily fixed wing jet, prop, or helo aircraft?)

7. [2a.] List the **number of flight operations** (take-off, landing, or approach without landing) that the main airfield and all auxiliary fields can support on an hourly basis in both VMC and IMC. Comment on the factors at each field that limit this capacity (e.g., taxiway/runway limitations, airspace, ATC restrictions, environmental restrictions).

Airfield	# Flight Ops/Hr		Comments on Limiting Factors
	IMC	VMC	
Main			
Auxiliary _____			
Auxiliary _____			
Auxiliary _____			

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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								

9. [2c.] What percent of your flight operations are Fleet Carrier Landing Practices (FCLPs)?

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

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

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

13. [2f.] Describe the major **civilian air traffic structures** (routes, terminal control areas, approaches, etc.) discuss the present and likely future impact of each on air station operations.

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14. [2g.] Are there any **air traffic control constraints**/procedures that currently, or may in the future, limit air station operations? If yes, fully explain impact.

15. [4.] List all **NAVAIDS** with published approaches that support the main airfield and/or your auxiliary airfields. Note any additions/upgrades to be added between now and FY1997.

NAVAID	DESCRIPTION/LOCATION

16. [5a.] List all **active duty Navy/USMC squadrons/detachments** and the number of aircraft by type, model, and series (T/M/S), that will be permanently stationed/are scheduled to be stationed at this air station at the **end** of the indicated fiscal years.

Squadron/Det	# of Aircraft (PAA)	Aircraft (T/M/S)	FY 1994	FY 1995	FY 1997	FY 1999	FY 2001

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17. [5b.] Summarize average **visiting squadron/det loading** on air station operations(i.e. airwing/wing weapons deployment).

Squadron/Det Size (#A/C)	Apron Space Used	Hangar Space Assigned	Maintenance Support	Ave length of stay

18. [5c.] If a major percent of flight operations at your air station is from other than permanently stationed squadron/detachments, provide explanation.

19. [6a.] List all **reserve Navy/USMC squadrons/detachments** and the number of aircraft by type, model, and series (T/M/S), which will be stationed/are scheduled to be stationed at this air station at the **end** of the indicated fiscal years.

Squadron/Det	# of Aircraft (PAA)	Aircraft (T/M/S)	FY 1994	FY 1995	FY 1997	FY 1999	FY 2001

20. [7.] List all **Station aircraft** by number, type, model, and series (T/M/S), which will be parked or stationed/are scheduled to be stationed at this air station at the **end** of the indicated fiscal years.

Squadron/ Custodian	# of Aircraft (PAA)	Aircraft (T/M/S)	FY 1994	FY 1995	FY 1997	FY 1999	FY 2001

21. [8.] List all **DoD and non-DoD aircraft** not previously listed, by custodian, including number, type, model, and series (T/M/S) of aircraft, which will be parked or stationed/are scheduled to be stationed at this air station at the **end** of the indicated fiscal years.

Service/ Agency/ Custodian	# of Aircraft (PAA)	Aircraft (T/M/S)	FY 1994	FY 1995	FY 1997	FY 1999	FY 2001

22. [9a.] List other **operational command or support units** (ie. air wing staffs, MWSG, MWSS, MACG, MASS, etc.) stationed at this installation. For each Unit, give the unit identification number/UIC, mission, and facilities required (currently being used) to support the unit (i.e. equipment parking - 2500 SF; maintenance shop-200 SF; etc.).

Support Unit Identification/ UIC	Mission	Facilities Required	Equipment Laydown Requirement (covered/ uncovered in SF)

23. [9b.] Due to BRAC or other realignments, what increases/decreases in operational command or support units will occur at your installation. Provide expected gains/losses by year through 2001.

24. [10a.] List all **other USN/USNR, USMC/USMCR, and other DoD or non-DoD active and SELRES units** not listed previously, that are scheduled to be stationed at this air station at the **end** of the indicated fiscal years.

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

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

[1] include RON/domestic deployment training

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

Remarks:

[1] include RON/domestic deployment training

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

SUA	Location/ Distance	Types/Uses	Scheduling Authority (UIC)	Fiscal Year	Scheduled	Utilized[1]	Operating Limitations[2]
					# Hours	# Hours	
				1991			
				1992			
				1993			
				1991			
				1992			
				1993			
				1991			
				1992			
				1993			

[1] For the "Utilized" values, provide reasons for hours scheduled, but not utilized (e.g. 40% cancelled due to weather; 10% cancelled for unscheduled range maintenance, etc.).
[2] Provide any comments on operating limitations.

27. [12d.] Assuming that the flight training facility is **not constrained by operational funding** (personnel support, increased overhead costs, etc.), with the present equipment, physical plant, etc. , what **additional use of airspace assets** could be realized? Provide details and assumptions for all calculations.

28. [12h.] In the event that it became necessary to increase base loading at your installation, does the **airspace** overlying and adjacent to your installation have the **capacity** to assume an additional workload? Estimate the percentage of the possible increase. Provide the basis/calculations for these estimates.

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29. [17a.] Using the types (and mix) of aircraft currently stationed at your installation, project the additional number of these aircraft (maintain approximate current mix/ratio of A/C) that could be based and parked on your **current parking aprons.**
Provide two estimates:

1. Using NAVFAC P-80 standard measures
2. Using real world planning factors to accomodate a surge demand for space (maintaining safe operating procedures).

Aircraft Type	Current # of Aircraft Parked/Stationed	Maximum Additional Capacity (# of Aircraft)		Total	
		NAVFAC	Surge	NAVFAC	Surge

Provide the **details of your calculations**, including your assumptions on the minimum separation between aircraft, parking angle, folding of aircraft wings and any obstructions that may limit the placement of aircraft on the parking apron spaces. Indicate if taxiway aprons are used in the projection.

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

Hangar ID/#	Type I, II or (O)ther	Year Built	Hangar Deck Dimensions	Limiting Height	Current Usage	In SF			
						Adequate	Substandard	Inadequate	Total

In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified describe why the facility is inadequate; indicate how it is being used and list other possible uses; and specify the costs to remove the deficiencies that make it inadequate. Indicate current plans to remove these deficiencies and the amount of any programmed funds. Discuss any material conditions of substandard facilities which have resulted in a C3 or C4 designation on your BASEREP.

31. [18b.] For each **hangar** provide **space allocation** information listed in table below. Indicate if OPS/ADMIN space is in a non-contiguous building, Provide subtotal for each hangar.

Hangar #/ID/Type	SQD/Mod# Assignment [1]	Ops + Admin Spaces SF/ Module	Maint Shops SF/ Module (O Level)	Hangar Deck SF/Module	A/C Line parking spaces [2,3]		
					#/ Module	SF	Elec. Pwr.
TOTAL							

[1] Provide which SQD/Det was assigned to the specific module at receipt of this Data Call. (i.e., VFA-15, Hgr 1, Mod C)

[2] Dedicated aircraft parking spaces per Module and total square feet (SF) of A/C line parking spaces

[3] Are there A/C line parking spaces supported by permanently installed electric power? (Y/N)

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32. [18f.] List all **squadrons/detachments** normally homeported at this air station that were deployed and **not assigned** hangar/maintenance spaces at receipt of this data call.

Squadron/Detachment	#/Type Aircraft	Deployed Location

33. [18g.] List all **squadrons/detachments** normally homeported at this air station that were deployed and **were assigned** hangar/maintenance spaces at receipt of this data call.

Squadron/Detachment	#/Type Aircraft	Hanger Module Assignment

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34. [18h.] Using the types (and mix) of **aircraft** currently stationed at your installation, project the maximum additional number of these aircraft (maintain approximate current mix/ratio of A/C) that could be housed and maintained in **your current hangars**. Provide two estimates:

1. Using NAVFAC P-80 standard measures
2. Using real world planning factors to accomodate a surge demand for space (maintaining safe operating procedures).

Aircraft Type	Current # of Aircraft Parked/Stationed	Maximum Additional Capacity (# of Aircraft)		Total (Current + Additional)	
		NAVFAC	Surge	NAVFAC	Surge

Provide the **details of your calculations**, including your assumptions on the minimum separation between aircraft, folding of aircraft wings and any obstructions that may limit the placement of aircraft in the hangars.

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

CCN	Type of Facility	In SF				# of Units	Year Built
		Adequate	Substandard	Inadequate	Total		
211-01	Aircraft Acoustical Enclosure						
211-02	Nose Hangar						
211-03	Corrosion Control Hangar						
211-75	Parachute/Survival Equipment Shop						
211-81	Engine Test Cell						
211-88	Power Check Pad with Sound Suppression						
211-89	Power Check Pad without Sound Suppression						
211-96	Maintenance, Aircraft Spares Storage						
116-10	Airfield Washrack Pavement						
116-15	Aircraft Rinse Facility						
214-30	Refueling Vehicle Shop						
218-60	Aircraft Ground Support Equipment						
	Other						

In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified describe why the facility is inadequate; indicate how it is being used and list other possible uses; and specify the costs to remove the deficiencies that make it inadequate. Indicate current plans to remove these deficiencies and the amount of any programmed funds. Discuss any material conditions of substandard facilities which have resulted in a C3 or C4 designation on your BASEREP.

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

CCN	Facility Type	Unit of Measure	Adequate	Substandard	Inadequate	Total	Number of Units
111-20	Landing Pads	SF					
121-10	Direct Fueling	OL/GM					
124-30	Fuel Storage	GA					
421-xx	Ammunition Storage	CF/TONS					
425-xx	Open Ammunition Storage	SF					
113-20	Parking Aprons	SF					
113-40	Access Aprons	SF					
116-56	Combat Aircraft Ordnance Loading Area	SF					
	Other						

In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all the categories above where inadequate facilities are identified describe why the facility is inadequate; indicate how it is being used and list other possible uses; and specify the costs to remove the deficiencies that make it inadequate. Indicate current plans to remove these deficiencies and the amount of any programmed funds. Discuss any material conditions of substandard facilities which have resulted in a C3 or C4 designation on your BASEREP.

TAB C

DEPOT LEVEL MAINTENANCE CAPACITY

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
2. Aircraft Components
   - Dynamic Components
   - Aircraft Structures
   - Hydraulic/Pneumatic
   - Instruments
   - Landing Gear
   - Aviation Ordnance
   - Avionics/Electronics
   - APUs
   - Other
3. Engines (Gas Turbine)
   - Aircraft
   - Ship
   - Tank
   - Blades / Vanes (Type 2)
4. Missiles and Missile Components
   - Strategic
   - Tactical / MLRS
5. Amphibians
   - Vehicles
   - Components (less GTE)
6. Ground Combat Vehicles
   - Self-propelled
   - Tanks
   - Towed Combat Vehicles
   - Components (less GTE)
7. Ground and Shipboard Communications and Electronic Equipment
   - Radar
   - Radio Communications
   - Wire Communications
   - Electronic Warfare
   - Navigational Aids
   - Electro-Optics / Night Vision
   - Satellite Control / Space Sensors
8. Automotive / Construction Equipment
9. Tactical Vehicles
   - Tactical Automotive Vehicles
   - Components
10. Ground General Purpose Items
    - Ground Support Equipment (except aircraft)
    - Small Arms / Personal Weapons
    - Munitions / Ordnance
    - Ground Generators
    - Other
11. Sea Systems
    - Ships
    - Weapons Systems
12. Software
    - Tactical Systems
    - Support Equipment
13. Special Interest Items
    - Bearings Refurbishment
    - Calibration (Type I)
    - TMDE
14. Other

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

Notes:

1. "Production" equates to the number of items processed per Fiscal Year (FY), unless otherwise specified.

2. Base your responses for FY 1994 and previous years on executed workload, and for FY 1995 and subsequent years on workload as programmed. Unless otherwise specified, use workload mixes as programmed. In estimating projected workload capabilities, use the Activity's configuration as of completion of implementation of the BRAC-88/91/93 actions.

3. Use single shift operations (1-8-5) as the basis for your calculations. Report in specified units of throughput and Direct Labor Man Hours (DLMHs).

4. If any responses are classified, so annotate the applicable question and include those responses in a separate classified annex.

5. Capacity Index and Utilization Index will be calculated in accordance with the Defense Depot Maintenance Council approved update to Department of Defense Instruction (DoDInst) 4151.15H, "Depot Maintenance Capacity/Utilization Index Measurement."

6. The Major Owner/Operator questions will be answered by the Major Claimant/Systems Commander.

7. Utilize the tables provided to answer each question. Answer the questions for all of the commodity groups that are applicable to your activity. In the Aircraft Airframes and Engines (Gas Turbine) commodity groups break out the information by aircraft type, model, series or by engine type as applicable when filling out the tables.

PART I: MAINTENANCE & INDUSTRIAL ACTIVITIES

1. Historic and Predicted Workload

1.1 Given the current configuration and operation of your activity, provide the depot/industrial level maintenance by commodity group (from the List above) that was executed in and is programmed for the Fiscal Years (FY) requested in units throughput (Tables 1.1.a and 1.1.b) and in Direct Labor Man Hours (DLMHs) (Tables 1.1.c and 1.1.d). Add additional rows as required to report all commodity types serviced at this activity.

Table 1.1.a: **Historic and Predicted Depot/Industrial Workload**

Commodity Type	Throughput (Units)							
	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Special Interest Items	4331	4425	4476	4512	3418	3021	3888	2958
Calibration	4923	5095	4779	5832	4324	3770	4322	3936
Ground, Gen. Purp. Other (TM, Telecon)	100	107	107	108	109	109	109	109
Total:	9354	9627	9362	1142	7851	6900	8319	7003

Table 1.1.b: **Historic and Predicted Depot/Industrial Workload**

Commodity Type	Throughput (Units)							
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Special Interest Item	2677	2800	2942	2983	3690	3650	3590	3510
Calibration	4000	4000	4000	4000	4000	4000	4000	4000
Ground, Gen. Purp. Other (TM, Telcon)	109	109	109	110	110	115	115	115
Total:	6786	6909	7051	7093	7800	7765	7705	7625

Table 1.1.c: **Historic and Predicted Depot/Industrial Workload**

Commodity Type	Throughput (DLMHs)							
	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Special Interest Items	34461	35665	33453	40824	30268	26390	30254	27552
Calibration	42480	40710	40710	38940	38940	40710	40710	38940
Ground, Gen. Purp. Other (TM, Telecon)	808	884	876	872	884	888	891	889
Total:	77749	77259	75039	80636	70092	67988	71855	67381

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Table 1.1.d: **Historic and Predicted Depot/Industrial Workload**

Commodity Type	Throughput (DLMHs)							
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Special Interest Items	31000	31000	31000	31000	31000	31000	31000	31000
Calibration	28000	28000	28000	28000	28000	28000	28000	28000
Ground, Gen. Purp. Other (TM, Telecon)	886	882	882	885	885	885	885	885
Total:	59886	59882	59882	59885	59885	59885	59885	59885

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1.2 For each commodity type reported in Tables 1.1.a through 1.1.d, assume (a) the current projected total depot / industrial workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which depot / industrial maintenance operations could be expanded at this activity, based on the current and future planned workload mixes, for the requested period? Please provide your response in both the absolute maximum number of units and DLMHs that could be processed at this activity by applicable commodity group. Add additional rows as necessary to accommodate all commodity types serviced at this activity.

Table 1.2.a: **Maximum Potential Depot/Industrial Workload**

Commodity Type	Throughput (Units)						
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Special Interest Items	4512	4512	4512	4512	4512	4512	4512
Calibration	13900	13900	13900	13900	13900	13900	13900
Ground, Gen. Purp. Other (TM, Telecon)	200	200	200	200	200	200	200
Total:	18612	18612	18612	18612	18612	18612	18612

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Table 1.2.b: **Maximum Potential Depot/Industrial Workload**

Commodity Type	Throughput (DLMHs)							
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Special Interest Items	42480	42480	42480	42480	42480	42480	42480	42480
Calibration	97350	97350	97350	97350	97350	97350	97350	97350
Ground, Gen. Purp. Other (TM, Telecon)	1772	1764	1763	1769	1769	1769	1769	1769
Total:	141602	141594	141593	141599	141599	141599	141599	141599

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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.

The throughput (units) and the throughput (DLMHs) are currently limited to the number of qualified engineers and technicians on-board performing the special interface gage and calibration laboratory workload.

Its existing infrastructure can accomplish the peak throughput (units) as shown in Table 1.1a. Additional increased workload can be accomplished by upgrading selected machines.

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?

Given an environment unconstrained by funds, or manning the IPE that would be modified or procured is:

A. Modified Equipment:
   1. Coordinate measuring machine - add computer control
   2. Moore Measuring machine - add computer control
   3. Upgrade linear measuring machines

B. Purchase Equipment
   1. Ceramic gage blocks - additional
   2. RAM optical systems
   3. Imaging IR Radiometer
   4. Optic Power test station
   5. Lightwave multimeter
   6. Photometer
   7. YAG Laser
   8. Optical Reflectometer
   9. Chromatic Dispersion

Total cost: $905K

Payback period: Based on peak past throughput (units) and average future throughput (units) it is estimated an increase in production of 27% can be accomplished. In addition, in tanigle efficiencies can be achieved. the payback would be approximately 1.25 years.

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.)?

There are no limiting factors that inhibit the development of new workload.

2. Workload Summary

2.1 Enter the information from the Predicted and Potential Workload sections of the previous question into the table below and calculate the variance between projected and potential workloads. Again, clearly identify each commodity and include all commodities serviced at this activity.

Table 2.1.a: **PREDICTED WORKLOAD VARIANCE FOR FY 1995**

FY 1995 Commodity Type	Product (units)			DLMHs		
	Predicted Workload	Potential Workload	Variance	Predicted Workload	Potential Workload	Variance
Special Interest Items	2800	4512	1712	31000	42480	11480
Calibration	4000	13900	9900	28000	97350	69350
Ground, Gen. Purp. Other (TM, Telecon)	109	200	91	882	1764	882
Total	N / A	N / A	N / A	59882	141594	81712

[1] This workload is not duplicative of any previously reported workload. Detail all production categorized as "other".

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Table 2.1.b: **PREDICTED WORKLOAD VARIANCE FOR FY 1996**

FY 1996 Commodity Type	Product (units)			DLMHs		
	Predicted Workload	Potential Workload	Variance	Predicted Workload	Potential Workload	Variance
Special Interest	2942	4512	1570	31000	42480	11480
Calibration	4000	13900	9900	28000	97350	69350
Ground, Gen. Purp. Other (TM, Telecon)	109	200	91	882	1763	881
Total	N / A	N / A	N / A	59882	141593	81711

[1] This workload is not duplicative of any previously reported workload. Detail all production categorized as "other".

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Table 2.1.c: **PREDICTED WORKLOAD VARIANCE FOR FY 1997**

FY 1997 Commodity Type	Product (units)			DLMHs		
	Predicted Workload	Potential Workload	Variance	Predicted Workload	Potential Workload	Variance
Special Interest	2983	4512	1529	31000	42480	11480
Calibration	4000	13900	9900	28000	97350	69350
Ground, Gen. Purp. Other (TM, Telecon)	100	200	100	885	1769	884
Total	N / A	N / A	N / A	59885	141599	81714

[1] This workload is not duplicative of any previously reported workload. Detail all production categorized as "other".

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Table 2.1.d: **PREDICTED WORKLOAD VARIANCE FOR FY 1998**

FY 1998 Commodity Type	Product (units)			DLMHs		
	Predicted Workload	Potential Workload	Variance	Predicted Workload	Potential Workload	Variance
Special Interest	3690	4512	822	31000	42480	11480
Calibration	4000	13900	9900	28000	97350	69350
Ground, Gen. Purp. Other (TM, Telecon)	110	200	90	885	1769	884
Total	N / A	N / A	N / A	59885	141599	81714

[1] This workload is not duplicative of any previously reported workload. Detail all production categorized as "other".

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Table 2.1.e: **PREDICTED WORKLOAD VARIANCE FOR FY 1999**

FY 1999 Commodity Type	Product (units)			DLMHs		
	Predicted Workload	Potential Workload	Variance	Predicted Workload	Potential Workload	Variance
Special Interest	3650	4512	862	31000	42480	11480
Calibration	4000	13900	9900	28000	97350	69350
Ground, Gen. Purp. 0ther (TM, Telecon)	115	200	85	885	1769	884
Total	N / A	N / A	N / A	59885	141599	81714

[1] This workload is not duplicative of any previously reported workload. Detail all production categorized as "other".

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Table 2.1.f: **PREDICTED WORKLOAD VARIANCE FOR FY 2000**

FY 2000 Commodity Type	Product (units)			DLMHs		
	Predicted Workload	Potential Workload	Variance	Predicted Workload	Potential Workload	Variance
Special Interest	3590	4512	922	31000	42480	11480
Calibration	4000	13900	9900	28000	97350	69350
Ground, Gen., Purp. Other (TM, Telecon)	115	200	85	885	1769	884
Total	N / A	N / A	N / A	59885	141599	81714

[1] This workload is not duplicative of any previously reported workload. Detail all production categorized as "other".

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Table 2.1.g: **PREDICTED WORKLOAD VARIANCE FOR FY 2001**

FY 2001 Commodity Type	Product (units)			DLMHs		
	Predicted Workload	Potential Workload	Variance	Predicted Workload	Potential Workload	Variance
Special Interest	3510	4512	1002	31000	42480	11480
Calibration	4000	13900	9900	28000	97350	69350
Ground, Gen. Purp. Other (TM, Telecon)	115	200	85	885	1769	884
Total	N / A	N / A	N / A	59885	141599	81714

[1] This workload is not duplicative of any previously reported workload. Detail all production categorized as "other".

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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.

ALL RESPONSES TO TAB C PART II PROVIDED BY HEADQUARTERS, NAVAL ORDNANCE CENTER, INDIAN HEAD, MD.

2. Core Requirements

2.1 Given the current programmed configuration and operation for these activities, provide the projected Core Workload, Directed workload, Core "Plus" Workload, and Workload required to be retained to meet the Secretary of the Navy's Title 10 responsibilities. Within each Fiscal Year (FY) requested, provide your response in Units of throughput (where applicable) and Direct Labor Man Hours (DLMHs) for the categories in the following Tables. Core workload includes all Core work performed for other Military Departments (please specify such work within each commodity category).

- Core workload calculations are to be performed in accordance with the Office of the Under Secretary of Defense (Logistics) (OUSD(L)) Memorandum dated 15 November 1993 (subject: "Policy for Maintaining Core Depot Maintenance Capability").

- Directed workload includes: Foreign Military Sales (FMS); Low Quantity Non-Core; Low Quantity Above Core; Best Value; Engineering Support; and Last Source of Repair. Directed workload is tabulated in Section 2.2, following.

- Core-Plus workload is the sum of Core workload and Directed workload.

- Title 10 workload is that portion of Core workload that must be retained within the Department of the Navy in order to meet the Secretary of the Navy's Title 10 responsibilities.

Table 2.1.a: **Workload Requirements FY 1993**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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.

- Foreign Military Sales (FMS) include airframe, engine and component maintenance and manufacturing support.

- Modifications (Mods) include *only those modifications* performed concurrently with scheduled depot level work packages constituting Core workload.

- Low Quantity Non-Core (LQNC) is that Non-Core workload with insufficient programmed quantity for competition. This category also includes above threshold Core workload for weapons systems which have a total projected workload greater than the computed core quantity (above core workload).

- Best Value (BV) includes items that have been offered for maintenance under competitive rules and no offerer has provided a bid that is equal to or better than the value provided by a current organic source.

- Engineering Support (Engr) consists of Engineering Support to field, modify, operate, and maintain aviation weapon systems (i.e. RCM analysis, defining maintenance intervals, developing maintenance concepts, modification management, industrial support, investigations, bulletins and flight safety, and environmental issues).

- Last Source of Repair (LSOR) comprises Non-Core workload which has been offered for maintenance under competitive rules and no offerer has provided a bid, and for which a workload requirement exists and the organic depot is the only remaining source of repair.

Table 2.2.a: **Directed Workloads - FY 1993**

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

TAB C - PART II
Page ___ of __
UIC: _____

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

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**

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**

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**

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**

FY 1993 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**

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**

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**

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.

TAB D

ORDNANCE STORAGE CAPACITY

The Naval Warfare Assessment Division does not have any Ordanance Storage Capacity. Data input is a Table 1.5 - Related Ordnance Support.

ORDNANCE STORAGE CAPACITY

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

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

1. Ordnance Stowage and Support

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

Table 1.1: **Total Facility Ordnance Stowage Summary**

Facility Number	PRESENT INVENTORY		PREDICTED INVENTORY FY 2001		MAXIMUM RATED CAPABILITY	
	TONS	SQ FT	TONS	SQ FT	TONS	SQ FT
TOTAL						

TAB D
Page ____ of ____
UIC: 64267

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

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

Table 1.2: **Total Facility Ordnance Stowage Summary**

Facility Number/Type	Currently Stowed Commodity Type(s)	Reason for Stowage at your Activity	Commodity Type(s) Which Can Be Stowed

Additional comments:

TAB D
Page ___ of ___
UIC: 64267

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

Table 1.3: **Facility Rated Status**

Facility Number / Type	Hazard Rating (1.1-1.4)	Rated NEW	ESQD Arc		
			Established (Y / N)	Waiver (Y / N)	Waiver Expiration Date

TAB D
Page ___ of ___
UIC: 64267

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.

The Naval Warfare Assessment Division provides Ordnance TEchnical Support for surface and air launched missiles at numberous Navy ordnance handling facilities. See Table 1.5-Related Ordnance Support.

The Naval Warfare Assessment Division does not have any Ordnance Storage Capacity within it's Command.

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)	N		
Testing	N		
Manufacturing	N		
Outload	N		
Technical Support	Y	Surface Launched/Air Msl	3867

TAB D
Page ___ of ___
UIC: 64267

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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

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

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

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

ACTIVITY COMMANDER

Edward G. Schwier
NAME (Please type or print)

Edward G. Schwier
Signature

Commanding Officer
Title

5 May 1994
Date

Naval Warfare Assessment Division
Activity

NWAD CORONA
DATA CALL #4

JL
SEA09K
5/13/94

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

NEXT ECHELON LEVEL (if applicable)

R. SUTTON, RADM, USN
NAME (Please type or print)

Signature

COMMANDER
Title

5/10/94
Date

NAVAL ORDNANCE CENTER
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

G. R. STERNER
NAME (Please type or print)

Signature

Commander
Title

5-13-94
Date

Naval Sea Systems Command
Activity

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

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

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

Signature

Acting
Title

19 May 1994
Date

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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

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

ACTIVITY COMMANDER

Edward G. Schwier
NAME (Please type or print)

Edward G. Schwier
Signature

Commanding Officer
Title

5 May 1994
Date

Naval Warfare Assessment Division
Activity

NWAD Corona - DC 4 Correction
UIC 64267

717

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

NEXT ECHELON LEVEL (if applicable)

R. SUTTON, RADM, USN
NAME (Please type or print)

Signature

COMMANDER
Title

18 JUL 94
Date

NAVAL ORDNANCE CENTER
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

NAME (Please type or print)

Signature

7-19-94
Date

Title Commander
Naval Sea Systems Command

Activity

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

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

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

Signature

8/9/94
Date

Title

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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

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

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

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

ACTIVITY COMMANDER

Edward G. Schwier
NAME (Please type or print)

Edward G. Schwier
Signature

Commanding Officer
Title

15 July 1994
Date

Naval Warfare Assessment Division
Activity

Data Call #4 Correction

REVISED PAGE

Corona - UIC: 64267

DATA CALL 1: GENERAL INSTALLATION INFORMATION

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

- Name

Official name	Naval Warfare Assessment Division, Corona, CA
Acronym(s) used in correspondence	NWADIV, CORONA NWAC, CORONA
Commonly accepted short title(s)	NWAD NWAC

- Complete Mailing Address — Naval Warfare Assessment Division, Post Office Box 5000, Corona, CA 91760-5000

- PLAD — NWADIV CORONA CA

- PRIMARY UIC: 64267 (Plant Account UIC for Plant Account Holders)

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

- ALL OTHER UIC: None _____ PURPOSE: _____

2. PLANT ACCOUNT HOLDER: • Yes X No _____ (check one) (R

Note: NWAD Plant Account Holder per NAVORDCEN ltr 11000 OPR N33 Ser N3/0029 dtd 25 Apr 94.

REVISED PAGE

Corona - UIC: 64267

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 __X__ No _____ (check one) (R

• 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 __X__ (check one) (R

• Primary Host (current) UIC: _____

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

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

Note: NWAD Corona is no longer an annex of NWS Seal Beach (OPNAVNOTE 5450 of 14 Oct 93). Plant Account records will be adjusted to make NWAD a host (NAVORDCEN ltr 11000 OPR N33 Ser N3/0029 dtd 25 APR 94).

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

• Yes _____ No __X__ (check one)

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

Name	Location	UIC
NWAD, Gage Lab	Pomona, CA	43438

(Lab and storage space utilizaed at NIROP (GO-CO) Pomona)

UIC 64267

JL
SEA 09X
2/14/94

DATA CALL 1: GENERAL INSTALLATION INFORMATION

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

- Name

Official name	*Naval Warfare Assessment Division*
Acronym(s) used in correspondence	*NWAD, Corona* *NWAC, Corona*
Commonly accepted short title(s)	*NWAD* *NWAC*

- Complete Mailing Address

Naval Warfare Assessment Division
Post Office Box 5000
Corona, California 91718-5000

- PLAD NWADIV CORONA CA

- PRIMARY UIC: 64267 (Plant Account UIC for Plant Account Holders)

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

- ALL OTHER UIC(s): None PURPOSE:

_ _____ _____

_____ _____

2. PLANT ACCOUNT HOLDER:

- Yes ____ No X____ (check one)

Activity: 64267

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

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

• Yes ____ No X___ (check one)

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

• Yes X____ No ____ (check one)
• Primary Host (current) UIC: 60701
• Primary Host (as of 01 Oct 1995) UIC: 64267
• Primary Host (as of 01 Oct 2001) UIC: 64267

- Corona is no longer an annex of Seal Beach (OPNAVNOTE 5450 of 14 Oct 93). Plant account records will be adjusted to make them their own host.

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

• Yes _____ No X___ (check one)

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

Name	Location	UIC
NWAD, Gage Lab	Pomona, CA	43438

(Lab and storage space utilized at NIROP (Go-Co) Pomona)

Activity: 64267

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

Name	UIC	Location	Host name	Host UIC
NWAD Field Office		Oceana, VA.	NAS, Oceana	60191
NWAD Field Office		Fallon, NV.	NAS, Fallon	60495
NWAD Field Office		Yuma, AZ.	MCAS, Yuma	62974
NWAD Field Office		Cherry Point, NC.	MCAS, Cherry Pt.	00146
NWAD Field Office		Beaufort, SC.	MCAS, Beaufort	60169
NWAD Field Office		Key West Air Field	NAS, Key West	00213
NWAD Field Office		Miramar, CA.	NAS, Miramar	60259
NWAD Field Office		El Centro, CA.	NAS, El Centro	60042
NWAD Field Office		Cecil Field Astor, FL.	NAS, Cecil Field	30504
NWAD Field Office		Puerto Rico	NS, Roosevelt Roads	00389
NWAD Field Office		Crete	Naval Support Activity, Crete	66691
NWAD Field Office		Norfolk, VA.	NS, Norfolk	62688
NWAD Field Office		Moorestown, NJ.	AEGIS, COMBATSYSC	43980
NWAD Field Office		Office of the Assistant Secretary of the Navy	RD&A, Product Integrety	48142
NWAD Field Office		Tustin, CA.	MCAS, El Toro	60050

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.

BRAC 93 - With closure of MCAS, El Toro NWAD Field Office will close

- With closure of NAS Cecil Field NWAD Field Office will close

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).

Activity: 64267

Current Missions

- WEAPONS AND COMBAT SYSTEMS PERFORMANCE ASSESSMENT
  - Test & Instrumentation Planning
  - On-Site Engineering Analysis
  - Missile Flight Analysis
  - AEGIS Weapon System Analysis
  - Trends & Failure Patterns
  - Tomahawk SEARA Support

- FLEET EXERCISE ASSESSMENT
  - Training Exercise Data Requirements
  - Data Collection and Processing
  - Exercise Reconstruction & Analysis
  - Performance Assessment & Debrief

- TACTICAL TRAINING RANGE ENGINEERING
  - Range Systems Engineering
  - TACTS/EW Field Engineering

- QUALITY ENGINEERING AND ASSESSMENT
  - Quality Management & Engineering Assessment
  - Government Industry Data Exchange Program (GIDEP)
  - Defense Acquisition University Training

- RELIABILITY, MAINTAINABILITY & AVAILABILITY ASSESSMENT
  - Assess Life Cycle RMA&Quality Assurance of Weapons & Combat Systems
  - Perform Engineering Analysis of Data
  - Identify Availability Drivers and Troubled Systems
  - Analyze Maintenance and Logistics Data to Improve Performance

- TEST SYSTEMS ASSESSMENT
  - Certification of Contractor & Depot Weapons Automated Test Systems
  - Evaluation of Weapons Test Requirements & Depot Weapons ATE
  - ATE Reliability Assessment, Integrated Diagnostics & Design for Test
  - Isolate Test Deficiencies & Determine Corrective Action

- METROLOGY SYSTEMS ENGINEERING
  - Navy Calibration Procedures Development and Publication
  - Fleet Calibration Readiness Assessment
  - Calibration Requirements Analysis & Planning for Test Systems
  - Develop, Test, Evaluate, Calibrate & Specify Navy Calibration Standards
  - Joint Service Metrology Coordination & Navy Metrology R&D

- NAVY SPECIAL INTERFACE GAGING AND ANALYSIS
  - Evaluation of Weapon Section & Component Interface Compatibility
  - Develop, Design, & Certify Special Weapons Interface Gages

- INFORMATION SYSTEMS ENGINEERING
  - Engineering Analysis Systems
  - Telemetry & Telecommunications Engineering

Projected Missions for FY 2001

MAINTAIN CURRENT UNIQUE MISSIONS AND EXPAND MISSION AS FOLLOWS:

- WEAPONS AND COMBAT SYSTEMS PERFORMANCE ASSESSMENT
  - Theater Air Defense Assessment
  - Theater Ballistic Missile Defense Assessment
  - Ship Self-Defense Assessment
  - Cooperative Engagement Capability Assessment

- FLEET EXERCISE ASSESSMENT
  - Joint Service Battle/Warfare Exercise Assessment

- TACTICAL TRAINING RANGE ENGINEERING
  - Joint Service Logistics agent for TACTS/EW

- QUALITY ENGINEERING AND ASSESSMENT
  - Maintain & Teach Product Integrity Curriculum for DAU

- RM&A ASSESSMENT
  - Navy-wide Readiness Assessment Linking Operational & Budgetary Requirements

- METROLOGY SYSTEMS ENGINEERING
  - Navy's Technical Agent & Lead in DOD METCAL Program

Activity: 64267

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

THE NAVY'S INDEPENDENT ANALYSIS AGENT FOR:

- WEAPONS AND COMBAT SYSTEMS PERFORMANCE ASSESSMENT
  - Test & Instrumentation Planning
  - On-Site Engineering Analysis
  - Missile Flight Analysis
  - AEGIS Weapon System Analysis
  - Trends & Failure Patterns
  - Tomahawk SEARA Support

- FLEET EXERCISE ASSESSMENT
  - Training Exercise Data Requirements
  - Data Collection and Processing
  - Exercise Reconstruction & Analysis
  - Performance Assessment & Debrief

- QUALITY ENGINEERING AND ASSESSMENT
  - Quality Management & Engineering Assessment
  - Government Industry Data Exchange Program (GIDEP)

- RM&A ASSESSMENT
  - Assess Life Cycle RMA&Q of Weapons & Combat Systems
  - Perform Engineering Analysis of Data
  - Identify Availability Drivers and Troubled Systems
  - Analyze Maintenance and Logistics Data to Improve Performance

- TEST SYSTEMS ASSESSMENT
  - Certification of Contractor & Depot Weapons Automated Test Systems
  - Evaluation of Weapons Test Requirements & Depot Weapons ATE
  - ATE Reliability Assessment, Integrated Diagnostics & Design for Test
  - Isolate Test Deficiencies & Determine Corrective Action

THE NAVY'S SOLE TECHNICAL AGENT FOR:

- TACTICAL TRAINING RANGE ENGINEERING
  - Range Systems Engineering
  - TACTS/EW Field Engineering

- METROLOGY SYSTEMS ENGINEERING
  - Navy Calibration Procedures Development and Publication
  - Fleet Calibration Readiness Assessment
  - Calibration Requirement Analysis & Planning for Test Systems
  - Develop, Test, Evaluate, Calibrate & Specify Navy Calibration Standards
  - Joint Service Metrology Coordination & Navy Metrology R&D

- NAVY SPECIAL INTERFACE GAGING AND ANALYSIS
  - Evaluation of Weapon Section & Component Interface Compatibility
  - Develop, Design, & Certify special Weapons Interface Gages

Projected Unique Missions for FY 2001

MAINTAIN CURRENT UNIQUE MISSIONS AND EXPAND MISSION AS FOLLOWS:

- WEAPONS AND COMBAT SYSTEMS PERFORMANCE ASSESSMENT
  - Theater Air Defense Assessment
  - Theater Ballistic Missile Defense Assessment
  - Ship Self-Defense Assessment
  - Cooperative Engagement Capability Assessment

- FLEET EXERCISE ASSESSMENT
  - Joint Service Battle/Warfare Exercise Assessment

- TACTICAL TRAINING RANGE ENGINEERING
  - Joint Service Logistics agent for TACTS/EW

- QUALITY ENGINEERING AND ASSESSMENT
  - Maintain & Teach Product Integrity Curriculum for DAU

- RM&A ASSESSMENT
  - Navy-wide Readiness Assessment Linking Operational & Budgetary Requirements

- METROLOGY SYSTEMS ENGINEERING
  - Navy's Technical Agent & Lead in DOD METCAL Program

Activity: 64267

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
Naval Ordnance Center	68968

• Funding Source	UIC
NASA, Headquarters	66682
NASA, Edwards AFB	66684
NASA, Jet Propulsion Lab	90542
DLA, Cameron Station	65386
Defense Printing Service Det 0	68347
CMDR in Chief, Atlantic Fleet	00060
CMDR in Chief, Pacific Fleet	00070
CMDR, Naval Air Force, ATL	57012
CMDR, Naval Air Force, PAC	57025
MC LOG Base, Barstow	62204
Marine Corps RD&A Command	67854
Blount Island Command	92502
Marine Expeditionary Brigade 1	67339
Marine Corps Systems Command	95450
NavAirSysCom	00019
Pacific Missile Test Center	63126

Activity: 64267

PM - NAVSEA (MCM and MSH Ship)	00024
Conventional Ammo Program, NWS Crane	48029
Aviation Depot, NAS Alameda	65885
Aviation Depot, MCAS Cherry Pt	65923
Aviation Depot, North Island	65888
Aviation Depot Operations Ctr	68520
ASN, Res, Devel & Acq	48142
Naval Air Technical Service FA	62767
Chief of Naval Education & Trng	68045
Naval Education & Trng Security	68870
Naval CMD Cntl & Ocean Survival	66001
Naval CMD Cntl & Ocean Survival	68944
ELODC	41756
Naval Intl Logistics Control Office	65916
Naval Sea Log Center Det Trng	31149
NAWC, WPNSDIV, China Lake	60530
NAWC, Aircraft Division, Indianapolis	00163
NAWC, Aircraft Division, Lakehurst	68335
NAWC, Aircraft Division, Patuxent River	00421
NSSC, Atlantic	65912
Naval Electronic Systems Security	62852

Activity: 64267

Naval Electronic Systems Eng Ctr	63274
Naval Sea Support Center, Pacific	65913
Naval Computer and Telecommunications, Wash. DC	00063
Naval Computer and Telecommunications, Pensacola FL	68142
Naval Facility, Whidbey Island	68844
Naval Security Group Headquarters	00069
Naval Security Group Activity	00849
NSWC, Carderock Div	00167
NSWC, Crane Div	00164
NWSC, Indian Head Div	00174
Naval Ordnance Station, Crane	00197
Naval Ship Systems Eng Sta. NS Philadelphia	65540
Costal Systems Station, Dahlgren	61331
NSWC, Port Hueneme Div	63394
NSWC, Dahlgren Div Det White Oak	60921
Naval Shipyard, Charleston	00191
Naval Shipyard, Long Beach	60258
Naval Shipyard, Mare Island	00221
Naval Shipyard, Norfolk	00181
Naval Shipyard, Pearl Harbor	00311

Activity: 64267

Naval Shipyard, Philadelphia	00151
Naval Shipyard, Puget Sound	00251
NUWC, Keyport	00253
NUWC, Div	66604
Chief of Naval Research	00014
Naval Weapons Station, Charleston	00193
Naval Weapons Station, Concord	60036
Naval Weapons Station Earle	60478
Naval Weapons Station, Yorktown	00109
Operational Test & Eval Force	57023
Pacific Missile Range Facility, HI	534A
Naval Ship Parts Control Center	00104
Space and Naval Warfare Sys Command, Wash. DC	00039
Naval Ship Repair Facility, Guam	62589
Naval Ship Repair Facility, Yokosuka	62758
Naval Supply Systems Command	00023
Surface Warfare Dev. NAVPHIBAS	53863
Strategic Weapons Facility, PA	63402
Strategic Weapons Facility, AT	68733

Activity: 64267

PEO Cruise Missile and Unmanned Aerial Vehicles	00032
PEO Surface Ship ASW Systems	48155
Strategic Systems Programs	00030

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	5	1	1026(incls 63 in dets)
• Reporting Reserves	0	0	
• Tenants (w/o reserves)	0	0	95
• Drilling Reserves	0	0	
• Tenants (Total)	0	0	95

Authorized Positions as of 30 September 1994

	Officers	Enlisted	Civilian
(Appropriated)			
• Reporting Command	3	1	1025(incls 63 in dets)
• Reporting Reserves	0	0	
• Tenants (w/o reserves)	0	0	95
• Drilling Reserves	0	0	
• Tenants (Total)	0	0	95

Activity: 64267

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

Title/Name	Office	Fax	Home
• CO			
Capt E.G. Schwier	(909)273-5123	(909)273-4205	(909)270-0289
• Duty Officer			
Desk Sergeant	(909)273-4330 [N/A]		[N/A]

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
NWSSB	60701	0	0	83
Naval Weapons Center, China Lake	62738	0	0	5
DPS Det, Point Mugu	66965	0	0	5
Branch Medical Clinic, NHLB	46360	0	0	1
NavFacEngCom, OICC	68711	0	0	1
SATO		0	0	0

• Tenants residing on main complex (homeported units.)

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

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

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

• Tenants (Other than those identified previously)

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

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

Activity name	Location	Support function (include mechanism such as ISSA, MOU, etc.)
Sea Cadets	*Corona, CA*	*Meeting spaces - MOU*
Boy Scouts	*Corona, CA*	*Camping space - MOU*

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.)

Activity: 64267

- 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.)

ALL DATA REQUESTED IN THIS SECTION (EXCEPT AICUZ MAP - NA) ARE ATTACHED.

UIC: 00396

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

NEXT ECHELON LEVEL (if applicable)

A. L. CHRISTOPHER
NAME (Please type or print)

Signature

Acting Commander
Title

1 Feb 94
Date

NAVORDCEN PACDIV
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)

R. SUTTON, RADM, USN
NAME (Please type or print)

Signature

COMMANDER
Title

4 FEB 94
Date

NAVAL ORDNANCE CENTER
Activity

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

MAJOR CLAIMANT LEVEL

G. R. STERNER
NAME (Please type or print)

Signature

Commander
Naval Sea Systems Command
Acting
Title

2/14/94
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

25 FEB 1994
Date

UIC N00396

JL
SEA09X
2/14/94

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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

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

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

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

ACTIVITY COMMANDER

CARY A. SIMON, LCDR, USN	Simon
NAME (Please type or print)	Signature
OFFICER IN CHARGE	28 Jan 94
Title	Date
NAVORDCEN PACDIV FALLBROOK DET	
Activity	

PROVIDED INPUT REGARDING CURRENT, CURRENT UNIQUE, PROJECTED, AND PROJECTED UNIQUE MISSION STATEMENTS FOR MARINE CORPS PROGRAMS AND ORDNANCE DEPARTMENT FUNCTIONS AT NAVORDCEN PACDIV FALLBROOK DETACHMENT.

UIC 64267

JL
SEA 09X
2/14/94

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

NEXT ECHELON LEVEL (if applicable)

R. SUTTON, RADM, USN
NAME (Please type or print)

Signature

COMMANDER
Title

4 FEB 94
Date

NAVAL ORDNANCE CENTER
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

G. R. STERNER
NAME (Please type or print)

Signature

Title Commander
Naval Systems Command

2/10/94
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

25 FEB 1994
Date

UIC 64267

JL
SEA 09X
2/14/94

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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

ACTIVITY COMMANDER

Edward G. Schwier
NAME (Please type or print)

Edward G. Schwier
Signature

Commanding Officer
Title

2 February 1994
Date

Naval Warfare Assessment Division
Activity

212

UIC 64267
NWAD Corona DC #1 - Resubmission and Corrections

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

NEXT ECHELON LEVEL (if applicable)

R. SUTTON, RADM, USN
NAME (Please type or print)

Signature

COMMANDER
Title

18 JUL 94
Date

NAVAL ORDNANCE CENTER
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

NAME (Please type or print)

Signature

7/19/94
Date

Title Commander
Naval Sea Systems Command

Activity

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

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

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

Signature

8/9/94
Date

Title

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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

ACTIVITY COMMANDER

Edward G. Schwier
NAME (Please type or print)

Edward G. Schwier
Signature

Commanding Officer
Title

13 July 1994
Date

Naval Warfare Assessment Division
Activity

Data Call #1 Resubmission and Correction.

DATA CALL 63
FAMILY HOUSING DATA

212

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

Installation Name:	NWAD CORONA
Unit Identification Code (UIC):	N64267
Major Claimant:	NAVSEA

Percentage of Military Families Living On-Base:	0
Number of Vacant Officer Housing Units:	0
Number of Vacant Enlisted Housing Units:	0
FY 1996 Family Housing Budget ($000):	0
Total Number of Officer Housing Units:	0
Total Number of Enlisted Housing Units:	0

Line 4, Percentage of Military Families Living on Base, is taken from DD Form 1377.
Lines 7-9, represents the activitys' "fair share" of the complex total of the family housing budget and inventory of officer and enlisted units. This data was provided by COMNAVFACENGCOM.

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

Enclosure (1)

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

MAJOR CLAIMANT LEVEL

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

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."

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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

LANTNAVFACENGCOM
Activity

J.B. Venable
Signature J.B. VENABLE
Acting

JUL 06 1994
Date

ENCLOSURE(2)

BRAC-95 CERTIFICATION

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

for Paulette C. Brown
Name (Please type or print)

for J. R. Grindstaff
Signature

Head, Operations & Projects Branch
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.

J. Richard Grindstaff
Name (Please type or print)

J. Richard Grindstaff
Signature

Head, Requirements & Acquisition Branch
Title

7-6-95
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 Grindstaff
Signature

Director
Title

7-6-94
Date

Housing Division
Division

Facilities Management
Department

LANTNAVFACENGCOM
Activity

MILITARY VALUE DATA CALL

Category	**Technical Center**
Technical Center Site	**NWAD**
Location/Address	**P.O. Box 5000 Corona, CA 91718-5000 (UIC 64267)**

Mission
1. Mission Statement 2
2. Joint Service Missions 3

Technical Functions
3. Technical Functions Resource Allocations 10

Manpower
4. Work Breakdown Structure 12
5. Technical Staff Qualifications 20

Facilities and Equipment
6. Special Facilities/Equipment Resources 43
7. General Facilities/Equipment Resources 45

Location
8. Geographic Location 49

Features and Capabilities
9. Computational Facilities 51
10. Mobilization Responsibility and Capability 59
11. Range Resources 62

Quality of Life
12. Military Housing 66
13. MWR Facilities 76
14. Base Family Support Facilities 79
15. Metropolitan Areas 81
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17. Off-base Housing Rental and Purchase 83
18. Sea Intensive Ratings 86
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20. Educational Opportunities 88
21. Employment Opportunities 116
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TAB A Technical Operations: Functional Support Area - Life Cycle Work Area Form A-1
TAB B Facilities and Equipment: Facilities/Equipment Capability Form B-1
TAB C Range Resources: Range Capability Form C-1

Appendix A Functional Support Areas - Life Cycle Work Areas List
Appendix B Definitions for Functional Support Areas - Life Cycle Work Areas

MILITARY VALUE MEASURES

MISSION

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

The Mission of the Command is to:

"Gauge the warfighting capacity of ships and aircraft, from unit to battle group level, by assessing the suitability of design, the performance of equipment and weapons, and the adequacy of training; and, perform other tasks as assigned by higher authority."

The mission of the Naval Warfare Assessment Center was approved by the Secretary of the Navy on 12 September 1990 and implemented by CNO through OPNAVNOTE 5450, of 14 September 1990. NAVSEAINST 5450.68 of 18 September 1992, in publishing the mission of NWAC, provided a description of assigned Navy-wide functions and tasks. The original mission was incorporated in OPNAVNOTE 5450, of 14 September 1993 and assigned to this Command as part of the establishment of the Naval Ordnance Center by NAVSEAINST 5450.72 of 6 December 1993.

The establishment of the organization as a separate Command satisfied an urgent need for an independent activity directed to the assessment of Navy systems during the acquisition process and their use in the fleet, and to provide undivided attention to Navy-wide, unbiased assessment and technical services related to the execution of the Command's mission. As an independent assessment activity, this organization provides focus for: consolidating the fragmented assessment efforts performed elsewhere; establishing or improving assessment efforts that had been neglected; and integrating the functions and resources to serve the Navy Fleet and shore communities in a more effective manner.

The organization's independent status is established primarily by a management reporting relationship that is separate from those of the material design, acquisition, in-service, and using organizations. This reporting relationship reduces conflicts-of-interest or bias and improves understanding and confidence so that managers may make informed and improved decisions.

The establishment of NWAD as a separate Command was with the concurrence of the DoD Inspector General's Office which conducted a detailed review of the matter in early 1990 (Report No. 90-058).

page_____of_____
UIC____64267____

The Naval Warfare Assessment Division executes its mission by:

- Providing impartial evaluations of the Fleet's warfighting capabilities. Operational performance, maintenance, and other data are collected, analyzed and incorporated with historical information to provide:

  ◊ Readiness, capability, and availability information to support Fleet operations and improvements in doctrine, tactics, and training; and

  ◊ Reliability, maintainability, and quality information to improve design, manufacturing and maintenance processes for weapons, systems, and equipment throughout the life-cycle.

- Providing specialized scientific, engineering, RDT&E, and related technical services and material to support the development, acquisition, operations, and logistics support of weapons, systems, and equipment, and the training of personnel.

This total life-cycle assessment approach is directed at providing thorough and objective support to the Navy to maintain its readiness and capability to defend the Nation's interests throughout the world.

2. Joint Service Missions. State the officially assigned mission of this activity and cite the reference document(s) that assigns the mission.

a. Joint Service Assignments

(1) <u>Defense Acquisition University (DAU)</u>

NWAD is assigned as an authorized DAU course offerer for the Defense Acquisition workforce for Quality Assurance, Systems Engineering Management, and System Acquisition Management courses. NWAD also is an authorized course developer, developing Test and Evaluation, and Systems Planning Research Development and Engineering courses. This entitles developing and providing acquisition training to Navy/Army/Air Force/Defense Logistics Agency students from Program Managers to Inspectors as assigned by the Defense Acquisition University in accordance with DOD Directive 5000.57 and 1993/1994 DAU Course Catalog.

(2) Joint Logistics Commanders, Joint Technical Coordinating Group

NWAD serves as the Navy representative on the Joint Technical Coordinating Group for Metrology and Calibration (JTCG-METCAL) Calibration Coordination Group (CCG). The group has been active since the mid-1960's to establish uniform Metrology and Calibration programs among the three services including: coordination of standards, procedures, and intervals; metrology research and development; and, measurement traceability to the National Institute of Standards and Technology (NIST). The mission is described in SECNAVINST 3960.6 and assigned to NWAD by NAVELEXINST 4355.2, Department of the Navy Metrology and Calibration Program, and NAVSEAINST 4734.1A, Metrology and Calibration Programs.

(3) Government Industry Data Exchange Program (GIDEP)

The Joint Logistics Commanders have chartered the Government Industry Data Exchange Program to provide engineering and test data to the military services and related industries for the support of government readiness, productivity, logistics effectiveness, and cost reduction. NWAD is assigned by ASN (RDA) to execute the JLC GIDEP Charter. This assignment has recently been expanded to include implementation at all Federal agencies for reporting nonconforming products and materials (OMB Policy letter No. 91-3).

(4) Subgroup of the Joint Ordnance Commanders Group (Quality Assurance Subgroup).

NWAD serves as the Navy voting member representative on the Quality Assurance Subgroup of the Joint Ordnance Commanders Group. The purpose of the subgroup is to establish and arbitrate policy for ordnance problems among the services. Many of the these problems are associated with component interchangeability and interface control among weapon systems that are comprised of subsections acquired from the three services. This group is chartered by "Joint Logistics Commanders, Joint Ordnance Commanders Group" dated 19 June 1985. The QA subgroup is chartered by "Handbook for JOCG Operations" dated 30 April 1992.

b. Joint Programs

NWAD supports the following joint programs via technical tasking from the program offices. Assignments of support include reliability, quality and production processes evaluation, and readiness assessment.

(1) **TOMAHAWK System Evaluation and Reliability Assessment (SEARA)**.

NWAD is tasked by PMA-280-93-19 Task 4 by PEO (Cruise Missile Project) to support TOMAHAWK SEARA. In that capacity, NWAD co-chairs the W80 Joint Test Working Group with SA-ALC/NWCP and DOE. This group reviews laboratory and operational flight test results, defines test policy, and identifies reliability and quality issues pertaining to the W80 nuclear warhead and nuclear weapon subsystem. The W80 is common to Navy and Air Force weapons. NWAD also participates in joint AF/DOE W80 Project officers Group meetings, chaired by W80 Lead Officer, to provided Navy perspective on Stockpile-to-Target sequence, use control, maintenance, logistics, and testing. TOMAHAWK Missile flight tests are conducted at Eglin AFB, Florida. We coordinate with AF personnel and use AF range equipment to gather missile performance data, particularly warhead telemetry.

(2) **Theater Air Defense**.

NWAD is tasked by PEO(TAD) via SEATASK to "Provide technical support to SM-2 BLK IIIA, SM-2 BLK IV and LEAP..." for the STANDARD Missile Program Office. Within this tasking, NWAD provides analysis of firing testdata, leads the post-firing briefs, writes and releases a 24-hour quick-look message, hosts post-firing analysis meetings, and writes 2-week and 30-day analysis reports, integrating analysis from the technical community. This tasking also requires NWAD to write several data management plans, host and chair all data management meetings, coordinate all data collection and distribution for FTV's 3 & 4 , and finally archive copies of all data products at NWAD.

(3) **Joint Service Air-to-Air Missiles**.

NWAD performs flight analysis per AIRTASK A4104101/054-8/4410000602 WUA 60701MSLMR-602 and AIRTASK A540-5401/008-6/4426B0001 WUA A5401E-01 of Navy Air-to-Air Missiles including AMRAAM, which is a lead Air Force development program. AMRAAM completed Navy OPEVAL last year; in September the first AMRAAM firings occurred in Fleet training exercises. NWAD coordinates with the Joint AMRAAM Program Office (Air-to-Air Joint Systems Program Office, Eglin AFB, Florida) regarding AMRAAM telemetry, analysis, and common performance database. Also, the Navy has recently expressed interest in adopting a program similar to the Air Force's Weapon System Evaluation Program (WSEP) to better plan and control training firings of SPARROW, PHOENIX, and SIDEWINDER Missiles. NWAD has been designated as lead analysis agency for the Navy WSEP and a primary goal of this program is to establish a common Air-to-Air Missile performance database.

(4) **Tactical Aircrew Combat Training System/Electronic Warfare (TACTS/EW).**

PMA 248 is responsible for acquisition of both Navy TACTS and Air Force Aircrew Combat Training System (ACTS) hardware contracting. As PMA-248's Deputy APML, this command supports Navy and Air Force acquisitions and coordinates with the overall configuration manager, NAWC Patuxent River, to ensure Navy logistics support and operations and maintenance services receives maximum benefit from commonality of hardware, software, configuration management, and logistics planning.

(5) **HARPOON Missile.**

HARPOON is a joint service weapon to the extent that the Air Force has a capability to launch HARPOON Missiles from B-52 aircraft. Although NWAD does not perform flight analysis in support of Air Force HAROON firing tests (only about one each year), NWAD has received tasking from OFFUTT AFT, NE, (via Military Interdepartmental Purchase Request) to train Air Force personnel from the 49th Test Squadron, Barksdale AFB, LA in HARPOON theory and techniques of missile telemetry analysis, and to collaborate on missile assessment.

(6) **Extremely High Frequency Satellite Program (NESP).**

The NESP is the Navy's designation for ship, shore, and submarine EHF SATCOM systems. The Air Force equivalent of NESP is the MILSTAR SATCOM platform system. SPAWAR PMW-156 is the code for both the Navy and Air Force insofar as technical and performance requirements for this class of communication systems. NESP systems will operate through either advanced FLTSAT of MILSTAR satellites. NWAD supports the NESP (TMWI156-3) under SATCOMTASK PMW 156-3-NWA-4-1 dated 4 Mar 94.

(7) **KG-40A.**

The KG-40A key generator is designed for use by the tri-services in secure transmissions and safe and arming applications. SPAWAR PD-51 has been assigned lead SYSCOM responsible for this equipment under the authority of the National Security Agency. NWAD performed work for PD 51 under INFOSECTASK document number N0003993 WXAD104 of 5 Jan 93.

(8) Joint Tactical Communications Programs, Advanced Narrowband Digital Voice Terminal (ANDVT).

The ANDVT/CV-3591 is the Navy's contribution to the Joint Tactical Communications Program (TRI-TAC) under OSD memorandum authority. The ANDVT can be used in aircraft, ships, or vehicles to transmit secure digital voice or data traffic over narrowband voice frequency channel. NWAD performed work for PD 51 on the program under INFOSECTASK document number N00039-93-WXDA104 dated 5 Jan 93. NSA has assigned the terminal configuration under it.

(9) Theater Ballistic Missile Defense Project.

NWAD is tasked by PMS 400B via SEATASK 225 197 to "Perform data analysis for all experiments, demonstrations, and data collection" efforts for the Theater Ballistic Missile Defense joint project within the AEGIS Program Office.

c. **Joint Exercises**

(1) Joint Air Defense Operations - Joint Engagement Zone (JADO-JEZ).

NWAD is tasked by OSD Authority MIPR DTAM 37006/47006 dated 9 Mar 94; MIPR No. FY 7621-94-90241 issued by the Joint Task Force (JTF) Joint Air Defense Operations - Joint Engagement Zone (JADO-JEZ), headquartered at Eglin AFG, to support their test operations and evaluations beginning in FY 94. The missions and tasks included supporting Field Test 2 at Nellis AFB (RED FLAG FACILITY), and the Near Land Test site which added an AEGIS Cruiser to the test operation. The support included providing the data processing system to consolidate data collected from Air Force Patriot Systems, Marine Corp Hawk Batteries, Navy Fighter Aircraft, Marine Corps Aircraft, Air Force fighters and the AWACS (E-3A), and other national assets. "Warfare Assessment Model" (WAM) provides the means to consolidate all track and contact data with C3I and weapons data into one data base. This system provides the reconstruction tools to access this database for the purpose of reconstructing the test, and analyzing correlated tracks, weapons pairing, and engagement actions. The Commanding Officer of JTF JADO-JEZ has announced his intention of debriefing OSD with this tool using its dynamic replay capabilities.

(2) Joint Training Exercises.

NWAD is tasked by CINCPAC via implementing instructions (USCINCPAC J533 memo dated 14 Jun 93) to support Joint Training exercises conducted by that command. The exercises include Command Post Exercises (CPX)

Tempo Brave, and deployed force exercise Tandem Thrust. This tasking included performing exercise observation, data collection, data management operations, data vault services, data processing, event reconstruction, and analysis team participation of top-level issues of interest to CINCPAC.

(3) NATO Multi-National Exercises.

NWAD has been tasked in prior FY's to support multi-national exercises for NATO. The tasking is provided by SACLANT as well as funding.

(1) Operational Readiness Assessment (ORA) Program.

NWAD is tasked by NAVSEA 91W to execute the Operational Readiness Assessment Program. CNO established this program by CNO letter Ser 953C2/C350297 of 5 May 82 with the intent of being able to quantify the effectiveness and performance of his battle groups and determine effectiveness trends. This effort was refocused by CNO letter Ser 731/OU649345 of 15 Aug 90, setting "the primary purpose of the ORA program to support the Fleet Commanders' in Chief, Numbered Fleet Commanders', and Battle Group/Battle Force Commanders' efforts to assess BG/BF training and readiness posture." As Battle forces expanded to include joint forces, so did the ORA program expand to support those joint forces. This tasking includes providing exercise scenario planning, exercise analysis objective setting, exercise data collection planning and execution, data transmission, data management, data reduction, reconstruction, analysis, and debriefing. The products include databases, charts, graphs, and dynamic replays. The Warfare areas supported include Anti-Air Warfare, Anti-Submarine Warfare, Anti-Surface Warfare (to include Maritime Interdiction Operations), Strike Warfare, Amphibious Warfare, Mine Warfare, Electronic Warfare, Command Control & Communications, and Space and Electronic Warfare. Operating forces include Navy participants (air, surface and subsurface), Marine Corps participants, and Air Force participants. Support is also provided for Special Operational Forces supporting Arms Coordination in a Littoral Warfare Environment.

(5) Test and Evaluation Range Internet System (TERIS). DOD Major Range and Test Facility Base Ranges (MRTFB) are operated by the Army, Air Force, and Navy to conduct a wide variety of test and evaluation of T&E missions. These missions include T&E tests on complex vehicles (aerospace, marine and terrestrial), weapon systems, subsystems, and components under development, test and evaluation missions. The growing importance of conducting joint exercises will require the capability to share resources and data between ranges. In addition to being joint, future interrange testing will involve simulations from one range fixed test facilities

from another and open air range capabilities from yet another. TERIS will provide secure, high speed digital communication between ranges for voice, telemetry, modes, TSPI, and other types of data. TERIS originated from OSD with program management (PM) provided by PM-instrumentation, targets, and threat simulators. NWAD employees are a part of the Test Integration Working Group (TIWG) tasked with design and planning for the TERIS network. The TIWG meeting of 16 March 1994 identified NWAD Corona as the Navy's Combat/Trainer Developer representative to facilitate the evolution of TERIS and consequent linking of test and training sites. NWAD Corona was also chosen to be a Phase II node in the TERIS program and is scheduled to be funded in FY 96 to perform installation and testing. (Reference memo Dept. of the Army, Simulation, Training and Instrumentation Command, AMSTI-SS, dated 24 Mar 94.)

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.

NWAD COMMENT:

NWAD maintains nine distinct engineering capabilities for the Navy in the execution of its mission. The nine engineering capabilities are:

1. **WEAPONS AND COMBAT SYSTEMS PERFORMANCE ASSESSMENT**
2. **FLEET EXERCISE ASSESSMENT**
3. **TACTICAL TRAINING RANGE ENGINEERING**
4. **QUALITY ENGINEERING**
5. **RM&A ASSESSMENT**
6. **TEST SYSTEMS AVAILABILITY ASSESSMENT**
7. **METROLOGY SYSTEMS ENGINEERING**
8. **WEAPONS TEST ENGINEERING**
9. **INFORMATION SYSTEMS ENGINEERING**

These engineering capabilities are located at NWAD because they are inherently governmental functions which require and share a distinct assessment engineering expertise and focus to be performed properly. Historically, omission

of the use of these capabilities have resulted in detrimental impacts on platforms/weapons and Fleet readiness when combined with other prime system acquisition or support functions. These capabilities are applied Navy-wide across numerous platforms, weapons/combat systems and programs in support of the full life cycle from R&D through acquisition, in-service, and retirement. Therefore, in complying with the call of this question, our nine capabilities which have 50-150 workyears funded each have resulted in over 300 commodity/life cycle intersections. Our comment and recommendation in NWAD letter Ser T/013 of 1 Apr 94 to BSAT concerning this data call applies.

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MANPOWER

4. Work Breakdown Structure:

a. Use Table 4.1 (below) to provide data on the general support functions at your activity. Report data as of 31 march 1994. If you are collocated with one of your subordinate base keeper command (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.

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

NWAD Comments:

1. **Table 4.1A reflects data for NWAD main site.**

2. **Table 4.2A reflects the total data for NWAD detachments and field offices.**

3. **Table 4.1B reflects data for:**
   (a) Other Navy organizations providing support to NWAD that are both on and off-site.
   (b) Other Navy organizations that are tenants at this site but are unrelated to the operations or support of NWAD.

Table 4.1A, General Support Resources for
(Activity:_____NWAD_____) (UIC:__64267_____)
NWAD ONLY

Function	Space allocated	Work Years	Civilian Persnel	Contract Work	Military Personnel Onboard	
					Off	Enl
ADMINISTRATION						
Command (CO/XO/TD/etc.)	14,796	27.2	25.0	.5	2.0	
Comptroller						
Admin	30,805	14.0	9.0	18.0		
Human Resources						
OPERATIONS SUPPORT						
Supply Management						
Consolidated Computational Computer Support	5,509	10.0	12.0	19.0		
Information Systems and Communications	8,003	9.0	10.0	6.0		
Safety/OSH/Environmental	503	1.0	1.0			
INFRASTRUCTURE						
Physical Security	6,436	20.2	11.0	15.0		

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Public Works/Staff Civil Engr	394	2.0	2.0	3.0		
Fire Protection	4,819	8.0	7.0			
Medical/Dental						
Military Support						
Air/Waterfront Operations						
Other	19,955					
TECHNICAL STAFF						
Technical Operations	315276	851.5	813	*507.9	3.0	1.0
Totals	406496	942.9	890	569.4*	5.0	1.0

***DOES NOT INCLUDE DIRECT CITE FUNDED CONTRACT WORKYEARS OF 93.7**

Table 4.2A, General Support Resources for all Detachments
(Activity:__NWAD_____) (UIC:__64267_____) **NWAD Field Offices**

Function	Space allocated	Work Years	Civilian Persnel	Contract Work	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						

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INFRASTRUCTURE						
Physical Security						
Public Works/Staff Civil Engr						
Fire Protection						
Medical/Dental						
Military Support						
Air/Waterfront Operations						
Other						
TECHNICAL STAFF						
Technical Operations		56.0	57.0	26.0*		
Totals		56.0	57.0	26.0*		

***DOES NOT INCLUDE DIRECT CITE FUNDED CONTRACTOR WORKYEARS OF 361.**

LOCATION	NAME	UIC	CIV
Oceana, VA	NAS, Oceana	60191	7
Fallon, NV	NAS, Fallon	60495	11
Yuma, AZ	MCAS, Yuma	62974	6
Cherry Point, NC	MCAS, Cherry Point	00146	6
Beaufort, SC	MCAS, Beaufort	60169	5
Key West Air Field	NAS, Key West	00213	1
Miramar, CA	NAS, Miramar	60259	1
El Centro, CA	NAS, El Centro	60042	1
Cecil Field	NAS, Cecil Field, Astor, FL	30504	1
Puerto Rico	NS, Roosevelt Roads	00389	10
Crete	Naval Support Activity, Crete	66691	1
Norfolk, VA	NS, Norfolk	62688	5

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Moorestown, NJ	AEGIS, COMBATSYSC	43980	1
Office of the Assistant Secretary of the Navy	RD&A, Product Integrity	48142	1

Table 4.3, Previous BRAC Impact to General Support Resources for (Activity:__NWAD_____) (UIC:___64267_____)

Function	Space allocated	Work Years	Civilian Persnel	Contract Work	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						

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Other						
TECHNICAL STAFF						
Technical Operations						
Totals	0	0	0	0	0	0

Table 4.1B, General Support Resources for
(Activity:_____NWAD_____) (UIC:__64267_____)
NWSSB/PACDIV Tenants

Function	Space allocat	Work Years	Civilian	Contract	Military Personnel Onboard	
					Off	Enl
ADMINISTRATION						
Command (CO/XO/TD/etc.)						
Comptroller*	0	13.5	0	5.5		
Admin						
Human Resources*	8,725	16.0	5.0			
OPERATIONS SUPPORT						
Supply Management*	24,343	22.1	11.0			
Consolidated Computational Computer Support*	0	17.0	0	5.0		
Information Systems and Communications*	2,968	3.0	3.0	2.0		
Safety/OSH/Environmental						
INFRASTRUCTURE						
Physical Security*	0	1.0	0			
Public Works/Staff Civil Engr	38,000	24.6	18.0	30.6		
Fire Protection						

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Medical/Dental**	606	N/A	1.0			
Military Support						
Air/Waterfront Operations						
Other**	3,826	5.0	6.0			
TECHNICAL STAFF						
Technical Operations***	34,433	N/A	7.0	N/A		
Totals	112901	102.2	51.0	43.1		

***NWSSB/NOCPAC ** Includes DPS, ROICC, NHLB. ***NAWC-WD, China Lake, Encounter Simulation Laboratory**

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5. Technical Staff Qualifications.

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

Table 5.1, Technical Staff Education Level for
(Activity:___NWAD_____) (UIC:___64267_____)

Highest	Years of Government and/or Military Service					
	Less than 3 Years	3-10 Years	11-15 Years	16-20 Years	More than 20 Years	Total
Grade School						
High School		59	44	22	46	171
B.A./B.S	33	268	94	33	83	511
M.A./M.S	3	42	26	14	37	122
Ph.D./ M.D.	0	2	4	2	1	9
Total	36	371	168	71	167	813

Table 5.2, Technical Staff Education Level for all Detachments
(Parent Activity:_____-_____) (UIC:_*VARIOUS - SEE ATTACHED SHEET)

Highest	Years of Government and/or Military Service					
	Less than 3 Years	3-10 Years	11-15 Years	16-20 Years	More than 20 Years	Total
Grade School						

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High School	1	5	5	1	1	13
B.A./B.S	1	11	10	8	8	38
M.A./M.S		1	1	2	2	6
Ph.D./ M.D.						
Total	2	17	16	11	11	57

*Host UIC	Detachment/Field Activity	Number of Personnel
62688	Norfolk, VA	5
43980	Moorestown, NJ	1
60191	Oceana, VA	7
66691	Chania, Crete, Greece	1
00389	Roosevelt Roads, Puerto Rico	10
48142	Arlington, VA	1
60169	Beaufort, SC	5
00213	Keywest, FL	1
30504	Cecil Field	1
60495	Fallon, NV	11
62974	Yuma, AZ	6
60259	Miramar, CA	1
60042	El Centro, CA	1
00146	Cherry Point, NC	1

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:_____NWAD_____) (UIC:___64267_____)

Academic field	Number

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Physics	9
Chemistry	0
Biology	0
Mathematics/Statistics/ Operations Research	19
Engineering	37
Medical	0
Dental	0
Computer Science	5
Social Science	4
Other Science	40
Non-Science	14
Total	128*

***NOTE: This number (128) differs from that shown on table 5.1 (131). The difference results from three people having less than 3 years of experience.**

Table 5.4, Technical Staff Academic Fields for all Detachments (Parent Activity:____NWAD_____) (UIC:__HOST ACTIVITY)**

Academic field	Number
Physics	
Chemistry	
Biology	
Mathematics/Statistics/ Operations Research	1
Engineering	3
Medical	

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Dental	
Computer Science	
Social Science	
Other Science	
Non-Science	2
Total	6

**NOTE:

UIC	FIELD SITE
60495 *	Fallon, NV = 1
00146 *	Cherry Point = 2
62688 *	Norfolk, VA = 1
60191 *	Crete, Greece = 1
00389 *	Puerto Rico = 1

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

NWAD's location outside the Los Angeles and Orange County areas makes it a highly desirable place of employment for engineers and scientists. NWAD is close to military activities for personnel leaving the service and close to many universities and colleges. Our location provides easy access to many major cities in the area which provide for a large variety of goods, services, and cultural activities. Recreation opportunities are also within easy reach with two nearby mountain ranges and skiing facilities; large expanses of desert parks; the Pacific Ocean; and numerous family-oriented entertainment parks.

The NWAD Corona 250-acre site in Norco, California is in a designated high-cost area with the associated interim 8 percent salary adjustment. However, being near the edge of the higher cost areas has allowed employees to purchase and rent very suitable housing within easy commuting distance and yet enjoy the many benefits of being near the Los Angeles and Orange County higher cost areas. This affordable, semi-rural location and the campus-like setting of the activity has provided us with the ability to recruit and retain an outstanding professional workforce.

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CLARIFICATION FOR NWADIV DATA CALL #5

A. Question 5d. Upon review and guidance provided from Ulrich's "International Periodicals Directory" for published, referred journals, the following published articles contained in NWADIV's response to question 5d would meet this screening criteria:

1. "AEGIS Performance Assessment Network"; poster paper presented at American Defense Preparedness Association Symposium, 25-28 Jan 94; authors S. R. Douglas, S. M. Lamoreaux, J. H. Sherer. Approved for publication to DoD and DoD contractors.

3. "Group Delay Equalization of Multi-Dimensional Recursive Filters"; published in Proceedings of SPIE Visual Communications and Image Processing Conference, Oct 90; author R. E. Ford.

4. "A Numerical Approach to the Synthesis of Recursive Phase Equalizers"; published in Proceedings of 1992 IEEE International Symposium on Circuits and Systems; author R. E. Ford.

5. "Phase Equalization of One and Two-Dimensional Recursive Filters"; published in IEEE Transactions on Signal Processing, Vol. 41, No. 11, Nov 93; author R. E. Ford.

9. "Control Processor for Multi-Interfaced ATE"; published in technical magazine INTEREX, as part of technical proceedings of the Midwest Electronics Expo, 1990; author W. B. Groseclose.

14. "Combatting Mistakes in Metrology Computations", National Conference of Standards Laboratories Proceedings, 1994; author J. Kerwin.

15. "Temperature Effects in the Uncertainty Analysis of the Comparison Calibration of Length", National Conference of Standards Laboratories Proceedings, Jul 94; author J. Kerwin.

16. "Technical Assessment: An Integrated Approach to the Evaluation of Test Systems", National Conference of Standards Laboratories Proceedings, 31 May-3 Jun 94; author B. Galloway.

17. "Computer Aided Test Software Evaluation", NAVSEA/NAVSUP International Logistics Symposium Proceedings, 31 May-2 Jun 94; author Z. Figuerres.

18. "Metrology Information & Documentation Automation System (MIDAS)", NAVSEA/NAVSUP International Logistics Symposium Proceedings, Jan 94; authors K. Keith and M. Ljungren.

Enclosure (1)

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.

1. "AEGIS Performance Assessment Network"; poster paper presented at American Defense Preparedness Association Symposium, 25-28 Jan 94; authors S. R. Douglas, S. M. Lamoreaux, J. H. Sherer. Approved for publication to DoD and DoD contractors.

2. "Design of Multi-Dimensional Recursive Phase Equalizers"; published in Proceedings of the Canadian Conference on Electrical and Computer Engineering, Sep 90; author R. E. Ford.

3. "Group Delay Equalization of Multi-Dimensional Recursive Filters"; published in Proceedings of SPIE Visual Communications and Image Processing Conference, Oct 90; author R. E. Ford.

4. "A Numerical Approach to the Synthesis of Recursive Phase Equalizers", published in Proceedings of 1992 IEEE International Symposium on Circuits and Systems; author R. E. Ford.

5. "Phase Equalization of One and Two-Dimensional Recursive Filters"; published in IEEE Transactions on Signal Processing, Vol. 41, No. 11, Nov 93; author R. E. Ford.

6. "Distributed Network Processing"; published at the 1990 University of Pittsburgh Modeling and Simulation Conference; co-author W. B. Groseclose.

7. Article in "Military & Aerospace Electronics" magazine was published in 1991 based on an interview with W. B. Groseclose, associated with his work with IEEE P1149.4 Testabilities Interface.

8. Editorial contribution as technical representative, to the Test Measurement System Language (TMSL) Industrial Consortium Standard and to the IEEE P1155, P1149.4, 1991 by W. B. Groseclose.

9. "Control Processor for Multi-Interfaced ATE", published in technical magazine INTEREX, as part of technical proceedings of the Midwest Electronics Expo, 1990; author W. B. Groseclose.

10. "Automated Test Equipment (ATE)" published in TC Interface magazine, 1991; author W. B. Groseclose.

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19. "Computer Aided Test Software Evaluation System",NAVSEA/NAVSUP International Logistics Symposium Proceedings, Jan 94; authors J. Fishell, A. Hovakemian, and Z. Figuerres.

20. "Technical Assessment: An Integrated Approach to the Evaluation of Test Systems", NAVSEA/NAVSUP International Logistics Symposium Proceedings, Jan 94; author B. Galloway.

21. "Position Measurement of Internal Threads", Measurement Science Conference Proceedings, Jan 94; author B. Armstrong

22. "Combined CDMA with TDMA Increase the Capacity of a Cellular Communication System", IEEE Pacific Rim Conference on Communication, Computers and Signal Processing Proceedings, May 93; author J. Payne.

23. "The Effects of Ambient Temperature Changes on Dimensional Calibrations", American Society of Naval Engineers Proceedings, May 93; author J. Kerwin.

24. "Building a Viable Test Equipment Support Program", NAVSEA/NAVSUP International Logistics Symposium Proceedings, Apr 93; author J. Walden.

25. "Equipment Inspection Schedules using Ageless Periodic Recall Modelling", WESCON/92 Proceedings, Mar 93; author J. Larsen.

26. "An Information Theoretic Approach to Selection of Test Stimuli", National Conference of Standards Laboratories Proceedings, Nov 92; author Duane Allen.

27. "An Assessment of an Ultrasonic Flowmeter in Ideal and Non-Ideal Installation Conditions", Measurement Science Conference Proceedings, Nov 92; author Gary Osborn

28. "Low Level Laser Peak Power Radiometer", Measurement Science Conference Proceedings, Oct 92; authors Jeffrey Walden and Daniel King

29. "Optical Time Domain Reflectometer Calibration: Passive Approach Versus Active Approach", International Symposium on Spectral Sensing Research Proceedings, Oct 92; author Lean Ta

30. "Self Calibrating Fiber Optic Sensors: Potential Design Methods", International Symposium on Spectral Sensing Research Proceedings, Oct 92; author Bill Hamann

33. "Interpretation of Measured Dimensions", Measurement Science Conference Proceedings, Jan 91; author Bruce Armstrong.

11. "Part II: Metrics, Measures of Effectiveness (MOE) Tables, Methods & Metrics for Program Success", Office of the Assistant Secretary of the Navy (RD&A) Product Integrity Directorate, Washington, DC, 1994; author V. Barnes.

12. "Bifurcation Properties of Hermite Functions" at the annual Graduate Student Association mini-conference at UCR, 16 Mar 94; author H. A. Watson.

13. "The source of DMS", published in TACHTech Briefs, Jan 93; author G. Carver.

14. "Combatting Mistakes in Metrology Computations", National Conference of Standards Laboratories Proceedings, 1994; author J. Kerwin.

15. "Temperature Effects in the Uncertainty Analysis of the Comparison Calibration of Length", National Conference of Standards Laboratories Proceedings, Jul 94; author J. Kerwin.

16. "Technical Assessment: An Integrated Approach to the Evaluation of Test Systems", National Conference of Standards Laboratories Proceedings, 31 May-3 Jun 94; author B. Galloway.

17. "Computer Aided Test Software Evaluation", NAVSEA/NAVSUP International Logistics Symposium Proceedings, 31 May-2 Jun 94; author Z. Figuerres.

18. "Metrology Information & Documentation Automation System (MIDAS)", NAVSEA/NAVSUP International Logistics Symposium Proceedings, Jan 94; authors K. Keith and M. Ljungren.

19. "Computer Aided Test Software Evaluation System",NAVSEA/NAVSUP International Logistics Symposium Proceedings, Jan 94; authors J. Fishell, A. Hovakemian, and Z. Figuerres.

20. "Technical Assessment: An Integrated Approach to the Evaluation of Test Systems", NAVSEA/NAVSUP International Logistics Symposium Proceedings, Jan 94; author B. Galloway.

21. "Position Measurement of Internal Threads", Measurement Science Conference Proceedings, Jan 94; author B. Armstrong

22. "Combined CDMA with TDMA Increase the Capacity of a Cellular

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34. "On the Calibration of a Dynamic Universal Fatigue Tester", National Conference of Standards Laboratories Proceedings, 1990; author Jim Kerwin.

35. "Nearly Isosceles Pythagorean Triplets", Journal of Recreational Mathematics, Vol. 22, No. 4, 1990; author Duane Allen.

36. "Functional Test: An Introduction", Proceedings of NEPCON East, Proceedings of Test Engineering Conference, Proceedings of ATE & Instrumentation Conference, Jul 90; author Duane Allen.

37. "Measuring Test Complexity", Proceedings of NEPCON West, Jan 90; author Duane Allen.

B. Question 5e. NWADIV's response to question 5e used a selection criteria for published texts that required (a) published one-time and updated infrequently; (b) contains technically substantive work; and (c) published work is used as a text or reference for a broad base of the technical community for which it serves. The clarification requested appears to address whether these technical books/chapters were privately published as opposed to published within the government. The breakout follows:

Privately published (e.g., McGraw-Hill, etc.): **None**

Government published: **All items listed under 5e (following:)**

1. "Range Scheduling System Users Manual (Versions I and II) and Technical Description"; author C. Ward.

2. "Inventory Control System Users Manual and Technical Description"; author C. Ward.

3 "The Log Periodic Loop Array (LPLA) Antenna", <u>THE ARRL ANTENNA COMPENDIUM</u>.

4. "MIL-STD-45662A, Calibration Systems Requirements", 1990; coauthor D. H. Caldwell.

5. "MIL-HDBK-52B, Calibration Systems Requirements", 1991; coauthor D. H. Caldwell.

6. Editorial contribution as technical representative, to the Test Measurement System Language (TMSL) Industrial Consortium Standard and to the IEEE P488.2, TC8 and P1174 Standards, 1990 by W. Groseclose.

7. Sections 5 and 6 of the Joint Services DOD Metrology RD&E Plan, 1991; author W. Groseclose.

Communication System", IEEE Pacific Rim Conference on Communication, Computers and Signal Processing Proceedings, May 93; author J. Payne.

23. "The Effects of Ambient Temperature Changes on Dimensional Calibrations", American Society of Naval Engineers Proceedings, May 93; author J. Kerwin.

24. "Building a Viable Test Equipment Support Program", NAVSEA/NAVSUP International Logistics Symposium Proceedings, Apr 93; author J. Walden.

25. "Equipment Inspection Schedules using Ageless Periodic Recall Modelling", WESCON/92 Proceedings, Mar 93; author J. Larsen.

26. "An Information Theoretic Approach to Selection of Test Stimuli", National Conference of Standards Laboratories Proceedings, Nov 92; author Duane Allen.

27. "An Assessment of an Ultrasonic Flowmeter in Ideal and Non-Ideal Installation Conditions", Measurement Science Conference Proceedings, Nov 92; author Gary Osborn

28. "Low Level Laser Peak Power Radiometer", Measurement Science Conference Proceedings, Oct 92; authors Jeffrey Walden and Daniel King

29. "Optical Time Domain Reflectometer Calibration: Passive Approach Versus Active Approach", International Symposium on Spectral Sensing Research Proceedings, Oct 92; author Lean Ta

30. "Self Calibrating Fiber Optic Sensors: Potential Design Methods", International Symposium on Spectral Sensing Research Proceedings, Oct 92; author Bill Hamann

31. "Using DIM To Set Test Limits", ATE Newsletter, Vol. 13, No. 2, Apr 91; author Duane Allen.

32. "Measuring Test Thoroughness", Design Automation, Vol. 1, No. 2, Feb 91; author Duane Allen.

33. "Interpretation of Measured Dimensions", Measurement Science Conference Proceedings, Jan 91; author Bruce Armstrong.

34. "On the Calibration of a Dynamic Universal Fatigue Tester", National Conference of Standards Laboratories Proceedings, 1990; author Jim Kerwin.

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8. "Quality Management Volume" for Arab Republic of Egypt International Program, Office of the Under Secretary of Defense (Acquisition & Technology); coauthor R. A. Bennett.

9. "Production Control Volume" of FMS International Quality Assurance Education Program for Arab Republic of Egypt under the sponsorship of the Office of the Assistant Secretary of the Navy for Acquisition/Production and Logistics, 1991; coauthors V. K. Barnes, W. M. Erickson.

10. "MIL-STD-2000 Standard Requirements for Soldered Electrical and Electronic Assemblies"; author J. J. Khuri.

11. "Environmental Stress Screening Requirements and Application Manual For Navy Electronic Equipment TE000-AB-GTP-020A"; M. E. Glenski.

12. "NAVSEA TE000-AB-GTP-010 Parts Derating & Applications Manual for Navy Electronic Equipment", Navywide Guidelines Document, ASN (RDA)-PE, author R. E. Yorke.

13. "Total Quality Management Volume Foreign Military Sales" International Educational Program, Arab Republic of Egypt sponsored by the Office of Assistant Secretary of Defense (Acquisition/Production and Logistics), 1991; coauthors D. L. Dickinson, W. M. Erickson.

14. Chapters for "Systems Acquisition Management" for DoD Acquisition Program sponsored by Office of the Under Secretary of Defense (Acquisition and Technology); coauthor W. M. Erickson.

15. Chapters for "Systems Planning, Research, Development, and Engineering" for DoD Acquisition Educational program sponsored by Office of the Under Secretary of Defense (Acquisition and Technology); coauthors K. B. Wiklund, R. A. Bennett.

16. Chapters for "Test and Evaluation Course (TST 202)" for DoD Acquisition Educational program sponsored by Office of the Under Secretary of Defense (Acquisition and Technology); coauthors R. A. Bennett, J. R. Quinn.

17. Chapters for "Executive Level Test and Evaluation Course (TST301)" for DoD Acquisition Educational program sponsored by Office of the Under Secretary Defense (Acquisition and Technology); coauthor J. R. Quinn.

18. Presented abstract from "Mathematical Approximation and Documentation", to American Mathematical Society; H. A. Watson.

19. "GIDEP Policies and Procedures Manual", Assistant Secretary of the Navy for DoD, Government and Industry; coauthor G. A. Carver.

35. "Nearly Isosceles Pythagorean Triplets", Journal of Recreational Mathematics, Vol. 22, No. 4, 1990; author Duane Allen.

36. "Functional Test: An Introduction", Proceedings of NEPCON East, Proceedings of Test Engineering Conference, Proceedings of ATE & Instrumentation Conference, Jul 90; author Duane Allen.

37. "Measuring Test Complexity", Proceedings of NEPCON West, Jan 90; author Duane Allen.

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.

1. "Range Scheduling System Users Manual (Versions I and II) and Technical Description"; author C. Ward.

2. "Inventory Control System Users Manual and Technical Description"; author C. Ward.

3 "The Log Periodic Loop Array (LPLA) Antenna", <u>THE ARRL ANTENNA COMPENDIUM</u>.

4. "MIL-STD-45662A, Calibration Systems Requirements", 1990; coauthor D. H. Caldwell.

5. "MIL-HDBK-52B, Calibration Systems Requirements", 1991; coauthor D. H. Caldwell.

6. Editorial contribution as technical representative, to the Test Measurement System Language (TMSL) Industrial Consortium Standard and to the IEEE P488.2, TC8 and P1174 Standards, 1990 by W. Groseclose.

7. Sections 5 and 6 of the Joint Services DOD Metrology RD&E Plan, 1991; author W. Groseclose.

8. "Quality Management Volume" for Arab Republic of Egypt International Program, Office of the Under Secretary of Defense (Acquisition & Technology); coauthor R. A. Bennett.

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20. "GIDEP-The Connectivity Source for DMS", American Defense Preparedness Association; presented at DoD Symposium on Solutions to Obsolescence, Jun 93; S. L. Kraft and G. A. Carver.

21. "FED-STD-808, Government-Industry Data Exchange Program (GIDEP),Contractor Participation, Sep 94; author G. A. Carver.

	Since 1990	Total Active
22. Technical Manuals, NAVAIR 17-20 Series	1812	4687

Instrument Calibration Procedures (ICPs) provide step by step process required for Navy personnel to calibration various test, monitoring, and diagnostic equipment.

23. Facility Requirements Documents, NAVAIR 17-35FR-Series	3	4

Provide physical & environmental requirements for the various capability levels of approved Navy calibration facilities.

24. Metrology Requirements List, NAVAIR 17-35MTL-1	7	1

Identifies support requirements for all test equipment in the Navy Metrology & Calibration (METCAL) Program.

25. Navy Calibration Equipment List, NAVAIR 17-35NCE-1	1	1

Identifies approved Navy calibration standards

26. Navy Calibration Activity List, NAVAIR 17-35NCA-1	1	1

Identifies approved Navy calibration activities

27. MIDAS, NAVAIR 17-35MCD-1	2	2

MIDAS (Metrology Information & Document Automated System) provides automated inter-active access to all of the core Navy metrology information. Distributed monthly on CD-ROM, it allows for the electronic viewing and printing of calibration procedures.

28. DoD MIDAS, NAVAIR 17-35MCD-3	1	1

DoD MIDAS (Metrology Information & Document Automated System) provides automated inter-active access to all of the core Air Force, Army, and Navy metrology information. Distributed quarterly on CD-ROM, it allows for the electronic viewing and printing of calibration procedures.

9. "Production Control Volume" of FMS International Quality Assurance Education Program for Arab Republic of Egypt under the sponsorship of the Office of the Assistant Secretary of the Navy for Acquisition/Production and Logistics, 1991; coauthors V. K. Barnes, W. M. Erickson.

10. "MIL-STD-2000 Standard Requirements for Soldered Electrical and Electronic Assemblies"; author J. J. Khuri.

11. "Environmental Stress Screening Requirements and Application Manual For Navy Electronic Equipment TE000-AB-GTP-020A"; M. E. Glenski.

12. "NAVSEA TE000-AB-GTP-010 Parts Derating & Applications Manual for Navy Electronic Equipment", Navywide Guidelines Document, ASN (RDA)-PE, author
R. E. Yorke.

13. "Total Quality Management Volume Foreign Military Sales" International Educational Program, Arab Republic of Egypt sponsored by the Office of Assistant Secretary of Defense (Acquisition/Production and Logistics), 1991; coauthors D. L. Dickinson, W. M. Erickson.

14. Chapters for "Systems Acquisition Management" for DoD Acquisition Program sponsored by Office of the Under Secretary of Defense (Acquisition and Technology); coauthor W. M. Erickson.

15. Chapters for "Systems Planning, Research, Development, and Engineering" for DoD Acquisition Educational program sponsored by Office of the Under Secretary of Defense (Acquisition and Technology); coauthors K. B. Wiklund, R. A. Bennett.

16. Chapters for "Test and Evaluation Course (TST 202)" for DoD Acquisition Educational program sponsored by Office of the Under Secretary of Defense(Acquisition and Technology; coauthors R. A. Bennett, J. R. Quinn.

17. Chapters for "Executive Level Test and Evaluation Course (TST301)" for DoD Acquisition Educational program sponsored by Office of the Under Secretary Defense (Acquisition and Technology); coauthor J. R. Quinn.

18. Presented abstract from "Mathematical Approximation and Documentation", to American Mathematical Society; H. A. Watson.

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	Since 1990	Total Active
29. METROQ	1	1

METROQ (Metrology Requirements On-line Query) provides for automated inter-active searching of the Navy calibration requirements, equipment, manufacturer, inventory, procedure, interval, and activate databases.

30. DoD METROQ	1	1

DoD METROQ (Metrology Requirements On-line Query) provides for automated inter-active searching of the Air Force, Army, and Navy calibration requirements, equipment, manufacturer, inventory, procedure, interval, and activity databases.

31. PCMETRL, NAVAIR 17-35MTL-1	1	1

Electronic version of the Navy Metrology Requirements List.

32. ACIAS	1	1

ACIAS (Automated Calibration Interval Analysis System) is a automated system for assigning and tracking the calibration intervals for Navy test equipment.

33. RIP	1	1

RIP (Recall Inventory Program) is used by fleet activities to collect and track Navy test equipment calibration performance data by serial number.

34. CASET	1	1

CASET (Calibration Analysis of Support Equipment/TAMS) allows for the analysis of calibration support capability for various weapons and aircraft platforms

35. Analytical Metrology Notes, NAVAIR 17-35AMN-Series	2	4

Provides technical and mathematical information on the modeling of the calibration reliability/failure data used in assigning approved Navy calibration intervals.

36. Calibration Requirements Documents, NAVAIR 17-35CR-Series	30	85

Identify the general parametric calibration requirements for generic classes of test equipment as agreed upon by the Air Force, Army, and Navy.

19. "GIDEP Policies and Procedures Manual", Assistant Secretary of the Navy for DoD, Government and Industry; coauthor G. A. Carver.

20. "GIDEP-The Connectivity Source for DMS", American Defense Preparedness Association; presented at DoD Symposium on Solutions to Obsolescence, Jun 93; S. L. Kraft and G. A. Carver.

21. "FED-STD-808, Government-Industry Data Exchange Program (GIDEP),Contractor Participation, Sep 94; author G. A. Carver.

	Since 1990	Total Active
22. Technical Manuals, NAVAIR 17-20 Series	1812	4687
Instrument Calibration Procedures (ICPs) provide step by step process required for Navy personnel to calibration various test, monitoring, and diagnostic equipment.		
23. Facility Requirements Documents, NAVAIR 17-35FR-Series	3	4
Provide physical & environmental requirements for the various capability levels of approved Navy calibration facilities.		
24. Metrology Requirements List, NAVAIR 17-35MTL-1	7	1
Identifies support requirements for all test equipment in the Navy Metrology & Calibration (METCAL) Program.		
25. Navy Calibration Equipment List, NAVAIR 17-35NCE-1	1	1
Identifies approved Navy calibration standards		
26. Navy Calibration Activity List, NAVAIR 17-35NCA-1	1	1
Identifies approved Navy calibration activities		
27. MIDAS, NAVAIR 17-35MCD-1	2	2
MIDAS (Metrology Information & Document Automated System) provides automated inter-active access to all of the core Navy metrology information. Distributed monthly on CD-ROM, it allows for the electronic		

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	Since 1990	Total Active
37. MECCA, NAVAIR 17-20MSYS-Series	106	703

MECCA (Modularly Equipped and Configured Calibrators and Analyzers) provides for the calibration of automated calibration of high density electronic test equipment.

38. Training Manuals, NAVAIR 17-35QAL-Series	0	24

Provides background and instructional training on various models of calibration equipment and in various measurement areas.

39. Technical Notes, TN Series	0	23

Documents the results of studies or engineering investigations performed to resolve calibration issues

40. Measurement Technology Reports, MTR Series	46	46

Documents findings and developments in the calibration support for emerging or advancing technologies in test and measurement equipment.

41. Technical Requirements Documents, NAVAIR 17-35TR- Series	2	5

Provide technical requirements for calibration support, procedure development, interval assignment, and automated test equipment support.

viewing and printing of calibration procedures.

28. DoD MIDAS, NAVAIR 17-35MCD-3 1 1

DoD MIDAS (Metrology Information & Document Automated System) provides automated inter-active access to all of the core Air Force, Army, and Navy metrology information. Distributed quarterly on CD-ROM, it allows for the electronic viewing and printing of calibration procedures.

29. METROQ 1 1

METROQ (Metrology Requirements On-line Query) provides for automated inter-active searching of the Navy calibration requirements, equipment, manufacturer, inventory, procedure, interval, and activate databases.

30. DoD METROQ 1 1

DoD METROQ (Metrology Requirements On-line Query) provides for automated inter-active searching of the Air Force, Army, and Navy calibration requirements, equipment, manufacturer, inventory, procedure, interval, and activity databases.

31. PCMETRL, NAVAIR 17-35MTL-1 1 1

Electronic version of the Navy Metrology Requirements List.

32. ACIAS 1 1

ACIAS (Automated Calibration Interval Analysis System) is a automated system for assigning and tracking the calibration intervals for Navy test equipment.

33. RIP 1 1

RIP (Recall Inventory Program) is used by fleet activities to collect and track Navy test equipment calibration performance data by serial number.

34. CASET 1 1

CASET (Calibration Analysis of Support Equipment/TAMS) allows for the

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analysis of calibration support capability for various weapons and aircraft platforms

35. Analytical Metrology Notes, NAVAIR 17-35AMN-Series 2 4

Provides technical and mathematical information on the modeling of the calibration reliability/failure data used in assigning approved Navy calibration intervals.

36. Calibration Requirements Documents, 30 85
NAVAIR 17-35CR-Series
Identify the general parametric calibration requirements for generic classes of test equipment as agreed upon by the Air Force, Army, and Navy.

37. MECCA, NAVAIR 17-20MSYS-Series 106 703

MECCA (Modularly Equipped and Configured Calibrators and Analyzers) provides for the calibration of automated calibration of high density electronic test equipment.

38. Training Manuals, NAVAIR 17-35QAL-Series 0 24

Provides background and instructional training on various models of calibration equipment and in various measurement areas.

39. Technical Notes, TN Series 0 23

Documents the results of studies or engineering investigations performed to resolve calibration issues

40. Measurement Technology Reports, MTR Series 46 46

Documents findings and developments in the calibration support for emerging or advancing technologies in test and measurement equipment.

41. Technical Requirements Documents, 2 5
NAVAIR 17-35TR- Series
Provide technical requirements for calibration support, procedure development, interval assignment, and automated test equipment support.

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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.

1. California State University San Bernardino Graduate Research Competition; First Place (Business & Public Administration); Research Project "Leadership in Local Computer Service Organizations within the State of California" to be awarded 3 Jun 93; Robert L. Beavan.

2. Outstanding achievement in Professional Fields of endeavor, Marquis Who's Who, 1992: William B. Groseclose.

3. Technical Excellence Award, Hewlett-Packard INTEREX Computer Users Group for Contributions to the Contributed Software Library: John L. Anderson.

4. 1990 National Conference of Standards Laboratories (NCSL) for paper judged one of the three best papers of the conference that year: James D. Kerwin.

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

1. Commanding Officer's Award for Excellence, Dr. A. Wayne Meeks, Feb 90.

2. Aaron B. Powers Award, Orville D. Hanson, Dec 93.

3. Meritorious Civilian Service Award, Robert W. Arbuckle, Sep 91.

4. Meritorious Civilian Service Award, John C. Taylor, Jan 94.

5. Meritorious Civilian Service Award, Delbert W. Caldwell, Jul 93.

6. Meritorious Civilian Service Award, Luis A. Cortes, Jul 93.

7. Meritorious Civilian Service Award, Jacki Gerber, Jul 93.

8. Meritorious Civilian Service Award, Robert B. Beavan, Jul 93.

9. Meritorious Civilian Service Award, John A. Neilson, Jul 93

10. Meritorious Civilian Service Award, Gleason H. Guyette, Jr., Jan 94.

11. Navy Superior Civilian Service Award, Donald J. Schumann, Jan 94.

12. NAS Miramar dedicated new TACTS building, Bldg. 745, as follows: "Dedicated to C. W. "Midnight" Dollard, retired Marine Corps Aviator/Federal Civil Servant, for his personal contribution to the operation and enhancement of the Tactical Aircrew Combat Training System at NAS Miramar"; Charles W. Dollard, 28 May 93.

13. Logistics Service Award, Department of Transportation, Federal Aviation Administration, James C. Richards, Aug 91.

14. AEGIS Excellence Award, AEGIS Program Manager, for Technical Implementation of High Reliability Soldering Requirement at AEGIS Prime/Subcontractors, Christopher J. Matzke, Jul 91.

15. Awards for excellence in technical support of AN/UYS-2 Sonar Signal Processor Program, William R. Lieb, FY 92/93.

16. Reliability Improvement Award for Soldering, Office of the Assistant Secretary of the Navy, Michael P. Ripp.

17. Award for Outstanding contribution to Fleet Readiness, Dept of the Navy Reliability, Maintainability and Quality Assurance, Donald L. Dickinson, Jun 90.

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

1. U.S. Patent No. 5,136,119, "Portable Faraday Shield", Aug 93, applicant Walter E. Leyland.

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

1. "Optical license plate reader", applicant Donald W. Baker.

2. "Single Element Thread Form Calibrator", U.S Patent Pending, Jan 94, applicant Gerald J. McGrath.

3. "The Boolean Visibility Operator", Patent Information Disclosure, Feb 92,

applicant Duane Allen.

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.

1. Laser Transmitter Support Standard (model number not yet assigned) - prototype currently in production for shorebased Navy Calibration Laboratories. Documented in Joint Service Metrology Research and Development Plan.

2. Automated Thread Gage Calibrator (model number not yet assigned) - prototype currently in production for shorebased Navy Calibration Laboratories. Documented in Joint Service Metrology Research and Development Plan.

3. Fiber Optic Group Index Measurement System (model number not yet assigned) prototype currently in production for Navy Primary Standards Laboratory. Documented in Joint Service Metrology Research and Development Plan.

4. Radiation Hazard Probe Calibration System (model number not yet assigned)

- 5 units currently in production for shorebased Navy Calibration Laboratories. Documented in Joint Service Metrology Research and Development Plan.

5. Model APD-800 Low Level Laser Radiometer - 7 units in-use at shorebased Navy Calibration Laboratories. Documented in Joint Service Metrology Research and Development Plan.

6. Model D-68 Klystron Oil Bath - approximately 15 in-use at shorebased Navy Calibration Laboratories. Documented in MET-D-068 Technical and Fabrication Manual.

7. Model D-77 Class-C Slotted Weight Set - approximately 120 in-use in shipboard and shorebased Navy calibration activities. Documented in MET-D-077 Technical and Fabrication Manual.

8. Model D101 Dynamic Calibrated Weight Set - approximately 30 in-use at shorebased Navy Calibration Laboratories. Documented in MET-D-101 Technical and Fabrication Manual.

9. Model D108 Torque Calibration Plate - approximately 15 in-use at shorebased Navy Calibration Laboratories. Documented in NAVAIR 17-35MTL-1, Metrology Requirements List and NAVAIR 17-35NCE-1, Navy Calibration Equipment List.

10. Model D114 Oscilloscope Adapter - approximately 175 in-use in shipboard and shorebased Navy calibration activities. Documented in NAVAIR 17-35MTL-1, Metrology Requirements List and NAVAIR 17-35NCE-1, Navy Calibration Equipment List.

11. Model D116 Standard 100-mH Inductor - approximately 160 in-use in shipboard and shorebased Navy calibration activities. Documented in MET-D-116 Technical and Fabrication Manual.

12. Model D128 Quadrature Standard - approximately 5 in-use at shorebased Navy Calibration Laboratories. Documented in NAVAIR 17-35MTL-1, Metrology Requirements List and NAVAIR 17-35NCE-1, Navy Calibration Equipment List.

13. Model D129 MESTS Calibrator - approximately 15 in-use at shorebased Navy Calibration Laboratories. Documented in NAVAIR 17-35MTL-1, Metrology Requirements List and NAVAIR 17-35NCE-1, Navy Calibration

Equipment List.

14. Model D133 Wide-Range RF Detector - approximately 90 in-use in shipboard and shorebased Navy calibration activities. Documented in NAVAIR 17-35MTL-1, Metrology Requirements List and NAVAIR 17-35NCE-1, Navy Calibration Equipment List.

15. Model D140 Ohmmeter Calibrator - approximately 75 in-use in shipboard and shorebased Navy calibration activities. Documented in MET-D-140 Technical and Fabrication Manual.

16. Model D144 Pressure Calibrator - approximately 10 in-use at Shorebased Navy Calibration Laboratories. Documented in NAVAIR 17-35MTL-1, Metrology Requirements List and NAVAIR 17-35NCE-1, Navy Calibration Equipment List.

17. Model D150 Vertical Amplifier Input Fixture - approximately 75 in-use in shipboard and shorebased Navy calibration activities. Documented in NAVAIR 17-35MTL-1, Metrology Requirements List and NAVAIR 17-35NCE-1, Navy Calibration Equipment List.

18. Model D157 Force Gage Calibration Fixture - approximately 35 in-use at shorebased Navy Calibration Laboratories. Documented in MET-D-157 Technical and Fabrication Manual.

19. Model D161 Standard Platinum Thermocouple - approximately 30 in-use at shorebased Navy Calibration Laboratories. Documented in NAVAIR 17-35MTL-1, Metrology Requirements List and NAVAIR 17-35NCE-1, Navy Calibration Equipment List.

20. Model D166 Phase Test Fixture - approximately 5 in-use at shorebased Navy Calibration Laboratories. Documented in NAVAIR 17-35MTL-1, Metrology Requirements List and NAVAIR 17-35NCE-1, Navy Calibration Equipment List.

21. Model D175 Piston-Type Pressure Gage Calibrator - approximately 20 in-use at shorebased Navy Calibration Laboratories. Documented in NAVAIR 17-35MTL-1, Metrology Requirements List and NAVAIR 17-35NCE-1, Navy Calibration Equipment List.

22. Model D178 Cable Tensiometer Calibrator - approximately 100 in-use in shipboard and shorebased Navy calibration activities. Documented in

MET-D-178 Technical and Fabrication Manual.

23. Model D204 Standard Voltage Divider - approximately 70 in-use in shipboard and shorebased Navy calibration activities. Documented in NAVAIR 17-35MTL-1, Metrology Requirements List and NAVAIR 17-35NCE-1, Navy Calibration Equipment List.

24. Model D225 Torque Mounting Plate - approximately 115 in-use in shipboard and shorebased Navy calibration activities. Documented in MET-D-225 Technical and Fabrication Manual.

25. Model D226 Mechanical Loader Lifting Stirrup - approximately 10 in-use at shorebased Navy Calibration Laboratories. Documented in MET-D-226 Technical and Fabrication Manual.

26. Model D228 Cable Tester Calibrator - approximately 40 in-use at shorebased Navy Calibration Laboratories. Documented in MET-D-228 Technical and Fabrication Manual.

27. Model D231 Ultrasonic Thickness Round Blocks - approximately 60 in-use in shipboard and shorebased Navy calibration activities. Documented in NAVAIR 17-35MTL-1, Metrology Requirements List and NAVAIR 17-35NCE-1, Navy Calibration Equipment List.

28. Model D235 Torque Tool Sealant Kit - approximately 115 in-use in shipboard and shorebased Navy calibration activities. Documented in MET-D-235 Technical and Fabrication Manual.

29. Model D242 Pressure Manifold - approximately 80 in-use in shipboard and shorebased Navy calibration activities. Documented in MET-D-242 Technical and Fabrication Manual.

30. Model D249 Pressure Monitor Manifold - approximately 15 in-use at shorebased Navy Calibration Laboratories. Documented in MET-D-249 Technical and Fabrication Manual.

31. Model D252 DMM Calibration Interface Fixture - approximately 5 in-use at shorebased Navy Calibration Laboratories. Documented in MET-D-252 Technical and Fabrication Manual.

32. Model D253 CTR-Timer Calibration Interface Fixture - approximately 5

in-use at shorebased Navy Calibration Laboratories. Documented in NAVAIR 17-35MTL-1, Metrology Requirements List and NAVAIR 17-35NCE-1, Navy Calibration Equipment List.

33. Model D263 Piston-Type Gage Pressure Calibrator - approximately 70 in-use in shipboard and shorebased Navy calibration activities. Documented MET-D-263 Technical and Fabrication Manual.

34. Model D276/D411 HATS Calibration Test Adapter - approximately 10 in-use at shorebased Navy Calibration Laboratories. Documented in MET-D-411 Technical and Fabrication Manual.

35. Model D279 Combustible Gas Indicator Calibrator - approximately 35 in-use at shorebased Navy Calibration Laboratories. Documented in MET-D-279 Technical and Fabrication Manual.

36. Model D281 Force Gage Adapter Kit - approximately 21 in-use at shorebased Navy Calibration Laboratories. Documented in MET-D-281 Technical and Fabrication Manual.

37. Model D288 Standard Low-Pass Coaxial Filter - approximately 15 in-use at shorebased Navy Calibration Laboratories. Documented in NAVAIR 17-35MTL-1, Metrology Requirements List and NAVAIR 17-35NCE-1, Navy Calibration Equipment List.

38. Model D306 Stepper-Motor Controller - approximately 60 in-use in shipboard and shorebased Navy calibration activities. Documented in MET-D-306 Technical and Fabrication Manual.

39. Model D309 Standard Gas Mixture - approximately 15 in-use at shorebased Navy Calibration Laboratories. Documented in MET-D-309 Technical and Fabrication Manual.

40. Model D310 Standard Gas Mixture - approximately 15 in-use at shorebased Navy Calibration Laboratories. Documented in MET-D-310 Technical and Fabrication Manual.

41. Model D311 Standard Gas Mixture - approximately 15 in-use at shorebased Navy Calibration Laboratories. Documented in MET-D-311 Technical and Fabrication Manual.

42. Model D317 Standard Gas Mixture - approximately 15 in-use at shorebased Navy Calibration Laboratories. Documented in MET-D-317 Technical and Fabrication Manual.

43. Model D331 Leakage Test Adapter - approximately 25 in-use at shorebased Navy Calibration Laboratories. Documented in MET-D-331 Technical and Fabrication Manual.

44. Model D344 Vacuum Test Adapter - approximately 15 in-use at shorebased Navy Calibration Laboratories. Documented in NAVAIR 17-35MTL-1, Metrology Requirements List and NAVAIR 17-35NCE-1, Navy Calibration Equipment List.

45. Model D349 Load Equalizer - approximately 15 in-use at shorebased Navy Calibration Laboratories. Documented in MET-D-349 Technical and Fabrication Manual.

46. Model D352 Pneumatic Low Pressure Manifold Stand - approximately 10 in-use at shorebased Navy Calibration Laboratories. Documented in NAVAIR 17-35MTL-1, Metrology Requirements List and NAVAIR 17-35NCE-1, Navy Calibration Equipment List.

47. Model D353 Hydraulic High Pressure Manifold Stand - approximately 10 in-use at shorebased Navy Calibration Laboratories. Documented in NAVAIR 17-35MTL-1, Metrology Requirements List and NAVAIR 17-35NCE-1, Navy Calibration Equipment List.

48. Model D377/D378 CAMS Calibrator - 2 in-use at SWFLANT Kings Bay and SWFPAC Bremerton. Documented in MET-D-377 Technical and Fabrication Manual.

49. Model D407 Interface Adapter - approximately 25 in-use at shorebased Navy Calibration Laboratories. Documented in MET-D-407 Technical and Fabrication Manual.

50. Model D483 Automated Vibration Calibration System - approximately 20 in-use at shorebased Navy Calibration Laboratories. Documented in MET-D-483 Technical and Fabrication Manual.

51. Model EM5-9 Pneumatic Reservoir - approximately 100 in-use in shipboard and shorebased Navy calibration activities. Documented in NAVAIR

17-35MTL-1, Metrology Requirements List and NAVAIR 17-35NCE-1, Navy Calibration Equipment List.

52. Model KQ1 Calibration Accessory Kit - approximately 40 in-use in shipboard and shorebased Navy calibration activities. Documented in NAVAIR 17-35MTL-1, Metrology Requirements List and NAVAIR 17-35NCE-1, Navy Calibration Equipment List.

53. Model KQ11 Calibration Accessory Kit - approximately 40 in-use in shipboard and shorebased Navy calibration activities. Documented in NAVAIR 17-35MTL-1, Metrology Requirements List and NAVAIR 17-35NCE-1, Navy Calibration Equipment List.

54. Model KQ3 Calibration Accessory Kit - approximately 15 in-use at shorebased Navy Calibration Laboratories. Documented in NAVAIR 17-35MTL-1, Metrology Requirements List and NAVAIR 17-35NCE-1, Navy Calibration Equipment List.

55. Model KQ6 Calibration Accessory Kit - approximately 95 in-use in shipboard and shorebased Navy calibration activities. Documented in NAVAIR 17-35MTL-1, Metrology Requirements List and NAVAIR 17-35NCE-1, Navy Calibration Equipment List.

56. Model KQ7 Calibration Accessory Kit - approximately 55 in-use in shipboard and shorebased Navy calibration activities. Documented in NAVAIR 17-35MTL-1, Metrology Requirements List and NAVAIR 17-35NCE-1, Navy Calibration Equipment List.

57. Model KQ8 Calibration Accessory Kit - approximately 30 in-use in shipboard and shorebased Navy calibration activities. Documented in NAVAIR 17-35MTL-1, Metrology Requirements List and NAVAIR 17-35NCE-1, Navy Calibration Equipment List.

58. Model MM50 Passive Multimode Optical Time Domain Reflectometer (OTDR) Calibrator - 2 units in-use at NADEP Norfolk and NADEP North Island. Documented in MTR-94-04, Calibration Support for Navy Fiber Optic Systems.

59. The Warfare Assessment Model (WAM) Capability: The Naval Warfare Assessment Division (NWAD) developed a C Language, X Windows Motif graphics software system to perform reconstruction, analysis, and debrief of multi-participant military exercises. The system provides an interactive multi-window environment with the capability to dynamically and

multi-window environment with the capability to dynamically and statically display the exercise and performance feedback. The system serves Joint Force Commanders in both Open Ocean and Littoral Warfare scenarios to rapidly assess the performance of their units, components, battle groups, and battle forces in all warfare areas across the entire training continuum. System description and operation are further defined in the WAM Software User Manual Version 3.0 (WAM-SUM-001, Change 1, 12 Oct 93).

60. Multisource Interactive Data Analysis System (MIDAS): NWAD has developed a graphical analysis workstation to assist with reconstruction, analysis, and capability assessment of surface missile system ships. The workstation consists of s Silicon Graphics Incorporated Indigo computer running C-language programs. They provide the analyst with an interactive environment in which data from ship systems (AEGIS, CAP, ACDS, TAS, SYS) and ground truth sources (target telemetry, ECM Aircraft logs, range surveillance radars, etc) can be organized, manipulated, and viewed. The combination of workstation and analysis programs are collectively known as MIDAS. The system is described in a document entitled "Multisource Interactive Data Analysis System".

61. Distributed AEGIS Data System (DADS): NWAD has developed a system to assist with the
reduction of AEGIS Weapon System data. The system consists of a C++ language programs written to run under Windows on a PC platform. They provide the analyst with an interactive environment in which data from AEGIS ships can be reduced, manipulated, and viewed in a format meaningful to the analyst. The system is described in a document entitled "DADS Users Manual".

62. The Cruise Missile Interactive Graphics Analysis Tool was developed at NWAD to support TOMAHAWK missile flight analysis. IGAT was authorized by PEO(CU) letter Ser PEO(CU)-CT10/135 dated Jul 13 1990. The design of IGAT incorporates a set of commercial of the shelf engineering workstations and peripherals, using locally defined and developed software. The software for extracting, scaling, and displaying missile telemetry data was developed by NWAD programmers for NWAD analysts.

63. Telemetry Station Design: PMA-248 tasked NWAD to develop a computer-controlled telemetry ground station design for use at Navy tactical training ranges. Airtask A2482483-1975-467000025 directs NWAD as the Lead Field Activity (LFA) for the Naval Air Systems Command (NAVAIR) Fleet training Range Telemetry Improvement and Modernization (I&M) program. The telemetry ground station design developed by this program has been used to

upgrade telemetry hardware at the Puerto Rico telemetry site in support of fleet exercises conducted on the Atlantic Fleet Weapons Training Facility (AFWTF). The design will also be used to upgrade telemetry hardware at the Naval Air Station Oceana telemetry site.

64. Weapons Impact Scoring System Design: PMA-248 tasked NWAD to develop an Weapons Impact Scoring System (WISS) design for use at Navy tactical training ranges. Airtasks A2382382-197D-4248000005 and A2482482-1974-4248000004 direct NWAD to develop an updated version of the current WISS system and assign NWAD as the Cognizant Field Activity (CFA) for WISS system development. Twenty-six WISS systems have been installed at thirteen Navy and Marine Corps locations worldwide.

65. Telecommunications System Design: PMA-248 tasked NWAD to develop telecommunication systems for use at Navy tactical training ranges. Airtask A2482482-1974-2248000019 assigns NWAD as the CFA for Tactical Air Combat Training Systems (TACTS) data links. Engineering and technical support are provided for existing and future data links used by Navy tactical training ranges. Telecommunication requirements and instrumentation are developed for TACTS, Southern California Offshore Range (SCORE), Expeditionary Force Training Complex (EFTC), Large Area Tracking Range (LATR), and the Tactical Combat Training System (TCTS).

66. PMA-248 tasked NWAD to develop a 56 Kbit/Second INMARSAT system to collect data during at-sea fleet exercises. Airtask A2482483-197D-2W19980026 assigns NWAD to perform the concept analysis, development, test, evaluation demonstration, and operational implementation of a full-duples 56 Kbit/Second satellite communication data link capability to improve the timeliness of initial exercise performance analysis.

67. Video Teleconferencing Design: PMS-400 tasked NWAD to design and develop a Video Teleconferencing Center (VTC). Secure multipoint teleconferencing is provided along with provisions for simultaneous realtime DCTN data transmission.

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.

NWAD COMMENT. Forms for the following special facilities/equipment are provided in Tab B:

1. **Warfare Assessment Laboratory**
2. **Gage Engineering Laboratory**
3. **Metrology Engineering Laboratory**
4. **Satellite Earth Station**
5. **Telemetry Ground Station**
6. **Weapons Impact Scoring System Range**
7. **Puerto Rico Telemetry Field Station**
8. **NAMFI Crete Telemetry Field Station**
9. **Oceana Telemetry Field Station**

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10. **Tactical Aircrew Combat Training System (TACTS) Fallon, NV**
11. **Tactical Aircrew Combat Training System (TACTS) Yuma, AZ**
12. **Tactical Aircrew Combat Training System (TACTS) Oceana, VA**
13. **Tactical Aircrew Combat Training System (TACTS)Cherry Point, NC**
14. **Tactical Aircrew Combat Training System (TACTS) Beaufort, SC**
15. **Tactical Aircrew Combat Training System (TACTS) Cecil Field, FL**
16. **Tactical Aircrew Combat Training System (TACTS) El Toro, CA**
17. **Tactical Aircrew Combat Training System (TACTS) NAS Miramar, CA**
18. **Tactical Aircrew Combat Training System (TACTS) NAF El Centro, CA**
19. **Tactical Aircrew Combat Training System (TACTS) Key West, FL**
20. **Tactical Aircrew Combat Training System (TACTS) NAS Lemoore, CA**

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7. **General Facilities**.

a. Is there any cash revenue generated by this activity? Example: Electricity generated at this activity and sold to the local community. If yes, describe.

a. The Naval Warfare Assessment Division generates cash revenues from a comprehensive recycling program that includes white paper, newspaper, cardboard, toner cartridges, metals, etc., which is used to support MWR environment projects.

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

b. There are no MILCON projects currently programmed to be completed by the end of FY 95 at Naval Warfare Assessment Division, Corona.

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

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

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

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

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

c. What MILCON projects are currently programmed to be executed/completed after FY1995? For each project provide:

c. There are no MILCON projects currently programmed to be executed/completed after FY 95 for the Naval Warfare Assessment Division, Corona. (R

7. **General Facilities.**

a. Is there any cash revenue generated by this activity? Example: Electricity generated at this activity and sold to the local community. If yes, describe.

a. The Naval Warfare Assessment Division generates cash revenues from a comprehensive recycling program that includes white paper, newspaper, cardboard, toner cartridges, metals, etc., which is used to support MWR environment projects.

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

b. There are no MILCON projects currently programmed to be completed by the end of FY 95 at Naval Warfare Assessment Division, Corona.

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

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

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

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

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

c. What MILCON projects are currently programmed to be executed/completed after FY1995? For each project provide:

c. A FY 98 MILCON project is currently programmed for the Naval Warfare Assessment Division, Corona, P-167 Measurement Science Laboratory.

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

(1) P-167 Measurement Science Laboratory project will construct an L-

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

Not applicable (R

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

Not applicable (R

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

Not applicable (R

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shaped two story reinforced concrete facility. It will provide space and controlled environments for an electro-optics, electrical/electronic, RF microwave, dimensional/optical, physical science, and interface gage laboratories. The facility will contail a high-bay area, an overhead bridge crane, clean room areas, built-in distribution systems for laboratory compressed gases, air conditioning for environmental controls, power filters, grounding systems, a back-up generator, conduit for telecommunications systems, and utility requirements. Air conditioning requirements equal 150 tons.

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

(2) The P-167 Measurement Science Laboratory will provide facilities foir performing all aspects of Navy-wide Measurement Science functions relating to the Navy Special Gage (NSIG); the Navy Standards Laboratory (NSL); and, the Navy Metrology and Calibration (METCAL) programs. More than two million calibrations and hundreds of units of measure are used by the Navy each year; optical, dimensional, force, distance, voltage, power, current, pressure, temperature, and time interval. NWAD developes and provides the measurements in support of the METCAL program and the design and certificaiton of gages in the NSIG program. NWAD is respolnsible for the technical direction of these Navy-wide mandatory programs which governs these measurements. As a result of these efforts, standards and calibration procedures are established to support the development of new test systems, weapons and combat systems and subsystems procurements, and determining optimum calibration intervals of the METCAL program that are used to guarantee the quality of the Navy's weapons and combat systems.

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

(3) The P-167 Measurement Science Laboratory will be equipped with an aggreate of fixed and moveable pieces of equipment. This equipment is valued at $6,396,000. The permanently installed equipment in the building includes a specialized HVACX system, RF shield rooms, a freight/personnel elevator, and two bridge cranes (4,000 # and 18,000 #). The moveable equipment includes equipment for electronic lab (network analyzer, Josephson junction, etc.) and gage lab equipment (Schwien manometer, Harwood, Ruska 2451, PRT system, automated gaging system, robotic control system, interferometer (NPL), gaging standards, angle block calibration system, polygon calibration system, wire & ballo standards, Talyrand - 100K, Surface finish 603-201, 603-202, and 603-006, optical comparators, laser measurement system, etc.).

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

Not applicable (R

(5) CWE & planned BOD.

Not applicable (R

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

(4) P-167 Measurement Science Laboratory will provide an additional 40,000 square feet of state-of-the-art category to support the critical Measurement Science mission functions.

(5) CWE & planned BOD.

(5) P-167 Measurement Science Laboratory has a CWE certified by Southwest Division, Naval Facilities Engineering Command of $8,170,000 by memorandum 11000 Ser 202.KM/0702 dated 29 Oct 93. The planned BOD is estimated to be in the first quarter of FY 98.

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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.

d. The nearest military airfield is located at March AFB, 25 miles east of the Naval Warfare Assessment Division, Corona, with a driving time of approximately 30 minutes. The nearest military pier is located at NWS Seal Beach, 45 miles southwest of Naval Warfare Assessment Division, Corona.

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

e. The Naval Warfare Assessment Division does not own or control any certified magazines within its Command.

LOCATION

8. **Geographic Location.**

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

Yes.

(1) The unique Navy-wide mission of the Command is primarily technical in nature and results in products that are used for programmatic decisions affecting: acquisition, operation, and support. The command focuses on the four most critical warfare assessment areas:

- **Weapons and combat systems performance**
- **Fleet training effectiveness**
- **Systems and material quality readiness**
- **Test and measurement effectiveness**

These assessment areas are integrally linked for specific systems allowing the relationship of fleet training problems, systems performance, material quality, and related testing to be examined. The collocation of the technical staff at the main-site to perform the analysis provides for synergistic, in-depth and responsive service to both program managers and Fleet commanders.

(2) NWAD's location is very centralized and provides easy access to the concentration of Navy, Army, Air Force, and Marine Corps activities in the Southern California area as well as major defense industry prime contractors and sub-contractors. Access to world-wide military and civilian air transportation is also in the immediate area. NWAD's telecommunications system provides world-wide communications with other military bases.

The location of NWAD must not negatively impact its impartial reporting responsibilities needed for its independent assessment function. Accordingly, location at a Warfare Center or other Development & Acquisition activity would be inconsistent with the NWAD mission.

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

Overall, the main site location provides easy access to many military and civilian contractors to provide independent assessment services that are objective and accurate. NWAD's mission is Navy and world-wide in scope and as such

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provides products and services to the Fleet and shore bases. NWAD's centralized Southern California location provides easy access to key clients: NAWC Weapons Division Pt Mugu; NAWC Weapons Division, China Lake; NSWC Port Hueneme Division; Fleet commands in San Diego; MCAS Yuma; and NWS Seal Beach.

NWAD is the principal occupant of the site and as such it is not closely associated with an acquisition or user activity. This allows us to serve our mission for OPTEVFOR, Program Managers, etc., with necessary independent management reporting relationship.

In addition, NWAD has established detachment and field offices at critical customer locations where continuous local services are cost-effective and essential. NWAD staff at these critical locations also facilitates obtaining responsive and focused support from the main site.

As an example, each NWAD field office providing services to the Fleet in training aircrews is located at or near major Navy or Marine Corps air facilities, such as NAS Fallon, NAS Miramar, MCAS Yuma, NAS Oceana, MCAS Cherry Point, MCAS Beaufort, and NAS Key West. In addition the "remote" sites that interface to one of the above major TACTS sites have debriefing and data display capabilities at air facilities such as NAS Cecil Field, MCAS El Toro, and NAF El Centro. It is thus imperative that these sites be collocated to the range facilities that perform Fleet aircrew training, essential to the national defense. NWAD operates and maintains TACTS/EW equipments resident at these key facilities. Economies of scale are realized by common contracting and management, in addition to being the most cost-effective means of combining like tasking for effective, maximum contractor competition for the best value to the government.

FEATURES AND CAPABILITIES

9. Computational Facilities.

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.

a. Summary:

The Naval Warfare Assessment Division's (NWAD) computational facilities includes:

(1) A large scale parallel computational capability that handles over 1,000 users doing concurrent interactive transactions.
(2) A distributed information system (DIS) interconnecting over 3,000 terminals, work stations, personal computers, and larger scale computers on a wide-area network.
(3) High-speed satellite and land line data transfer capabilities to selected fleet test ranges and shore sites.
(4) Multiple local area networks utilizing fiber optics, including secure networks operating at 100 MBs, to interconnect graphics workstations, and other sites.
(5) Secure video teleconference with multiple site capability.
(6) Large screen display system (60 ft X 15 ft mosaic of 12 screens) for data analysis and review.

b. Purpose:

The general and special computational capabilities at this site are essential to provide the technical capability to collect, process, and distribute classified and open information for analysis and feedback to Program Managers and Fleet Commanders in near real-time. Massive data bases are maintained to provide for interactive historical and trends analysis of weapons firings and equipment reliability. Weapons configuration files are maintained to analyze unique failures, predict reliability, and support logistics management functions. Secure video and data communication of fleet exercise data is critical to distributed evaluation of weapons performance and training effectiveness. In addition, data bases and

communications for the Government Industry Data Exchange Program (GIDEP) provide critical reliability and safety data and images to all Federal agencies, the Canadian Department of Defence, and associated industrial companies.

c. Computational Capabilities:

(1). GENERAL

NWAD has a unique set of computational assets that are used to enable its professionals to do core technical tasks. The on-site UNISYS 1100/93 main-frame computer provides large scale computing to accomplish technical assignments. Currently, the UNISYS 1100/93 supports 197 direct connect, 600 dial-up, and 145 dedicated line terminals via six front-end processors. At present, NWAD is mid-way through transition from the UNISYS 1100/93 to a distributed network of open system, non-proprietary computers. The FY 95 completion target environment being based on UNIX operating systems together with relational data bases.

In addition to the main-frame technical computational capability described above, NWAD manages and operates an extensive Distributed Information System (DIS) for both internal and external customers. In addition to the more traditional Office Automation functions, this DIS provides automated decision support, automated management information, and computer file sharing. This DIS is based on an extensive Wide Area Network, six local Data General super-minicomputers, and two remote Data General mini-computers. The Data General super-minicomputers include dual processor MV/40000 and MV/20000 computer systems. In addition, there are about 1,200 local and 1,300 remote terminals and pc's supported by this DIS.

The computational capabilities discussed above require a large network. NWAD manages and operates an extensive Wide Area Network that interconnects over 3,000 terminals, personal computers, workstations, data base file servers, and larger scale computers. For unclassified data, local area networking is primarily done via a broadband SYTEK System 2000 network. (For information, SYTEK is a brand name that was acquired by Hughes LAN Systems.) This SYTEK network covers an inner compound at Corona, CA, with over 95% coverage of about 30 buildings. Much of the local data communications is transmitted via 18 asynchronous channels, with each channel having a capacity of 128 kilo Bits-per-Second (kbps). In addition, approximately 15 local Ethernet networks are interconnected to one another via a special broadband Token bus

channel with a data traffic capacity of 10 Mega Bits-per-Second (Mbps). To a more limited extent, dedicated point-to-point twisted pair and fiber optics circuits are used for some local computer networking.

For "secure" on-site local area networking, NWAD predominately uses encryption via Motorola NESs, STU-III dial-up connections, and Protected Distribution Systems.

To fulfill its mission and to better serve its customers, NWAD has a very diverse need to get data from outside its physical boundaries. The trend is for Fleet exercise assessment data to arrive at NWAD in near real-time via satellite links or over secure telephone lines, to be analyzed, and to make results available to the Fleet as soon as possible. To meet this trend, NWAD has put into place a special set of equipment and computers to use satellite links for timely turnaround on the assessment of Fleet exercise data. For example, the satellite link between Corona and Puerto Rico is now operational to support such transmission of data. Such secure data communication connections are being implemented to provide external data communications to the Warfare Assessment Laboratory this fiscal year.

An important example of external data communications and networking is the AEGIS Performance Assessment Network (APAN), which is a wide-area network electronically connecting the computer systems at various AEGIS activities and ranges. NWAD has implemented, managed, and operated APAN since 1992. Satellite and terrestrial fiber circuits provide the connectivity for remote test ranges at AFWTF and PMRF, respectively. Terrestrial, on-demand, switched circuits are used to interconnect CONUS APAN sites (Martin Marietta, NSWC/PHD, and NSWC/DD) to the data distribution node at NWAD. Two types of circuits are used for these CONUS connections: 1) the Defense Commercial Telecommunications Network (DCTN) accessed through the Navy's existing Video Teleconferencing facilities, and 2) a switched 56 kbps network. DCTN connections are primarily made at night, with the switched 56 kbps service providing connectivity during daytime. APAN provides completely secure communication (up to the Secret level), with NSA-approved encryption accross all connections. All types of electronic files, including data tape, ASCII, binary, object, and executable formats, may be tranferred to/from any node in the network. Also, the general exchange of information via electronic mail, word processor or data base files is possible providing the communicating sites possess the correct software.

The APAN and other secure external data communications networks are

planned to provide remote connection to the Warfare Assessment Laboratory, which is separately discussed under item 6 to this data call. The mission being carried out within the Warfare Assessment Laboratory requires the transmission, receipt, processing, analysis, and storage of significant amounts of highly classified data and information. Large scale computers, data base servers, engineering workstations, decommutation instrumentation, high speed local area networks (FDDI based, 100 Mbps), and large screen displays are used extensively in a distributed fashion to process this information and provide it via external satellite communications systems to world-wide Navy components. Intrusion detection systems and special access control are used to adequately protect this highly classified information. In addition, a high end relational data base server is used for the reduction and analysis of Anti-Air Warfare, Anti-Submarine or Underwater Warfare, Anti-Surface Warfare, and Strike data as an integrated Warfare Assessment Model (WAM). This WAM is designed as a single, unified system for exercise reconstruction and analysis, to provide rapid feedback to the Fleet. Above all, the WAM's special equipment and computers support realistic two-dimensional and three-dimensional debriefs.

(2) Special

(a) MEASUREMENT SCIENCE (MS)

The MS area has made a major commitment to pc's, pc networks, and SUN equivalent multi-user data base servers to accomplish its tasks. In addition, the MS area has migrated a major Metrology Requirements (METREQ) data base from the UNISYS 1100/93 main-frame computer to a more open, non-proprietary computer environment. The METREQ data base was put on the UNISYS 1100/93 in 1984, and is a hierarchial data base management system with full screen and batch update capability. The migrated system provides a more interactive, integrated workstation environment for about 150 engineers and analysts doing tasks related to calibration interval assignment or procedure development.

Another special computer system used by the MS area is called the Automated Calibration Interval Assignment System (ACAIS). The ACAIS is being used in production as an automated expert system for calibration interval analysis. This ACAIS runs on a SUN multi-user data base server, for aiding the analysis of approximately 1,500,000 annual calibrations by 3,000 technicians in about 800 labs.

The MS area also uses a special equipment and computer system which is

known as the Technical Publishing System (TPS). This TPS is used for calibration procedure preparation, and is based on a SUN data base server running INTERLEAF software. The tasks supported by this TPS include the generation of Instrument Calibration Procedures (ICPs).

Within the MS area, the Gage Laboratory uses a Calibration Procedure Tracking data base to track the movement of instruments through the calibration procedures. In addition, the Gage Laboratory uses a specially designed Hewlett-Packard Shared Resource Management (HP-SRM) system to manage individual automated controllers which run ICPs. The Type I laboratories at Washington and San Diego use similar HP-SRM systems and compatibility is essential.

(b) QUALITY ASSESSMENT (QA)

Like the MS area, the QA area has made a major commitment to pc's, pc networks, and multi-user data base servers to accomplish its tasks. In addition, the QA area depends on the UNISYS 1100/93 main-frame computer for much of its technical computing. The following six programs were identified as requiring special equipment or computers: Trouble Failure Report (TFR), Material Readiness Data Base (MRDB), Troubled Systems Process (TSP), ASROC Consolidated Data Base, Government-Industry Data Exchange Program (GIDEP), and the STANDARD Missile System - Maintenance Data System (SMS-MDS). Each of these programs is now separately discussed below.

The TFR program is sponsored by the Strategic Systems Program Office for the electronic processing of TFRs and quick feedback to TFR originators of electronic versions of Corrective Action Reports. This TFR program depends on a special network of STU-III encryption/modem units, high speed modems, high end pc's, FAX machines, and the UNISYS 1100/93 main-frame computer. In addition, an Ethernet network and fiber optic point-to-point connections are used for transmitting data between each of these equipments and computer components. Migration from the UNISYS 1100/93 computer to a more open, non-proprietary computer environment is planned to be complete by FY1995.

The MRDB resides on the UNISYS 1100/93 main-frame computer, and uses a network-type database (DMS 1100). The MRDB's current size is 400 Mega-bytes with an estimated growth rate of 71 Mega-bytes per year. There are 167 remote users and 46 local users who are registered to use the MRDB. In addition to the UNISYS 1100/93, the MRDB program uses a UTS 4020 cluster of UNISYS Workstations for pre-processing of data before entry into the UNISYS 1100/93. Migration of the MRDB from the UNISYS 1100/93 to a more open, non-

proprietary computer environment (SUN 2000 with SYBASE relational data base management software) is planned to be complete by the end of FY1994.

The purpose of the TSP program is to support Fleet readiness by identifying Navy combat system problems and root causes. NWAD is now implementing the TSP integration center for data from two Surface Type Commanders (TYCOMs), and will expand to all TYCOMs in the near future. This TSP integration center is based on a special combination of a 80486 Intel Microprocessor based file server, a pc network, high speed V.32 modems, data analysis pc workstations, and special data base management software. This data integration center will support the tasks of providing a historical data base, providing remote access of the data to participants, and reporting a Troubled Systems List semi-annually.

The ASROC Consolidated Data Base resides on the UNISYS 1100/93 mainframe computer. Current plans call for integrating VLA and RAM data as part of this Consolidated Data Base, and to migrate the Consolidated Data Base to a more open, non-proprietary computer environment. Due to the classified nature of its data, this program also uses dedicated pc's, removable Bernoulli disk drives, and STU-III's for pre-processing of data prior to entry into the UNISYS 1100/93. The task supported by this data base includes the evaluation of quality and reliability of the in-service ASROC stockpile.

The GIDEP program uses a modernized system that involves the UNISYS 1100/93. This modernization program involved adding the following subsystems to the UNISYS 1100/93: document storage, document processing, document input, network, and document output. As a part of the system architecture, the following special equipment was added to the UNISYS 1100/93: approximately 30 data input and processing workstations, a U-6000 file server with Info-Image software and optical storage juke box, a DCP-30 front-end processor, and about 180 V.32 modems with business line connections. FAX servers are also part of the new systems architecture. In addition, a communications software "shell," a user application software "shell," UNIDAS Text Data Base Management software, and 10 Giga-Bytes additional magnetic mass storage were added to the UNISYS 1100/93 as a part of this GIDEP modernization program. The basic requirements being met include high speed data transfer capability to GIDEP's customers for both text files and compressed image files, and a capability to support 300 simultaneous remote users via "user friendly" connect procedures. Above all, this modernized GIDEP system must facilitate the exchange of technical data essential to the research, design, development, production, and operational phases of the life cycle of systems and equipment.

The SMS-MDS uses a network of distributed SUN data base servers, and is based on SYBASE relational data base management software. To access this SMS-MDS data base, the Naval Sea Systems Command network users connect through commercial dial-up 800 telephone lines at no charge to users. Special on-site networking equipment used for the SMS-MDS program includes the SYTEK broadband network, a Novell networking software and Ethernet based pc local area network, and dedicated point-to-point fiber optics circuits. The task being supported by these special equipment and computers is STANDARD Missile Pre-Flight analysis.

(c) PERFORMANCE ASSESSMENT (PA)

As is the case with the other areas, the PA area has made a major investment in pc's and pc networks. As a special note, the Telemetry and Telecommunications Support tasks are critical to the accomplishment of tasks in the PA area. In particular, the PA area personnel operate and maintains Fleet Training Range Telemetry Systems, which consist of telemetry antennas and attached computers and data recorders located at Fleet Training Ranges in Crete, Oceana, and Puerto Rico. At Puerto Rico, a developmental prototype is being put into production so that the whole suite of antennas is controlled via computers which present operators with graphics images of range operations and system parameter settings.

Another task of the PA area is the Fleet Exercise Assessment Program, which involves the reconstruction and analysis of major Navy Fleet exercises. During an exercise, the data is sent to NWAD via INMARSAT or a land line telephone link using STU-III's, or the Navy Telecommunications Center (NTCC). The data is stored and processed using 35 standalone pc's (26 80386's and 9 80486's), and approximately 5 TAC-III's, each with removable magnetic storage media. Multiple STU-III phone line access is mandatory for this program. In addition, the system is configured to handle twenty-four continuous hour operation during an exercise.

The PA area also acquires, maintains, operates, and upgrades AEGIS data processing systems for the AEGIS program manager, PMS400. These computer facilities are located at: NWAD, Corona, CA; CSEDS, Moorestown, NJ; Ingalls Ship Division, Pascagoula, MS; Bath Iron Works, Bath, ME; AFWTF, Roosevelt Roads, P.R.; and, PMRF, Barking Sands, HI. For this AEGIS program, NWAD functions as the central hub for program development, configuration control and management. In addition, PMS400 has tasked NWAD to be the central AEGIS data tape librarian. In this capacity, the PA area requires special equipment to

receive, store, duplicate, distribute and maintain logs on most of the thousands of reels of magnetic tape recorded test data from AEGIS ships. The computer systems at all sites are networked to pc's or workstations for rapid transfer of processed data. (See also the prior discussion on the APAN.)

Primary to the AEGIS operation is commonality of equipment, operating systems, networks, and data base management systems. Labor costs to do otherwise would be enormous. AEGIS core systems are VAX computers running the VMS operating system, DECNet software, common application computer programs, and ORACLE relational data base software. The AEGIS networked pc's run MS-DOS, Wordperfect software, Pathworks software, and Quatra Pro software. In addition, Silicon Graphics IRIS (SGI) workstations running a UNIX operating system accept processed data over the network, and graphically display tracking data using tailored application programs.

The PA area personnel have also developed a special combination of equipment and computers as the Surface Weapons Interactive Flight Analysis Technology (SWIFT) program. The objectives of SWIFT are two-fold, as follows: (1) provide the weapon system analyst an interactive, graphics based, environment for assembling, viewing, and measuring weapon system data; and, (2) provide means by which the analysis results are stored for computer-aided generation of analysis reports, update of associated data bases, trends, and archiving. The missile programs supported by SWIFT include the STANDARD Missile Fleet (consisting of AEGIS, TARTER, TERRIER ships) and the NATO Fleet. In addition, foreign navies utilizing these weapon systems are supported. Three DEC Micro-VAX computers, two Silicon Graphics Iris (SGI) servers, six SGI workstations, and fifty-six networked pc's provide the computing resources for this SWIFT program. The Micro-VAX computers extract shipboard data while the analysis is conducted on the SGI workstations. Most of the reports are produced at analyst desktop pc's.

Additional tasks within the PA area involve automated support for analysis of TOMAHAWK, HARPOON, and other Air Launched Missiles. For the TOMAHAWK program, the PA Directorate has developed an Interactive Graphics Analysis Tool (IGAT) based on a network of 15 workstations, a 9-track tape drive, a 4mm tape drive, and a 10 Giga-byte optical juke box. This IGAT supports ad hoc queries, quarterly reports, annual reports, and special presentations that are associated with TOMAHAWK test and evaluation. The HARPOON Firing Performance Data Base resides on an IBM compatible 80486 pc, and is used to provide a means for ad hoc queries, for generation of quarterly and annual summary reports, and to support flight review meetings.

Performance data for other Air Launched Missiles is currently stored and processed on the UNISYS 1100/93, or on an IBM compatible pc using ORACLE as its data base management software.

Another special Command resource is the "Ground Station." Within the "Ground Station" is a suite of specially designed equipment and computers which translate analog telemetry data, as recorded live during missile and weapon system tests, to digital formats which are suitable for high speed digital data processing, graphical display, and analysis.

(d) SYSTEMS ENGINEERING (SE)

Like the other Directorates, the SE area has a major commitment to pc's and pc networks. Many of these pc's are used for software development for this Directorate's customers. In addition, the SE Directorate operates and manages the UNISYS 1100/93 computer and Command-wide computer networks for NWAD. The SE area also manages this Command's Video Teleconferencing Center and a Micro Resource Center.

The SE Directorate also performs Logistics related studies and analyses, primarily for the Naval Air Systems Command. IBM compatible pc's and a 3-COM network are being used to support such tasks.

In addition, the SE area includes operating Tactical Air Combat Test Systems (TACTS) at numerous sites throughout the continental United States. These TACTS are used for debriefings of Navy or Marine Corps pilots after a air combat training mission, such as a Top Gun exercise. Thus, the TACTS involves a fairly complex combination of simulated threats (including electronic warfare threats), simulated ground targets, sensors, aircraft electronic signal pods, data transmitters, computers for processing incoming data, and Digital Display Systems. These Digital Display Systems are capable of driving large screen displays in debriefing rooms which can hold up to 50 or more visitors.

10. **Mobilization Responsibility and Capability.**

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

The Naval Sea Systems Command is revising the mobilization responsibilities for each cognizant field activity. The Naval Warfare Assessment Division will be assigned responsibilities in three areas: support of industrial base

mobilization; training of individual units through Battle Groups and Joint Battle Forces; and, assessment of weapon performance in actual combat. In supporting the Defense Industrial Base mobilization, the Naval Warfare Assessment Division will provide assistance in quality control, metrology, and automated test equipment for expansion of existing industrial facilities and start up assistance in the same areas for converting or new industrial facilities. This assistance will be primariliy in providing on site government representation to facilitate decision making and implemntation of those decisions. A 100% increase in training requirements, especially for individual aircrews on the TACTS (Tactical Aircrew Training Site) and WISS (Weapon Impact Scoring System) ranges, is anticipated in the first 3 months of mobilization. Battle Group and Joint Battle Force training support will increase, and simulation support from the Naval Warfare Assessment Laboaratory will focus on actual or predicted combat operations. Weapon and combat system performance in actual combat will be analyzed using existing data reduction capabilities in the Warfare Assessment Laboratory. Trends and results will be used to develop enhanced capabilities to counter enemy tactics or technology.

The general guidelines for the mobilization responsibility of the Naval Warfare Assessment Division are found in OPNAVINST S 3060.1 and the NAVSEA Logistics Support Mobilization Plan.

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

Functional Support Areas which will be supported by the Naval Warfare Assessment Division in the event of mobilization are:

1. **Platforms**
   - **1.1 Undersea**
   - **1.2 Aircraft**
   - **1.3 Surface Ship**
2. **Weapon Systems**
   - **2.1 Gun Systems**
   - **2.2 Guided Missiles**
   - **2.3 Free Fall Weapons and Rockets**
   - **2.5 Mines**
   - **2.8 Launchers**
   - **2.9 Fire Control**
   - **2.10 Weapons Data Links**
   - **2.11 Weapons Fuzing**
   - **2.12 Weapons Propulsion**

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2.13 Other Ordnance

3. Combat System Integration

3.1 Subsurface

3.2 Air

3.3 Surface

3.4 Multiplatform

5. Sensors and Surveillance Systems

5.1 Sonar Systems

5.2 Radar Systems

5.3 Special Sensors

6. Navigation

6.4 Weapon Navigation Systems

7. Command, Control, Communications and Intelligence (C^3I)

7.1 Submarine

7.3 Shipboard

7.4 Land-Based

7.6 Non Tactical Data Systems

8. Defense Systems

8.1 Ballistic Missile Defense

8.2 Countermeasures (CM)

8.3 Electronic Warfare (EW) Systems

9. Strategic Programs

9.1 Navy Strategic Systems

9.2 Nuclear Weapons and Effects

10. General Mission Support

10.1 Personnel Training

10.1.2 Aircraft-Related Training Systems

10.1.3 Ship-Related Training Systems

10.1.4 Weapon Related Training Systems

10.2 Logistics Planning and Implementation

10.7 Major Range Development and Operation

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

None

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

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Military - 4 Officers Civilian - None Contractor - None

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

Yes

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

No

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

None

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

Not Applicable

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

None physically located at the Naval Warfare Assessment Division. All production facilities that we would assist in activation would be in the private sector.

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

Yes. We are the mobilization site for 4 U.S. Army units. These are:
329 Quartermaster Company
806 Postal Service Company
437 Medical Company
91st Division Exercise Brigade

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

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

Naval Warfare Assessment Division (NWAD) operates and maintains the following electronic instrumentation systems, telemetry and data transmission/communication systems for a number of military test ranges.

a. NWAD operates telemetry field stations at:
Naval Station Roosevelt Roads, Puerto Rico
Naval Air Station, Oceana, VA
NATO Allied Missile Firing Installation, Crete, Greece

These field stations are used for the collection, processing and distribution of weapons exercise data from live firings.

b. NWAD operates Satellite Earth Stations located at Roosevelt Roads, Puerto Rico and NWAD, Corona, CA. These stations include telecommunications hardware required to relay telemetry, weapon/combat system, range, target and command/control communication data. Future linkage of other ranges as well as open ocean/open area exercise data/information, is planned for providing the services with a multi-site, "joint exercise" capability utilizing high-speed networks for linkage.

c. NWAD develops, acquires, installs, logistically supports, operates and maintains Navy Tactical Training Range (NTTR) instrumentation systems at the following TACTS/EW (Tactical Air Crew Training System/Electronic Warfare) Ranges:

MAIN SITES

NAS Fallon, NV;
MCAS Yuma, AZ;
NAS Oceana, VA;
MCAS Beaufort, SC;
MCAS Cherry Pt, NC;
NAS Key West, FL;

REMOTE DEBRIEFING SITES

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NAF El Centro, CA;
NAS Miramar, CA;
MCAS El Toro, CA;
NAS Cecil Field, FL;
Lemoore, CA

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d. WISS/STRAFE System Test Range is operated and maintained at the NWAD, Corona, CA main site. This range is used for development, test and evaluation of unique range instrumentation systems as well as calibration of WISS (Weapon Impact Scoring System) that are fielded at all NTTR's.

QUALITY OF LIFE

12. **Military Housing**

Source: Housing Office at March AFB - Mr. Weaver.

(a) Family Housing:

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

No.

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

Type of Quarters	Number of Bedrooms	Total number of units	Number Adequate	Number Substandard	Number Inadequate
Officer	4+	32	25	7	0
Officer	3	50	26	24	0
Officer	1 or 2	25	0	25	0
Enlisted	4+	124	0	124	0
Enlisted	3	319	0	319	0
Enlisted	1 or 2	87	0	87	0
Mobile Homes	UNK	0	0	0	0
Mobile Home lots	N/A	0	0	0	0

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

Facility type/code: **Unknown.**

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What makes it inadequate? **N/A**

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

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

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

Current improvement plans and programmed funding: **N/A**

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

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

Pay Grade	Number of Bedrooms	Number on List[1]	Average Wait
O-6/7/8/9	1	N/A	N/A
	2	N/A	N/A
	3	N/A	N/A
	4+	6	12-18 MO.
O-4/5	1	N/A	N/A
	2	N/A	N/A
	3	19	6-12 MO.
	4+	4	6-9 MO.
O-1/2/3/CWO	1	N/A	N/A
	2	N/A	N/A
	3	14	6-12 MO.
	4+	4	6-9 MO.

[1]As of 31 March 1994.

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E7-E9	1	N/A	N/A
	2	N/A	N/A
	3	7	6-9 MO.
	4+	6	6-9 MO.
E1-E6	1	N/A	N/A
	2	36	6-9 MO.
	3	25	6-9 MO.
	4+	36	6-9 MO.

(5) What do you consider to be the top five factors driving the demand for base housing? **Below.** Does it vary by grade category? **No.** If so provide details.

	Top Five Factors Driving the Demand for Base Housing
1	Economics (Cost of Housing)
2	Proximity to Work
3	Proximity to Schools, Churches, Shopping
4	Proximity to Medical Facilities
5	Security of Area (Crime Rate)

(6) What percent of your family housing units have all the amenities required by "The Facility Planning & Design Guide" (Military Handbook 1190 & Military Handbook 1035-Family Housing)? **Not applicable, family housing is not available on this facility.**

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

Type of Quarters	Utilization Rate
Adequate	98%
Substandard	0
Inadequate	0

(8) As of 31 March 1994, have you experienced much of a change since FY 1993? If so, why? If occupancy is under 98% (or vacancy over 2%), is there a reason? 98% occupancy for the last ten years

98% occupancy for the last 10 years.

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(b) BEQ:

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

Type of Quarters	Utilization Rate
Adequate	98%
Substandard	0
Inadequate	0

(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? **98% for the past ten years.**

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

AOB = (# Geographic Bachelors x average number of days in barracks) 365

There are 1114 dorm spaces which are kept 95% full = 1005.4

(4) Indicate in the following chart the percentage of geographic bachelors (GB) by category of reasons for family separation. Provide comments as necessary. According to military personnel the Freedom of Information Act requires a request for this information which will be fulfilled within ten days.

Reason for Separation from Family	Number of GB	Percent of GB	Comments
Family Commitments (children in school, financial, etc.)	**N/A**		**No Geographic Bachelors at NWAD**
Spouse Employment (non-military)	**N/A**		**No Geographic Bachelors at NWAD**
Other	**N/A**		**No Geographic Bachelors at NWAD**
TOTAL	**N/A**	100	

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UIC____64267____

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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

ACTIVITY COMMANDER

Edward G. Schwier
NAME (Please type or print)

Signature

Commanding Officer
Title

15 July 1994
Date

Naval Warfare Assessment Division
Activity

Data Call #5 - Correction

NWAD CORONA - DC 5 CLARIFICATION

R

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

name
date

NEXT ECHELON LEVEL (if applicable)

R. SUTTON, RADM, USN
NAME (Please type or print)

Signature

COMMANDER
Title

9/28/94
Date

NAVAL ORDNANCE CENTER
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

NAME (Please type or print)

Signature

G. R. STERNER
Title Commander
Naval Sea Systems Command

9/28/94
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)

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

Signature

ACTING
Title

12 OCT 1994
Date

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ACTIVITY COMMANDER

Edward G. Schwier
NAME (Please type or print)

Edward G Schwier
Signature

Commanding Officer
Title

16 September 1994
Date

Naval Warfare Assessment Division
Activity

DATA CALL 5 CLARIFICATION

NWAD Corona Data Call 5 correction

121
122
123

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

NEXT ECHELON LEVEL (if applicable)

R. SUTTON, RADM, USN
NAME (Please type or print)

Signature

COMMANDER
Title

9/14/94
Date

NAVAL ORDNANCE CENTER
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

G. R. STERNER
NAME (Please type or print)

Signature

Commander
Title

9-22-94
Date

Naval Sea Systems Command
Activity

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

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

NAME (Please type or print)

Signature

Title

10/1/94
Date

BRAC-95 CERTIFICATION

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

ACTIVITY COMMANDER

Edward G. Schwier	E. G. Schwier
NAME (Please type or print)	Signature
Commanding Officer	9-1-94
Title	Date
Naval Warfare Assessment Division	
Activity	

Data Call 5 correction

NWAD Corona Data Call 5 correction

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

NEXT ECHELON LEVEL (if applicable)

R. SUTTON, RADM, USN
NAME (Please type or print)

Signature

COMMANDER
Title

9/14/94
Date

NAVAL ORDNANCE CENTER
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

NAME (Please type or print)

Signature

G. R. STERNER
Commander
Naval Sea Systems Command
Title

9-22-94
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)

NAME (Please type or print)

Signature

Title

10/1/94
Date

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

ACTIVITY COMMANDER

Edward G. Schwier
NAME (Please type or print)

Signature

Commanding Officer
Title

26 August 1994
Date

Naval Warfare Assessment Division
Activity

Data Call 5 correction

BRAC-95 CERTIFICATION

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

ACTIVITY COMMANDER

Edward G. Schwier
NAME (Please type or print)

Edward G. Schwier
Signature

Commanding Officer
Title

16 September 1994
Date

Naval Warfare Assessment Division
Activity

DATA CALL 5 CLARIFICATION

NWAD CORONA DATA CALL 5 CORRECTION

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

NEXT ECHELON LEVEL (if applicable)

R. SUTTON, RADM, USN
NAME (Please type or print)

Signature

COMMANDER
Title

26 OCT 94
Date

NAVAL ORDNANCE CENTER
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

NAME (Please type or print)
G. R. STERNER
Commander
Naval Sea Systems Command

Signature

10-26-94
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)

Signature

Title

11/1/94
Date

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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

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

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

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

ACTIVITY COMMANDER

Edward G. Schwier
NAME (Please type or print)

Signature

Commanding Officer
Title

7 October 1994
Date

Naval Warfare Assessment Division
Activity

DATA CALL 5 CORRECTION

(5) How many geographic bachelors do not live on base? According to military personnel the Freedom of Information Act requires a request for this information which will be fulfilled within ten days. **None. All NWAD military personnel live in civilian housing.**

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(c) BOQ:

Note: (1)-(5) Not Applicable. No BOQs at this facility.

(1) Provide the utilization rate for BOQs for FY 1993. **Not Applicable.**

Type of Quarters	Utilization Rate
Adequate	**N/A**
Substandard	**N/A**
Inadequate	**N/A**

(2) As of 31 March 1994, have you experienced much of a change since FY 1993? If so, why? If occupancy is under 95% (or vacancy over 5%), is there a reason? **N/A**

(3) Calculate the Average on Board (AOB) for geographic bachelors as follows: **N/A**

AOB = (# Geographic Bachelors x average number of days in barracks) 365

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

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

(5) How many geographic bachelors do not live on base? **None. All military live in civilian housing.**

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R

(d) BOQ/BEQ Housing and Messing.

Not applicable, neither available at this facility. However, at BSAT request data below is provided listing current BEQ capabilities at March Air Force Base (20 mi., 30 min., away). (R

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

Facility Type, Bldg. # & CCN	Total No. of Beds	Total No. of Rooms	Adequate		Substandard		Inadequate	
			Beds	Sq Ft	Beds	Sq Ft	Beds	Sq Ft
456 E-1 thru E-4	102	86	102					
456 E-5 thru E-6	7	7	7					
1054 E-2	12	6	12	2,160				
1054 E-3	73	61	73	13,140				
1054 E-4	36	36	36	6,480				
1054 E-5	7	7	7	1,260				
940 E-1 thru E-4	64	64	64	11,264				
940 E-5 thru E-6	4	4	4	704				
940 E-7 thru E-9	5	5	5	880				
311 E-1 thru E-4	232	116	232	23,200				
311 E-5 thru E-6	116	116	116	23,200				

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Facility Type, Bldg. # & CCN	Total No. of Beds	Total No. of Rooms	Adequate		Substandard		Inadequate	
			Beds	Sq Ft	Beds	Sq Ft	Beds	Sq Ft
976 E-1 thru E-4	146	115	115	3,806				
877 E-1 thru E-4	140	64	140	13,266				
877 E-5 thru E-9	6	6	6	1,188				
400 E-1 thru E-4	132	66	104	13,867				
400 E-5 thru E-6	4	2	2	420				
400 E-7 thru E-9	2	1					1	210 see note 1
400 UNCOQ Dorm E-1 thru E-4	12	12	12	1,620				
400 UNCOQ Dorm E-5 thru E-6	28	28	28	3,780				
400 UNCOQ Dorm E-7 thru E-9	4	4					4	540 see note 2
1054 UNCOQ E-7 thru E-9	4	4	4	1440				

Note 1 : Bldg 400.
Rooms in this dorm for E-7 thru E-9 inadequate due to standard required for square feet and semi-private bathrooms.

Note 2: Bldg 400 UNCOQ Dorm.
Rooms in this dorm for E-7 thru E-9 inadequate due to standard

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required for square feet and semi-private bathroom.

(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: **BEQ**
b. WHAT MAKES IT INADEQUATE? **Rooms in this dorm for E-7 thru E-9 inadequate due to standard required for square feet and semi-private bathrooms.**
c. WHAT USE IS BEING MADE OF THE FACILITY? **Active BEQ**
d. WHAT IS THE COST TO UPGRADE THE FACILITY TO SUBSTANDARD? **N/A**
e. WHAT OTHER USE COULD BE MADE OF THE FACILITY AND AT WHAT COST? **N/A**
f. CURRENT IMPROVEMENT PLANS AND PROGRAMMED FUNDING: N/A
g. HAS THIS FACILITY CONDITION RESULTED IN C3 OR C4 DESIGNATION ON YOUR BASEREP? **N/A**

(3) Provide data on the BQQs and BEQs projected to be assigned to your plant account in FY1997. The desired unit of measure for this capacity is people housed. Use CCN to differentiate between pay grades, i.e., E1-E4, E5-E6, E7-E9, CWO-O2, O3 and above. **N/A**

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(d) BOQ/BEQ Housing and Messing.

Not applicable, neither available at this facility.

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

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

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

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

(3) Provide data on the BOQs and BEQs projected to be assigned to your plant account in FY1997. 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.

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

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

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

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

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

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

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

(7) Provide data on the messing facilities projected to be assigned to your plant account in FY 1997.

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

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

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

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

LOCATION NWAD **DISTANCE** ON BASE

Facility	Unit of Measure	Total	Profitable (Y,N,N/A)
Auto Hobby	Indoor Bays		
	Outdoor Bays		
Arts/Crafts	SF	200	N/A
Wood Hobby	SF		
Bowling	Lanes		
Enlisted Club	SF		
Officer's Club	SF		
Library	SF		
Library	Books		
Theater	Seats		
ITT	SF	76	Y
Museum/Memorial	SF		
Pool (indoor)	Lanes		
Pool (outdoor)	Lanes		
Beach	LF		
Swimming Ponds	Each		
Tennis CT	Each	4	N/A

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

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Facility	Unit of Measure	Total	Profitable (Y,N,N/A)
Volleyball CT (outdoor)	Each	1	N/A
Basketball CT (outdoor)	Each	1	N/A
Racquetball CT	Each		
Golf Course	Holes		
Driving Range	Tee Boxes		
Gymnasium	SF		
Fitness Center	SF	1000	N/A
Marina	Berths	6	N/A
Stables	Stalls		
Softball Fld	Each	1	N/A
Football Fld	Each		
Soccer Fld	Each		
Youth Center	SF		
ADDITIONAL MWR FACILITIES	**AT**		**NWAD**
CAMPING FACILITIES	SF	30k	N/A
FISHING	ACRES	52	N/A
RV PARKING	SPACES	55	Y
CONFERENCE CENTER RENTAL	SF	7678	Y
JOGGING/WALKING PATHS	MI	5	N/A
BIKE PATHS	MI	5	N/A

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MWR SPONSORED ACTIVITIES:

1. ARTS AND CRAFTS CLASSES/SHOWS
2. RACQUETBALL (SHARE W/NORCO POLICE AT NORCO COMMUNITY CENTER 0.5 MILES FROM NWAD)
3. GOLF COURSE (JURUPA HILLS - 7 MILES FROM NWAD)
4. DRIVING RANGE (1.2 MILES FROM NWAD)
5. FITNESS ACTIVITIES:
   a. TAE KWAN DO
   b. JOGGING
   c. BIKING
6. FITNESS FOR LIFE PICNIC W/TEAM ACTIVITIES IN THE FOLLOWING EVENTS:

a. BOWLING
b. DARTS
c. BICYCLING
d. BASKETBALL
e. PING PONG
f. PADDLEBOATS
g. GOLF
h. WALKING
i. RUNNING
j. VOLLEYBALL
k. SOFTBALL

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

N/A

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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. Not applicable; on-site child care facilities are not available.

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

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

N/A

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

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

Although this command does not have a waiting list, <u>availability of facilities in the area is coordinated</u>.

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

There are 4200 certified homecare providers in the Riverside and San Bernardino counties, where the majority of NWAD personnel live.

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).

March Air Force Base operates a child care facility with a capacity of 132 children, 6 months - 5 years.

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

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

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

Source: Southern California's Inland Empire Resource Guide published by the Inland Empire Coalition of Riverside and San Bernardino Counties.
Note: Entries in the first chart are comprised of same "Letter" entries in the second chart.

City	Distance (Miles)
Greater Riverside Area (A)	20
Greater San Bernardino Area (B)	28
West San Bernardino Area (C)	12
North Orange County Area (D)	22

CITY	COUNTY	DISTANCE FROM BASE (MILES)
Riverside (A)	Riverside	16
Moreno Valley (A)	Riverside	23
Corona/Norco	Riverside	6
Ontario (C)	San Bernardino	10
Fontana (B)	San Bernardino	16
Rancho Cucamonga (B)	San Bernardino	26
San Bernardino (B)	San Bernardino	26
Pomona (C)	Los Angeles	35
Anaheim (D)	Orange	20
Santa Ana (D)	Orange	26
Fullerton (D)	Orange	22

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16. **Standard Rate VHA Data for Cost of Living:** Riverside, CA

Paygrade	With Dependents	Without Dependents
E1	191.00	106.87
E2	191.00	120.11
E3	194.24	134.38
E4	195.04	136.16
E5	228.83	159.77
E6	241.20	168.28
E7	273.78	190.19
E8	341.58	208.23
E9	386.79	255.28
W1	231.42	191.25
W2	248.74	194.73
W3	274.42	222.75
W4	283.58	233.70
O1E	124.61	166.61
O2E	195.52	188.59
O3E	231.33	195.71
O1	193.91	142.89
O2	207.88	162.49
O3	221.07	167.29
O4	234.72	204.11
O5	247.16	204.40
O6	232.06	192.08
O7	228.27	185.47

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

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

Type Rental	Average Monthly Rent		Average Monthly Utilities Cost
	Annual High	Annual Low	
Efficiency	**550**	**375**	**35/40**
Apartment (1-2 Bedroom)	**600**	**385**	**45/55**
Apartment (3+ Bedroom)	**595**	**500**	**65/75**
Single Family Home (3 Bedroom)	**700**	**650**	**120-140**
Single Family Home (4+ Bedroom)	**800**	**725**	**130-150**
Town House (2 Bedroom)	**550**	**380**	**65/75**
Town House (3+ Bedroom)	**675**	**650**	**120-150**
Condominium (2 Bedroom)	**650**	**500**	**65/75**
Condominium (3+ Bedroom)	**900**	**695**	**120-150**

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

Type Rental	Percent Occupancy Rate
Efficiency	**78%***
Apartment (1-2 Bedroom)	**78%**
Apartment (3+ Bedroom)	**78%**
Single Family Home (3 Bedroom)	**78%**
Single Family Home (4+ Bedroom)	**78%**
Town House (2 Bedroom)	**78%**
Town House (3+ Bedroom)	**78%**
Condominium (2 Bedroom)	**78%**

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Condominium (3+ Bedroom)	**78%**

***Source: L.A. Times Jan 1, 93. Overall home occupancy rate for 1992 was 78% - Latest data available. Considering the flat housing market in So. Calif, this number remains valid for this time frame.**

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

Type of Home	Median Cost
Single Family Home (3 Bedroom)	**$129K**
Single Family Home (4+ Bedroom)	**$140K**
Town House (2 Bedroom)	**$ 97K**
Town House (3+ Bedroom)	**$105K**
Condominium (2 Bedroom)	**$95K**
Condominium (3+ Bedroom)	**$105K**

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

Month	Number of Bedrooms		
	2	3	4+
January	**320***	**700***	**250***
February	**320**	**700**	**250**
March	**320**	**700**	**250**
April	**320**	**700**	**250**
May	**320**	**700**	**250**
June	**320**	**700**	**250**
July	**320**	**700**	**250**
August	**320**	**700**	**250**

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September	320	700	250
October	320	700	250
November	320	700	250
December	320	700	250

***Source: Board of Realtors MLS May '94 Brite Star Realty - Figures derived from MLS listing. The housing market has been stable for the last 12 months. The number of homes available are based on listings up to $120k range, with the addition of a mortgage certificate. 90-110% of an E5 VAQ & VHA for this area is $580-$710.**

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

Cost drivers have shifted dramatically in the past two years. There exists a large number of foreclosures keeping costs in a decline. Also, the exit of Norton AFB, March AFB, and GD (now Hughes) in Pomona, CA with the downsizing of the defense industry in Southern California has caused real estate prices to continue to decline.

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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
Fire Control Technician	**0**	**1**

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

Location	% Employees	Distance (mi)	Time(min)
Riverside	31	16	20
Corona	18	5	10
Norco	10	3	7
Moreno Valley	21	23	38
Anaheim	4	20	30

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

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

NOTE: Not all data available **SOURCE: Inland Empire Resources**

Institution	Type	Grade Level(s)	Special Education Available	Annual Enrollment Cost per Student	1993 Avg SAT/ ACT Score	% HS Grad to Higher Educ	Source of Info
(RIVERSIDE PRESCHOOLS, PRIVATE & PAROCHIAL)							
Arlington Christian School	Ext Day Care						
Azure Hills Children's Center							
Bethel Christian		Pre & K					
Bright Beginnings	Pre & Ext	6 wks - 12 yrs					
Casa Blanca Head Start							
Casa Blance	Pre						
Child Dev Center	Ext	1-12 yrs					
Children's Center of Riverside							

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Children's Discovery Center							
Children's World Learning Center							
Christian Schools Riverside	Pre & K						
University Children's Center	Pre & Ext	2-10 yrs					
Learning Bee	Pre-1 gd	2-10 yrs					
Rhyme & Reason	Pre	6 wks - 3 yrs					
Kiddie Kollege	Pre, K, & Ext	2-12 yrs		$75 a week			
Riverside School	Pre	2-4 yrs					
Happyland	Pre-2nd gd & Ext	2-12 yrs					
Mag Child Dev Center	Pre/ K & Ext	6 wks - 6 yrs					
My Little School House	Pre/ Ext	2-10 yrs					
Hawaraden Hills Academy	K-6 th gd	3-12 yrs					
La Petite Academy	Pre/ Ext	1.5-12 yrs		$94 a week			
Early Childhood Schools	Pre-3 rd gd	2-10 yrs					

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Sierra Children's Center	Pre/ Ext	2-10 yrs					
Magnolia Ave Baptist Children Center	Pre/ Ext	2-10 yrs					
Montessori Academy	K-2nd gd	2-7 yrs					
Kids of America Montessori	Pre-4 th gd	6 wks - 4th gd					
Mary's Tot Top	Ext	2-6 yrs					
Kids Academy	Pre/ Ext						
Kinder Care	Pre/ Ext	6 wks-12 yrs		$70 a week			
Montessory Children's House	Pre-8 th gd	2-12 yrs					
Joyful Noise	Pre/ Ext	2-6 yrs					
Growing Place	Pre/ Ext	3-8 yrs					
Gymboree of Riverside							
Happyland Pre School							
Immanuel Lutheran Church	Pre-6 th gd	3-12 yrs					
Riverside Christian Day School	K-6 th gd	5-12 yrs					
Woodcrest Christian School	Paroc	7th-12th gd					

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Riverside Christian School							
Riverside Community Nursery	Paren t Co-Op	3-6 yrs					
Son Shine Christian Pre-School							
Woodcrest Daycare							
Lovett's Children	Pre/ Ext	18mons-10 yrs					
La Sierra Academy	Paroc	K-12th gd					
Child Develop Center-La Sierra University							
Learning Bee							
Frontier Village	Pre-1 st gd	Infants - 6 yrs					
Christian Heritage	HM Schl	K-12th gd					
Garden School	Priv	K-6th gd					
George Phelps School	Priv	K-6th gd					
Queen Of Angels	Paroc	K-8th gd					
Notre Dame	Paroc	9-12 yrs					
Calvary Presbyterian	Pre	6mons-5yrs		$368 a month			
St. Thomas School	Paroc	K-8th gd					

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(CORONA PRESCHOOLS/ PRIVATE)							
Town & Country Day School	Pre-K						
Kiddie Kollege	Pre/ Ext						
Marygrove Montessori		2-12 yrs					
Kinder Care	Pre/ Ext	6 wks-12 yrs		$45 a week			
Children's World Learning Center	Pre,K - Ext						
Magnolia Child Develop Center	Pre/ Ext	6 wks-6 yrs					
Montessori School of Pai Plaza	Pre,K -Ext	2-6 yrs					
Crossroads Christian School	Pre-6 th gd	3-12 yrs					
Red Rocking Horse	Pre/ Ext	2-5 yrs					
First Impressions	Pre/ Ext	2-7 yrs					
Bethany Child Care Center	Pre	2-5 yrs					
Circle City Nursery School	Pre	3-5 yrs					
Corona Christian Schools	Paroc	Pre-12th gd					

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Corona Community Christian Child Care	Pre/ Ext	5-12 yrs					
Crossroads Christian Schools	Pre/ Ext	3-12 yrs					
Agape Christian Schools	Paroc	K-6th gd					
Christian Heritage	Indep	K- 12th gd					
(RANCHO CUCAMONGA/ ALTA LOMA/ ONTARIO)							
Little People & Co							
Cookie Land Pre-School	Pre/ Ext	2-12 yrs					
Kids' Garden	Pre/ Ext	6 wks - 12 yrs					
Alta Loma Christian Child Development Ctr	Pre	2-5 yrs					
Bethany Christian Pre-School							
Bright Beginnings	Pre/ Ext	1-6 yrs					
Calvary Baptist School	Pre	2-5 yrs					
Calvary Christian Preschool	Pre	2-5 yrs					

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Calvary Kiddy Kingdom							
Campus Kids	Pre/ Ext	6 wks- 10 yrs					
Cheryl's Family Day Center	Pre/ Ext	0-10 yrs					
Children's Univ		3-8th gd					
Children's World Learning Center							
Christ Lutheran Church	Pre	2-5 yrs					
Claremont Montessori							
Conley School							
Cornerstone Christian		K-6th gd					
Countrywood Elementary							
Creative Day Care	Pre/ Ext	2-7th gd					
Creative Kids	Pre/ Ext	0-10 yrs					
Cross & Crown Lutheran	Pre	2-5 yrs					
Echos & Faith	Pre/ Ext	K-6th gd					
Early Childhood School	Pre/ Ext	2-3rd gd					
Tender Care	Pre/ Ext	6 wks- 12 yrs					

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First Baptist Church	Pre/ Ext	6 wks - 12 yrs					
First Presbyterian Church	Pre/ Ext	3-5 yrs					
First Steps	Pre	2-6 yrs					
Ontario Methodist	Pre	2-5 yrs					
Happyland Pre & Christian Elementary							
Headstart Preschool							
Montessori							
Mountain Ave	Pre/ Ext						
Pebblestone Christian							
Highland Christian	Paroc	1-6th gd					
Indian Hills Child Care	Pre	2-5 yrs					
Kiddie Korner	Pre	2-5 yrs					
Kinderkare Learning Center							
Little People &Co							
Little Promises		K-4th					
Old SchoolHouse Pre & Day Care	Pre/ Ext	2 yrs - 4th gd					
Peter Piper Pre-School							
Prince of Peace Lutheran	Pre	2-5 yrs					

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Ninth Street Christian	Paroc	K-8th gd					
Ontario Christian Elementary	Paroc	K-8th gd					
Redeemer Lutheran	Paroc	K-8th gd					
St. George School	Paroc	K-8th gd					
Ontario Christian High School	Paroc	9-12th gd					
(FONTANA PRESCHOOL/ PRIVATE)							
Weekday Nursery School	Pre	2-5 yrs		$65 a week			
Bright Beginnings	Pre	6 wks-12 yrs		$117 a week			
First ABC Parent Participation							
First Luthern	Pre	2-5 yrs		$70 a week			
Fontana Christian School	Pre-6 th gd	2-12 yrs		$70 a week			
Mother Goose Manor	Pre/ Ext	6 wks - 12 yrs		$75 a week			
Mountain View Christian		1.5-5 yrs		$70 a week			
Highland Montessori	Pre/ Ext	2-7 yrs		$63 a week			

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(RIVERSIDE UNIFIED SCHOOL DISTRICT)							
(ELEMENTARY SCHOOLS, K-6TH GRADE)							
Adams							
Alcott							
Bryant							
Castleview							
Emerson							
Franklin							
Fremont							
Grant							
Harrison							
Hawthorne							
Highgrove							
Hyatt							
Jefferson							
Liberty							
Longfell							
Madison							
Magnolia							
Monroe							
Mt. View							
Pachappa							
Taft							

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Victoria							
Washington							
Woodcrest							
Sunshine							
(MIDDLE SCHOOLS, 7-8TH GRADE)							
Central							
Gage							
Sierra							
University							
(HIGH SCHOOLS 9-12TH GRADE)							
Adult Alternative							
Arlington Continuation							
North					904		
Poly					951		
Ramona							
California School for the Deaf		Pre-12th grade		State Funded			
(ALVORD UNIFIED SCHOOL DISTRICT)							
(ELEMENTARY, K-6TH GRADE)							
Arlanza							

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Collett							
Foothill							
La Granada							
McAuliffe							
Myra Linn							
Orenma							
Promenade							
Terrace							
Twinhill							
Valley View							
(INTERMEDIATE 7-8TH GRADE)							
Arizona							
Loma Vista							
Wells							
(HIGH SCHOOL, 9-12TH GRADE)							
La Sierra					796		
Alvord (Continuation)							
Norte Vista					833		
(JURUPA UNIFIED SCHOOL DISTRICT)							
(ELEMENTARY, K-6TH GRADE)							

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Granite Hill							
Camino Real							
Glen Avon							
Glen Avon South							
Ina Arbuckle							
Ina Arbuckle East							
Indian Hills							
Mission Bell							
Pacific Avenue							
Pedley Elementary							
Rustic Lane							
Sky Country							
Sunnyslope							
Troth Street							
Van Buren							
West Riverside							
West Riverside							
(MIDDLE SCHOOLS, 7 - 8TH GRADE)							
Jurupa Middle							
Jurupa Middle School West							
Mission							
(HIGH SCHOOLS, 9 - 12TH GRADE)							
Jurupa Valley					775		

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Nueva Vista	Cont						
Rubidoux					756	45%	Office
CORONA/ NORCO UNIFIED SCHOOL DISTRICT							
(ELEMENTARY SCHOOLS, K - 6TH GRADE)							
Adams							
Coronita							
El Cerrito							
Foothill							
Garretson							
Highland							
Home Gardens							
Jefferson							
Lincoln Alternative							
McKinley							
Norco							
Parkridge							
Prado View							
Riverview							
Sierra Vista							
Vicentia							

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Victress Bowers			Handicap				
Washington							
(INTERMEDIATE SCHOOLS, 7 - 8TH GRADE)							
Auburndale							
Corona Fundamental							
Norco							
Raney							
(HIGH SCHOOLS, 9 - 12TH GRADE)							
Corona							
Buena Vista	Cont						
Horizon	Cont						
Norco							
Centennial							
RIALTO SCHOOLS							
(ELEMENTARY SCHOOLS, K - 6TH GRADE)							
Bennis							
Boyd							
Casey							
Dollahan							
Dunn							

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Henry							
Highbanks							
Kelley							
Morgan							
Myers							
Preston							
Simpson							
Trapp							
(MIDDLE SCHOOLS, 7 - 8TH GRADE)							
Frisbie							
Kolb							
Rialto							
(HIGH SCHOOLS, 9 - 12TH GRADE)							
Eisenhower							
Milar	Cont Day						
Adult Education School	Eve						
Vocational Education	Day						
Rialto							
FONTANA SCHOOLS							

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(ELEMENTARY SCHOOLS, K - 5TH GRADE)							
Canyon Crest							
Chaparral							
Cypress							
Juniper							
Jurupa Hills							
Live Oak							
Locust							
Mango							
Maple							
North Tamarind							
Oak Park							
Oleander							
Palmetto							
Poplar							
Randall-Pepper							
Redwood							
Shadow Hills							
South Tamarind							
Tokay							
Virginia Primrose							
West Randall							
(INTERMEDIATE SCHOOLS, 6 - 8TH GRADE)							

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Alder							
Almeria							
Fontana							
Sequoia							
Southridge							
(HIGH SCHOOLS, 9 - 12TH GRADE)							
A B Miller							
Citrus	Adult Ed, Day						
Eric Birth Continuation	Day						
Fontana Adult							
Fontana							
Adult School	Eve						
ONTARIO-MONTCLAIR SCHOOL DISTRICT							
(ELEMENTARY SCHOOLS)							
Arroyo							
Berlyn							
Bon View							
Buena Vista							
Central							

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Corona							
Del Norte							
Edison							
Elderberry							
Euclid							
Francis							
Kingsley							
Linda Vista							
Lincoln							
Mariposa							
Sultana							
Vineyard							
(MIDDLE SCHOOLS)							
De Anza							
Imperial							
Vina Danks							
ALTA LOMA SCHOOL DISTRICT							
Alta Loma Elementary							
Alta Loma Junior High							
Carnelian							
Deer Canyon							
Floyd Stork							

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Hermosa							
Jasper							
CENTRAL SCHOOL DISTRICT							
(ELEMENTARY SCHOOLS)							
Bear Gulch							
Central							
Coyote Canyon							
Dona Merced							
Valle Vista							
(MIDDLE SCHOOLS)							
Cucamonga							
Ruth Musser							
(HIGH SCHOOLS)							
Chaffey Joint Union High School							
Alta Loma							
Ontario							
Valley View							
Chaffey							
Etiwanda							
Rancho Cucamonga							

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Montclair							

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CHINO UNIFIED SCHOOL DISTRICT							
(ELEMENTARY SCHOOLS)							
Dickey							
Countrywood							
Cucamonga							
ETIWANDA SCHOOL DISTRICT							
(ELEMENTARY SCHOOLS)							
Caryn							
Summit							
West Heritage							
Windrows							
VOCATIONAL SCHOOLS, RANCHO CUCAMONGA/ ONTARIO							
Northwest College Medical/Dental Assistants							
Skardon Campus							
International Air Academy							

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Westech Collage							
American Nanny College							
MTI							
Nova Institute of Health Tech							
Sawyer College							
VOCATIONAL SCHOOLS, RIVERSIDE/ CORONA							
Anthony Schools							
Calif Paramedical & Technical College							
Calif School of Court Reporting							
Calif Southern Law School							
Canterbury Career School							
Contractors State License School							
Cooper & Cooper Training for Paralegals							
Dog Groomer School							
ABC Bartending College							

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S. Calif School of Massage							
Optical School of S. Calif							

(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.

(b) ("X" = Yes)

Institution	Type Classes	Program Type(s)				
		Adult High School	Vocational Technical	Undergraduate		Graduate
				Courses only	Degree Program	
Cal Baptist College	Day			X	X	X
	Night			X		
Loma Linda University	Day			X	X	X
	Night			X		
RCC	Day		X	X	* X	
	Night		X	X		
UC Riverside	Day			X	X	X
	Night			X		
Cal State SB	Day			X	X	X
	Night			X		
Cal Poly Pomona	Day			X	X	X
	Night			X	X	

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National University	Day		X	X	X	X
	Night		X	X	X	X
Crafton Hills College	Day					
	Night			X		
SB Valley	Day		X	X	* X	
	Night		X	X		
Univ of Redlands	Day			X	X	X
	Night			X		
Chaffey College	Day		X	X	X	
	Night		X	X		
Mt San Jacinto	Day		X	X	X	
	Night		X	X		

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Institution	Type Classes	Program Type(s)				
		Adult High School	Vocational Technical	Undergraduate		Graduate
				Courses only	Degree Program	
Claremont Colleges-6 colleges	Day			X	X	X
	Night			X		
Ctr of Emp Training	Day		X			
	Night		X			
College of Osteopath Medicine	Day			X	X	X
	Night					
Cont St License	Day		X	X		
	Night		X	X		
Golden State	Day					
	Night					X
ITT Technical	Day		X			
	Night		X			
MTI Col/NATS	Day		X			
	Night		X			
Alvord District	Day					
	Night	X				
Ramona	Day	X				
	Night	X				
Corona	Day	X				
	Night	X				

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Corona/ Norco Dist	Day					
	Night	X				
Elsinore Union	Day	X				
	Night					
Moreno Valley	Day					
	Night	X				

* Associate Degree Only

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

Institution	Type Classes	Program Type(s)				
		Adult High School	Vocational/ Technical	Undergraduate		Graduate
				Courses only	Degree Program	
California State University, Dominguez Hills	Day					X
	Night					X
	Corres-pondence					
California State University, Fullerton	Day					
	Night					X
	Corres-pondence					
University of California Extension, Riverside	Day					
	Night			Certificate		
	Corres-pondence					

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Various	Day					
	Night					
	Corres-pondence		X	X		

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21. **Spousal Employment Opportunities.**

Comments: Subject services are not available at NWAD. However, this activity is located in the Inland Valley and within 45 miles of 15 cities including Los Angeles that have populations of 100,000 or more. Included within this distance are four country seats of government, major state and federal complexes, and several major defense installations. With the large population, there is a significant infrastructure of colleges, schools, supporting service industries, manufacturing and distribution companies, etc., which provide a number of job opportunities for spouses.

Provide the following data on spousal employment opportunities.

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

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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.

Personnel have no difficulty with access to medical or dental care. Local support is provided through the March AFB dispensary/clinic. Assigned military personnel live in various areas of Southern California, one as far away as 85 miles, and support tends to be provided by medical facilities near their residence vice near NWAD.

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.

Personnel have no difficulty with access to medical or dental care. Local support is provided through the March AFB dispensary/clinic. Assigned military personnel live in various areas of Southern California, one as far away as 85 miles, and support tends to be provided by medical facilities near their residence vice near NWAD.

NAVAL WARFARE ASSESSMENT DIVISION, CLARIFICATION TO
BASE REALIGNMENT AND CLOSURE DATA CALL NUMBER 5 (WITH CERTIFICATION),
15 SEPTEMBER 1994

CLARIFICATION FOR NWADIV DATA CALL #5, QUESTION 23:

NWADIV responds to clarification for Data Call #5, Question 23 as follows:

a. Violent Crime in Norco, CA
147 total violent crimes, out of 24,168 total population

= 608 per 100,000 rate

b. Property Crime in Norco, CA
1,064 total property crimes out of 24,168 total population

= 4,403 per 100,000 rate

c. Drug Crime in Norco, CA
160 total drug crimes out of 24,168 total population

= 662 per 100,000 rate

Source: "Crime in the U.S.," 1992, U.S. Department of Justice/FBI
Uniform Crime Reports

Encl (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.

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

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

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Crime Definitions	FY 1991	FY 1992	FY 1993
9. Larceny - Personal (6T)	0	0	0
Base Personnel - military	0	0	0
Base Personnel - civilian	0	0	0
Off Base Personnel - military	0	0	0
Off Base Personnel - civilian	0	0	0
10. Wrongful Destruction (6U)	0	0	0
Base Personnel - military	0	0	0
Base Personnel - civilian	3	0	0
Off Base Personnel - military	0	0	0
Off Base Personnel - civilian	0	0	0
11. Larceny - Vehicle (6V)	0	0	0
Base Personnel - military	0	0	0
Base Personnel - civilian	0	0	1
Off Base Personnel - military	0	0	0
Off Base Personnel - civilian	0	0	3
12. Bomb Threat (7B)	0	0	0
Base Personnel - military	0	0	0
Base Personnel - civilian	0	0	0
Off Base Personnel - military	0	0	0
Off Base Personnel - civilian	0	0	0

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

121R 9/1/94

JL
SEA 09X
9/22/94

K

Crime Definitions	FY 1991	FY 1992	FY 1993
18. Narcotics (7N)	0	0	0
Base Personnel - military	0	0	0
Base Personnel - civilian	2	0	0
Off Base Personnel - military	0	0	0
Off Base Personnel - civilian	0	0	0
19. Perjury (7P)	0	0	0
Base Personnel - military	0	0	0
Base Personnel - civilian	0	0	0
Off Base Personnel - military	0	0	0
Off Base Personnel - civilian	0	0	0
20. Robbery (7R)	0	0	0
Base Personnel - military	0	0	0
Base Personnel - civilian	0	0	0
Off Base Personnel - military	0	0	0
Off Base Personnel - civilian	0	0	0
21. Traffic Accident (7T)	0	0	0
Base Personnel - military	0	0	0
Base Personnel - civilian	4	5	1
Off Base Personnel - military	0	0	0
Off Base Personnel - civilian	0	2	0

122 R 9/1/94

JL
SEA CPX
9/22/94

Crime Definitions	FY 1991	FY 1992	FY 1993
22. Sex Abuse - Child (8B)	0	0	0
Base Personnel - military	0	0	0
Base Personnel - civilian	0	0	0
Off Base Personnel - military	0	0	0
Off Base Personnel - civilian	0	0	0
23. Indecent Assault (8D)	0	0	0
Base Personnel - military	0	0	0
Base Personnel - civilian	0	0	0
Off Base Personnel - military	0	0	0
Off Base Personnel - civilian	0	0	0
24. Rape (8F)	0	0	0
Base Personnel - military	0	0	0
Base Personnel - civilian	0	0	0
Off Base Personnel - military	0	0	0
Off Base Personnel - civilian	0	0	0
25. Sodomy (8G)	0	0	0
Base Personnel - military	0	0	0
Base Personnel - civilian	0	0	0
Off Base Personnel - military	0	0	0
Off Base Personnel - civilian	0	0	0

NWAD Corona - DC 5 Correction
UIC 64267

715

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

NEXT ECHELON LEVEL (if applicable)

R. SUTTON, RADM, USN
NAME (Please type or print)

Signature

COMMANDER
Title

18 JUL 94
Date

NAVAL ORDNANCE CENTER
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

G. R. STERNER
NAME (Please type or print)

Signature

7-19-94
Date

Title Commander
Naval Sea Systems Command

Activity

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

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

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

Signature

8/9/94
Date

Title

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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

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

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

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

ACTIVITY COMMANDER

Edward G. Schwier
NAME (Please type or print)

Edward G. Schwier
Signature

Commanding Officer
Title

15 July 1994
Date

Naval Warfare Assessment Division
Activity

Data Call #5 - Correction

NWAD CORONA - DC 5 CLARIFICATION

R

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

Name
Date

NEXT ECHELON LEVEL (if applicable)

R. SUTTON, RADM, USN
NAME (Please type or print)

Signature

COMMANDER
Title

9/28/94
Date

NAVAL ORDNANCE CENTER
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

NAME (Please type or print)

Signature

G. R. STERNER

9/28/94

Title Commander
Naval Sea Systems Command

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)

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

Signature

ACTING
Title

12 OCT 1994
Date

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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

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

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

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

ACTIVITY COMMANDER

Edward G. Schwier
NAME (Please type or print)

Edward G Schwier
Signature

Commanding Officer
Title

16 September 1994
Date

Naval Warfare Assessment Division
Activity

DATA CALL 5 CLARIFICATION

NWAD Corona Data Call 5 correction

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

NEXT ECHELON LEVEL (if applicable)

R. SUTTON, RADM, USN
NAME (Please type or print)

Signature

COMMANDER
Title

9/14/94
Date

NAVAL ORDNANCE CENTER
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

G. R. STERNER
NAME (Please type or print)

Signature

Commander
Title

9-28-94
Date

Naval Sea Systems Command
Activity

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

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

NAME (Please type or print)

Signature

Title

10/1/94
Date

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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

ACTIVITY COMMANDER

Edward G. Schwier	E. G. Schwier
NAME (Please type or print)	Signature
Commanding Officer	9-1-94
Title	Date
Naval Warfare Assessment Division	
Activity	

Data Call 5 correction

NWAD Corona Data Call 5 correction

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

NEXT ECHELON LEVEL (if applicable)

R. SUTTON, RADM, USN
NAME (Please type or print)

Signature

COMMANDER
Title

9/14/94
Date

NAVAL ORDNANCE CENTER
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

NAME (Please type or print)

Signature

G. R. STERNER
Title

9-22-94
Date

Commander
Naval Sea Systems Command

Activity

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

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

NAME (Please type or print)

Signature

10/1/94
Date

Title

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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

ACTIVITY COMMANDER

Edward G. Schwier
NAME (Please type or print)

Edward G. Schwier
Signature

Commanding Officer
Title

26 August 1994
Date

Naval Warfare Assessment Division
Activity

Data Call 5 correction

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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

ACTIVITY COMMANDER

Edward G. Schwier
NAME (Please type or print)

Edward G. Schwier
Signature

Commanding Officer
Title

16 September 1994
Date

Naval Warfare Assessment Division
Activity

DATA CALL 5 CLARIFICATION

NWAD CORONA DATA CALL 5 CORRECTION

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

NEXT ECHELON LEVEL (if applicable)

R. SUTTON, RADM, USN
NAME (Please type or print)

Signature

COMMANDER
Title

26 OCT 94
Date

NAVAL ORDNANCE CENTER
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

NAME (Please type or print)
G. R. STERNER
Commander
Naval Sea Systems Command

Signature

10-26-94
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)

Signature

Title

11/1/94
Date