

123

**DATA CALL 66
INSTALLATION RESOURCES**

Activity Information:

Activity Name:	Navy Public Works Center, Pearl Harbor
UIC:	62755
Host Activity Name (if response is for a tenant activity):	N/A
Host Activity UIC:	N/A

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

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

a. Table 1A - Base Operating Support Costs (Other Than DBOF Overhead). This Table should be completed to identify "Other Than DBOF Overhead" Costs. Display, in the format shown on the table, the O&M, R&D and MPN resources currently budgeted for BOS services. O&M cost data must be consistent with data provided on the BS-1 exhibit. Report only direct funding for the activity. Host activities should not include

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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.

Table 1A - Base Operating Support Costs (Other Than DBOF Overhead)			
Activity Name: Navy Public Works Center, Pearl Harbor		UIC: 62755	
Category	FY 1996 BOS Costs (\$000)		
	Non-Labor	Labor	Total
1. Real Property Maintenance Costs:			N/A
1a. Maintenance and Repair			N/A
1b. Minor Construction			N/A
1c. Sub-total 1a. and 1b.			N/A
2. Other Base Operating Support Costs:			
2a. Utilities			N/A
2b. Transportation			N/A
2c. Environmental			N/A
2d. Facility Leases			N/A
2e. Morale, Welfare & Recreation			N/A
2f. Bachelor Quarters			N/A
2g. Child Care Centers			N/A
2h. Family Service Centers			N/A
2i. Administration			N/A
2j. Other (Specify)			N/A
2k. Sub-total 2a. through 2j:			N/A
3. Grand Total (sum of 1c. and 2k.):			N/A

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

<u>Appropriation</u>	<u>Amount (\$000)</u>
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The Navy Public Works Center, Pearl Harbor is fully funded DBOF activity. Accordingly, the section does not apply.

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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Table 1B - Base Operating Support Costs (DBOF Overhead)			
Activity Name: PWC Pearl Harbor		UIC: 62755	
Category	FY 1996 Net Cost From UC/FUND-4 (\$000)		
	Non-Labor	Labor	Total
1. Real Property Maintenance Costs:			
1a. Real Property Maintenance (>\$15K)	13,285.3	5,693.7	18,979.0
1b. Real Property Maintenance (<\$15K)	1,430.0	1,430.0	2,860.0
1c. Minor Construction (Expensed)			
1d. Minor Construction (Capital Budget) <u>c/</u>	1,075.2	460.8	1,536.0
1c. Sub-total 1a. through 1d. <u>a/</u>	15,790.5	7,584.5	23,375.0
2. Other Base Operating Support Costs:			
2a. Command Office	1,193	402	1,595
2b. ADP Support	2,377	1,306	3,683
2c. Equipment Maintenance	55	0	55
2d. Civilian Personnel Services	343	1,029	1,372
2e. Accounting/Finance	700	0	700
2f. Utilities	452	127	579
2g. Environmental Compliance	377	1,126	1,503
2h. Police and Fire			
2i. Safety	272	653	925
2j. Supply and Storage Operations	576	3,216	3,792
2k. Major Range Test Facility Base Costs			
2l. Other (Specify) <u>d/</u>	2,077	4,229	6,306
2m. Sub-total 2a. through 2l:	8,422	12,088	20,510
3. Depreciation <u>b/</u>	3,126	3,216	6,342
4. Grand Total (sum of 1c., 2m., and 3.)	27,428.5	19,672.5	47,101

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 Code 1324 7-22-94

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a/ Per NAVFAC guidance, amounts reported include the cost of maintenance and repair to the utility system which is not included in G&A overhead. Maintenance and repair for G&A overhead is only \$1,083,000.

b/ Per NAVFAC guidance, amounts reported include depreciation cost for the utility systems and other direct cost. Depreciation cost for G&A overhead is only \$411 thousand.

c/ Amounts reported include outlays for utility systems and other direct cost. None of the outlays are G&A costs.

d/ Includes Comptroller \$1,422, Administration \$3,917, Security \$522, Communications \$242, FECA \$4, FAC 132 \$104 and Professional Development Corp \$95.

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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: Navy Public Works Center, Pearl Harbor	UIC: 62755
Cost Category	FY 1996 Projected Costs (\$000)
Travel:	424
Material and Supplies (including equipment):	19,481 ^{a/}
Industrial Fund Purchases (other DBOF purchases):	6,258
Transportation:	108
Other Purchases (Contract support, etc.):	131,488 ^{b/}
Total:	157,759

^{a/} Includes the cost of materials purchased and charged to customers on a cost reimbursable basis. Materials and supplies purchased for customers represent about 70 percent of total material and supply costs.

^{b/} Includes contracted services, however, not only for PWC Pearl Harbor. Majority of dollar value is in direct support of PWC's customers. Charges to customers are on a cost reimbursable basis.

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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:	UIC:
Contract Type	FY 1996 Estimated Number of Workyears On-Base
Construction:	4
Facilities Support	86
Mission Support:	22
Procurement:	0
other:*	N/A
Total Workyears:	112

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

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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)):

9

2) Estimated number of workyears which would be eliminated:

103

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

0

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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.)

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

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

MAJOR CLAIMANT LEVEL

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

COMMANDER
Title

NAVAL FACILITIES ENGINEERING COMMAND
Activity

Jack Buffington
Signature
7/22/94
Date

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

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

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

W. A. Earner
Signature
8/3/94
Date

DATA CALL *65 66 J*
~~ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA~~

[Handwritten Signature]
1252
7/19/93

BRAC-95 CERTIFICATION

Reference: SECNAV NOTE 11000 dtd 8 Dec 93

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

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

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

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

ACTIVITY COMMANDER

J. A. Rispoli, CAPT, USN
NAME

J. A. Rispoli
Signature

Commanding Officer
Title

15 July 1994
Date

Navy Public Works Center, Pearl Harbor
Activity

BRAC-95 CERTIFICATION

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

Darryl L. K. Lee

NAME (Please type or print)

Director

Title

Financial Planning

Division

Comptroller

Department

PWC Pearl

Activity

Lee
Signature

Date

14 July 1994

Enclosure (1)

BRAC-95 CERTIFICATION

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

S. Miyakawa
NAME (Please type or print)

Division Director
Title

Utilities Management Division
Division

Department

Navy Public Works Center
Activity

Sidney Miyakawa
Signature

7/14/94
Date

Enclosure (1)

BRAC-95 CERTIFICATION

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

Susan Sugita
NAME

Susan Sugita
Signature

PWC Staff Civil
Title

7/15/94
Date

Staff Civil Office
Division

Customer Services
Department

PWC Pearl Harbor
Activity

123

ACTIVITY: PWC PEARL HARBOR
N62755

May 19, 1994

**CAPACITY ANALYSES
DATA CALL
FOR
PUBLIC WORKS CENTERS**

Category **INDUSTRIAL SUPPORT**
Type **PUBLIC WORKS CENTERS**
Claimant **NAVFACENGCOM**

Notes:

In the context of this Data Call:

1. Base your responses for FY 1994 and previous years on executed workload, and for FY 1995 and subsequent years on workload as programmed. Use the workload as programmed in the FY 1995 Budget Submission and POM-96. Unless otherwise specified, use workload mixes as programmed. In estimating projected workload capabilities, use the activity configuration as of completion of all BRAC-88/91/93 actions.
2. Use a notional work week of single shift operations (1-8.5) as the basis for your calculations. Please identify any processes which, under normal operations, operate on a different schedule.

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

This document has been prepared in WordPerfect 5.1/5.2.

CAPACITY ANALYSES DATA CALL
For
PUBLIC WORK CENTERS

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Table of Acronyms

A/E	Architect/Engineer
AICUZ	Air Installations Compatible Use Zones
BRAC	Base Realignment and Closure
BRACON	BRAC Construction
CCN	Category Code Number
ESQD	Explosive Safety Quantity Distance
FY	Fiscal Year
HERF	Hazardous Electronic Radiation - Fuel
HERO	Hazardous Electronic Radiation - Ordnance
HERP	Hazardous Electronic Radiation - Personnel
K	Thousands
MCON	Military Construction
PWC	Public Works Center
SF	Square Footage
UIC	Unit Identification Code

ACTIVITY: PWC PEARL HARBOR
N62755

CAPACITY ANALYSES DATA CALL
For
PUBLIC WORK CENTERS

Primary UIC: N62755

(Use this number for Activity identification at the top of each page.)

Mission Area

1. **Budget/Workyears.** Use the following tables to describe the historical and currently projected workload for this site in terms of funding and workyears. Assume that all previous BRAC closure and realignment actions are implemented on schedule. Dollar amounts should be stated in thousands of then-year dollars (\$ K); FY 1994 data should be end of year projection based on actuals to date.

Table 1.a: Budget/Workyears

Information required	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Total funds Budgeted ¹	175,324	159,998	156,112	155,601	161,745	186,901	216,559	235,940
Total funds received (\$K) ²	165,070	163,162	178,051	178,110	190,262	194,735	246,475	245,071
Budgeted Workyears ³	1,686 ⁴	1,583 ⁴	1,369 ⁴	1,335 ⁴	1,332 ⁴	1,323 ⁴	1,300 ⁵	1,396 ⁵
Actual Workyears ⁵	N/A 1516	N/A 1432	N/A 1379	1,336	1,308	1,283	1,387	1,416

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*Teresa L. Snider
Code 1324 5/27/94*

¹ Budgeted revenues-PWC Pearl operating budget

² Actual Revenues

³ Civilian only excludes military (less OT)

⁴ Civilian End-STRENGTH-PWC Operating Budget

⁵ Civilian workyears(less OT)

**ACTIVITY: PWC PEARL HARBOR
N62755**

Table 1.b: Budget/Workyears

Information required	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total funds budgeted (\$ K) ¹	262,202	267,813 ₂	273,476 ₂	278,721 ₂	285,223 ₂	291,883 ₂	298,701 ₂	305,675 ₂
Total funds received (\$K) ³	121,722							
Budgeted ⁴ Workyears	1,397 ⁵	1,430 ⁵	1,450 ⁵					
Actual Workyears	1426 ⁶							

¹ On Table 1.b this reflects the total funds projected rather than budgeted.

² FY 1994 adjusted by POM escalation factors

³ 6 months data through March 1994

⁴ Civilian only excludes military (less OT)

⁵ Civilian workyears (less OT)

⁶ As of 31 March 1994 (less OT) DBC 92AO

ACTIVITY: PWC PEARL HARBOR
N62755

Mission Area

2. Revenue / Direct Cite. Use the following tables to describe the historical and currently projected revenues/direct cite dollar volume for your activity. Assume that all previous BRAC closure and realignment actions are implemented on schedule. Dollar amounts should be stated in thousands of then-year dollars (\$ K); FY 1994 data should be end of year projection based on actuals to date. In "Utilities" include electricity, potable water, salt water, heating, steam, clean steam, sewage, natural gas, compressed air and telephones. In "Sanitation Services" include refuse collection, pest control, hazardous waste I and II, environmental engineering, and industrial waste. In "Transportation Services" include equipment rental, vehicle operations, and vehicle maintenance. In "Maintenance/Repair" include specifics, minors, emergency/service, and recurring. In "Design" include A/E contract management (design and planning), in-house PWC design and planning. "Contracting" includes both Facility Support Contract and non-MCON administration and inspection.

Table 2.a: Historic and Predicted Revenue/ Direct Cite (\$K)

Product / Service	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991
Utilities	84,649	76,457	81,984	67,165	72,816	79,749
Sanitation ¹ Services	6,102	2,890	2,622	2,992	3,292	8,274
Transportation Services	5,932	5,426	4,821	5,744	7,747	6,693
Maintenance/Rpr	58,697	59,369	70,727	84,691	83,047	87,207
Design ²	N/A	N/A	N/A	N/A	N/A	N/A
Contracting ²	N/A	N/A	N/A	N/A	N/A	N/A
Direct Cite	0	0	283	31	0	0
Others	9,690	19,020	17,898	17,518	23,360	12,812
Total	165,070	163,162	178,335	178,141	190,262	194,735

¹ Cause of fluctuation is not known but is believed to be the result of definition changes.

² Amounts not separately reported. Included in other revenue categories.

**ACTIVITY: PWC PEARL HARBOR
N62755**

2. Revenue/Direct Cite, continued

Table 2.b: Historic and Predicted Revenue/Direct Cite, continued

Product / Service	FY 1992	FY 1993	FY 1994 ¹	FY 1995 ³	FY 1996 ³	FY 1997 ³
Utilities	96,137	94,963	88,891	90,794	92,713	94,492
Sanitation Services	5,854	6,284	17,205 ₂	17,573 ₂	17,945 ₂	18,289 ₂
Transportation Services	9,893	6,282	6,039	6,163	6,299	6,419
Maintenance / Repair	105,579	115,373	119,951 ₅	122,513	125,109	127,508
Design ⁴	N/A	N/A	N/A	N/A	N/A	N/A
Contracting ⁴	N/A	N/A	N/A	N/A	N/A	N/A
Direct Cite	0	408	269	400	400	400
Others	29,012	22,169	30,116	30,760	31,410	32,013
Total	246,475	245,479	262,471	268,213	273,876	279,121

1. 6 Months Actual X 2 (projection based on 6-months actual data).
2. Includes tree-trimming contract cost starting in FY 1994.
3. FY 1994 projection adjusted by POM escalation factor (1.0430-FY96, 1.0630-FY97)
4. Amount not separately reported. Included in other revenue categories.
5. FY 94 March Actual divided by .43 percent (FY 1988 to 93 execution).

ACTIVITY: PWC PEARL HARBOR
N62755

Mission Area

3. Maximum Potential Workload

3.1 Given an environment unconstrained by personnel resources or equipment investment (MCON is limited to that already programmed), what additional activities could you service and/or what additional services could you provide to the activities you currently service? Please identify: the additional activity(s) to be serviced (including their location and distance from your main location); additional services you could provide and to whom; additional resources required (personnel, equipment and facilities); and an estimated cost for these additional resources. Identify what you believe would be the maximum annual workyears expended.

1. **ACTIVITY:** Field Station, Kunia, 703 RD Military Intelligence Brigade, Kunia, Oahu, Hawaii, 20 mi from main compound, 10 mi from West Oahu Branch.

ADDITIONAL SERVICES WHICH COULD BE PROVIDED: Construction, recurring maintenance, emergency work, utility maintenance, engineering and environmental services.

ADDITIONAL PERSONNEL RESOURCES: 30-40 manyears. Possibly lower, if phased in with NAS Barbers Point closure.

ADDITIONAL EQUIPMENT: None.

ADDITIONAL FACILITIES: Small on-site shop space.

2. **ACTIVITY:** U.S Coast Guard, Honolulu, Hawaii, 3 mi from main compound; NAS Barbers Point facility, 15 mi from main compound, 1 mi from West Oahu Branch.

ADDITIONAL SERVICES WHICH COULD BE PROVIDED: Construction, recurring maintenance, emergency work, utility maintenance, engineering and environmental services.

ADDITIONAL PERSONNEL RESOURCES: 15-20 manyears.

ADDITIONAL EQUIPMENT: None.

ADDITIONAL FACILITIES: None.

3. **ACTIVITY:** Tripler Army Medical Center, Honolulu, Hawaii, 5 miles from main compound.

SERVICES WHICH COULD BE PROVIDED: Construction, recurring maintenance, emergency work, utility maintenance, transportation rental, engineering and environmental services.

ADDITIONAL PERSONNEL RESOURCES: 35-40 manyears.

ADDITIONAL EQUIPMENT: None to negligible.

ADDITIONAL FACILITIES: Small on-site shop space.

ACTIVITY: PWC PEARL HARBOR
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3. Maximum Potential Workload, continued

4. **ACTIVITY:** Marine Corps Base Hawaii, Kaneohe, Hawaii, 12 mi from main compound.
 ADDITIONAL SERVICES WHICH COULD BE PROVIDED:
Construction (currently doing a small percentage of work), recurring maintenance, emergency work, utility maintenance, engineering and environmental services.
 ADDITIONAL PERSONNEL RESOURCES: 100 - 120 manyears.
 ADDITIONAL EQUIPMENT: None.
 ADDITIONAL FACILITIES: None.
5. **ACTIVITY:** Navy housing (management). Various locations. Oahu, Hawaii, 1-15 miles from main compound.
 ADDITIONAL SERVICES WHICH COULD BE PROVIDED: Assignments and terminations; full public works support services including maintenance planning, utilities maintenance, construction, recurring maintenance, emergency work, engineering, and environmental services.
 ADDITIONAL PERSONNEL RESOURCES: 40 -45 manyears.
 ADDITIONAL EQUIPMENT: None.
 ADDITIONAL FACILITIES: None, assume reutilization of current facilities.
6. **ACTIVITY:** Defense Financial and Accounting Service Pearl Harbor, Hawaii, 2 mi from main compound.
 ADDITIONAL SERVICES WHICH COULD BE PROVIDED: Full public works support for NAVSTA tenant, including construction, facilities support services, emergency work, engineering, transportation and telecommunications services.
 ADDITIONAL PERSONNEL: 10-20 manyears.
 ADDITIONAL EQUIPMENT: None.
 ADDITIONAL FACILITIES: Small on-site shop space
7. **ACTIVITY:** Army housing (maintenance), for Schofield Ba racks, Helemano, Wheeler Army Airfield, Mendonca Park (4802 units, with additional 102 units under construction at Schofield Barracks); Fort Shafter, Tripler, Aliamanu Military Reservation (3482 units); Camp Stover (200 units). Various locations, Oahu, Hawaii, 1-20 miles from main compound.
 ADDITIONAL SERVICES WHICH COULD BE PROVIDED: PWC administered contract that provides contractor management, scheduling and coordination of all maintenance work, service calls, recurring work, change of occupancy, and general grounds maintenance.
 ADDITIONAL PERSONNEL: 40 manyears.
 ADDITIONAL EQUIPMENT: None.
 ADDITIONAL FACILITIES: None, assume reutilizatoin of current facilities.

ACTIVITY: PWC PEARL HARBOR
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8. **ACTIVITY:** Air Force commands, Hickam Air Force Base Honolulu, Hawaii, 1 mi from main compound.

ADDITIONAL SERVICES WHICH COULD BE PROVIDED: Construction, recurring maintenance, emergency work, engineering, and transportation services.

ADDITIONAL PERSONNEL: 200-250 manyears (may be less depending on level of contracting used).

ADDITIONAL EQUIPMENT: None.

ADDITIONAL FACILITIES: None, assume some reutilization of current Air Force facilities.

GENERAL: All personnel costs are fully reimbursable. Spread of overhead would result in decreased costs to activities. Maximum annual workyears estimated at 500, assuming maximum potential. Additional facilities costs estimated at \$500,000.

**ACTIVITY: PWC PEARL HARBOR
N62755**

Features and Capabilities

4. Facility Utilization

4.1.a Production Facilities. In the following table, identify your production facilities utilizing a five digit Category Code Number (CCN). Expand the table as necessary. Include and separately identify any leased space.

Table 4.1.a: Production Facilities *

Facility Name	CCN	Installation Space (KSF)			
		Adequate	Substandard	Inadequate	Total
Filling Station Bldg	123-15	1.2	0	0	1.2
Telephone Exchange	131-40	24.1	.7	0	24.8
Emerg Vehicle Garage	143-10	13.3	0	0	13.3
Opn Hazardous Storage	143-78	29.0	0	0	29.0
Acd/Gen Ins Bldg	171-10	3.9	0	0	3.9
Rigging Shop	213-61	2.8	0	0	2.8
Auto Vehicle Shop	214-20	63.1	0	0	63.1
Refuel Vehicle Shop	214-30	4.1	0	0	4.1
Vehicle Holding Shed	214-40	2.3	0	0	2.3
Public Works Shop	219-10	60.2	99.9	0	160.1
Public Works Shop Stor	219-25	4.6	0	0	4.6
Paint/Related Opns	219-30	1.6	9.2	0	10.8
PW Maint Storage	219-77	113.6	35.8	7.6	157.0
Environmental Lab	310-27	.8	4.0	0	4.8
RDT & E Storage Lab	319-15	.2	1.3	0	1.5
Standby Generator Bldg	811-59	3.1	0	0	3.1

**ACTIVITY: PWC PEARL HARBOR
N6:755**

Facility Name	CCN	Installation Space (KSF) Con't			
		Adequate	Substandard	Inadequate	Total
Elec Dist Bldg	812-09	15.7	0	0	15.7
Switching Substation	813-10	31.3	0	0	31.3
Heating Plant	821-09	4.9	48.2	0	53.1
Sewer/Indus Waste Treat	831-09	16.8	0	0	16.8
Sewage Pum Station	832-29	6.1	.1	0	6.2
Water Treatment Bldg	841-09	3.8	.1	0	3.9
Water Dist Bldg	842-09	10.9	.2	0	11.1
Fire Prot Valve Shed	843-50	1.2	0	0	1.2
Misc Utility Plant	890-09	8.0	84.1	0	92.1
Total		436.6	283.6	57.6	777.8

* PWC Pearl Harbor does not lease any production facilities space.

ACTIVITY: PWC PEARL HARBOR
N62755

4.1.b Production Facilities. List programmed MCON (through FY 1997) and/or BRACON projects that increase the amount of space available for any of the above categories. Identify by category code, project name, and the scope of the increase.

<u>FY</u>	<u>PROJ</u>	<u>CNN</u>	<u>FACILITY NAME</u>	<u>SCOPE OF INCREASE</u>
94	P-468	831-09	Indus Waste Treat Bldg	30,250 SF
		310-27	Environmental Lab	19,500 SF
		319-15	RDT & E Storage Lab	4,000 SF
		143-78	Flammable Storage	5,200 SF
97	P-442	813-10	Elec Substation	275 SF
97	P-480	811.59	Emerg Gen bldg(sewage)	2,800 SF

ACTIVITY: PWC PEARL HARBOR
N62755

4. Facility Utilization, continued

4.2 Inadequate Facilities. 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/category code:
- b. What makes it inadequate?
- c. What use is being made of the facility?
- d. What is the cost to upgrade 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 a C3 or C4 designation on your BASEREP.

a. PUBLIC WORKS MAINTENANCE STORAGE/ CCN 219-77

- b. Inadequate because of poor physical condition and poor access.
- c. Currently used for materials storage.
- d. Cost to upgrade to substandard; not feasible.
- e. Can be converted to administration office at a cost of \$350,000, or to a public works shop space for \$200,000; not cost-effective.
- f. General maintenance; major repairs are not cost-effective.
- g. Inadequate rating did not result in a C3 or C4 designation.

**ACTIVITY: PWC PEARL HARBOR
N62755**

4. Facility Utilization, continued

4.3 Housing Assets. For military family housing assigned to your plant account, provide the following information. List the assets by area if you have multiple housing sites.

Table 4.3: Housing Assets*

Housing Area: Oahu

Site Location: Oahu

Type of Quarters	Number of Bedrooms	Total Number of Units	Number Adequate	Number Substandard	Number Inadequate
Officer	4+	213	213	0	0
Officer	3	769	769	0	0
Officer	1 or 2	254	254	0	0
Enlisted	4+	1523	1523	0	0
Enlisted	3	2878	2878	0	0
Enlisted	1 or 2	2276	2276	0	0
Mobile Homes	0	0	0	0	0
Mobile Homes Lots	0	0	0	0	0
Total	0	7913	7913	0	0

*This table is a composite list of all Oahu housing units assigned to PWC Pearl Harbor Plant Account. A breakout by housing area is available upon request.

ACTIVITY: PWC PEARL HARBOR
N62755

4. Facility Utilization, continued

4.4 Inadequate Housing Assets. For any quarters listed in Table 4.3 as inadequate: describe why the housing is inadequate; indicate if the housing is being currently used and for what purpose; specify what the cost would be to remove the deficiency and if this cost is included in a programmed project. Also identify if there are there any programmed MCON/BRACON projects that will increase the assets presently available. If so, list those projects and identify the scope of the increase, itemized as above.

There are no quarters listed as inadequate on PWC Pearl Harbor's Plant Account. All PWC housing has been permitted to the Army's Oahu Consolidated Housing Office for operations and maintenance since 1983. The projects designated as "replacement" (below) will replace 1952 vintage units which cannot be economically repaired and improved to current standards.

The following are programmed MILCON projects that will increase the housing assets presently available. (These assets will be assigned to PWC Pearl Harbor's Plant Account.)

1. Barbers Point : (under construction)
 - a. PN030275 - 116 Units
 - b. PN035222 - 120 Units
2. Doris Miller Park: (construction start FY 95)
H300 - 150 Units
3. Pearl City: (construction start FY 95)
H302 - 165 Units

Replacement Projects:

1. FY 93: Moanalua Terrace, Phase I (100 units, funded)
2. FY 94: Moanalua Terrace, Phase II (100 units, planned)
3. FY 96: Moanalua Terrace, Phase III (200 units, planned)
 - Little Makalapa (30 units, planned)
 - Red Hill (10 units, planned)
 - Barbers Point (13 units, planned)
 - Hale Moku, Phase I (146 units)
4. FY 97: Moanalua Terrace, Phase IV (200 units, planned)
 - Hale Moku, Phase II (200 units, planned)
5. FY 98: Moanalua Terrace, Phase V (152 units, planned)
6. FY 99: Hale Moku, Phase III (210 units, planned)
7. FY 00: NAGMAG Lualualei (14 units, planned)
 - Pearl City Peninsula (6 units, planned)
 - Coral Rose, Phase I (350 units, planned)
8. FY 01: Coral Rose, Phase II (192 units, planned)

ACTIVITY: PWC PEARL HARBOR
N62755

4. Facility Utilization, continued

4.5 Expansion Capability. Identify the space available for expansion by indicating current use of the facilities that are being underutilized (also identify by 5 digit CCN). An activity's expansion capability is a function of its ability to reconfigure/rehab existing underutilized facilities to accept new or increased requirements.

Table 4.5: Space Available for Expansion

Present Use / Facility #	CCN	Installation space (KSF)			
		Adequate	Substandard	Inadequate	Total
Telephone Exchange	13140	11.5	.7	0	12.2
Public Works Shops	21910	4.8	23.3	0	28.1
Painting and Related Opns	21930	1.1	6.0	0	7.1
Environmental Laboratory*	31027	.8	4.0	0	4.8
Fallout Shelter	73065	4.0	1.4	0	5.4
TOTAL		22.2	35.4	0	57.6

*FY 94 MILCON Project P-468 will construct new laboratory space, therefore the current laboratory space will become available for another use.

4.6 Expansion Potential. For the space identified above as available for expansion, identify what may be the appropriate uses of the space.

Space Available for Expansion

Appropriate Use of Space

Telephone Exchange

Telephone Exchange or Material Storage

Public Works Shop

Public Works Shop, Admin Office or Material Storage; shop space available for additional public works mission

Painting and Related Opns

Public Works Shop, Admin Office or Material Storage

Environmental Laboratory

Environmental Lab, Admin Office, or Material Storage

Fall Out Shelter

Storm Shelter

ACTIVITY: PWC PEARL HARBOR
N62755

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: Oahu (Summary)

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	41.94	41.94	0	0
Operational	101.92	101.92	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	1,664.18	1,636.80	0	27.38
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	43.30	0	0	43.30
Hunting/Fishing Programs	0	0	0	0
Other	134.32	0	109.32	25.00
Total:	1,985.66	1,780.66	109.32	95.68

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: **Real Estate Resources**Site Location: BC Manana Housing

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	39.09	39.09	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Others*	2.0	0	2.0	0
Total:	41.09	39.09	2.0	0

*Parcel is restricted because it has been reported to GSA for disposal.

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: BJ Airport Area

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	0	0	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Others*	3.15	0	3.15	0
Total:	3.15	0	3.15	0

*Parcel is restricted because it is used for drainage.

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: BK Pearl Harbor Naval Base

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	19.27	19.27	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	47.59	47.59	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	66.86	66.86	0	0

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: BS Radford Terrace Housing

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	70.8	70.8	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Others	0	0	0	0
Total:	70.8	70.8	0	0

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: BT Pearl City Housing

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	123.0	123.0	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	123.0	123.0	0	0

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: BX Salt Lake Storage

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	27.38	0	0	27.38
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Others	0	0	0	0
Total:	27.38	0	0	27.38

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: **Real Estate Resources**Site Location: BY Maloelap Housing

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	14.8	14.8	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	14.8	14.8	0	0

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: CK Halsey Terrace Housing

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	122.3	122.3	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	122.3	122.3	0	0

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate ResourcesSite Location: DB Red Hill Housing

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	7.2	7.2	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	7.2	7.2	0	0

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: EA Ford Island

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	5.9	5.9	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	32.92	32.92	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	38.82	38.82	0	0

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate ResourcesSite Location: EE Hickam Air Force Base

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational*	11.73	11.73	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	0	0	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	11.73	11.73	0	0

*Fort Kamehameha Wastewater Treatment Plant

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: HE Aiea

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	.40	.40	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	.40	.40	0	0

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: HL Barbers Point

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	9.47	9.47	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	207.12	207.12	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	216.59	216.59	0	0

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: HU Halawa Storage

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	13.36	13.36	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	0	0	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	13.36	13.36	0	0

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: HV Puuloa

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	73.21	73.21	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	73.21	73.21	0	0

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: HX Ewa Junction

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	0	0	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Others*	25.0	0	0	25.0
Total:	25.0	0	0	25.0

*Parcel is vacant; proposed for trade to the City and County of Honolulu.

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: IA McGrew Point Housing

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	48.5	48.5	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	48.5	48.5	0	0

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: KN Halawa Landing

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	1.63	1.63	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	0	0	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	1.63	1.63	0	0

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate ResourcesSite Location: KP Makalapa Housing

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	52.8	52.8	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Others*	8.2	0	8.2	0
Total:	61.0	52.8	8.2	0

*Vacant parcel; development is restricted because of steep slope into Halawa Stream.

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: LA Hale Moku Housing

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	67.6	67.6	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	67.6	67.6	0	0

Stream.

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: LH Doris Miller Park Housing

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	11.97	11.97	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	11.97	11.97	0	0

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: LI Catlin Park Housing

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	98.9	98.9	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	98.9	98.9	0	0

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: MA Hukulani Housing

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	60.5	60.5	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	60.5	60.5	0	0

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: MB Halawa Housing

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	22.01	22.01	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	22.01	22.01	0	0

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: MC Iroquois Point Housing

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	243.55	243.55	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	243.55	243.55	0	0

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: MD Fort Weaver Housing

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	126.34	126.34	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	126.34	126.34	0	0

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: ME Camp Stover Housing

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	35.20	35.20	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	0	0	0	0
Total:	35.20	35.20	0	0

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: MH Pearl City Agricultural Area

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	0	0	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	43.3	0	0	43.3
Hunting/Fishing Programs	0	0	0	0
Others*	7.0	0	7.0	0
Total:	50.3	0	7.0	43.3

*Parcel is a wildlife refuge.

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: KI Pearl City Sanitary Landfill

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	0	0	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Others*	42.24	0	42.24	0
Total:	42.24	0	42.24	0

*Parcel is restricted because it is a former sanitary landfill.

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: MI Pearl City

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	0	0	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Others*	46.73	0	46.73	0
Total:	46.73	0	46.73	0

*Parcel is restricted because it has endangered species and is prone to flooding.

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: Little Makalapa Housing

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	0	0	0	0
Operational	0	0	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	15.3	15.3	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Others	0	0	0	0
Total:	15.3	15.3	0	0

4. Facility Utilization, continued

4.7 Real Estate Resources. Identify in the table below the real estate resources which have the potential to facilitate future development and for which you are the plant account holder 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. 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" areas that are 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 4.7: Real Estate Resources

Site Location: Waiawa

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	7.3	7.3	0	0
Operational	75.2	75.2	0	0
Training	0	0	0	0
R & D	0	0	0	0
Supply & Storage	0	0	0	0
Admin	0	0	0	0
Housing	0	0	0	0
Recreational	0	0	0	0
Navy Forestry Program	0	0	0	0
Navy Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Others	0	0	0	0
Total:	82.5	82.5	0	0

ACTIVITY: PWC PEARL HARBOR
N62755

4. Facility Utilization, continued

4.8 Other Constraints. For the information provided in questions 4.5 and 4.7, identify any other constraints such as parking, utilities, or legal restrictions, which limit the potential for using available space for expansion.

The 109.32 acres listed as restricted in the above table are constrained by their current use (i.e. wetlands, drainage, stream embankment, former landfill, and easements to others), or configuration.

The 103.62 acres listed as unrestricted have no constraints (due to parking, utilities, or legal restrictions). There are no constraints on the underutilized spaces listed in Table 4.5.

4.9 Tenant Occupied Space. Complete the following table by listing all tenant activities for which you are the primary host, and identify the amount of space they occupy.

Table 4.9: Tenant Activities

Tenant Name	UIC	Space Occupied (SF)
PACNAVFACENGCOM	N62742	6,104
CBU-413 BLDG X-8 BLDG X-9 BLDG X-10	N66648	4,898 4,100 18,432
SUBASE PEARL HARBOR BLDG 626 BLDG S633 BLDG S638	N00314	2,218 475 1,450
DEFENSE REUTILIZATION AND MARKETING OFFICE BLDG 1526	SH510C	29,011
NAVAL SHIPYARD	N00311	51,946

ACTIVITY: PWC PEARL HARBOR
N62755

Table 4.9: Tenant Activities, continued

Tenant Name	UIC	Space Occupied (SF)
NAVAL STATION	N62813	3,456
NAVAL EXCHANGE SERVICE CENTER	N68897	
BLDG 794	N65938	3,430
BLDG 6890	N41389	7,215
PWC CREDIT UNION	N/A	4,000
OAHU CONSOLIDATED FAMILY HOUSING OFFICE, PEARL HARBOR (PROVISIONAL)	W3RBAA	22,492
BLDG 4		17,836
BLDG 8		17,836
BLDG 12		19,960
BLDG 16		17,836
BLDG 101		11,042
HOUSING UNITS AND HOUSING SUPPORT FAC		10,956,990

ACTIVITY: PWC PEARL HARBOR
N02755

4. Facility Utilization, continued

4.10 Facility Measures. Identify the facility and equipment values for your activity in the Table below, as executed and budgeted for the period requested. Report Family Housing data separately in Table 4.10.b.

- Maintenance of Real Property (MRP) is the budgetary term gathering the expenses or budget requirements for facility work and includes recurring maintenance, major repairs and 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) refer to incorporates Class 2 Real Property and is the hypothetical dollar amount required to replace a Class 2 facility in kind at today's dollars (e.g.: the cost today to replace an existing wood frame barracks with another barracks, also wood frame).
- Acquisition Cost of Equipment (ACE) reports the total cumulative acquisition cost of all "Personal Property" equipment which includes the cost of installed equipments directly related to mission execution (such as lab test equipment). Class 2 installed capital equipment which is integral to the facility should not be reported as ACE (refer to NAVCOMPT Manual, Vol 7, Sec 073561, para 2a, pg 5-120).

Table 4.10.a: Expenditures and Equipment Values

FY	MRP (\$ K)	CPV (\$ K)	ACE (\$ K)
1986	Not Available	932,700	21,194
1987	Not Available	954,568	Not Available
1988	Not Available	1,010,293	24,681
1989	30,405	1,037,029	24,005
1990	21,626	1,037,029	33,186
1991	24,824	1,069,936	36,226
1992	36,161	1,094,221	38,151
1993	34,308	1,247,720	37,961
1994	35,263	1,277,016	38,731
1995	28,183	1,307,001	38,346
1996	28,183	1,337,689	38,539
1997	28,183	1,369,093	38,443

ACTIVITY: PWC PEARL HARBOR
N62755

4. Facility Utilization, continued

Table 4.10.b: Family Housing Expenditures and Equipment Values

FY	MRP (\$ K)	CPV (\$ K)	ACE (\$ K)
1986	14,766	502,223	Not Applicable
1987	13,663	514,049	Not Applicable
1988	18,562	543,664	Not Applicable
1989	21,840	551,027	Not Applicable
1990	23,667	571,525	Not Applicable
1991	24,511	578,874	Not Applicable
1992	24,924	592,339	Not Applicable
1993	29,216	538,184	Not Applicable
1994	26,204	550,821	Not Applicable
1995	27,670	563,754	Not Applicable
1996	29,368	576,991	Not Applicable
1997	Not Available	590,539	Not Applicable

Activity Listing :

Type	Title	Location
PWC	PUBLIC WORKS CENTER GREAT LAKES	Great Lakes IL
PWC	PUBLIC WORKS CENTER GUAM	Guam
PWC	PUBLIC WORKS CENTER JACKSONVILLE	Jacksonville FL
PWC	PUBLIC WORKS CENTER NORFOLK	Norfolk VA
PWC	PUBLIC WORKS CENTER PEARL HARBOR	Pearl Harbor HI
PWC	PUBLIC WORKS CENTER PENSACOLA	Pensacola FL
PWC	PUBLIC WORKS CENTER SAN DIEGO	San Diego CA
PWC	PUBLIC WORKS CENTER WASHINGTON DC	Washington D.C.

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

MAJOR CLAIMANT LEVEL

L. M. SMITH, CAPT, CEC, USN
NAME (Please type or print)
Acting Commander
Title
COMNAVFACENGCOM
Activity

J. M. Smith
Signature
5/27/94
Date

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

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

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

J. B. Greene, JR
Signature
2 JUN 94
Date

ACTIVITY: PWC PEARL HARBOR
N62755

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 COMMANDING OFFICER

JAMES A. RISPOLI
NAME (Please type or print)

James A. Rispoli
Signature

Commanding Officer
Title

17 May 1994
Date

Navy Public Works Center, Pearl Harbor
Activity

BRAC-95 CERTIFICATION

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

LANSING M. SUGITA

NAME (Please type or print)

BUSINESS DEVELOPMENT DIRECTOR

Title

CUSTOMER SERVICES

Division

CUSTOMER SERVICES

Department

NAVY PWC

Activity



Signature

5/18/94

Date

Enclosure (1)

BRAC-95 CERTIFICATION

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

Susan Sugita
NAME (Please type or print)
PWC Staff Civil Engineer
Title

Susan Sugita
Signature
5/18/94
Date

PWC Staff Civil Office
Division

Customer Services
Department

PWC Pearl Harbor
Activity

BRAC-95 CERTIFICATION

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief. (Except for Table 4.10.b - Family Housing Expenditures)

Jarvis Lee

Handwritten signature

NAME (Please type or print)

Signature

Head

17 May 1994

Title

Date

Financial Planning

Division

Comptroller

Department

PWC Pearl

Activity

BRAC-95 CERTIFICATION

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

Linda L. Doyle

NAME (Please type or print)

Dep. Hsg MGR

Title

PH Housing OFFICE

Division

Department

DCFH

Activity

Linda L. Doyle

Signature

5/17/94

Date

Enclosure (1)

BRAC-95 CERTIFICATION

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

WARREN AU
NAME (Please type or print)

Warren Au
Signature

ELEC. ENGR
Title

5/18/94
Date

PLANNING DIV.
Division

ENGINEERING DEPT.
Department

PWC PEARL
Activity

Enclosure (1)

BRAC-95 CERTIFICATION

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief. (ITEM 7.)

WILLIAM E. FINN
NAME (Please type or print)

(J, CEC, USN)
Title

HOUSING CONTRACT ADMIN (240)
Division

CONTRACTING (200)
Department

PWC
Activity

William E. Finn
Signature

5/18/94
Date

Enclosure (1)

Document Separator

123

**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:	PWC PEARL HARBOR
UIC:	62755
Major Claimant:	NAVFAC

General Instructions/Background:

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

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

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

General Instructions/Background (Continued):

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

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

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

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

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

1. Workforce Data

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

Average Appropriated Fund Civilian Salary Rate:	\$41,479
--	-----------------

*Includes COLA

Source of Data (1.a. Salary Rate): 150 CPRRS dtd 5/10/94

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

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

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

County of Residence	State	No. of Employees Residing in County		Percentage of Total Employees	Average Distance From Base (Miles)	Average Duration of Commute (Minutes)
		Military	Civilian			
HONOLULU (OAHU)	HI	16	1495	100%	10	25

= 100%

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

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

Honolulu, Oahu

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

Source of Data (1.b. 1) & 2) Residence Data): Human Resources Office, PWC, Pearl Harbor Civilian/Military Personnel Reports

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

City	County	Distance from base (miles)
HONOLULU	HONOLULU	Not applicable*

Source of Data (1.c. Metro Areas): Not applicable*

*PWC PEARL HARBOR is located in Honolulu.

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

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

Age Category	Number of Employees	Percentage of Employees
16 - 19 Years	5	.33
20 - 24 Years	33	2.21
25 - 34 Years	252	16.86
35 - 44 Years	441	29.50
45 - 54 Years	558	37.32
55 - 64 Years	190	12.71
65 or Older	16	1.07
TOTAL	1495	100 %

Source of Data (1.d.) Age Data): DCPDS dtd 7/7/94

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

e. Education Level of Civilian Workforce

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

Last School Year Completed	Number of Employees	Percentage of Employees
8th Grade or less	9	.60
9th through 11th Grade	58	3.88
12th Grade or High School Equivalency	832	55.65
1-3 Years of College	288	19.26
4 Years of College (Bachelors Degree)	252	16.86
5 or More Years of College (Graduate Work)	56	3.75
TOTAL	1495	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.)	68
Associate Degree	116
Bachelor Degree	240
Masters Degree	42
Doctorate	1

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

Source of Data (1.e.1 and 2) Education Level Data): Calculated by HRO, Public Works Center, Pearl Harbor based on DCPDS data 7/7/94

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

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

Industry	SIC Codes	No. of Civilians	% of Civilians
1. Agriculture, Forestry & Fishing	01-09		
2. Construction (includes facility maintenance and repair)	15-17	630	45.48
3. Manufacturing (includes Intermediate and Depot level maintenance)	20-39		
3a. Fabricated Metal Products (include ordnance, ammo, etc.)	34		
3b. Aircraft (includes engines and missiles)	3721 et al		
3c. Ships	3731		
3d. Other Transportation (includes ground vehicles)	various		

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Industry	SIC Codes	No. of Civilians	% of Civilians
3e. Other Manufacturing not included in 3a. through 3d.	various		
Sub-Total 3a. through 3e.	20-39		
4. Transportation/Communications/Utilities	40-49		
4a. Railroad Transportation	40		
4b. Motor Freight Transportation & Warehousing (includes supply services)	42		
4c. Water Transportation (includes organizational level maintenance)	44		
4d. Air Transportation (includes organizational level maintenance)	45		
4e. Other Transportation Services (includes organizational level maintenance)	47	75	5.01
4f. Communications	48	15	1.00
4g. Utilities	49	104	6.96
Sub-Total 4a. through 4g.	40-49		
5. Services	70-89		
5a. Lodging Services	70		
5b. Personal Services (includes laundry and funeral services)	72		
5c. Business Services (includes mail, security guards, pest control, photography, janitorial and ADP services)	73	47	3.13
5d. Automotive Repair and Services	75	23	1.54
5e. Other Misc. Repair Services	76	13	.87

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Industry	SIC Codes	No. of Civilians	% of Civilians
5f. Motion Pictures	78		
5g. Amusement and Recreation Services	79		
5h. Health Services	80	1	.07
5i. Legal Services	81	4	.27
5j. Educational Services	82		
5k. Social Services	83		
5l. Museums	84		
5m. Engineering, Accounting, Research & Related Services (includes RDT&E, ISE, etc.)	87	190	12.72
5n. Other Misc. Services	89		
Sub-Total 5a. through 5n.:	70-89		
6. Public Administration	91-97		
6a. Executive and General Government, Except Finance	91	282	18.88
6b. Justice, Public Order & Safety (includes police, firefighting and emergency management)	92	3	.86
6c. Public Finance	93	32	2.13
6d. Environmental Quality and Housing Programs	95	16	1.07
Sub-Total 6a. through 6d.			
TOTAL		1495	100 %

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

Source of Data (1.f.) Classification By Industry Data): DCPDS dtd 7/7/94

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	195	13.04
2. Professional Specialty		
2a. Engineers	129	8.63
2b. Architects and Surveyors	12	.80
2c. Computer, Mathematical & Operations Research	1	.07
2d. Life Scientists	3	.20
2e. Physical Scientists	19	1.27
2f. Lawyers and Judges	3	.20
2g. Social Scientists & Urban Planners		
2h. Social & Recreation Workers		

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

Occupation	Number of Civilian Employees	Percent of Civilian Employees
2i. Religious Workers		
2j. Teachers, Librarians & Counselors		
2k. Health Diagnosing Practitioners (Doctors)		
2l. Health Assessment & Treating (Nurses, Therapists, Pharmacists, Nutritionists, etc.)		
2m. Communications	13	.87
2n. Visual Arts		
Sub-Total 2a. through 2n.:		
3. Technicians and Related Support	56	3.74
3a. Health Technologists and Technicians	17	1.14
3b. Other Technologists	9	.60
Sub-Total 3a. and 3b.:		
4. Administrative Support & Clerical	172	11.5
5. Services		
5a. Protective Services (includes guards, firefighters, police)		
5b. Food Preparation & Service		
5c. Dental/Medical Assistants/Aides		
5d. Personal Service & Building & Grounds Services (includes janitorial, grounds maintenance, child care workers)		
Sub-Total 5a. through 5d.		
6. Agricultural, Forestry & Fishing		
7. Mechanics, Installers and Repairers	260	17.38
8. Construction Trades	411	27.5

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

Occupation	Number of Civilian Employees	Percent of Civilian Employees
9. Production Occupations	49	3.28
10. Transportation & Material Moving	55	3.68
11. Handlers, Equipment Cleaners, Helpers and Laborers (not included elsewhere)	91	6.1
TOTAL	1495	100 %

**Source of Data (1.g.) Classification By Occupation Data): Calculated by HRO,
Public Works Center Pearl Harbor, based on DCPDS data 7/7/94**

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

1. **Executive, Administrative and Management.** Accountants and auditors; administrative services managers; budget analysts; construction and building inspectors; construction contractors and managers; cost estimators; education administrators; employment interviewers; engineering, science and data processing managers; financial managers; general managers and top executives; chief executives and legislators; health services managers; hotel managers and assistants; industrial production managers; inspectors and compliance officers, except construction; management analysts and consultants; marketing, advertising and public relations managers; personnel, training and labor relations specialists and managers; property and real estate managers; purchasing agents and managers; restaurant and food service managers; underwriters; wholesale and retail buyers and merchandise managers.
2. **Professional Specialty.** Use sub-headings provided.
3. **Technicians and Related Support.** Health Technologists and Technicians sub-category - self-explanatory. Other Technologists sub-category includes aircraft pilots; air traffic controllers; broadcast technicians; computer programmers; drafters; engineering technicians; library technicians; paralegals; science technicians; numerical control tool programmers.
4. **Administrative Support & Clerical.** Adjusters, investigators and collectors; bank tellers; clerical supervisors and managers; computer and peripheral equipment operators; credit clerks and authorizers; general office clerks; information clerks; mail clerks and messengers; material recording, scheduling, dispatching and distributing; postal clerks and mail carriers; records clerks; secretaries; stenographers and court reporters; teacher aides; telephone, telegraph and teletype operator; 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

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- 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.
- 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:	81%
2. Percentage of Military Spouses Who Work Outside of the Home:	38%
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:	1
3b. Employed "On-Base" - Non-Appropriated Fund:	0
3c. Employed "Off-Base" - Federal Employment:	1
3d. Employed "Off-Base" - Other Than Federal Employment	3

Source of Data (1.h.) Spouse Employment Data): Telephone Survey of PWC Military Personnel conducted by Code 22 PWC Pearl Harbor.

1. Number of Military Surveyed-----16
 - a. Officers-----15
 - b. Enlisted-----01

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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.

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

Ratings are based on the assumption that additional personnel will reside throughout Honolulu and will not be concentrated in a particular area or district.

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Ratings are based on the assumption that additional personnel will reside throughout Honolulu and will not be concentrated in a particular area or district.

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	B	B
Schools - Private	A	A	A
Public Transportation - Roadways	A	A	A
Public Transportation - Buses/Subways	A	A	A
Public Transportation - Rail	NA	NA	NA
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	A

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

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

City & County of Honolulu, Department of General Planning - Planning Information Branch
State Department of Education, Office of Information Resource Management Branch
City & County of Honolulu, Honolulu Fire Department
City & County of Honolulu, Honolulu Police Department
Honolulu Public Transit Authority, Bus System - Operations & Marketing Branch
State Department of Transportation - Highways Division
Health Care Association of Hawaii - Legislation and Medical Care Information
City & County of Honolulu Board of Water Supply
Hawaiian Electric Company
Navy Public Works Center, Pearl Harbor
City & County of Honolulu - Wastewater Management Division
City & County of Honolulu - Environmental Engineer Office
City & County of Honolulu - Department of Parks & Recreation

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

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

Category	20% Increase	50% Increase	100% Increase
Off-Base Housing	A	A	A
Schools - Public	A	B	B
Schools - Private	A	A	A
Public Transportation - Roadways	A	A	A
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
Recreation Facilities	A	A	A

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

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

Not applicable.

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: 3.9%

Units for Sale: 1.3%* (*Homeowner vacancy rate)

<p>Source of Data (3.a. Off-Base Housing):</p> <p>U. S. Department of Commerce Bureau of the Census "Housing Vacancies and Homeownership Annual Statistics: 1993," Current Housing Reports,</p>
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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? *
		Elementary	Middle	High	Current	Maximum Capacity	Current	Maxi-Ratio	
Honolulu	Honolulu	39	9	6	34,597	Note 1	Note 2	Note 1	Yes
Central	Honolulu	28	6	6	35,985	Note 1	Note 2	Note 1	Yes
Leeward	Honolulu	27	5	5	32,126	Note 1	Note 2	Note 1	Yes
Windward	Honolulu	24	5	5	19,785	Note 1	Note 2	Note 1	Yes
Honolulu **	Honolulu	38	26	17	20,776	Note 3	Note 3	Note 3	Note 3
Central **	Honolulu	13	10	2	2,491	Note 3	Note 3	Note 3	Note 3
Leeward **	Honolulu	10	10	2	1,919	Note 3	Note 3	Note 3	Note 3
Windward **	Honolulu	15	11	3	2,515	Note 3	Note 3	Note 3	Note 3

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

** Private Schools

Note 1: The public schools system is currently at maximum capacity

Note 2: For public schools, the student-teacher ratios are: grades K-2 20:1, 3-12 26:1

Note 3: Data not available. Data varies throughout individual private schools.

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

Public Schools Enrollment Count 1993-1994
Private Schools Enrollment 9-10-93
State Department of Education, Information Resource Management Branch

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

No

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

Dept of Education, State of Hawaii

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 :

Major Colleges and Universities located in the City & County of Honolulu (includes graduates studies)

Brigham Young University - Hawaii Campus
Chaminade University of Honolulu
Hawaii Loa College
Hawaii Pacific University
University of Hawaii, Systems (includes all Community Colleges and West-Oahu College)
*Wayland Baptist University
*Central Michigan University (Branch-military)
*University of Oklahoma (Branch-military)
*Troy State University (Branch-military)

*Intended to provide educational opportunities for service members and their adult dependents only.

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

GTE Hawaiian Tel March 1994-1995 (Yellow Pages)

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:

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Vocational/Technical Training Schools

Oriental Medical Institute
 Tai Huaun Foundation
 New York Technical Institute of Hawaii
 Hawaii Institute of Hair
 Hawaii Business College
 Denver Business College
 Intercultural Communications Institute
 Ross College of Court Reporting
 *Heald Business College
 Electronics Institute
 H & R Block Tax Tuition School
 Aisan Shiatsu School
 Honolulu School of Massage
 American Institute of Massage Therapy
 Med-Assist School of Hawaii
 Continental Security School
 Travel Institute of the Pacific
 Travel University International

Major Curriculum

Acupuncture
 Acupuncture
 Automotive
 Barbering
 Business/Commercial
 Business/Commercial
 Business/Commercial
 Business/Commercial
 Business/Commercial
 Electronics
 Income Tax Preparation
 Massage
 Massage
 Massage
 Medical
 Security
 Travel/Tourism
 Travel/Tourism

Vocational/Technical Training Schools

Travel's Choice School of Travel
 Windward Travel Institute
 Fashion Center
 Style Center School of Fashion Design
 *Embry Riddle Aeronautical

Major Curriculum

Travel/Tourism
 Travel
 Dressmaking/Tailoring Designing
 Dressmaking/Tailoring Designing
 Pilot Training

* Intended to provide educational opportunities for service members and their adult dependents only.

Source of Data (3.b.4) Vo-tech Training):
 1993-1994 Directory, Office of the Superintendent, Department of Education, State of Hawaii

c. Transportation

1) Is the activity served by public transportation?

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

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Source of Data (3.c.1) Transportation):

The Bus Route Schedules/Stops

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.

None available in the City & County of Honolulu

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

DBED State of Hawaii Data Book 1992

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.

Honolulu International Airport - Approximately 1.5 miles from Public Works Center Pearl Harbor

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

Rand McNally & Company Map, Copyright 1991

4) How many carriers are available at this airport?

23 signatory airlines (with airport lessees). At least 22 other nonlessees.

Source of Data (3.c.4) Transportation):

State Department of Transportation, Airport Division, Fiscal Office

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

PWC Pearl is located approximately one (1) mile from Interstate Highway H1.

Source of Data (3.c.5) Transportation):

Rand McNally & Co. Map Copyright 1991

6) Access to Base:

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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.)

The quality of the road systems providing access to the base is adequate. Capacity is marginally adequate during peak periods causing delays in commuting time.

b) Do access roads transit residential neighborhoods?

City and County access roads transit residential neighborhoods. State highways do not transit residential neighborhoods but transit alongside certain areas.

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

No easement precludes expansion of access road system. There are other types of restrictions that preclude expansion of the road system for certain land use.

d) Are there any man-made barriers that inhibit traffic flow (e.g., draw bridges, etc.)?

There are no man-made barriers that inhibit traffic flow.

Source of Data (3.c.6) Transportation):

Department of Transportation, Highways Division

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.

Fire protection services are provided by the Naval Station, Pearl Harbor Federal Fire Department which does have a mutual aid firefighting agreement with the City and County of Honolulu and the 15th Air Base Wing (Pacific Air Forces) for fire suppression, training classes/facilities, communications, emergency response, and fire alarm response. PWC Pearl has no local community agreements for hazardous materials incidents.

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

Naval Station, Pearl Harbor Federal Fire Department

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e. Police Protection.

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

PWC Pearl Harbor has concurrent legislative jurisdiction (Federal, State, and City). Police protection is provided by Naval Base Police and the City and County of Honolulu, who enforce federal, state and municipal laws.

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

Not applicable, there are no other levels of jurisdiction.

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

No, however, PWC Pearl Harbor is covered under the agreement between the Armed Forces and the State of Hawaii.

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

Not applicable, no agreements exist.

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

Not applicable, there is no augmentation by officials of other federal agencies.

Source of Data (3.e. 1) - 5) - Police):
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PWC Pearl Harbor Security Office

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f. Utilities.

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

Yes, PWC has agreements for the following services:

Telephone Services	GTE Hawaiian Telephone Company
Refuse Collection	Honolulu Disposal Service, Inc. (contract)
Landfill Refuse Disposal	City and County of Honolulu, Public Works
Electricity	Hawaiian Electric Company, Inc.
Sewage	Navy Public Works Center
Water	Navy Public Works Center
Hazardous Waste Disposal	Navy Public Works Center

Navy Public Works Center treats hazardous waste material. Disposal is accomplished through DRMO.

PWC Pearl Harbor provides water to Navy activities on Oahu. Only on limited occurrences do we buy water from the Hawaii Board of Water Supply.

PWC Pearl Harbor is the major provider of sewage disposal for the Navy activities on Oahu.

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

No.

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

No electrical "brown outs" or "rolling black outs" during the last five years. However major disruption in operations occurred April 9, 1991 when Hawaiian Electric Company could not provide power for 6 hours.

Source of Data (3.f. 1) - 3) Utilities):

Naval Facilities Engineering Command Pacific Division
Navy Public Works Center, Pearl Harbor

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):

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Employer	Product/Service	No. of Employees
1. Federal Government	Defense and Non-Defense	80,000
2. Hawaii State Government	State Government	49,750
3. City & County of Honolulu	City and County Government	10,550
4. Bancorp Hawaii, Inc.	Bank Holding Company	3,900
5. The Queen's Health Systems	Health-care services	3,200
6. Kyo-ya Co. Ltd.	Hotels, parking lots, retail stores, restaurants	3,050
7. Kaiser Permanente	Health-care services	3,000
8. GTE Hawaiian Telephone	Telecommunications products & services	2,800
9. First Hawaiian, Inc.	Financial Services	2,700
10. Outrigger Hotels Hawaii	Full-service lodging & hospitality services	2,500

Source of Data (4. Business Profile):

Data Book 1992, State of Hawaii

Hawaii Business, August 1993

Employers

* Hawaii Pacific Area Combined Federal Campaign Weekly Progress Report.

* Includes minimal personnel from other pacific areas.

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5. Other Socio-Economic Impacts. For each of the following areas, describe other recent (past 5 years), ongoing 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:

According to First Hawaiian Bank Research Department and the Hawaii State Government, Department of Labor & Industrial Relations, Research & Statistics Office there has been no loss of major employers. (Note: Most of the major loss occurred on the Big Island (outside the City & County of Honolulu). Over 700 workers were laid off at the Hamakua Sugar Company and Hilo Coast Processing Company.) However, there continues to be a general decline in agriculture production (pineapple and sugar). Developments in the sugar industry shows sign of accelerating decline with projected closure of Oahu Sugar Company and Wailua Sugar Company during 1995. A few large retail outlets have closed (Gibsons, Home Improvement) and new ones have emerged (K-Mart, Sam's Club, Ross's and factory outlets in Waialeale Center).

b. Introduction of New Businesses/Technologies:

According to the Hawaii State Government, Department of Labor & Industrial Relations, Research & Statistics Office, there are no new businesses or technologies projected. Except for a Tech Park (super computer international network) on Maui (outside the City and County of Honolulu). Honolulu County can expect a few new retail outlets.

c. Natural Disasters:

No significant disasters. Since the flash flooding on the North Shore of Oahu, and Hurricane Iniki there have been three more lesser weather related incidents that have had a negative impact on the City & County of Honolulu. According to the Oahu Civil Defense Agency, localized flash flooding and high winds this spring caused numerous personal injuries. In addition, property and electrical power line damage resulted in rescue and evacuation operations being performed.

d. Overall Economic Trends:

According to First Hawaiian Bank Research Department, Hawaii's economy is experiencing a number of optimistic developments

(1) A surge in the visitor industry during the first quarter of 1994 raised hopes that the three year tourism slump was finally at an end. Westbound and eastbound traffic were strong; with westbound overnight or longer visitors up 3.3% in February, the best year to year increase in 41 months.

(2) Although total construction continues to decline, several isolated but highly visible nonresidential projects are currently underway.

(a) The Hawaiian Center, a 27 story building will add about 379,000 rentable square feet of office space to downtown Honolulu and inject an estimated \$120 million into the state's lagging construction sector.

(b) The Aloha Tower Marketplace, \$100 million redevelopment will initially include a 190,000 square foot low-rise shopping and dining complex, with eventual development of a masterplan for 3-5 million square foot of hotel, office, condominium and maritime uses space.

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(c) The Kapolei area, which accounts for 8% of the land on the island, is planning growth to include a balance of residential, commercial, industrial, resort and agricultural sectors. 2,000 added new jobs are anticipated.

(3) With rising resales for both single family and condominium units, the Oahu real estate market appears to have begun a gradual upswing.

(4) Although the state unemployment rate is still below the national average, the gap is slowly closing.

(5) The biggest story in agriculture for Honolulu has been the rapid decline in the fortunes of the sugar industry. Projected closure of Oahu Sugar and Waialua Sugar Company in 1995 would result in over 20,000 acres of available land. On the positive side, this might be a good opportunity for additional housing and nonagricultural development.

Source of Data (5. Other Socio/Econ):

Hawaii State Government, Department of Labor & Industrial Relations Research & Statistics Office, Hawaii's Labor Market in Review 1992
First Hawaiian Bank Research Department, Economic Indicators May/June 1994
Bank of Hawaii Economics Department Annual Economic Report Vol 43 Hawaii 1993 (Jan 1994)
City & County of Honolulu, Oahu Civil Defense Agency (Civil Defense Records - to include litigation, reports, task reports, engineering reports, etc.)

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

None

Source of Data (6. Other):

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."

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

MAJOR CLAIMANT LEVEL

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

COMMANDER
Title


Signature
7/21/94
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)

Title


Signature
8/2/94
Date

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

J. A. Rispoli, CAPT, USN
NAME


Signature

Commanding Officer
Title

18 July 1994
Date

Navy Public Works Center, Pearl Harbor
Activity

BRAC-95 CERTIFICATION

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

Walter Carvacho
NAME (Please type or print)
Facilities Manager
Title


Signature
15 July 1994
Date

N/A
Division

Customer Services
Department

PWC Pearl Harbor
Activity

Enclosure (1)

BRAC-95 CERTIFICATION

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

CLINTON NG
NAME (Please type or print)

AIS COMPUTER SPECIALIST
Title

SECURITY OFFICE
Division

09Z
Department

PWC PEARL HARBOR, HI
Activity


Signature
15 Jul 1994
Date

Enclosure (1)

BRAC-95 CERTIFICATION

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

DAVID J. GIBBONS

NAME (Please type or print)

HUMAN RESOURCES DIRECTOR

Title

David J. Gibbons
Signature

11 July 1994
Date

PWC PEARL CODE 40

Division

HUMAN RESOURCES DEPT

Department

NAVY PUBLIC WORKS CENTER

Activity

Enclosure (1)

Document Separator

DATA CALL 1: GENERAL INSTALLATION INFORMATION

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

● Name

Official name	<i>Navy Public Works Center, Pearl Harbor, Hawaii</i>
Acronym(s) used in correspondence	<i>PWC Pearl Harbor</i>
Commonly accepted short title(s)	<i>PWC PEARL</i>

● Complete Mailing Address

Navy Public Works Center
Pearl Harbor, HI 96860-5470

● PLAD

PWC PEARL HARBOR HI//

● PRIMARY UIC: N62755 (Plant Account UIC for Plant Account Holders)

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

● ALL OTHER UIC(s): N/A PURPOSE: _____

There are no other UICs at this base.

2. PLANT ACCOUNT HOLDER:

● Yes X No _____ (check one)

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

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

• Yes X No (check one)

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

• Yes No X (check one)

• Primary Host (current) UIC: N/A

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

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

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

• Yes No 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
Radford Terrace Housing	Pearl Harbor	N62755
Manana Housing	Pearl City	N62755
Naval Base Pearl, 1.1 acre parcel and facilities	Pearl Harbor	N62755
Pearl City Housing	Pearl City	N62755
Salt Lake Storage	Pearl Harbor	N62755
Maloelap Housing	Pearl Harbor	N62755
Halsey Terrace Housing	Pearl Harbor	N62755
Moanalua Terrace Housing	Pearl Harbor	N62755
Red Hill Housing	Honolulu	N62755
Ford Island Housing/Utilities Stations	Pearl Harbor	N62755
Hickam Air Force Base, 7.5 acre parcel	Hickam Air Force Base	N62755
Little Makalapa Housing	Pearl Harbor	N62755
Aiea, .4 acre parcel	Aiea	N62755
Barbers Point, 119.1 acre parcel and facilities	Barbers Point	N62755
West Loch, facilities	Ewa Beach	N62755
Halawa Storage	Pearl Harbor	N62755
Puuloa, 73.1 acre parcel and facilities	Ewa Beach	N62755
Ewa Junction, 25 acre parcel	Pearl City	N62755
McGrew Point Housing	Aiea	N62755
Halawa Landing	Pearl Harbor	N62755
Makalapa Housing	Pearl Harbor	N62755
Hale Moku Housing	Pearl Harbor	N62755
Miller Park Housing	Honolulu	N62755
Catlin Park Housing	Pearl Harbor	N62755
Camp Smith Housing	Aiea	N62755
Hokulani Housing	Pearl Harbor	N62755
Halawa Housing	Aiea	N62755
Iroquois Point Housing	Ewa Beach	N62755
Fort Weaver, 126.3 acre parcel	Ewa Beach	N62755
Camp Stover Housing	Wheeler Air Force Base	N62755
Lualualei, facilities	Lualualei	N62755
Waikele, facilities	Waipahu	N62755

Command: N62755

Name	Location*	UIC
Pearl City Agriculture Area	Pearl City	N62755
Lualualei/RTF Housing	Lualualei	N62755
John Rogers Airport Area, drainage	Honolulu	N62755
Integrated Telephone System	Pearl Harbor	N62755
Sanitary Sewer System	Pearl Harbor	N62755
Fire Alarm/Protection System	Pearl Harbor	N62755
Pearl City Sanitary Landfill	Pearl City	N62755
Electrical Distribution System	Pearl Harbor	N62755
Potable Water System	Pearl Harbor	N62755
Compressed Air Distribution System	Pearl Harbor	N62755
Gas Distribution System	Pearl Harbor	N62755
Steam Distribution System	Pearl Harbor	N62755
Street Lighting System	Pearl Harbor	N62755
Distilled Water System	Pearl Harbor	N62755
Pearl City security, 46.7 acre parcel	Pearl City	N62755
Refuse collection facilities	Pearl Harbor	N62755
Grounds maintenance facilities	Pearl Harbor	N62755
Transportation Compound, 19.3 acre parcel and facilities	Pearl Harbor	N62755
Power plant facilities	Pearl Harbor	N62755
Industrial Waste Treatment Plant	Pearl Harbor	N62755

* All locations are within the City and County of Honolulu, State of Hawaii

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

Name	UIC	Location	Host name	Host UIC
N/A, PWC has no official detachments				

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

a. PWC Pearl Harbor will be affected by the closure of NAS Barbers Point under BRAC-93. PWC Pearl Harbor owns and operates maintenance/repair, transportation, and materials shop facilities at Barbers Point in support of our mission at West Oahu. Even after NAS Barbers Point closes we will still have a substantial mission at West Oahu in support of Naval Magazine Lualualei, Naval Computer and Telecommunication Area Master Station EASTPAC, and other smaller activities. In FY 93, 74% of our specific and recurring work and 85% of our transportation work conducted out of our facilities at Barbers Point was in support of other activities. The BRAC-93 budget currently includes a MILCON project to replace our shop facilities at another site at West Oahu; the estimated cost of this project is \$6.7 million. The BRAC-93 budget also includes a MILCON for PWC Pearl Harbor that will install individual metering and service connections to the housing units that were approved for retention. The estimated cost of this project is \$2.3 million.

b. PWC Pearl Harbor owns and operates a monofill for special wastes, an oily waste landfarm, and a contaminated soil stockpile facility at Barbers Point. These serve as treatment, disposal, and storage facilities for all Navy activities; however they have not been approved for retention.

1. The Barbers Point Staff Civil Engineer/Base Transition Office did not include the projects we requested to replace these environmental facilities in the BRAC budget because they were certain that the facilities would be approved for retention since the requirement for them will not be impacted by the closing of NAS Barbers Point.

2. The estimated cost to replace these facilities is \$8 million, but finding another site for the facilities may not be possible due to changes in Solid Waste Disposal Act permitting requirements. PWC Pearl Harbor would like to retain these facilities at Barbers Point because they are critical to our wastewater system operations.

3. COMNAVBASE Pearl Harbor has expressed interest in entering an agreement with the State of Hawaii for joint use of these facilities. While we do not object to this concept, we need to explore the liability issues and the fact that joint use will shorten the useful life of the monofill for special wastes.

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

Current Missions

- **Provide Maintenance/Repair, Construction and Recurring Maintenance Services** to all Navy activities as well as some Army and Army Reserve activities, Marine Corps activities, and the Coast Guard through a wide range of methods.

* PWC Pearl Harbor's shops provide maintenance/repair, minor construction, and recurring maintenance services by personnel from a variety of construction trades including specialized trades such as asbestos removal, pest control, electronics, and wharfbuilding. Emergency service work response is within two hours. PWC operates a materials procurement, warehousing and distribution department in support of these services. In FY 93 PWC Pearl Harbor's shops provided \$140 million in maintenance/repair, minor construction, and recurring services to our customers.

* PWC Pearl Harbor's Contracting Department provides specification preparation, solicitation, award, and inspection for maintenance/repair, minor construction, recurring maintenance, and service contracts. Major contracts are:

	<u>Projected For FY94</u>
A. Housing Maintenance Contract	\$30 to \$35 million
B. Job Order Contract	\$6 to \$8 million
C. Job Order Contract For Utilities	\$3 to \$5 million
D. Facilities Support Contracts	\$18 to \$20 million
E. Design Build Contracts	\$6 to \$9 million
F. Multi-Trade Contract	\$2 to \$3 million
G. Indefinite Quantity Contracts	\$1.5 million
H. Small Purchases	\$1 million

- **Own and Operate Utilities Systems** that supply the fleet, Naval shore activities and Navy housing, as well as other DOD activities. Utilities include potable water, sewage, electricity, industrial/hygienic compressed air, steam, salt water, boiler feed water, and telephone services.

Command: N62755

- **Provide Engineering Services** on a stand-alone basis as well as in support of PWC's shops and Contracting Department, to all Navy activities, some Army activities, and the Coast Guard.

* Services include architectural/interior designs, engineering studies and investigations, planning, computer mapping, engineering design drawings and specifications, fire protection engineering, topographic and hydrographic surveys, environmental assessments and National Environmental Policy Act (NEPA) documentation, long-range maintenance planning and Annual Inspection Summary (AIS) inspections, asbestos inspections, lead inspections, and utilities systems inspections.

- **Own and Operate Environmental Facilities and Provide Services** to Navy, Army, and Air Force activities in the State of Hawaii.

* The PWC Environmental Laboratory provides sampling, testing, and analysis of hazardous or unknown substances for DOD activities in Hawaii and selected customers throughout the Pacific. The lab is fully certified for the analysis of potable water.

* The PWC Industrial Waste Treatment Plant provides treatment and disposal of industrial and hazardous wastes, and bilge water.

* The PWC Classified Material Destruction Facility provides destruction of sensitive and classified materials, and recovery of silver from the resultant ash.

* PWC Pearl Harbor provides the Regional Spill Response Team for Hazardous Chemical Spills (on land) for all COMNAVBASE Pearl Harbor activities.

* PWC Pearl Harbor provides hazardous waste transportation, storage and disposal services, conducts hazardous waste surveys, and performs environmental remediation of contaminated sites.

* The PWC Hazardous Material Reutilization Center takes in excess hazardous materials and issues them for subsequent use to any Navy activity that requests them, at no charge.

Command: N62755

- **Provide Transportation Services** to the fleet, including operation of heavy equipment in support of repair and construction projects, leasing and rental of vehicles and equipment, maintenance/repair and preventive maintenance for vehicles and equipment, operation of gas stations, and provision of bus services to all Navy activities as well as to the Air Force, Army, Coast Guard, and the Marines.

- **Provide Human Resources Services.** PWC Pearl Harbor operates a Human Resources Program encompassing employment, labor and employee relations and services, employee development, wage and classification services, and equal employment opportunity for all Navy activities (except the Pearl Harbor Naval Shipyard) and some DOD activities.

Projected Missions for FY 2001

- Same as current missions.

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

- PWC Pearl Harbor is the only activity that supplies public works services to the Navy on the island of Oahu.

- Provide Rigging and Crane Services to the fleet for the loading and off-loading of ammunition, cargo, and equipment.

- Own and Operate Environmental Remediation and Disposal Facilities at Barbers Point. The monofill for special wastes is used to dispose of sludge from our wastewater treatment plant at Fort Kamehameha and the Army's plant at Schofield Barracks; this sludge cannot be disposed of at the state landfill because it contains too much oil and fuel. The oily waste landfarm is used to treat and dispose of petroleum and oil from our sewage lift stations, debris from sewer cleaning, and wastewater plant upsets (big slugs of oil). The contaminated soil stockpile facility is used to store petroleum contaminated soil from MILCON projects pending treatment and disposal.

- Purvey Potable Water to DOD activities in the Pearl Harbor area. PWC Pearl Harbor is one of the largest generators of potable water in the State of Hawaii. We own and operate four wells, pumping over 20 MGD through our 400 mile distribution system. The water is fluoridated and chlorinated prior to distribution.

- Own and Operate Sewage Collection, Treatment and Disposal System consisting of nine wastewater treatment plants, 300 miles of line, and 80 major lift stations. The plant at Fort Kamehameha is the largest; it accepts both domestic and industrial wastewater, and is currently being expanded from 7.5 MGD to 13 MGD. Our operation of the Fort Kamehameha plant allows us greater flexibility in accomodating Navy unique wastewater, such as shipyard industrial wastewater and discharges from ships.

Command: N62755

- **Own and Operate Electrical Distribution System** consisting of 500 miles of high voltage lines with associated switchgear and transformer stations. Provide backup power systems to vital installations including nuclear and command/intelligence facilities. Operation of this system enhances our ability to respond to outages. Power is purchased commercially.

Projected Unique Missions for FY 2001

- **New Environmental Services** that will be provided in the near future include:

* Treatment of bilge and industrial wastewater from ships prior to discharge into PWC Pearl Harbor's sewer system; the city will not accept the treated bilge and industrial wastewater because of its high saline content. A new bilge and industrial wastewater facility is scheduled for construction; it will expand our capability six times over our current capability and will provide the opportunity for ships to attain zero discharge of bilge water into the ocean.

* Operation of Hazardous Waste Minimization Program in conjunction with Fleet and Industrial Supply Center Pearl Harbor for the Navy region to reuse and recycle material.

* Expanded capability to treat and dispose of hazardous and industrial wastes from all DOD activities. The new expansion to the Industrial Waste Treatment Plant, scheduled for FY 97 completion, will increase our capability to handle a wider variety of hazardous and industrial wastes, some of which must currently be shipped to CONUS for disposal.

- **New Disposal Facility for Municipal Solid Waste and Bio-Solids.**

* Operation of a co-composting facility for municipal solid waste and bio-solids. Currently disposal of municipal solid waste is contracted out; in FY 93 our customers paid Honolulu Disposal Company \$3.1 million for municipal solid waste disposal.

- **PWC Pearl Harbor does not have any National Command Authority or classified mission responsibilities.**

Command: N62755

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

● Operational name	UIC
<u>Commander, Naval Base Pearl Harbor</u>	<u>N61449</u>
● Funding Source	UIC
<u>NAVFACENGCOM*</u>	_____

* PWC Pearl Harbor is a DBOF activity; however, fiscal and technical oversight is provided by NAVFACENGCOM.

Command: N62755

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 (DBOF)
● Reporting Command	<u>16</u>	<u>1</u>	<u>1468</u>
● Tenants (total)	<u>1</u>	<u>40</u>	<u>27</u> (Appropriated)
			<u>56</u> (Army Appropriated)

Authorized Positions as of 30 September 1994

	Officers	Enlisted	Civilian (DBOF)
● Reporting Command	<u>15</u>	<u>0</u>	<u>1389</u>
● Tenants (total)	<u>1</u>	<u>39</u>	<u>27</u> (Appropriated)
			<u>58</u> (Army Appropriated)

Command: N62755

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

<u>Title/Name</u>	<u>Office</u>	<u>Fax</u>	<u>Home</u>
● CO/OIC			
<u>CAPT James A. Rispoli</u>	(808) 471-3926	(808) 471-5024	(808) 471-0998*
● XO			
<u>CAPT Eduard A. Dailide</u>	(808) 471-3926	(808) 471-5024	(808) 471-0998*
● Staff Civil Engineer/BRAC Coordinator			
<u>Ms. Susan Sugita</u>	(808) 474-3568	(808) 474-2322	(808) 373-7809

* This number may be used 24 hours a day to reach the CO, XO, and Duty Officer.

Command: N62755

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
PACNAVFACENGCOM	N62742	0	0	14
CBU-413	N66648	1	39	0

- Tenants residing on main complex (homeported units.)

Tenant Command Name	UIC	Officer	Enlisted	Civilian
None.				

Command: N62755

- 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
SUBASE Pearl Harbor	N00314	Pearl Harbor	0	0	9
Defense Reutilization and Marketing Office	SH510C	Pearl City	0	0	4
Oahu Consolidated Family Housing Office, Pearl Harbor (Provisional)	W3RBAA	Pearl Harbor	0	0	68
Naval Shipyard*	N00311	Pearl Harbor	0	0	0
Naval Station**	N62813	Pearl Harbor	0	0	25**
Navy Exchange Service Center**	N68897, N41389, N65938	Pearl Harbor	0	0	27**
PWC Credit Union**	N/A	Pearl Harbor	0	0	8**

* Tenant of land only

** Facilities occupied by non-appropriated personnel

- Tenants (Other than those identified previously)

Tenant Command Name	UIC	Location	Officer	Enlisted	Civilian
N/A					

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

Activity name	Location	Support function (include mechanism such as ISSA, MOU, etc.)
U.S. Army Oahu Consolidated Family Housing Office (Provisional)	Pearl Harbor	Utilities, maintenance/repair, disposal services, grounds maintenance, engineering/long-range maintenance planning; host for over 20,000 housing units through MOU and ISSA.
Naval Shipyard	Pearl Harbor	Utilities, communication services, custodial services, maintenance/repair, transportation, and disposal services; host for parking lot through ISSA.
Coast Guard	Red Hill, Sand Island, Barbers Point	Utilities, maintenance/repair, lab services, through ISSA.
NAS Barbers Point	Barbers Point	Utilities and disposal services through ISSA.
Naval Station	Pearl Harbor	Maintenance/repair; host for child care centers and community centers through ISSA.
U.S. Army Support Command	Pearl Harbor, Ford Island	Utilities, maintenance/repair, contracting services, silver recovery, disposal of classified waste, pest control, disposal services, custodial services through ISSA.
U.S. Post Office	Pearl Harbor, Pearl City	Utilities through Support Agreement.
Fleet and Industrial Supply Center	Pearl Harbor	Utilities, transportation services, and human resources services through ISSA.
Defense Commissary Agency	Aiea	Utilities, maintenance/repair, communication services, hazardous waste services, and human resources services through ISSA.

Activity name	Location	Support function (include mechanism such as ISSA, MOU, etc.)
Defense Communication Agency Pacific	Wheeler Air Force Base	Human resources services through ISSA.
Defense Fuel Region Pacific	Aiea	Human resources services through ISSA.
Defense Personnel Support Center	Aiea	Human resources services through ISSA.
Defense Logistics Agency	Aiea	Maintenance/repair, custodial services, communication services, and human resources services through ISSA.
Federal Aviation Administration	Barbers Point	Utilities and disposal services through Support Agreement.
Defense Reutilization and Marketing Office	Pearl City	Maintenance/repair, custodial services, disposal services, communication services, transportation services, and human resources services; host for hazardous waste storage facility through ISSA.
Military Traffic Management	Aiea	Communication services.
Naval Magazine	Lualualei	Utilities, maintenance/repair and various services.
Navy Resale and Services Support Office	Pearl Harbor	Utilities, maintenance/repair, disposal services, and pest control services; host for mini-marts through ISSA.
15th Air Base Wing, Air Force	Hickam Air Force Base	Utilities, maintenance/repair, transportation services, and silver recovery through ISSA.
Naval Antarctic Unit	Antarctic	Human resources services through ISSA.
Defense Printing Service	Pearl Harbor	Human resources services through ISSA.
Commander in Chief, U.S. Pacific Fleet	Pearl Harbor	Utilities, maintenance/repair, and various services.
Naval Base	Pearl Harbor	Utilities, maintenance/repair, and various services.

Activity name	Location	Support function (include mechanism such as ISSA, MOU, etc.)
Naval Ocean Processing Facility	Pearl Harbor	Utilities, maintenance/repair, and various services.
Undersea Surveillance, Pacific Fleet	Pearl Harbor	Utilities, maintenance/repair, and various services.
Shore Intermediate Maintenance Facility	Pearl Harbor	Utilities, maintenance/repair, and various services.
Personnel Support Activity Puget Sound	Puget Sound	Utilities, maintenance/repair, and various services.
Marine Barracks	Pearl Harbor	Utilities, maintenance/repair, and various services.
Naval Surface Group Pacific	Pearl Harbor	Maintenance/repair and various services.
Submarine Force, U.S. Pacific Fleet	Pearl Harbor	Maintenance/repair and various services.
Afloat Training Group	Pearl Harbor	Utilities, maintenance/repair, and various services.
Navy Calibration Laboratory	Lualualei	Utilities, maintenance/repair, and various services.
Naval Submarine Base	Pearl Harbor	Utilities, maintenance/repair and various services; host for office facilities.
Explosive Ordnance Disposal Unit One	West Loch	Maintenance/repair and various services.
Third Naval Construction Brigade	Pearl Harbor	Maintenance/repair and various services.
Fleet Imaging Center Pacific	Barbers Point	Maintenance/repair and various services.
Fleet Integrated Logistics Overhaul Team	Pearl Harbor	Maintenance/repair and various services.
Defense Fuels Supply Center	Pearl Harbor	Maintenance/repair and various services.

Activity name	Location	Support function (include mechanism such as ISSA, MOU, etc.)
Joint Intelligence Center Pacific	Pearl Harbor	Utilities, maintenance/repair, and various services.
Naval Medical Clinic	Pearl Harbor	Utilities, maintenance/repair, and various services.
Patrol Wings, U.S. Pacific Fleet	Barbers Point	Maintenance/repair and various services.
Commander in Chief, Pacific	Aiea	Maintenance/repair and various services.
Camp H. M. Smith	Aiea	Maintenance/repair and various services.
Naval Computer and Telecommunications Area Master Station EASTPAC	Wahiawa	Maintenance/repair and various services.

14. FACILITY MAPS: This is a primary responsibility of the plant account holders/host commands. Tenant activities are not required to comply with submission if it is known that your host activity has complied with the request. Maps and photos should not be dated earlier than 01 January 1991, unless annotated that no changes have taken place. Any recent changes should be annotated on the appropriate map or photo. Date and label all copies.

- **Local Area Map.** This map should encompass, at a minimum, a 50 mile radius of your activity. Indicate the name and location of all DoD activities within this area, whether or not you support that activity. Map should also provide the geographical relationship to the major civilian communities within this radius. (Provide 12 copies.)

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

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

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

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

MAJOR CLAIMANT LEVEL

RADM R. M. GALLEN, CEC, USN
NAME (Please type or print)

Acting Commander
Title

Naval Facilities Engineering Command
Activity



Signature

2-14-94

Date

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

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

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

Acting
Title



Signature

15 Feb 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

JAMES A. RISPOLI
NAME (Please type or print)


Signature

Commanding Officer
Title

4 Feb 94
Date

Navy Public Works Center
Activity

BRAC-95 CERTIFICATION

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

SUSAN SUGITA
NAME (Please type or print)

STAFF CIVIL ENGINEER
Title

STAFF CIVIL ENGINEER
Division

CUSTOMER SERVICES DEPARTMENT
Department

NAVY PUBLIC WORKS CENTER
Activity

Susan Sugita
Signature

4 Feb 1994
Date

Document Separator

123

**DATA CALL 63
 FAMILY HOUSING DATA**

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

Installation Name:	PWC PEARL HARBOR
Unit Identification Code (UIC):	N62755
Major Claimant:	NAVFAC

Percentage of Military Families Living On-Bases:	78%
Number of Vacant Officer Housing Units:	0
Number of Vacant Enlisted Housing Units:	0
FY 1996 Family Housing Budget (\$000):	\$69
Total Number of Officer Housing Units:	10
Total Number of Enlisted Housing Units:	0

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

Enclosure (1)

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

MAJOR CLAIMANT LEVEL

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


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)


Signature

Title

7/25/94
Date

DATA CALL 63
BRAC-95 CERTIFICATION

Reference: SECNAV NOTE 11000 dtd 8 Dec 93

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

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

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

ACTIVITY COMMANDER

L. R. PYLANT, CAPT, CEC, USN
NAME

Acting Commander
Title

Pacific Division
Naval Facilities Engineering Command
Activity


Signature

15 July 1994

Date

Document Separator

28 June 1994

DATA CALL FOR MILITARY VALUE ANALYSES
PUBLIC WORKS CENTERS

Category **INDUSTRIAL SUPPORT**
Type **PUBLIC WORKS CENTERS (PWCs)**
Claimant **COMNAVFACENGCOM**

Notes:

In the context of this Data Call:

1. Base your responses for FY 1994 and previous years on executed workload, and for FY 1995 and subsequent years on workload as programmed. Use the workload as programmed in the FY 1995 Budget Submission and POM-96. Unless otherwise specified, use workload mixes as programmed. In estimating projected workload capabilities, use the activity configuration as of completion of all BRAC-88/91/93 actions.
2. Use a notional work week of single shift operations (1-8-5) as the basis for your calculations. Please identify any processes which, under normal operations, operate on a different schedule.
3. Expand all Tables as necessary to provide complete responses.

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

This document has been prepared in WordPerfect 5.1/5.2 and 6.0.

**DATA CALL FOR MILITARY VALUE ANALYSES
PUBLIC WORKS CENTERS**

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25. Crime Rate 35	82

Table of Acronyms

\$	Dollars
%	Percent
#	Number
ACT	American College Test
AOB	Average on Board
ARC	Alcohol Rehabilitation Center
BAQ	Basic Allowance for Quarters
BEQ	Bachelor Enlisted Quarters
BOQ	Bachelor Officers Quarters
CAD/CAM	Computer Aided Design / Computer Aided Manufacturing
COMNAVFACENGCOM	Commander, Naval Facilities Engineering Command
DoD	Department Of Defense
DoDDS	Department of Defense Dependents Schools
DON	Department of the Navy
ESQD	Explosive Safety Quantity Distance
FSC	Family Service Center
FY	Fiscal Year
FYDP	Future Years Defense Plan
HS	High School
ITT	Information, Tickets and Tours
LF	Linear Feet
MH	Man Hours
MLS	Multiple Listing Service
N / A	Not Applicable
NCIS	Naval Criminal Investigative Service
PN	Number of Personnel accommodated
POM	Program Objectives Memorandum
Qtr	Quarter
SAT	Scholastic Aptitude Test
SF	Square Feet
TY	Then Year
UIC	Unit Identification Code
UMMIPS	Uniform Material Movement and Issue Priority System
VHA	Variable Housing Allowance
W/O	Without
WY	Work Years

MILITARY VALUE DATA CALLPUBLIC WORK CENTERS

Primary UIC: N62755

(Use this number for activity identification at the top of each page.)

Mission Area

1. Customer Base

1.1 In the table below identify your major customers as reflected by your FY 1993 resource allocations. A major customer is defined as an activity that represents: (a) 5% or more of your total cost, or (b) one for which you provided 5% or more of your direct workyears.

Table 1.1: Customer Base

Customer	Customer location	Percent of Costs	# Direct Workyears
Army Housing	Various Location	29	
Shipyard	Pearl Harbor	12	
Naval Station	Pearl Harbor	10	
NAS Barbers Point	Barbers Point	7	
CINCPACFLT Utilities	Pearl Harbor	6	
SUBASE	Pearl Harbor	5	
All Others			
TOTAL		69	

1.2 What percentage of your total FY 1993 direct Man Years was allocated to direct fleet support? 35 %

This percentage is base on revenue from CINCPACFLT.

1.3 What was your overall customer satisfaction rating for FY 1993? 3.6 on a 5 pt scale

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1.4 Identify any specialized, unique or peculiar characteristics about the facilities, equipment, or skills at your activity. Highlight those that are one of a kind within the DON/DoD.

Unique Facilities/Equipment/Skills

- PWC Pearl Harbor is the only activity that supplies public works services to the Navy on the island of Oahu.
- PWC Pearl Harbor Provides Rigging and Crane Services to the fleet for the loading and off-loading of ammunition, cargo, and equipment.
- PWC Pearl Harbor Owns and Operates Environmental Remediation and Disposal Facilities at Barbers Point. The monofill for special wastes is used to dispose of sludge from our wastewater treatment plant at Fort Kamehameha and the Army's plant at Schofield Barracks; this sludge cannot be disposed of at the state landfill because it contains too much oil and fuel. The oily waste landfarm is used to treat and dispose of petroleum and oil from our sewer lift stations, debris from sewer cleaning, and wastewater plant upsets (big slugs of oil). The contaminated soil stockpile facility is used to store petroleum contaminated soil from MILCON projects pending treatment and disposal.
- PWC Pearl Harbor Surveys Potable Water to DOD activities in the Pearl Harbor area. PWC Pearl Harbor is one of the largest generators of potable water in the State of Hawaii. We own and operate four wells, pumping over 20 MGD through our 400 miles distribution system. The water is fluoridated and chlorinated prior to distribution.
- PWC Pearl Harbor Owns and Operates a Sewage Collection, Treatment and Disposal System consisting of nine wastewater treatment plants, 300 miles of line, and 80 major lift stations. The plant at Fort Kamehameha is the largest; it accepts both domestic and industrial wastewater, and is currently being expanded from 7.5 MGD to 13 MGD. Our operation of the Fort Kamehameha plant allows us greater flexibility in accommodating Navy unique wastewater, such as shipyard industrial wastewater and discharges from ships.

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- **PWC Pearl Harbor Owns and Operates an Electrical Distribution System** consisting of 500 miles of high voltage lines with associated switchgear and transformer stations. Provide backup power systems to vital installations including nuclear and command/intelligence facilities. Operation of this system enhances our ability to respond to outages. Power is purchased commercially.
- **The PWC Pearl Harbor Environmental Laboratory** provides sampling, testing, and analysis of hazardous or unknown substances for DOD activities in Hawaii and selected customers throughout the Pacific. The lab is fully certified for the analysis of potable water.
- **Operation of Hazardous Waste Minimization Program** in conjunction with Fleet and Industrial Supply Center Pearl Harbor for the Navy region to reuse and recycle material.
- **New Environmental Services** that will be provided by PWC Pearl Harbor in the near future include:
 - * Treatment of bilge and industrial wastewater is currently being done. As a pilot program, a new bilge and industrial wastewater facility is scheduled for construction that will allow ships to attain zero discharge of bilge water into the harbor.
 - * Expanded capability to treat and dispose of hazardous and industrial wastes from all DOD activities. The new expansion to the Industrial Waste Treatment Plant, scheduled for FY 97 completion, will increase our capability to handle a wider variety of hazardous and industrial wastes, some of which must currently be shipped to CONUS for disposal.
 - * Operation of a new disposal (co-composting) facility for municipal solid waste and bio-solids. Currently disposal of municipal solid waste is contracted out; in FY 93 our customers paid Honolulu Disposal Company \$3.1 million for municipal solid waste disposal.

Family Housing

2.1 In the following table provide the occupancy rate of the family housing units managed/maintained by your activity. For those activities that do not control housing assignment, identify who does. The occupancy rate is requested for each housing area. Provide comments if applicable. The occupancy rate is defined as the total number of days occupied for all units in any given housing area divided by the total number of units times 365 days.

Table 2.1: **Housing**

Housing Area	Total # Units	Occupancy Rate (%)	Comments
PEARL HARBOR (Navy maintained, Army managed)	7082	98.6%	Report Period 10/03/93-05/27/94
ALIAMANU MILITARY RESERVATION (Partially maintained by Navy, Army managed, tri-service occupants)	2597	98.6%	As of 05/06/94
MARINE CORPS BASE HAWAII* (Partially maintained by Navy, Army managed)	1921	98.9%	As of 05/27/94

*Does not include 276 units constructed under Section 802 (on-base: family housing, but not government owned).

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Features and Facilities

3. Availability and Condition

3.1 Identify, by three digit Category Code Number (CCN), *all facilities* at this activity, and their current condition and area in thousands of square feet (KSF), e.g. 210-Maintenance Facilities. Duplicate the table as necessary to report all facilities of any tenants for whom your activity serves as host.

Table 3.1: Facility Conditions

CCN	Descriptive Nomenclature	Condition (KSF)			Total (KSF)
		Adequate	Substandard	Inadequate	
123	VEH FUEL/DISP	1.2 SF			1.2 SF
123	* VEH FUEL/DISP	24 OL	20 OL		44 OL
124	* OPERA FUEL/DISP	30000 GA			30000 GA
131	COMMS-BLDGS	24.1 SF	.7 SF		24.8 SF
135	* COMMS LINES	63.43 MI			63.43 MI
143	SHIP & OTH OP BLDG	42.3 SF			42.3 SF
171	TRAINING BLDGS	39.9 SF			3.9 SF
213	MNT-SHIPS	2.8 SF			2.8 SF
214	MNT-TANK/AUTO	69.5 SF			69.5 SF
219	MNT-INS REP OPN	180.0 SF	144.9 SF	7.6 SF	332.5 SF
310	SCIENCE LABS	4.8 SF			4.8 SF
319	MISC ITEMS & EQ	.2 SF	1.3 SF		1.5 SF
610	ADMIN BLDGS	85.3 SF	32.9 SF		118.2 SF
411	* LIQ FUEL STOR	95 BL			95 BL
412	* LIQ STOR O/T WF		3180 GA		3180 GA

*Units not in KSF

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Table 3.1: Facility Conditions

CCN	Descriptive Nomenclature	Condition (KSF)			Total (KSF)
		Adequate	Substandard	Inadequate	
690	* OTHER ADMIN FAC	1 EA			1 EA
711	FAM HSG/ DWELLG	9,018.1			9,018.1
714	FAM HSG /DET HSG	1,923.5	3.4 SF	2.7 SF	1,929.6 SF
841	WTR SUP/ TMT/ STG	3.8 SF			3.8 SF
841	* WTR-WUP/TMT/STG	360391 KG			360391 KG
841	* WTR-SUP/TMT/STG		12,000,000 GA		12,000,0 GA
842	WATER DIST-POT	10.9 SF	.2 SF		11.1 SF
842	* WATER DIST/POT	2121508 LF			2121508 LF
844	*WTR SUPL/STR NP	576 KG			576 KG
845	* WTR DIST SYS NP	14742 LF			14742 LF
880	* FIRE OTH ALRM	342 BX			342 BX
890	MISC UTIL	8.0 SF	84.1 SF		92.1 SF
890	* MISC UTIL	87114 LF			87114 LF
843	* WTR-FIRE PRO	68486 LF			68486 LF
843	WTR-FIRE PRO	1.2 SF			1.2 SF
730	COMMUNITY FAC	10.7 SF	1.4 SF		12.1 SF
740	COMM FAC-MWR	10.2 SF	2.2 SF		12.4 SF
750	* COMM FAC-MWRX	2 EA			2 EA
811	ELEC PR SOURCE	3.1 SF			3.1 SF
811	* ELEC PR SOURCE	45825 KW			45825 KW
812	ELEC TMSN/ DISTR	15.7 SF			15.7 SF
812	* ELEC TMSN/DISTR	3491680 LF			3491680 LF
813	ELEC PWR SUB/SW	31.3 SF			31.3 SF
813	* ELEC PWR SUB/SW	403193 KV		8000 KV	411193 KV
821	HEAT SOURCE	4.9 SF	48.2 SF		53.1 SF
821	* HEAT SOURCE	696 MB			696 MB

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Table 3.1: Facility Conditions

CCN	Descriptive Nomenclature	Condition (KSF)			Total (KSF)
		Adequate	Substandard	Inadequate	
822	* HEAT-TSMN/DISTR	62165 LF			62165 LF
824	* HEAT/GAS/TMSN	79673 LF			79673 LF
831	SWG TRT & DSP	16.8 SF			16.8 SF
831*	* SWG TRT & DSP	7500 KGD	4 KGD		7504 KGD
832	SWG COLLECT	6.1 SF	.1 SF		6.2 SF
832	* SWG COLLECT	1146843 LF			1146843 LF

Inadequate Facilities.

3.2 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?

3.2A PUBLIC WORKS MAINTENANCE STORAGE/ CCN 219-77

- a. Public Works Maintenance Storage/CCN 219-77
- b. Inadequate because of poor physical condition and poor access.
- c. Currently used for materials storage.
- d. Cost to upgrade to substandard; not feasible.
- e. Can be converted to administration office at a cost of \$350,000, or to a public works shop space for \$200,000; not cost-effective.
- f. General maintenance; major repairs are not cost-effective.
- g. Inadequate rating did not result in a C3 or C4 designation.

3.2B FAMILY HOUSING UNITS/CNN 711

There are no quarters listed as inadequate on PWC Pearl Harbor's Plant Account. All PWC housing has been permitted to the Army's Oahu Consolidated Housing Office for operations and maintenance since 1983. The projects designated as "replacement" (below) will replace 1952 vintage units which cannot be economically repaired and improved to current standards.

The following are programmed MILCON projects that will increase the housing assets presently available. (These assets will be assigned to PWC Pearl Harbor's Plant Account.)

1. Barbers Point: (under construction)
 - a. PN030275 - 116 Units
 - b. PN035222 - 120 Units
2. Doris Miller Park: (construction start fy 95)
H300 - 159 Units

Replacement Projects:

1. FY 93: Moanalua Terrace, Phase I (100 units, funded)
2. FY 94: Moanalua Terrace, Phase II (100 units, planned)
3. FY 96: Moanalua Terrace, Phase III (200 units, planned)
Little Makalapa (30 units, planned)
Red Hill (10 units, planned)
Barbers Point (13 units planned)
Hale Moku, Phase I (146 units)
4. FY 97: Moanalua Terrace, Phase IV (200 units, planned)
Hale Moku, Phase II (200 units, planned)
5. FY 98: Moanalua Terrace, Phase V (152 units, planned)
6. FY 99: Hale Moku, Phase III (210 units, planned)
7. FY 00: NAGMAG Lualualei (14 units, planned)
Pearl City Peninsula (6 units, planned)
Coral Rose, Phase I (350 units, planned)
8. FY 01: Coral Rose, Phase II (192 units, planned)

3.2C FAMILY HOUSING, DETACHED HOUSING/ CCN 714

- a. Family Housing, Detached Housing/CCN 714.
- b. Inadequate because of total obsolescence/deterioration of structures.
- c. These inadequate facilities are currently abandoned. They were formerly used as grounds maintenance sheds, but were abandoned when grounds maintenance work was contracted out.
- d. Cost to upgrade to substandard; not applicable since there no longer is a requirement for these facilities.

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- e. The grounds maintenance sheds could be repaired and converted to storage for the family housing residents. Approximate cost for repairs to all three sheds is \$60,000.
- f. There are no current improvement plans for these facilities.
- g. Inadequate rating did not result in C3 or C4 designation.

4a. ELECTRIC POWER SUBSTATIONS AND SWITCHING STATIONS/ CCN 813

- b. Inadequate because of the physical condition of the structure.
- c. This facility is currently abandoned. It previously served as Switching Station G, but was abandoned when a new switching station was constructed.
- d. Cost to upgrade to substandard; not applicable since there no longer is a requirement for this facility.
- e. This facility could be converted to storage. Approximate cost to remove equipment and convert facility is \$80,000.
- f. There are no current improvement plans for this facility
- g. Inadequate rating did not result in C3 or C4 designation.

Facilities and Features

4. Stand Alone Features

4.1 Identify the support (police, fire protection, etc.) now provided by the host Naval or Marine Corps activity or other source. Add any additional applicable factors. Identify what factors would be needed by your activity if the host facility is closed.

PWC Pearl Harbor owns the land under its main compound, therefore we have no host activity. However, police, fire protection, and child care services are provided to the main compound by Naval Station Pearl Harbor. These services would still be needed if Naval Station Pearl Harbor were to close.

PWC Pearl Harbor has facilities at the Pearl Harbor Naval Shipyard and at Naval Air Station Barbers Point. Table 4.1 has been completed for each of these host activities below.

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Table 4.1: Support Facilities

Host: Pearl Harbor Naval Shipyard

Support	Currently Obtained from:	Needed if Host Closes?
Police	NAVSTA	Yes
Security	PWC	N/A
Fire	NAVSTA	Yes
Cafeteria	Shipyard	No
Parking	PWC	N/A
Utilities	PWC	N/A
Child Care	NAVSTA	N/A

Table 4. 1 Support Facilities

Host: Naval Air Station Barbers Point

Police	NAS Barbers Point	No
Security	PWC	N/A
Fire	NAVSTA	Yes
Cafeteria	N/A	N/A
Parking	PWC	N/A
Utilities	PWC	N/A
Child Care	NAVSTA	N/A

Costs

5. Facility Investment

5.1 List the project number, description, funding year, and value of the *capital improvements at your base completed (beneficial occupancy) during FY 1988 to FY 1994*. Indicate if the capital improvement is a result of BRAC realignments or closures.

Table 5.1: **Capital Improvement Expenditure**

Project	Description	Fund Year	Value (\$K)
P-429	Elec Distr Sys Improv	FY 86	\$13,975
P-095	Water Distr Sys Improv	FY 87	\$ 6,800
P-145	Municipal Sewer Connect	FY 87	\$ 800
P-457	Elec Distr Sys Improv	FY 88	\$11,203
P-453	Elec System Improv	FY 89	\$ 3,760
P-464	Sanitary Wastewater Sys	FY 90	\$ 750
MC	Water Sys Piping	FY 90	\$ 73
MC	Alter Bldg A-3	FY 90	\$ 82
MC	Renov Bldg. X-11	FY 90	\$ 133
MC	Constr Toilets/Showers	Fy 90	\$ 86
MC	Extend Bldg. X-29	FY 90	\$ 46
MC	Provide Security Fence	FY 90	\$ 20
MC	Constr Alarm Bldg. 641	FY 90	\$ 207
MC	PEB Fire Wall/Ramp	FY 90	\$ 24
MC	Refurb Bldg. 686	FY 90	\$ 21
P-504	Auto Vehicle Maint Shop	FY 91	\$ 6,940
MC	New Envir Lab/Offices	FY 91	\$ 143
MC	Waiawa Bridge Fencing	FY 91	\$ 69

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MC	Install Fence Lehua Ave	FY 91	\$ 21
MC	Constr Retention Basin	FY 91	\$ 83
MC	Hale Alii Driveway	FY 91	\$ 77
MC	Sub Cable Circuit M-5	FY 91	\$ 194
MC	Elec Svc Sta B-6	FY 91	\$ 150
MC	Watermain, ISMF	FY 91	\$ 113
MC	Waterline, NCTMS	FY 91	\$ 71
MC	Waterline, Hospital Pt	FY 91	\$ 42
MC	Telemetry Sys, LLL Tunn	FY 91	\$ 230
MC	Grnds Improv, NCTMS	FY 91	\$ 47
MC	Salt Wtr Piping, Bldg 77	FY 91	\$ 183
MC	Low Press Comp Air Sys	FY 91	\$ 148
MC	Replace Bldg 31A	FY 91	\$ 99
MC	Constr Matl Storage Bins	FY 91	\$ 27
P-472	Sewage System Improv	FY 92	\$ 1,650
P-478	Ft Kamehameha WWTP Mod	FY 92	\$ 1,250
MC	Renov Cafeteria	FY 92	\$ 139
MC	Constr Bridge #11	FY 92	\$ 120
MC	Constr Benzene Lab	FY 92	\$ 243
MC	Secur Fence Bldg X-21	FY 92	\$ 22
MC	Pipeline, Boiler/B-26	FY 92	\$ 157
MC	Alt Feeder Sta D-10	FY 92	\$ 134

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MC	Hot Caustic Regenerator	FY 92	\$ 133
MC	Cryogen Tanks, SUBASE	FY 92	\$ 102
MC	Connect Compressors	FY 92	\$ 75
MC	Constr Conf Rm, Bldg 44	FY 92	\$ 40
MC	Security Lighting	FY 93	\$ 30
MC	Reconn Waterline Waikele	FY 93	\$ 246

5.2 List the project number, description, funding year, and value of the *non-BRAC related capital improvements planned* for years FY 1995 through FY 1997.

Table 5.2 Planned Capital Improvements

Project	Description	Fund Year	Value (\$K)
MC	Contr Restrnm	FY 95	\$ 50
MC	Alt Feeder Sta E-26	FY 95	\$ 140
MC	Alt Feeder Sta E-5/5A	FY 95	\$ 120
MC	Undergrd Feeders, Hsg	FY 95	\$ 50
MC	Diesel Eng Dr Bldg 177	FY 95	\$ 155
MC	Remote Salt Water Oper	FY 95	\$ 80
MC	Additn to Bldg 1342	FY 95	\$ 100
MC	Boiler Feedwater Improv	FY 95	\$ 50
MC	Increase Pump Cap, LLL	FY 95	\$ 30
MC	Wtr Pump Sta Sec Fence	FY 95	\$ 30

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MC	Indus CA Remt Dis Vlv	FY 95	\$ 180
MC	Hygen CA Remt Dis Vlv	FY 95	\$ 160
MC	New PEB Matls Warehouse	FY 95	\$ 200
P-491	Sewer Main, Ford Island	FY 96	\$ 180
P-497	Sewer Outfall, FT Kam	FY 96	\$ 160
MC	Remote SCASA, LLL	FY 96	\$ 110
MC	Remote SCADA, Cp Smith	FY 96	\$ 200
MC	Upgrd Elec Distr System	FY 96	\$ 190
MC	Upgrd Elec Sys, Berth M2	FY 96	\$ 180
MC	Alt Feeder Sta H-16	FY 96	\$ 110
MC	SW Remote Distr Valve	FY 96	\$ 200
MC	Instl Swrlne, Bldg 359	FY 96	\$ 160
MC	Instl Swrlne, Bldge 59	FY 96	\$ 145
MC	Cement Wtrlns, Var Loc	FY 96	\$ 110
MC	Instl Ozone Generator	FY 96	\$ 80
MC	Hygen CA Vibra Monitor	FY 96	\$ 160
MC	Package Cogeneration	FY 96	\$ 130
MC	Steam Remote Dis Valve	FY 96	\$ 160
MC	New PEB Matls Warehouse	FY 96	\$ 200
P-442	Elec Distr Sys Improv	FY 97	\$ 7,800
P-480	Emerg Generator System	FY 97	\$ 3,000

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Table 5.2: **Planned Capital Improvements**

Project	Description	Fund Year	Value (\$K)
MC	Undergrd Elec Distr Sys	FY 97	\$ 160
MC	Instl HECO Substation	FY 97	\$ 190
MC	New Circuits C1A/C1A-2	FY 97	\$ 80
MC	Instl Power Sta B-9	FY 97	\$ 35
MC	Instl Remote Mtring	FY 97	\$ 190
MC	Storage Facility Sta Z	FY 97	\$ 65
MC	Storage Facility Sta 3	FY 97	\$ 65
MC	Storage Facility Sta 9	FY 97	\$ 105
MC	Boilr Fdwtr Dis Mtring	FY 97	\$ 185
MC	Strg Fac, Halawa FWPS	FY 97	\$ 135
MC	Instl Ozone Generator	FY 97	\$ 85
MC	Bishop Pt Demineralizer	FY 97	\$ 260
MC	Realign Steamline to Bldg 1247	FY 97	\$ 95
MC	PEB Warehouse, Row 6	FY 97	\$ 60

5. Facility Investment, continued

5.3 List the project number, description, funding year, and value of the *BRAC related capital improvements planned* for FY 1995 through FY 1999.

Table 5.3: Capital Improvement Expenditure

Projec	Description	Fund Year	Value(\$K)
P-539T	Utilities Modifications	FY 96	\$ 2,800
P-538T	PW Shops Relocation	FY 97	\$ 6,450

5. Facility Investment, continued

5.4 Identify by Investment Category Code and Name (e.g. 05-Training Facilities; 14-Administration) the actual investment at your activity, to include all MCON, maintenance and repair, installed equipment, and minor construction, in thousands of dollars (\$ K) over the period FY 1990 through FY 1994 for all your facilities. Report separately all other Class 2 equipment investments. The following table should include your responses to questions 5.1-5.3 above.

Table 5.4: Historic Investment Summary

Investment Category	\$ K
8 - Other maintenance/prod	\$32,543
14 - Administrative	8,471
17 - Utilities	191,809
Equipment (other than Class 2)	
ACTIVITY TOTAL	\$232,823

5.5 What is the total planned investment, in thousands of dollars (\$ K), over the period FY 1995 through FY 2001?

Total planned Investments = \$ 195,077 K

5. Facility Investment, continued

5.6 Provide a list of all other documented major facility deficiencies not addressed in 5.1-5.3 (e.g. major repairs) and the estimated cost to rectify each at this activity.

The data on Table 5.6 is from PWC Pearl Harbor's Maintenance Repair Program (MRP) for FY88 through FY 2001. From FY 88 through FY 93 only major maintenance projects projected to cost over \$75,000 were tracked on the MRP. However, from FY 94 to FY 2001 projects projected to cost over \$15,000 will be tracked on the MRP.

Table 5.6: Facility Deficiencies (FY 88 - FY 94)

Deficiency	Cost to Correct (\$ K)	Result of Corrections
Repl Equip. Red Hill Pump Sta.	372 K	Maintain Operability
Correct SY Fire Prot Deficiency	493 K	Maintain Operability
Repl 6" Wtr Ln Red Hill Tunner	535 K	Maintain Operability
Repl Pmp #1 Waiawa	88 K	Maintain Operability
Repl Wtr Lns LLL	1,226 K	Maintain Operability
Repl Swgr Waiawa	468 K	Maintain Operability
Repl Wtr Lns 6th Street	135 K	Maintain Operability
Install Zone Valves, Various	79 K	Maintain Operability
Repl Wtr Sys Telemetry	227K	Maintain Operability
Repl "8" Ln NSC Fuel Tanks	209 K	Maintain Operability
Repl Master Meters	167 K	Maintain Operability
Reactivate Water Well 3100-02 NCEP	260 k	Maintain Operability
Repl Cable Car B-1, Halawa	147 K	Maintain Operability
Repl Wtr Lns Salt Lake Blvd	394 K	Maintain Operability
		Maintain Operability
		Maintain Operability

Table 5.6: Facility Deficiencies

Deficiency	Cost to Correct (\$ K)	Result of Corrections
Paint/Clean Wtr Lns, Waiawa - Halawa	73 K	Maintain Operability
Correct Water Sys Hazards, NASBP	56 K	Maintain Operability
Repl 6" Wtr Ln LLL Tunnel	338 K	Maintain Operability
Repl 12" Wtr Ln WL - NASBP	883 K	Maintain Operability
Repl Motor Controls B365, Halawa	231 K	Maintain Operability
ISMF Municipal Wtr connected	248 K	Maintain Operability

Table 5.6: Facility Deficiencies

Deficiency	Cost to Correct (\$ K)	Result of Corrections
Repl Wtr Lns, Hokulani Hsg	450 K	Maintain Operability
Rpr/Clean Wtr Tanks, CS, LLL, NASBP	452 K	Maintain Operability
Repl Wtr Ln B294, NAVCAMS	182 K	Maintain Operability
Repl Wtr Ln Hospital Point	102 K	Maintain Operability
Repl Security Gate, Waiawa	91 K	Maintain Operability
Repl Bypass Wtr Lines, Halawa Tanks	173 K	Maintain Operability
Repl Wtr Meter, NSC	121 K	Maintain Operability
Repl Pump #2, NASBP	128 K	Maintain Operability
Repl Wtr Ln, SUBASE	423 K	Maintain Operability

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Table 5.6: Facility Deficiencies

Deficiency	Cost to Correct (\$ K)	Result of Corrections
Repl Centrifuge B1353 FK	502 K	Maintain Operability
Repl Sewr Lns, NASBP & Various Areas	473 K	Maintain Operability
Rpr Swr, McGrew Pt/Pearl City Hsg	625 K	Maintain Operability
TV Inspect/Seal/Rpr Swrs, LLL/RTF	120K	Maintain Operability
Correct Swg Discrepancies B1-B15	211 K	Maintain Operability
Repl Aeration Sys. B1354 FK	184 K	Maintain Operability
TV Inspect/Seal/Rpr Swr, WL	104 K	Maintain Operability
Repl 8"/6" Swr Lines Pearl City	57 K	Maintain Operability
Repl Air Lns FK	214 K	Maintain Operability
TV Clean/Rpr Swr Various	641 K	Maintain Operability
Repl Agitator/Motor B279, Wahiawa	141 K	Maintain Operability
TV Insp/Rpr Lns Various Hsg	277 K	Maintain Operability
Rpr Swg Pond, RTF/LLL	150 K	Maintain Operability
Repl Radion Freq. Tlmtry To Lift Sta. S	869 K	Maintain Operability
Rpr/Pnt Tanks B277/280	196 K	Maintain Operability
Repl Chlorine Tanks B1357	69 K	Maintain Operability
Modify Sludge Removal Equip. FK	175 K	Maintain Operability
Rep Swr Line, F.I.	134 K	Maintain Operability

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Table 5.6: Facility Deficiencies

Deficiency	Cost to Correct (\$ K)	Result of Corrections
Relief Swr Neches Ave	2,190 K	Maintain Operability
Rpl Clarifier (5) Mechanisms	1,800 K	Maintain Operability
Rpl Railings, FK	110 K	Maintain Operability
Modify Motor Control Cntr, Sps 9	133 K	Maintain Operability
Modify Sidestream Piping Bldgs 1347, 1353, 1357	56 K	Maintain Operability
Dechlorination Sys. F.K.	298 K	Maintain Operability
Rpl Chlorine Tank Diffusers	107 K	Maintain Operability
Modify Drying Bed Sumps	50 K	Maintain Operability
Odor Control Sta. S 4/Z	125 K	Maintain Operability
Rpl Aerations, Ft Kam	1,000 K	Maintain Operability
Rpl Ejector Sta. B783, PC	246 K	Maintain Operability
Rpl Pump Sta. X, F.I.	437 K	Maintain Operability

Table 5.6: Facility Deficiencies

Deficiency	Cost to Correct (\$ K)	Result of Corrections
Rpl Classified Material Incinerator	131 K	Maintain Operability
Rpl Acid Tanks B149	92 K	Maintain Operability
Rpl Gates/Screens B149	443 K	Maintain Operability
Reroof B397	106 K	Maintain Operability
Rpr Structure B149 A	268 K	Maintain Operability
Rpr Salt Wtr Line DD#4	175 K	Maintain Operability
Rpr Salt Wtr Line DD#1	290 K	Maintain Operability
Rpr auto Ram Feeder, Incinerator	98 K	Maintain Operability
Paint Interior B149	440 K	Maintain Operability
Reconstruct Boiler Rm B40 F.I.	230 K	Maintain Operability
Auto Power Transfer Sys.	86 K	Maintain Operability
Rpl air Receivers B641 SB	266 K	Maintain Operability
Rpl High Pressure Compressor #5 B641 SB	300 K	Maintain Operability
Rpl 4500 PSI Valves SB	155 K	Maintain Operability
Relocate Dryers B641	92 K	Maintain Operability
Structural Rprs B641	130 K	Maintain Operability

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Deficiency	Cost to Correct (\$ K)	Result of Corrections
Rpr Elec Manholes Sy	102	Maintain Operability
Rpl St Lghts-Halsey Terr Hsg	88	Maintain Operability
Rpl Xfmr/Swgr Sta J18	123	Maintain Operability
Rpl/Retrofit PCB Xfmrs	4,426	Maintain Operability
Rpl Sec Swgr Sta F12	258	Maintain Operability
Rpl Def Telemetry Sta E/C	208	Maintain Operability
Rpl Feeders LLL Hsg	109	Maintain Operability
Rpl Circuit K-1	461	Maintain Operability
Rpl Security Gate B1553	37	Maintain Operability
Rpr Women's Toilet/Shwr B1553	44	Maintain Operability
Rpl 15KV Swgr Ford Is	213	Maintain Operability
Rpl 15KV Swgr Sta L	447	Maintain Operability
PCB Clean up Sta F12	101	Maintain Operability
Rpl Tie Ckt AC2	267	Maintain Operability
Rpl ACR Sta M10A	403	Maintain Operability
Rpl Tie Ckt CJ1	293	Maintain Operability
Prvd/Upgrd Substa B36A	437	Maintain Operability
Rpl 13.8KV Swgr Sta A	273	Maintain Operability
Rpl 11.5KV Swgr Sta R27 C.S	244	Maintain Operability
Rpl 11.5 KV Sub Cbl Ckt M-5	621	Maintain Operability

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Deficiency	Cost to Correct (\$ K)	Result of Corrections
Rpl Tie Ckt EF1	360	Maintain Operability
Rpl Pri Swgr Sta TF-1 Ford Is	291	Maintain Operability
Rpl Tie Ckt EL1	375	Maintain Operability
Rpl 11.5KV Swgr Sta E4 SY	121	Maintain Operability
Rpl 11.5KV Swgr Sta F12	164	Maintain Operability
Rpl 11.5KV Swgr Sta J15	164	Maintain Operability
Rpl 11.5KV Swgr Sta F	232	Maintain Operability
Rpl 11.5KV Swgr Sta TI3 Ford Island	186	Maintain Operability
Rpl 11.5KV Swgr Sta I	306	Maintain Operability
Rpl 11.5Kv Swgr Sta H	253	Maintain Operability
Rpl Ckt P-1 NASBP	477	Maintain Operability
Rpl Primary Swgr Sta H-12	162	Maintain Operability
Rpl Primary Swgr Sta R8	58	Maintain Operability
Rpl 11.5KV Swgr Sta A1	752	Maintain Operability
Rpl 11.5KV Swgr Sta D	279	Maintain Operability
Rpr Sta B NASBP	87	Maintain Operability
Rpl Primary Ckt Ford Island	1,669	Maintain Operability
Rpl Primary Swgr Sta TB1 Ford Island	116	Maintain Operability
Rpl Fdrs Sta B-1/Rpr Sta E11	370	Maintain Operability
Rpl Swgr Sta E	1,131	Maintain Operability

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Deficiency	Cost to Correct (\$ K)	Result of Corrections
Rpl 11.5KV Swgr Sta B	1,675	Maintain Operability
Rpl 11.5KV Swgr Sta C Bus A/B	1,342	Maintain Operability
Rpl Primary Swgr Sta E10	87	Maintain Operability
Rpl Primary Swgr Sta E20	175	Maintain Operability
Rpl Primary Swgr Sta H10	61	Maintain Operability
Rpl Primary Swgr Sta S445	113	Maintain Operability
Rpl Defective ACR Sta J27	108	Maintain Operability
Rpl Circuit C1 SY	382	Maintain Operability
Rpl Str Lghts PC Hsg	55	Maintain Operability
Rpl Str Lghts Manana Hsg	66	Maintain Operability
Rmv Asbestos Manholes	1,000	Maintain Operability
Rpl Air Cmprsr (LP) B641 SB	557	Maintain Operability
Rpl Compressor Lns B641	95	Maintain Operability
Demolish Excess Eqpt B177	752	Maintain Operability
Renew Heat Exch B177	143	Maintain Operability
Rpl Cooling Twrs B641	99	Maintain Operability
Rpl Compressed Air Lns B177	112	Maintain Operability
Rpr Air Lns DD#4	150	Maintain Operability
Rpr Paint Air Lns DD#1	300	Maintain Operability

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Table 5.6: Facility Deficiencies (FY 94 - FY 2001)

Deficiency	Cost to Correct (\$ K)	Result of Corrections
Strct Rpr/Paint Bldg X-12	380	Maintain Operability
Rpr Bldg 13	50	Maintain Operability
Rpl Wndw A/C's Bldg A-4	80	Maintain Operability
Rpr/Rnv B-A8	80	Maintain Operability
Rpr Bldg A-3	150	Maintain Operability
Rpr/Paint B55	100	Maintain Operability
Pnt Int/Ext B62	70	Maintain Operability
Rpr/Rnv B-A4	100	Maintain Operability
Rpr/Rnv B75	80	Maintain Operability
Reroof Bldg X29	60	Maintain Operability
Rpr/Rnv B212	100	Maintain Operability
Rpr/Paint B44	100	Maintain Operability
Rpr/Rnv B-X11	500	Maintain Operability
Ventilation Imp Bldg 44	80	Maintain Operability
Pave/Imprv Matl Storage Yard	310	Maintain Operability
Rpr Ovrhng B35A	200	Maintain Operability
Strct Rpr/Paint Bldg X-29	135	Maintain Operability
Rpr/Pnt B-X17	125	Maintain Operability

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Table 5.6: Facility Deficiencies*

Deficiency	Cost to Correct (\$ K)	Result of Corrections
Reroof Bldg 44	50	Maintain Operability
Rpr Roof Bldg 1526	50	Maintain Operability
Rpr/Pnt Bldgs Var Loc	170	Maintain Operability
Rmv Asbsts Tile Bldg 55	25	Maintain Operability
Rpr/Rnv B116	15	Maintain Operability
Rpr/Rnv B40	110	Maintain Operability
Rpr/Rnv B-X29	250	Maintain Operability
Ventilation Imp Bldg X-6	35	Maintain Operability
Rmv Underground Storage Tanks	550	Maintain Operability
Rpr Pavln/Rstrms	80	Maintain Operability
Rpr Bldg X-17	75	Maintain Operability
Rpr/Rnv C-27	300	Maintain Operability
Pave/Improve Parking Area	30	Maintain Operability
Install Fire Sprinklers B-A3	300	Maintain Operability
Rpr Rstrm Drain Bldg A4	30	Maintain Operability
Rplc Wndw A/C's Bldg 55	80	Maintain Operability

Table 5.6: Facility Deficiencies

Deficiency	Cost to Correct (\$ K)	Result of Corrections
Rpr/Pnt B-MP3	80	Maintain Operability
Rpr/Pnt B-X11	120	Maintain Operability
Safety Improve Bldg X-6	80	Maintain Operability
AIS Rpr Bldg 62	30	Maintain Operability
AIS Rpr Bldg A-7	30	Maintain Operability
Rpr/Rnv B-A4	100	Maintain Operability
Rnv Bldg 35	300	Maintain Operability
Rpr Building X5	100	Maintain Operability
Rpr Building 40	200	Maintain Operability
Rehab B-X29 Shp Space	150	Maintain Operability
Reroof/Struct Rpr B-X20	160	Maintain Operability
Rp Flr Bldg 35B	300	Maintain Operability
Rpr/Paint B-C27	150	Maintain Operability
Struct Rpr/Pnt Bldg A-8	100	Maintain Operability
B13 Instl Fire Sprinklers	200	Maintain Operability
Rpr/Pnt Bldg 75	100	Maintain Operability
Drainage/Safety Improvement	200	Maintain Operability
Install Fire Sprinklers, New West Oahu Wldng Shop	150	Maintain Operability
Reroof Bldg 55	150	Maintain Operability

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Table 5.6: Facility Deficiencies

Deficiency	Cost to Correct (\$ K)	Result of Corrections
Rpr/Paint B-A13	100	Maintain Operability
AIS Rprs B1484	50	Maintain Operability
Install Fire Sprinklers X-29	300	Maintain Operability
Install Fire Sprinklers B4	150	Maintain Operability
Rpr Cafeteria Restrooms	60	Maintain Operability
Reroof Bldg A12	100	Maintain Operability
Rpr PWC Gas Sta	80	Maintain Operability
Rpr Bldg X-24	200	Maintain Operability
Rpr/Pnt Bldg A4	120	Maintain Operability
Rpr/Pnt Bldg A3	120	Maintain Operability
Rpr Bldg 38,59	70	Maintain Operability
EXT OUT EIS	1,000	Maintain Operability
CENTRIFUGE	300	Maintain Operability
RPL AER	1,000	Maintain Operability
RPR DIG	2,500	Maintain Operability
FLAM CONTMT	30	Maintain Operability
RPL ELEC COND	75	Maintain Operability
SLPLN SO AVE 30"	300	Maintain Operability

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Table 5.6: Facility Deficiencies

Deficiency	Cost to Correct (\$ K)	Result of Corrections
SLPLN SO AVE 27"	300	Maintain Operability
RPR VAR LS	200	Maintain Operability
SLPLN CATLIN	200	Maintain Operability
RPL CINCPAC STA	15	Maintain Operability
RPL S/B MAINS	50	Maintain Operability
S/L MAIN, S/B	150	Maintain Operability
ODR CNTRL VAR STA	75	Maintain Operability
RPL VAR SEW LAT	200	Maintain Operability
MISC SPCFIC WK	700	Maintain Operability
REPLC CENTRIFUGE	250	Maintain Operability
STA 9 SCRUBBER	500	Maintain Operability
STA M SCRUBBER	300	Maintain Operability
RPL/SLPLN WTRFRNT	600	Maintain Operability
RPR/RPL V-DOCK L/S PIPING	350	Maintain Operability
RPL 27 FM, 9-FK	2,500	Maintain Operability
RPL PUULO A FM-CTY	350	Maintain Operability
SLPLN 27/30 SO AV	1,500	Maintain Operability
SLPLN 30/36 SO AV	1,000	Maintain Operability
RPL SWWCAS/DOMES CONN, S/B, N/S	700	Maintain Operability

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Table 5.6: Facility Deficiencies

Deficiency	Cost to Correct (\$ K)	Result of Corrections
RPL FM-IROQ BAY TO W/L	850	Maintain Operability
RPL WAIP PLT	100	Maintain Operability
RPL/RPR V-DOCK SWWCAS LINE	300	Maintain Operability
SLPLN 30/36 SO AV	300	Maintain Operability
RPL SWWCAS UNDR PIER PIPING	250	Maintain Operability
RPL SCADA	100	Maintain Operability
REP SEW LAT	150	Maintain Operability
SLPLN MAINS-VAR	700	Maintain Operability
RPL M/H	80	Maintain Operability
SLPLN NORTH RD	2,000	Maintain Operability
SLPLN C/SM FEED C/S TO MAOAN RD	2,000	Maintain Operability
RPL FM, L/S M TO STA 9	1,500	Maintain Operability
B1342 IMP	250	Maintain Operability
ODOR CONTROL	250	Maintain Operability
SLPLN MOAN RD TO STA 1	2,000	Maintain Operability
FM STA S20-M	1,500	Maintain Operability

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Table 5.6: Facility Deficiencies

Deficiency	Cost to Correct (\$ K)	Result of Corrections
EXT LTG/COMM	150	Maintain Operability
GRND IMP	100	Maintain Operability
RPL F/M WL	4,000	Maintain Operability
P/C RPL SWWCAS H	2,000	Maintain Operability
RPV RD	150	Maintain Operability
RPL DIFF USERS	500	Maintain Operability
RPL PRI SWGR C-5	235	Maintain Operability
RPL SWGR BPA	235	Maintain Operability
RPL SWGR TF-7	260	Maintain Operability
RPL SWGR/XFMR STA 4, BP	260	Maintain Operability
CONSOLIDATE STATION M1/M7 LOADS	210	Maintain Operability
RPL SWGR/XFMR STA TF-12	310	Maintain Operability
RPL SWGR/XFMR STA E-22	210	Maintain Operability
RPL SWGR/XFMR STA D-11	210	Maintain Operability
RPL SWGR C-2	210	Maintain Operability
RPR RELAY PROBLEM STA'S F, J15, C1, J, M10	210	Maintain Operability
RPR SWGR B-5	210	Maintain Operability
RPR XFMR STA B-3	210	Maintain Operability
RPL CIRCUIT E-6	2,500	Maintain Operability

Table 5.6: Facility Deficiencies

Deficiency	Cost to Correct (\$ K)	Result of Corrections
RPL SWITCHGEAR STA J-3	1,000	Maintain Operability
RPL CIRCUIT B-4	600	Maintain Operability
RPL 2.4KV SWITCHGEAR STA A-1	150	Maintain Operability
RPR SUBSTA S-11 WESTLOCH	600	Maintain Operability
RPL POLES/TRANSFORMERS, MANANA	1,000	Maintain Operability
RPL SWGR/XFMR STA S. BP	335	Maintain Operability
RPL PRI SWGR STA G-20	190	Maintain Operability
RPL SWGR/XFMR STA E-3	210	Maintain Operability
RPL SWGR/XFMR STA K-1	210	Maintain Operability
RPL PRI SWGR STA E-1	210	Maintain Operability
RPL PRI SWGR STA E-5	210	Maintain Operability
RPL PRI SWGR STA J-21	210	Maintain Operability
RPL PRI SWGR STA J-13	160	Maintain Operability
RPL PRI SWGR STA J-14	160	Maintain Operability
RPL SWGR/XFMR STA K-9	135	Maintain Operability
RPL PRI/SEC/XFMR STA K-4	135	Maintain Operability
RPL PRI/SEC/XFMR STA K-8	135	Maintain Operability
RPL PRI/SEC/XFMR STA K-6	135	Maintain Operability
RPL SWGR STA A-2	160	Maintain Operability
RPL PRI/SEC STA A-4	160	Maintain Operability

Table 5.6: Facility Deficiencies

Deficiency	Cost to Correct (\$ K)	Result of Corrections
RPL PRI/SEC/XFMR STA D-3	135	Maintain Operability
RPL SWGR STA TR-11, FORD ISLAND	200	Maintain Operability
RPL SWGR STA TF-8, FORD ISLAND	200	Maintain Operability
RPL SWGR STA TF-5, FORD ISLAND	200	Maintain Operability
RPL SWGR STA TD-8, FORD ISLAND	200	Maintain Operability
RPL SWGR STA TD-7, FORD ISLAND	200	Maintain Operability
RPL SWGR STA TD-5, FORD ISLAND	200	Maintain Operability
RPL SWGR STA TD-3, FORD ISLAND	200	Maintain Operability
RPL SWGR STA TD-2, FORD ISLAND	200	Maintain Operability
RPL SWGR STA TA-1, FORD ISLAND	200	Maintain Operability
RPL SWGR STA K-14	200	Maintain Operability
RPL SWGR STA K-10	200	Maintain Operability
RPL SWGR STA E-12	100	Maintain Operability
RPL SWGR/XFMR STA C-1	200	Maintain Operability

Table 5.6: Facility Deficiencies

Deficiency	Cost to Correct (\$ K)	Result of Corrections
RPR ELEC DUCTS DD2	160	Maintain Operability
RPL UNDERGROUND FDR'S LLL HSG	160	Maintain Operability
MODIFY 2.4KV SYS SB	160	Maintain Operability
RPL SWGR.XFMR STA G-26	185	Maintain Operability
RPL SWGR G-23	165	Maintain Operability
RPL DOCK/INDUSTRIAL OUTLET SB	135	Maintain Operability
RPL PRI/SEC/XFMR STA D-3	185	Maintain Operability
RPL SWGR STA TG-1, FORD ISLAND	200	Maintain Operability
RPL SWGR STA TI-1, FORD IS	200	Maintain Operability
RPL SWGR STA TI-2, FORD IS	200	Maintain Operability
RPL SWGR STA TL-2, FORD ISLAND	200	Maintain Operability
RPL SWGR STA G-13	200	Maintain Operability
RPL SWGR STA G-16	200	Maintain Operability
RPL SWGR STA K-16	200	Maintain Operability
RPL SWGR STA B-24	200	Maintain Operability
RPL SWGR STA D-9	200	Maintain Operability
RPL SWGR STA E-6	200	Maintain Operability
RPL SWGR STA E-24	200	Maintain Operability
RPL SWGR STA F-16	200	Maintain Operability

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Table 5.6: Facility Deficiencies

Deficiency	Cost to Correct (\$ K)	Result of Corrections
RPL SWGR STA F-17	200	Maintain Operability
RPL SWGR STA H-15	200	Maintain Operability
RPL SWGR STA G-8	200	Maintain Operability
RPL SWGR STA TC-2, FORD ISLAND	350	Maintain Operability
RPL SWGR STA TC-4, FORD ISLAND	350	Maintain Operability
RPL SWGR STA TD-1, FORD ISLAND	200	Maintain Operability
RPL SWGR STA TD-6, FORD ISLAND	200	Maintain Operability
RPL SWGR STA TG-3, FORD ISLAND	200	Maintain Operability
RPL XFMR STA F-10	200	Maintain Operability
RPL SWGR STA J-4	500	Maintain Operability
RPL SWGR/XFMR STA J-5	300	Maintain Operability
RPL SWGR STA J-11	300	Maintain Operability
RPL SWGR STA J-24	200	Maintain Operability
RPL SWGR STA K-12	200	Maintain Operability
RPL SWGR STA K-13	200	Maintain Operability
RPL SWGR STA K-20	200	Maintain Operability
RPL SWGR STA K-23	200	Maintain Operability
RPL SWGR STA K-26	200	Maintain Operability
RPL SWGR STA M-6	200	Maintain Operability

Table 5.6: Facility Deficiencies

Deficiency	Cost to Correct (\$ K)	Result of Corrections
CONSOL LOADS STA F-20	200	Maintain Operability
RPL XFMR STA J-10	200	Maintain Operability
RPL XFMR STA J-15	200	Maintain Operability
RPL XFMR STA K-20	200	Maintain Operability
RPL XFMR STA M-12	200	Maintain Operability
MISC CABLE FAULTS IN NES	950	Maintain Operability
MISC SUBSTA FAULTS IN NES	950	Maintain Operability
MISC POLE AND LINE FAULTS IN NES	600	Maintain Operability
RPL PRMP CNTRL RCFD	30	Maintain Operability
RPL CABLE CAR HALAWA	250	Maintain Operability
RPR WAIAWA OUTFALL	20	Maintain Operability
INSTALL AUTO TRANSFER SWITCH, WAIAWA	150	Maintain Operability
INSTALL AUTO TRANSFER SWITCH, BARBERS POINT	100	Maintain Operability
INSTALL AUTO TRANSFER SWITCH, RED HILL	100	Maintain Operability
RPR RED HILL MAIN HEADER	75	Maintain Operability
RPR RESEVOIR, S270,LLL	120	Maintain Operability
PAINT INTERIOR, HALAWA	75	Maintain Operability

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Table 5.6: Facility Deficiencies

Deficiency	Cost to Correct (\$ K)	Result of Corrections
RPL CHLORINATOR-BP, HALAWA, RH	30	Maintain Operability
PNT INTERIOR, BARBERS PT	25	Maintain Operability
RPL BLOWER, BARBERS PT	25	Maintain Operability
RPL BLOWER, HALAWA	25	Maintain Operability
RPL SCADA EQPT WAIAWA, HALAWA, RH	45	Maintain Operability
RPR FLUORIDE EQPT- VARIOUS AREAS	35	Maintain Operability
RPR BOOSTER PUMPS- MANANA, HALAWA, RH	30	Maintain Operability
SCADA IMPROVEMENTS	200	Maintain Operability
RPL VENT DUCTS	200	Maintain Operability
PNT INTERIOR RED HILL PUMPING STA	75	Maintain Operability
PNT INTERIOR , HALAWA PUMPING STA	75	Maintain Operability
RPL SCRTY FNC HALAWA PUMP STA	75	Maintain Operability
RPL SECURITY FENCE BARBERS PT PUMP STA	75	Maintain Operability
PNT RED HILL WATER LN	480	Maintain Operability
RPR WATER SPHERE, S-2494	350	Maintain Operability
REPLC TANK S2	2,500	Maintain Operability

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Table 5.6: Facility Deficiencies

Deficiency	Cost to Correct (\$ K)	Result of Corrections
RPL LATERALS, PC HOUSING	610	Maintain Operability
INSTALL ZONE VALVES &	200	Maintain Operability
INSTALL BACKFLOW PREVENTER, HAFB	250	Maintain Operability
INSTALL 3 BACKFLOW PREVENTERS, HAFB	70	Maintain Operability
INSTALL BACKFLOW PREVENTERS, ALAMANU	70	Maintain Operability
REVERSE BWS METER, FORT WEAVER ROAD	20	Maintain Operability
RPL WATER LINES, CS	350	Maintain Operability
RPL LINES, HALAWA VALLEY	185	Maintain Operability
RPL LINES, HOSPITAL PT	100	Maintain Operability
RPL 12 " WATER LINE, HOTEL PIERS	30	Maintain Operability
PNT WATER LINES UNDER PIERS	75	Maintain Operability
RPR PIPING SUPPORT UNDER PIERS, NS	65	Maintain Operability
RPR WATER LINES, WESTLOCK	30	Maintain Operability

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Table 5.6: Facility Deficiencies

Deficiency	Cost to Correct (\$ K)	Result of Corrections
RPR WATER LINES, SHIPYARD AREAS	60	Maintain Operability
RPL PRESSURE REDUCING VALVES, LLL&CS	20	Maintain Operability
RPL AIR RELIDF VALVES VARIOUS AREAS	20	Maintain Operability
RPL BACKFLOW PREVENTERS VAR AREAS	50	Maintain Operability
RPL HALAWA TANK LINES	100	Maintain Operability
RPL WATERLINES SUBBASE	100	Maintain Operability
RPL WATERLINES LLL TEXAS TUNNEL	225	Maintain Operability
RPL 6" INTREPID LEX F1	360	Maintain Operability
CEMENT LINE PH, WL, HAL,CS	1,110	Maintain Operability
ZONE VALVES PC	160	Maintain Operability
RPL 6" & 8" LINES B11, F1	260	Maintain Operability
WATER METER, F1	310	Maintain Operability
RPR PIER WATERLINES, F DOCKS F1	260	Maintain Operability
RPR PIER WATERLINES, V DOCKS WL	210	Maintain Operability
RPR WATER LINES, LUALUALEI	60	Maintain Operability

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Table 5.6: Facility Deficiencies

Deficiency	Cost to Correct (\$ K)	Result of Corrections
RPL WATERLINES, PC	260	Maintain Operability
RPR EXPANSION JOINTS, HALAWA	75	Maintain Operability
INSPECT LUALUALEI WATER INTAKE TUNNEL	75	Maintain Operability
INSTALL CHECK VALVE MILLER PARK	75	Maintain Operability
REPLC TNK S1	2,500	Maintain Operability
TERMITE TREAT B297	25	Maintain Operability
VAR SPD JOCKER PUMPS	110	Maintain Operability
RPR SCADA AYATEM	30	Maintain Operability
OVERHAUL SW PUMP NO. 1 & 2 (BLDG 149)	40	Maintain Operability
OVERHAUL SW PUMP NO. 3 & 4 (BLDG 149)	40	Maintain Operability
OVERHAUL SW PUMP NO. 5 & 6 (BLDG 149)	40	Maintain Operability
RPL VARIABLE SPEEDCONRTOLLER,B826	55	Maintain Operability
OVERHAUL SW PUMP NO. 1&2 (BLDG 826)	50	Maintain Operability
OVERHAUL SW PUMP NO. 1 & 2 (BLDG 1649)	50	Maintain Operability

ACTIVITY: PWC PEARL HARBOR N62755

Table 5.6: Facility Deficiencies

Deficiency	Cost to Correct (\$ K)	Result of Corrections
OVERHAUL SW PUMP NO. 3 & 4 (BLDG 1649)	50	Maintain Operability
RAISE SALT WATER PIPING SB	260	Maintain Operability
PNT SALT WATER LINE UNDER PIERS	105	Maintain Operability
RPL OUTLER VALV B21-M4	40	Maintain Operability
RPR PIPE HANGERS, B21-M4	20	Maintain Operability
RPL PPG SUPT & HANGERS, SUBASE	20	Maintain Operability
RPL OUTLER VALVES, SUBASE	20	Maintain Operability
RPL SALTWATER LINE IN B177	35	Maintain Operability
RPL BRAVO DOCKS BYPASS	520	Maintain Operability
PROVIDE DISTRIB VALVES	140	Maintain Operability
RPL OUTLER VALVES, SHIPYARD	120	Maintain Operability
RPR PPG SPT & HANGERS, SHIPYARD	80	Maintain Operability
RPL AIR TRAPS, SHIPYARD	40	Maintain Operability
RPL #3 BOILER FEED PUMP	15	Maintain Operability
RETUBE BOILER	15	Maintain Operability
RPL FUEL STORAGE TANK	20	Maintain Operability
RPR ROOF B149	70	Maintain Operability

ACTIVITY: PWC PEARL HARBOR N62755

Table 5.6: Facility Deficiencies

Deficiency	Cost to Correct (\$ K)	Result of Corrections
RESURFACE PARKING AREA B149	50	Maintain Operability
B149/B177 FUEL LOAD AREA	60	Maintain Operability
HSQ SCADA MAINTENANCE	100	Maintain Operability
RPL EARTHBERM & FUEL TANKS	400	Maintain Operability
PNT BLDG 149 STACK & TNKS	400	Maintain Operability
PNT STEAM LINE PIERS	20	Maintain Operability
RPL PORT BOILER #2306 FEED PUMPS	15	Maintain Operability
RPL PORTABLE BOILER #2306 CHEM FEED SYS	15	Maintain Operability
OVERHAUL NO. 3 COMPRESSOR MOTOR	15	Maintain Operability
REMOVE UNDERGROUND STORAGE TANK B641	40	Maintain Operability
OVERHAUL AIR COMPRESSOR NO.4	90	Maintain Operability
OVERHAUL #3 COOLING TOWER FAN	15	Maintain Operability
OVERHAUL COOL TOWER HEAT EXCHANGER NO. 1	40	Maintain Operability
OVERHAUL AIR COMPRESSOR NO.1	90	Maintain Operability

Table 5.6: Facility Deficiencies

Deficiency	Cost to Correct (\$ K)	Result of Corrections
OVERHAUL #1 COOLING TOWER FAN	15	Maintain Operability
OVERHAUL COOL TOWER HEAT EXCHANGER NO.2	40	Maintain Operability
OVERHAUL AIR COMPRESSOR NO.2	100	Maintain Operability
OVERHAUL #2 COOLING TOWER FAN	20	Maintain Operability
OVERHAUL COOL TOWER DEEP WELL PUMP NO.1	30	Maintain Operability
OVERHAUL AIR COMPRESSOR NO.3	100	Maintain Operability
OVERHAUL COOL TOWER DEEP WELL PUMP NO.2	30	Maintain Operability
OVERHAUL RECIRCULATION PUMP NO.1	20	Maintain Operability
RPL PIPE SPT UNDER PIERS	40	Maintain Operability
PNT PIPING UNDER PIERS	70	Maintain Operability
RPL OUTLET VALVES , M1- S21	60	Maintain Operability
RPL MOISTURE TRAPS , M1- S21	50	Maintain Operability
RPL OUTLET VALVES, SHIPYARD	80	Maintain Operability
RPL MOISTURE TRAPS, SHIPYARD	100	Maintain Operability

Table 5.6: Facility Deficiencies

Deficiency	Cost to Correct (\$ K)	Result of Corrections
OVERHAUL MAIN CONTROL VALVES (NS & SUBASE)	150	Maintain Operability
OVERHAUL MAIN CONTROL VALVES (SHIPYARD)	150	Maintain Operability
RPL COOL TOWER, B641, SB	150	Maintain Operability
INSTALL AUTO CONDENSATE DRAIN NO. 1&2	55	Maintain Operability
RPR ROOFING FOR BLDG 641 SUBASE	50	Maintain Operability
PNT EXTERIOR OF BLDG 641 SUBASE	40	Maintain Operability
REROUTE TRENCH DRAINS TO SEWER	55	Maintain Operability
INSTALL AUTO CONDENSATE DRAIN NO. 3&4	75	Maintain Operability
OVERHAUL COMPRESSOR NO.7	50	Maintain Operability
RPL DIESEL FUEL TANK	75	Maintain Operability
OVERHAUL COMPRESSOR NO. 1	50	Maintain Operability
INSTALL AUTO CONDENSATE DRAIN NO. 5&6	75	Maintain Operability

ACTIVITY: PWC PEARL HARBOR N62755

Table 5.6: Facility Deficiencies

Deficiency	Cost to Correct (\$ K)	Result of Corrections
OVERHAUL COMPRESSOR NO.2	60	Maintain Operability
INSTALL AUTO CONDENSATE DRAIN NO. 7	40	Maintain Operability
OVERHAUL COMPRESSOR NO.3	60	Maintain Operability
OVERHAUL COMPRESSOR NO.4	60	Maintain Operability
OVERHAUL COMPRESSOR NO.5	60	Maintain Operability
OVERHAUL COMPRESSOR NO.6	60	Maintain Operability
REROOF BLDG 641	30	Maintain Operability
PNT EXTERIOR BLDG 641	20	Maintain Operability
RPR PIPING SPT, S9-S15	20	Maintain Operability
RPR OUTLET VALVES S-16 TO S-21 SUBASE	50	Maintain Operability
RPR DRIP LEGS S-16 TO S-21 SUBASE	30	Maintain Operability
RPR HANGERS AND SPTS S-16 TO S-21 SUBASE	135	Maintain Operability
RPL PIPING SPT S1-8, SB	50	Maintain Operability
RPL DRIPLEG VALVES, S1-8	30	Maintain Operability

ACTIVITY: PWC PEARL HARBOR N62755

Table 5.6: Facility Deficiencies

Deficiency	Cost to Correct (\$ K)	Result of Corrections
RPL OUTLET VALVES, S1-8	30	Maintain Operability
RPL PIPING SPT S9-S15, SB	60	Maintain Operability
RPL DRIPLEG VALVES, S9-S15, SB	40	Maintain Operability
RPL OUTLET VALVES, S9-S15 SUBASE	40	Maintain Operability
RPL PIPING SPT S16-21, SB	60	Maintain Operability
RPL DRIPLEG VALVES S16-21	40	Maintain Operability
RPL OUTLET VALVES, S16-21	40	Maintain Operability

ACTIVITY: PWC PEARL HARBOR N62755

Costs

6. Labor Rates and Expenses

6.1 In the following table provide the requested information, expressed as an hourly rate, on your labor rate as an average of the total direct labor costed to your customers.

Table 6.1: Average Labor Rate

		FY 1993	FY 1997	
Average Direct Labor Rate (less materials)	TLS 26.78	26.93	29.11	29.81 TLS
Production Expense	TLS 10.50	11.18	10.04	7.53 TLS
Overhead (G&A)	TLS 11.04	13.74	11.40	10.38 TLS
Fully Burdened Labor Cost	TLS 48.32	51.85(1)	50.55(2)	47.72 TLS

(1) Code 500 fixed labor rate.

(2) Imputed Code 500 fixed labor rate. In FY 95 PWC will switch to new multi-rate schedule.

6.2 In the following table, provide your G&A expenses as a percentage of total costs, and your Net Operating Results (revenues minus costs) for the years requested.

Table 6.2: Expense Comparisons

Fiscal Year	G&A % of Total Expenses	Net Operating Results (\$ K)
1989	13,449,964 (7.4%) ^{7.1%}	(7,421,369)* TLS (4,743)
1990	13,580,404 (7.3%)	3,266,208 TLS
1991	18,883,150 (9.4%) ^{9.3%}	(5,923,300) TLS
1992	21,899,209 (8.8%) ^{8.7%}	(17,403,661)** TLS (2498)
1993	20,465,311 (8.6%) ^{7.9%}	7,556,601 TLS

TLS DOES NOT Include surcharge of \$2,677,903 (NAVCOMPT/DODCOMPT directed adjustment for MILCON and capital purchases)

TLS DOES NOT** Include surcharge of \$14,906,000 (NAVCOMPT/DODCOMPT directed adjustment for MILCON and capital purchases)

Teresa Smith
Code 1324
7-7-94

Strategic Concerns

7. Mobilization Capability

7.1 Describe any mobilization responsibilities that your activity may be assigned and discuss your capability to carry out those responsibilities. Indicate any corrective action required to fully carry out assigned mobilization tasks.

During mobilization PWC Pearl Harbor's Transportation Department will be responsible for transporting ordnance and fuel, loading and off-loading ships, providing crane/truck/forklift services, and crating and packing.

PWC Pearl Harbor's Maintenance Department and Utilities Department will provide additionally required maintenance and utilities services, and could assist in the erecting of temporary shelters and facilities. PWC Pearl Harbor is able to provide temporary additional shorepower and steam to ships over and above installed capacity in contingency.

PWC Pearl Harbor will also provide transportation, maintenance and utilities services to our customers in support of their mobilization responsibilities.

8. Manpower and Recruiting Issues

8.1 In the following table, identify the average amount of time taken to fill critical vacant positions in the last three years (FY 1991-1993). In addition to those positions listed, you may add three positions that your activity believes to be critical.

Table 8.1: Recruiting Issues

Position	Average Recruitment Time* (months)
Environmental Engineers	1.1
Engineers/Architects (all other)	1.6
Contract Specialists	2.0
High Voltage Electricians	3.1

* From date recruitment received in personnel office until selectee accepted.

Strategic Concerns

9. Natural Inhibitors to Operations

9.1 Identify the percent of the planned work schedule at your facility for the period FY 1990-1993 (averaged by month) interrupted by local weather or natural disasters (i.e., how many Man Years are lost annually by month because of: thunder storm, hurricane, tornado, blizzard, below freezing conditions, earthquake or other performance-impinging natural condition?).

Table 9.1.a: Impact on Operations

	January	February	March	April	May	June
Average % Schedule Interrupted	0	0	0	0	0	0

Table 9.1.b: Impact on Operations

	July	August	September	October	November	December
Average % Schedule Interrupted	0	0	0	0	0	0

Location

10. Proximity to Customers

10.1 In the table below indicate the distance, in road-miles, from main complex to your major customers as identified in Table 1.1. Also, indicate the distance, in road-miles, of your nearest satellite office/facility to the major customers.

Table 10.1: Customer Locations

Major Customer	Distance to:		Comments
	Main Complex (miles)	Nearest Satellite Facility (miles)	
U.S.Army Oahu Consolidated Family Housing Office (Provisional)	*	*	*PWC Pearl Harbor services almost all Navy family housing on Oahu. (Exception is CP Stover, 200 units) The distance between our main compound (or nearest satellite facility) and the housing areas range from 1/4 mile to 10 miles
Naval Shipyard Pearl Harbor	3	N/A	Not serviced by satellite facility
Naval Station Pearl Harbor	2	N/A	Not serviced by satellite facility
Naval Air Station Barbers Pt	18	0	Satellite facility is on-site at NAS Barbers Point
Commander in Chief, U.S. Pacific Fleet, HQ	**	**	**Utilities services to Ships; distances vary.
Naval Submarine Base	2	N/A	Not serviced by satellite facility
Naval Telecommunications Automation Systems Detachment Pacific	18	20	Serviced by satellite facility
Naval Magazine Lualualei	26	14	Serviced by satellite facility

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10.2 For the customer activity which is furthest from your location, what is the distance from main complex and average driving time to that activity?

Activity name: Naval Magazine Lualualei * Distance: 25 miles

Driving Time: 45 minutes

* However Naval Magazine Lualualei and another major customer Naval Telecommunications Automation System Detachment Pacific are both serviced by our satellite facility at Barbers Point, approximate driving times are 20 minutes and 30 minutes respectively.

10.3 What is the closest DON activity that is not serviced by you?

Activity name: N/A Distance: N/A miles
PWC Pearl Harbor services all
Navy activities on Oahu.

Driving Time: N/A minutes

10.4 Identify the closest non-DoN DoD activity that is not serviced by you.

Activity name: Hickam AFB * Distance: 1 miles
Driving Time: 3 minutes

* There are Army activities within 5 - 7 miles of the PWC Pearl Harbor main compound that are not being serviced by PWC.

Environment and Encroachment

11. Environmental Considerations

11.1 Identify all environmental restrictions to expansion at your activity.

Some parcels of PWC Pearl Harbor's property are restricted by flood zones, IR site designation, and wetland designation. Agreements and work procedures have been developed to allow construction in other environmentally sensitive areas (e.g. Native Hawaiian burial MOA for Ft. Kamehameha WWTP expansion, historic preservation MOA for historic structure, construction procedures near wildlife refuge areas, etc.) No environmental "showstoppers" affecting PWC's mission have been identified at this time.

11.2 Describe the undeveloped acreage or waterfront that is unique to the station or facility. Include any acreage that is suitable for industrial development.

UNIQUE: PWC Pearl Harbor owns 42.24 acres of land that was formerly the site of a sanitary landfill. This site has been declared an Installation Restoration site, and is in the process of being cleaned up. We also have 27.38 acres that are planned for future Navy family housing.

SUITABLE FOR INDUSTRIAL DEVELOPMENT: PWC Pearl Harbor owns the following parcels of land that are suitable for industrial development:

A. Manana Housing Area (2 acres) - This parcel has been reported to GSA for disposal. It had been considered as a possible site for a new federal prison.

B. Ewa Junction (25.0 acres) - This parcel is vacant and ideal for industrial development. It was previously proposed for trade to the City and County of Honolulu for use as a rapid transit station.

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11.3 Identify any specific facilities, programs, or capabilities in regard to the handling and disposal of hazardous materials / waste at your activity.

PWC operates the following hazardous waste (HW) facilities

- 1) Conforming Storage Facility - RCRA Part B permitted for hazardous waste storage,
- 2) Industrial Wastewater Treatment Plant - for the treatment of aqueous industrial and hazardous wastewaters, and
- 3) Six PWC 90 - Day HW Accumulation Areas.

PWC has also developed programs for the proper handling and disposal of hazardous materials/waste:

- 1) Hazmin Helper - a comprehensive hazardous material (HM) reutilization and HW accumulation management service for the Pearl Harbor Naval Complex. FISC PH operates the HM reutilization portion and PWC PH operates the 90-day HW accumulation area. The objectives of the program are to minimize HM procurement; maximize use of existing HM; and minimize the HW disposal costs.
- 2) PWC HM Reutilization Program - a program for PWC personnel to turn-in and pickup unused HM. The program reduces HW generation and encourages HM reutilization.

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12. Encroachment Considerations

12.1 Identify any ground, industrial noise, approach channel, waterway, harbor, bridge height, turning basin, ESQD, HERO, airspace or other encroachments of record at your activity.

Table 12.1: Encroachments of Record

Encroachments	Date Recorded	Current Status
NONE		

Quality of Life

13. **MILITARY HOUSING - FAMILY HOUSING**

13.1 **DO YOU HAVE MANDATORY ASSIGNMENT TO ON-BASE HOUSING?**

13.2 **For military family housing in your locale, provide the following information:**

Table 13.2: Available Military Family Housing

Type of Quarters	Number of Bedrooms	Total number of units	Number Adequate	Number Substandard	Number Inadequate
Officer	4+	203	203	NA	NA
Officer	3	733	733	NA	NA
Officer	1 or 2	250	250	NA	NA
Enlisted	4+	1445	1445	NA	NA
Enlisted	3	2778	2778	NA	NA
Enlisted	1 or 2	2135	2135	NA	NA
Mobile Homes	NA	NA	NA	NA	NA
Mobile Home lots	NA	NA	NA	NA	NA

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ACTIVITY: PWC PEARL HARBOR N62755

13.3 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.

- 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?

No inadequate facilities identified.

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13. Military Housing - Family Housing, continued

13.4 Complete the following table for the military housing waiting list. Report Number on list as of 31 March 1994.

Table 13.4: Military Housing Waiting List

Pay Grade	Number of Bedrooms	Number on List	Average Wait
O-6/7/8/9	1	NA	NA
	2	NA	NA
	3	5	6 MONTHS
	4+	2	9 MONTHS
O-4/5	1	NA	NA
	2	NA	NA
	3	34	6 MONTHS
	4+	9	9 MONTHS
O-1/2/3/CWO	1	NA	NA
	2	58	4 MONTHS
	3	9	2 MONTHS
	4+	7	9 MONTHS
E7-E9	1	NA	NA
	2	12	2 MONTHS
	3	33	3 MONTHS
	4+	19	3 MONTHS
E1-E6	1	NA	NA
	2	522	4 MONTHS
	3	73	2 MONTHS
	4+	40	4 MONTHS

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13. Military Housing - Family Housing, continued

13.5 What do you consider to be the top five factors driving the demand for base housing? Does it vary by grade category? No. If so provide details.

Table 13.5: Housing Demand Factors

Top Five Factors Driving the Demand for Base Housing	
1	COST
2	SECURITY
3	LOCALITY
4	CONVENIENCE-CLOSE TO COMMISSARY, EXCHANGE, AND MEDICAL
5	RECREATIONAL FACILITIES

13.6 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)?

100 percent of the housing units meet the requirements set by 10 U.S. Code 2825.

100 %

13.7 Provide the utilization rate for family housing for FY 1993.

Table 13.7: Family Housing Utilization

Type of Quarters	Utilization Rate (%)
Adequate	98.7
Substandard	NA
Inadequate	NA

13.8 As of 31 March 1994, have you experienced much of a change since FY 1993? No. If so, why? If occupancy is under 98% (or vacancy over 2%), is there a reason? N/A

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Quality of Life

14. Military Housing - Bachelor Quarters

14.1 Provide the utilization rate for Bachelor Enlisted Quarters (BEQs) for FY 1993.

Table 14.1: BEQ Utilization

Type of Quarters	Utilization Rate
Adequate	96%
Substandard	93%
Inadequate	78%

14.2 As of 31 March 1994, have you experienced much of a change since FY 1993? No. If so, why? If occupancy is under 95% (or vacancy over 5%), is there a reason? N/A

14.3 Calculate the Average on Board (AOB) for Geographic Bachelors (GB) as follows:

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

365

AOB = 10.42

14.4 Indicate in the following chart the percentage of Geographic Bachelors (GB) by category of reasons for family separation.

Table 14.4: Reasons for Geographic Separation (BEQ)

Reason for Separation from Family	Number of GB	Percent of GB	Comments
Family Commitments (children in school, financial, etc.)	11	100%	9 Financial 2 Schools
Spouse Employment (non-military)	0	0	
Other	0	0	
TOTAL	11	100 %	

14.5 How many enlisted Geographic Bachelors (GB) do not live on base? **Information not available.**

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14. **Military Housing - Bachelor Quarters, continued**

14.6 Provide the utilization rate for Bachelor Officers Quarters (BOQs) for FY 1993.

Table 14.6: BOQ Utilization

Type of Quarters	Utilization Rate
Adequate	95%
Substandard	95%
Inadequate	N/A

14.7 As of 31 March 1994, have you experienced much of a change since FY 1993? No. If so, why? If occupancy is under 95% (or vacancy over 5%), is there a reason? N/A

14.8 Calculate the Average on Board (AOB) for Geographic Bachelors as follows:

$$\text{AOB} = \frac{\text{\# GB} \times \text{average \# days in barracks}}{\text{\# GB}}$$

365

AOB = 6.38

14.9 Indicate in the following chart the percentage of Geographic Bachelors by category of reasons for family separation. Provide comments as necessary.

Table 14.9: Reasons for Geographic Separation (BOQ)

Reason for Separation from Family	Number of GB	Percent of GB	Comments
Family Commitments (children in school, financial, etc.)	5	83%	4 Financial 1 School
Spouse Employment (non-military)	1	17%	Wife working nontransferable
Other	0	0	
TOTAL	6	100	

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14.10 How many officer Geographic Bachelors do not live on base?
We do not have this information available.

15. On Base MWR Facilities

15.1 For on-base MWR facilities available, complete the following table for each separate location. These are spaces designed for a particular use. A single building might contain several facilities, each of which should be listed separately.

For off-base government-owned or leased recreation facilities, indicate their distance from your base. If there are any facilities not listed, include them at the bottom of the table.

LOCATION: NAVAL STATION, PEARL HARBOR DISTANCE ON BASE

Table 15.1: MWR Facilities Summary

Facility	Unit of Measure	Total	Profitable (Y,N,N/A)
Auto Hobby	Indoor Bays	42	N
	Outdoor Bays	29	N
Aerobic, Bloch Arena	SF	3,200	N
Basketball CT (indoor)	SF	8,050	N/A
Basketball CT (outdoor)	Each	5	N/A
Basketball Makalapa (outdoor)	Each	2	N/A
Bowling, Pearl Harbor	Lanes	41	Y
Club, PH Palms (All Hands)	SF	23,264	N
Club, 19th Puka (All Hands)	SF	11,340	Y
Club, Arizona (All Hands)	SF	15,764	N
Club, Banyans (Officers Lounge)	SF	27,000	N
Club, Beemans (All Hands)	SF	20,000	Y
Club, Makalapa Lounge (Officers)	SF	1,155	N
Club, Marina Restaurant (All Hands)	SF	4,030	N

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Table 15.1: MWR Facilities Summary

15. MWR Facilities, continued

Table 15.1: MWR Facilities Summary

Facility	Unit of Measure	Total	Profitable (Y / N / N/A)
Club, Oceans (CPO Lounge)	SF	2,358	N
Club, Pearl (Enlisted Club)	SF	77,300	N
Dependent Activity Cntr	SF	2,856	N
Fitness Cntr Ford Island	SF	3,055	N
Football Fields**	Each	2	N/A
Golf Course	Holes	18	Y
Driving Range	Tee Boxes	40	Y
Gym Bloch Arena	SF	50,000	N/A
Gym Ford Island	SF	41,945	N
Gym SUBASE	SF	21,125	N
ITT*	SF	400	Y
Library	SF	12,000	N
Library	Books	47,561	N/A
Marina	Berths	86	N
Playing Field, General	Each	1	N/A

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ACTIVITY: PWC PEARL HARBOR N62755

Table 5.1: MWR Facility Summary (con't)

Pool (outdoor)	Lanes	41	N
Pool (outdoor) Ford Island	Lanes	5	N
Racquetball CT	Each	10	N/A
Racquetball CT (Ford Island)*	Each	1	N/A
Racquetball CT (Makalapa)	Each	1	N/A
Soccer Fields**	Each	2	N/A
Softball Fields**	Each	5	N/A
Squash CT (Ford Island)*	Each	1	N/A
Squash CT Makalapa	Each	1	N/A
Tennis CT	Each	14	N/A
Tennis CT Ford Island	Each	5	N/A
Tennis CT Makalapa	Each	4	N/A
Theater	Seats	516	Y
Unaccompanied Sailor Activity	SF	1,990	N
Volleyball CT (outdoor)	Each	3	N/A
Volleyball CT (outdoor) Ford Island	Each	1	N/A

* Within a building

** Multipurpose Fields

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15.2 Is your library part of a regional interli loan program?

Yes

Quality of Life

16.Base Family Support Facilities and Programs

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

Table 16.1: **Child Care Availability**

Age Category	Capacity # of Children	SF			# on Wait List	Average Wait (Days)
		Adequate	Substandard	Inadequate		
0-6 Months	0	---	---	---	39	1 yr
6-12 Months	16	1,024	---	---	19	8 mos
12-24 Months	32	810	---	---	16	8 mos
24-36 Months	40	1,728	---	---	24	4 mos
3-5 Years	56	1,008	---	---	42	4 mos

16.2 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?

N/A

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ACTIVITY: PWC PEARL HARBOR N62755

16.3 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.

Child Care Information and Referral (CCI&R) COMNAVBASE

16.4 How many "certified home care providers" are registered at your base? = 147

16.5 Are there other military child care facilities within 30 minutes of the base?

Yes

State owner and capacity (e.g. 60 children, 0-5 years).

<u>NAME</u>	<u>OWNER</u>	<u>AGES</u>	<u>CAPACITY</u>
Aliamnu	Army	12 mos - 5 yrs	74
Fort Shafter	Army	6 wks - 5 yrs	145
Hickam CDC	AF	6 wks - 5 yrs	144
Hickam Day Care	AF	6 wks - 5 yrs	119
Hickam Preschool	AF	6 wks - 5 yrs	72
Montessori Ctr	Private	2 1/2 - 5 yrs	55
Tender Learning	Private	6 wks - 10 yrs	75

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16. Base Family Support Facilities and Programs, continued

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

Table 16.6: Available Services

Service	Unit of Measure	Quantity
Exchange	SF	85,230
Gas Station	SF	1,600
Auto Repair	SF	960
Auto Parts Store	SF	1,100
Commissary	SF	41,499
Mini-Mart	SF	1,100
Package Store	SF	4,000
Fast Food Restaurants	Each	6
Bank/Credit Union	Each	1
Family Service Center	SF	7,457
Laundromat	SF	10,004
Dry Cleaners	Each	2
ARC	PN	Note 1
Chapel	PN	400
FSC Classroom/Auditorium	PN	60

Note 1: ARC will disestablish in September 1994.

Remarks: Table includes services located on Naval Station.

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17. Metropolitan Areas

17.1 Identify proximate major metropolitan areas closest to your base (provide at least three):

Table 17.1: Proximate Metropolitan Areas

City	Distance (Miles)
HONOLULU	10
KAILUA/KANEOHE	30
WAIPAHU	12

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18. VHA Rates Quality of Life

18.1 Identify the Standard Rate VHA Data for Cost of Living in your area:

Table 18.1: VHA Rates

Paygrade	With Dependents	Without Dependents
E1	\$516.17	\$287.17
E2	496.14	312.01
E3	496.96	366.18
E4	548.28	382.66
E5	563.70	393.58
E6	613.58	417.68
E7	655.81	455.57
E8	651.05	492.19
E9	817.47	620.56
W1	660.61	501.71
W2	729.46	572.14
W3	723.03	687.76
W4	696.74	617.76
O1E	651.10	482.96
O2E	647.81	516.48
O3E	719.82	608.97
O1	706.02	520.10
O2	671.19	524.51
O3	687.63	578.94
O4	667.94	580.35
O5	681.79	563.33
O6	744.57	616.29
O7	684.31	555.99

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Quality of Life

19. Off-base Housing Rental and Purchase

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

Table 19.1: Recent Rental Rates

Type of Rental	Average Monthly Rent		Average Monthly Utilities Cost
	Annual High	Annual Low	
Efficiency	850.00	700.00	65.00
Apartment (1-2 Bedroom)	1000.00	900.00	85.00
Apartment (3+ Bedroom)	1200.00	1100.00	105.00
Single Family Home (3 Bedroom)	1600.00	1300.00	135.00
Single Family Home (4+ Bedroom)	1900.00	1600.00	162.00
Town House (2 Bedroom)	1200.00	1000.00	85.00
Town House (3+ Bedroom)	1400.00	1200.00	105.00
Condominium (2 Bedroom)	1100.00	1000.00	85.00
Condominium (3+ Bedroom)	1300.00	1200.00	105.00

9.2 What was the rental occupancy rate in the community as of 31 March 1994?
Occupancy rate for all rental units in 1991 was 97.4%

Source: State of Hawaii Data Book 1992.

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19.3 What are the median costs for homes in the area?

Table 19.3: Regional Home Costs

Type of Home	Median Cost
Single Family Home (3 Bedroom)	350,000.00
Single Family Home (4+ Bedroom)	400,000.00
Town House (2 Bedroom)	199,000.00
Town House (3+ Bedroom)	220,000.00
Condominium (2 Bedroom)	199,000.00
Condominium (3+ Bedroom)	220,000.00

19.4 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.

Table 19.4: Housing Availability

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

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19. Off-base Housing Rental and Purchase, continued

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

Honolulu has the highest housing prices of the major metropolitan areas of the United States. House prices experienced sharp increases (more than doubling) in the late 1980's due in part to speculative investments from Japan, but have remained reasonably stable since then.

Despite soft economic conditions over the last few years, the underlying requirement for housing has remained reasonably strong. All three major sources of outside income to Hawaii (defense, agriculture and tourism) have weakened, however Hawaii remains attractive to migrants particularly due to the weather and other lifestyle reasons. Hawaii has experienced positive net migration both from the continental United States and the Pacific (chiefly from the Philippines).

Also, demand for housing has been stimulated by low interest rates, although recent rises and the prospect of further rises may have some dampening effect on the market. The planned further construction of military housing will have some effect, by reducing the demand for civilian housing by military families.

The cost of land for housing is high. Oahu is a small island, and the vacant land available for new housing is limited by the topography and large military land holdings (the military holds 23 percent of land). Land production costs are also affected by State and County regulatory barriers (planning, zoning and permitting processes) which are more bureaucratic time consuming than in many other locations. There are infrastructure capacity problems and (particularly waste water) which increases production costs and limits expansion.

The isolation of Oahu has resulted in increased building material prices due to high freight costs and probably less competition between suppliers in the small market. Housing production costs are also affected by the higher cost structure in Hawaii - insurance, fuel taxes, etc.

A growing factor for private housing costs is the availability and affordability of homeowners insurance. This factor has most recently been influenced by the September 1992 Hurricane INIKI experience on the neighboring island of Kauai. The high cost of damage repairs and home replacement has forced many insurers to flee Hawaii and created an insurance crisis. While legislative attempts are in progress, this crisis is yet unresolved.

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20. Sea-Shore Opportunities

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

Table 20.1: Sea Shore Opportunities

Rating	# Sea Billets in Local Area	# Shore Billets in Local Area
GSM	153	20
BM	180	140
DC	117	19
EW	65	12
OS	238	101

21. Commuting Distances

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

Table 21.1: Commuting Distances

Location	% Employees	Distance (mi)	Time (min)
AIEA	*	4	15
MAKAKILO	*	27	35
WAIPAHO	*	12	25
PEARL CITY	*	5	20
EWA BEACH	*	25	45

* Information for % employees not available.

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Quality of Life

22. Regional Educational Opportunities

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

22.1 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/ACT 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.

Table 22.1: Educational Opportunities

Institution	Type	Grade Level (s)	Special Education Available	Annual Enrollment Cost /Student	SAT / ACT Score	% HS to College	Source of Info
Aiea Elementary	Public	Primary	Yes	None	N/A	N/A	DOE*
Aiea Intermediate	Public	7 & 8	Yes	None	N/A	N/A	DOE*
Aiea High School	Public	9-12	Yes	None	828	70%	DOE*
Aliamanu Elementary	Public	Primary	Yes	None	N/A	N/A	DOE*
Aliamanu Intermediate	Public	7 & 8	Yes	None	N/A	N/A	DOE*
Hickam Elementary	Public	Primary	Yes	None	N/A	N/A	DOE*
Makalapa Elementary	Public	Primary	Yes	None	N/A	N/A	DOE*
Moanalua Elementary	Public	Primary	Yes	None	N/A	N/A	DOE*
Moanalua High School	Public	9-12	Yes	None	872	80%	DOE

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Table 22.2: Educational Opputunities

Institution	Type	Grade Level (a)	Special Education	Annual Enrollment Cost / Student	SAT / ACT Score	% HS to College	Source of Info
Moanalua Intermediate	Public	7&8	Yes	None	N/A	N/A	DOE*
Mokulele Elementary	Public	Primary	Yes	None	N/A	N/A	DOE*
Nimitz Elementary	Public	Primary	Yes	None	N/A	N/A	DOE*
Pearl Harbor Elementary	Public	Primary	Yes	None	N/A	N/A	DOE*
Pearl Harbor Kai Elementary	Public	Primary	Yes	None	N/A	N/A	DOE*
Radford High School	Public	9-12	Yes	None	841	76%#	DOE*
Red Hill Elementary	Public	Primary	Yes	None	N/A	N/A	DOE*
Scott Elementary	Public	Primary	Yes	None	N/A	N/A	DOE*
Shafter Elementary	Public	Primary	Yes	None	N/A	N/A	DOE*
Salt Lake Elementary	Public	Primary	Yes	None	N/A	N/A	DOE*
Pearl Ridge Elementary	Public	Primary	Yes	None	N/A	N/A	DOE*
Palisades Elementary	Public	Primary	Yes	None	N/A	N/A	DOE*
Pearl City Elementary	Public	Primary	Yes	None	N/A	N/A	DOE*

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Table 22.3:

Institution	Type	Grade Level (s)	Special Education Available	Annual Enrollment Cost / Student	SAT / ACT Score	% HS to College	Source of Info
Pearl City High School	Public	9-12	Yes	None	871	76%#	DOE*
Pearl City Highlands Elementary	Public	Primary	Yes	None	N/A	N/A	DOE*
Calvary Christian School	Parochial	K-8	No	\$2,220. \$2,880.	N/A	N/A	HAIS* *
Holy Family School	Parochial	K-8	No	\$3,200.	N/A	N/A	HAIS* *
Navy Hale Keiki School	Private	K-2	No	\$2,350 \$3,250	N/A	N/A	HAIS* *
Our Savior Lutheran School	Parochial	K-8	No	\$3,222.	N/A	N/A	HAIS* *
St. Timothy's Children's Center	Private	K	No	\$4,440. \$5,940.	N/A	N/A	HAIS* *
ASSETS School	Private	5-14 Ages	Yes	\$8,400.	N/A	N/A	HAIS* *

* Department of Education

** Hawaii Association Of Independent Schools

Statistic include students continuing their education at 2-year community colleges or 4-year universities.

(Public and private schools included in this report represent the Oahu Central District only; Oahu Central District includes all areas surrounding Pearl Harbor)

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22. Regional Educational Opportunities, continued

22.2 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 applicable boxes.

Table 22.2: Off-Base Educational Programs

Institution	Type Classes	Program Type				
		Adult High School	Vocational Technical	Undergraduate		Graduate
				Courses only	Degree Program	
Chaminade University	Day	No	No	Yes	Yes	Yes
	Night	No	No	Yes	Yes	Yes
Hawaii Pacific University	Day	No	No	Yes	Yes	Yes
	Night	No	No	Yes	Yes	Yes
Honolulu Community College	Day	No	No	Yes	Yes	No
	Night	No	No	Yes	Yes	No
Kapiolani Community College	Day	No	No	Yes	Yes	No
	Night	No	No	Yes	Yes	No
Leeward Community College	Day	No	No	Yes	Yes	No
	Night	No	No	Yes	Yes	No
University of Hawaii	Day	No	No	Yes	Yes	Yes
	Night	No	No	Yes	Yes	Yes
Wayland Baptist University	Day	No	No	Yes	Yes	No
	Night	No	No	Yes	Yes	No
Embry Riddle Aeronautical	Day	No	No	Yes	Yes	No
	Night	No	No	Yes	Yes	No

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Table 22.2: Off-Base Education Programs

Institution	Type Classes	Program Type				
		Adult High School	Vocational Technical	Undergraduate		Graduate
				Courses only	Degree Program	
Central Michigan University	Day	No	No	No	No	Yes
	Night	No	No	No	No	Yes
University of Oklahoma	Day	No	No	No	No	Yes
	Night	No	No	No	No	Yes
Troy State University	Day	No	No	No	No	Yes
	Night	No	No	No	No	Yes
Heald Business College	Day	No	Yes	No	No	No
	Night	No	Yes	No	No	No
Aiea/Moanalua Community School for Adults	Day	Yes	No	No	No	No
	Night	Yes	No	No	No	No
Hawaii Business College	Day	No	Yes	No	No	No
	Night	No	Yes	No	No	No
Hawaii Institute for Hair Design	Day	NO	Yes	No	No	No
	Night	No	No	No	No	No

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Table 22.2: Off-Base Educational Programs

Institution	Type Classes	Program Type				
		Adult High School	Vocational Technical	Undergraduate		Graduate
				Courses Degree	Degree Program	
New York Technical Institute of Hawaii	Day	No	Yes	No	No	No
	Night	No	Yes	No	No	No

22. Regional Educational Opportunities, continued

22.3 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 applicable boxes.

Table 22.3: On-Base Educational Programs

Institution	Type Classes	Program Type				
		Adult High School	Vocational Technical	Undergraduate		Graduate
				Courses only	Degree Program	
Chaminade University of Honolulu	Day	No	No	No	Yes	Yes
	Night	No	No	No	Yes	Yes
	Correspondence	No	No	No	No	No
Hawaii Pacific University	Day	No	No	No	Yes	Yes
	Night	No	No	No	Yes	Yes
	Correspondence	No	No	No	No	No
Aiea/Moanalua Community Adult Education	Day	Yes	No	No	No	No
	Night	Yes	No	No	No	No
	Correspondence	No	No	No	No	No

Quality of Life

23. Spousal Employment Opportunities

23.1 Provide the following data on spousal employment opportunities.

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Table 23.1: Spouse Employment

Skill Level	# Military Spouses Served by FSC Spouse Employment Assistance			Local Community Unemployment Rate (%)
	1991	1992	1993	
Professional	Files Destroyed	65	48	N/A
Manufacturing	Files Destroyed	1	0	N/A
Clerical	Files Destroyed	162	174	N/A
Service	Files Destroyed	140	179	N/A
Other	Files Destroyed	27	42	N/A
Unemployment Rate Yearly	2.3%	3.2%	3.2%	—

24. Medical / Dental Care

24.1 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.

Our military personnel have readily available and convenient access to medical care in both the military and civilian health care systems. The Naval Medical Clinic has expanded the number of sick-calls per day and our sailors can also make sick-call appointments by phone. Cooperative agreements between the Naval Medical Clinic and Tripler Army Hospital have improved access for routine specialty consults and reduced the lost time when personnel must be TAD to the Medical Hold Company. Other new initiatives for improving the health of our sailors include Psychology Outreach programs to Fleet units, assorted Women's Health programs, and wellness programs related to smoking cessation, mental health, and preventive medicine.

24.2 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.

Our military family members have a wide assortment of quality medical care services available in both the military and civilian communities. Hawaii's participation in the TRI-CARE (CHAMPUS) allows the family member flexibility obtaining low cost, convenient, and personalized care. Additionally, the military medical facilities have been able to expand the size and scope of their services. Besides the usual in-patient and out-patient care services, the Army/Navy/Air Force medical services have developed several Family Wellness and Women's Health Programs.

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Our military family members have a wide assortment of quality medical care services available in both the military and civilian communities. Hawaii's participation in the TRI-CARE (CHAMPUS) allows the family member flexibility obtaining low cost, convenient, and personalized care. Additionally, the military medical facilities have been able to expand the size and scope of their services. Besides the usual in-patient and out-patient care services, the Army/Navy/Air Force medical services have developed several Family Wellness and Women's Health Programs.

Quality of Life

25. Crime Rate

25.1 Complete the table below to indicate the crime rate for your activity for the last three fiscal years. The source for case category definitions to be used in responding to this question are found in the NCIS Manual, dated 23 February 1989, at Appendix A, entitled "Case Category Definitions." Note: the crimes reported in this table should *include* (a) 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* (b) all reported criminal activity off base.

Table 25.1.a: Local Crime Rate

Crime Definitions	FY 1991	FY 1992	FY 1993
1. Arson (6A)	65	5	11
Base Personnel - military	4	0	3
Base Personnel - civilian	2	0	0
Off Base Personnel - military	3	2	0
Off Base Personnel - civilian	9	1	7
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	1	1
Base Personnel - military	0	0	0
Base Personnel - civilian	0	0	0
Off Base Personnel - military	0	0	0
Off Base Personnel - civilian	0	1	1

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Table 25.1.a: Local Crime Rate

Crime Definitions	FY 1991	FY 1992	FY 1993
4. Postal (6L)	2	1	0
Base Personnel - military	0	0	0
Base Personnel - civilian	0	0	0
Off Base Personnel - military	1	0	0
Off Base Personnel - civilian	1	1	0

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25. Crime Rate, continued

Table 25.1.b: Local Crime Rate

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)	157	198	171
Base Personnel - military	20	37	32
Base Personnel - civilian	20	19	23
Off Base Personnel - military	59	59	51
Off Base Personnel - civilian	137	144	126
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)	145	157	145
Base Personnel - military	29	34	31
Base Personnel - civilian	12	15	21
Off Base Personnel - military	26	19	22
Off Base Personnel - civilian	124	87	85

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25. Crime Rate, continuedTable 25.1.c: **Local Crime Rate**

Crime Definitions	FY 1991	FY 1992	FY 1993
9. Larceny - Personal (6T)	378	551	561
Base Personnel - military	139	157	185
Base Personnel - civilian	58	67	59
Off Base Personnel - military	128	167	143
Off Base Personnel - civilian	210	192	27
10. Wrongful Destruction (6U)	433	525	541
Base Personnel - military	217	169	192
Base Personnel - civilian	37	64	49
Off Base Personnel - military	147	107	143
Off Base Personnel - civilian	219	175	192
11. Larceny - Vehicle (6V)	166	256	191
Base Personnel - military	118	60	91
Base Personnel - civilian	2	3	9
Off Base Personnel - military	68	134	61
Off Base Personnel - civilian	90	69	49
12. Bomb Threat (7B)	231	257	253
Base Personnel - military	22	33	39
Base Personnel - civilian	18	19	34
Off Base Personnel - military	86	105	83
Off Base Personnel - civilian	158	260	228

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25. Crime Rate, continued

Table 25.1.d: Local Crime Rate

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)	189	169	160
Base Personnel - military	111	80	68
Base Personnel - civilian	32	18	13
Off Base Personnel - military	113	113	104
Off Base Personnel - civilian	197	148	147
15. Death (7H)	18	15	9
Base Personnel - military	2	6	3
Base Personnel - civilian	0	0	0
Off Base Personnel - military	15	8	6
Off Base Personnel - civilian	15	14	6
16. Kidnapping (7K)	3	0	2
Base Personnel - military	0	0	0
Base Personnel - civilian	2	0	0
Off Base Personnel - military	0	0	2
Off Base Personnel - civilian	3	0	1

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25. Crime Rate, continued

Table 25.1.e: Local Crime Rate

Crime Definitions	FY 1991	FY 1992	FY 1993
18. Narcotics (7N)	12	9	14
Base Personnel - military	0	0	6
Base Personnel - civilian	1	0	3
Off Base Personnel - military	7	1	3
Off Base Personnel - civilian	11	13	11
19. Perjury (7P)	0	3	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	9	0
20. Robbery (7R)	11	5	3
Base Personnel - military	1	2	0
Base Personnel - civilian	0	0	2
Off Base Personnel - military	2	0	0
Off Base Personnel - civilian	12	7	2
21. Traffic Accident (7T)	543	598	634
Base Personnel - military	336	248	289
Base Personnel - civilian	171	144	188
Off Base Personnel - military	231	208	190
Off Base Personnel - civilian	350	314	344

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25. Crime Rate, continued**Table 25.1.f: Local Crime Rate**

Crime Definitions	FY 1991	FY 1992	FY 1993
22. Sex Abuse - Child (8B)	11	3	9
Base Personnel - military	2	0	0
Base Personnel - civilian	3	0	0
Off Base Personnel - military	5	2	6
Off Base Personnel - civilian	19	6	8
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)	10	5	8
Base Personnel - military	4	2	3
Base Personnel - civilian	1	1	2
Off Base Personnel - military	2	0	7
Off Base Personnel - civilian	9	3	4
25. Sodomy (8G)	0	2	0
Base Personnel - military	0	4	0
Base Personnel - civilian	0	1	0
Off Base Personnel - military	0	0	0
Off Base Personnel - civilian	0	0	0

THIS INFORMATION IS NOT APPLICABLE TO PWC PEARL HARBOR. THE DATA ON THIS PAGE WAS PROVIDED BY COMNAVBASE PEARL HARBOR IN BRAC-95-DATA CALL 37.

ACTIVITY: PWC PEARL HARBOR N62755

ACTIVITY LISTING :

Type	Title	Location
PWC	PUBLIC WORKS CENTER GREAT LAKES	Great Lakes IL
PWC	PUBLIC WORKS CENTER GUAM	Guam
PWC	PUBLIC WORKS CENTER JACKSONVILLE	Jacksonville FL
PWC	PUBLIC WORKS CENTER NORFOLK	Norfolk VA
PWC	PUBLIC WORKS CENTER PEARL HARBOR	Pearl Harbor HI
PWC	PUBLIC WORKS CENTER PENSACOLA	Pensacola FL
PWC	PUBLIC WORKS CENTER SAN DIEGO	San Diego CA
PWC	PUBLIC WORKS CENTER WASHINGTON DC	Washington D.C.

HEADQUARTERS LISTING:

Type	Title
PWC	Commander, Naval Facilities Engineering Command

PEARL HARBOR

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

7/7/94
Date

Title

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)

J. B. GREENE, JR.

NAME (Please type or print)
ACTING

J. B. Greene, Jr.
Signature
12 JUL 1994

Title

Date

ACTIVITY: PWC PEARL HARBOR
N62755

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."

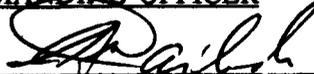
The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

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 COMMANDING OFFICER

E. A. DAILIDE
NAME (Please type or print)


Signature

Commanding Officer, acting
Title

28 JUN 94
Date

Navy Public Works Center, Pearl Harbor
Activity

BRAC-95 CERTIFICATION

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

Myung Lee

NAME (Please type or print)

Head

Title

Financial Planning I

Division

Comptroller

Department

PWC Pearl

Activity

Myung Lee

Signature

2/27/94

Date

Certification for Data Call 55

Questions 1.1, 1.2, 1.3, 5.4, 5.5, 6.1, 6.2

Enclosure (1)

ACTIVITY: PWC PEARL HARBOR
N62755

BRAC-95 CERTIFICATION

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

Susan Sugita
NAME (Please type or print)

Susan Sugita
Signature

PWC Staff Civil Engineer
Title

27 June 1994
Date

Staff Civil Engineer
Division

Customer Services
Department

PWC Pearl
Activity

Certification for Data Call 55
Questions 1.4, 3.1, 3.2, 4.1, 5.1, 5.2, 5.3, 5.4,
7.1, 9.1, 10.1, 10.2, 10.3, 10.4, 11.2

ACTIVITY: PWC PEARL HARBOR
N62755

BRAC-95 CERTIFICATION

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

SPENCE, CONRAD R
NAME (Please type or print)

ASSISTANT HOUSING OFFICER
Title

27A
Division

20
Department

PWC
Activity

[Signature]
Signature

6.27.94
Date

Certification for Data Call 55
Question 2.1 (Navy housing)

ACTIVITY: PWC PEARL HARBOR
N62755

BRAC-95 CERTIFICATION

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

EVELYN BOOTH
NAME (Please type or print)

Housing Manager
Title

Fort Shafter Area Office
Division

Department of the Army
Department

Oahu Consolidated
Family Housing (Provisional)
Activity

E Booth
Signature
27 Jun 94
Date

*Certification for Data Cell 35
Question 2.1 (Aliamane housing)*

ACTIVITY: PWC PEARL HARBOR
N62755

BRAC-95 CERTIFICATION

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

NATHAN EISEN PRESS
NAME (Please type or print)

UTILITIES PROGRAM MANAGER
Title

CODE 610PM
Division

UTILITIES
Department

PWC PEARL HARBOR
Activity

Nathan Eisen Press
Signature

27 JUNE 94
Date

Certification for Data Call 55

Questions 5.1, 5.2, 5.6 (utilities projects)
only

ACTIVITY: PWC PEARL HARBOR
N62755

BRAC-95 CERTIFICATION

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

Murna Fong
NAME (Please type or print)

Personnel Staffing Specialist
Title

Employment
Division

HRD
Department

PWC PEARL
Activity

Murna Fong
Signature

6/27/95
Date

Certification for Data Cell 55
Question 8.1

ACTIVITY: PWC PEARL HARBOR
N62755

BRAC-95 CERTIFICATION

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

Ralph Wakumoto
NAME (Please type or print)


Signature

Suprv Envr Engr
Title

27 Jun 94
Date

301
Division

Environmental
Department

PWC PEARL
Activity

Certification for Data Call 55
Questions 11.1 and 11.3

Document Separator

123

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

1 JUNE 1994

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

INDEX

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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 tenant activities with UICs that are covered in this response.

Not applicable. FWC Pearl Harbor is host to nine tenants who occupy minor areas of some of our excess facilities space, and in one instance a small parcel of land for parking. We do not cover any of them in this data call.

1. ENDANGERED/THREATENED SPECIES AND BIOLOGICAL HABITAT

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

SPECIES (plant or animal)	Designation (Threatened/ Endangered)	Federal/ State	Critical / Designated Habitat (Acres)	Important Habitat (acres)
Fulica americana alai - American Coot	endangered	Federal and State	0	50 +/-
Himantopus mexicanus knudseni - Black-necked Stilt	endangered	Federal and State	0	50 +/-
Gallinula chloropus sandvicensis - Common Moorhen	endangered	Federal and State	0	50 +/-
Anas wyvilliana - Hawaiian Duck	endangered	Federal and State	0	50 +/-
Asio flammeus sandwichensis -Short-eared Owl	endangered	State	0	50 +/-

Source Citation: Natural Resources Management Plan, Pearl Harbor Complex, Feb. 1991

1b.

<p>Have your base operations or development plans been constrained due to:</p> <ul style="list-style-type: none"> - USFWS or National Marine Fisheries Service (NMFS)? - State required modifications or constraints? <p>If so, identify below the impact of the constraints including any restrictions on land use.</p> <p>Noise and building constraints near the wildlife refuge.</p>	<p>YES/NO</p> <p>Yes</p>
<p>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.</p>	<p>YES/NO</p> <p>No</p>

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.

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? ¹	YES/NO Yes
Has a wetlands survey in accordance with established standards been conducted for your base?	YES/NO No
When was the survey conducted or when will it be conducted?	FY 95
What percent of the base has been surveyed?	0
What is the total acreage of jurisdictional wetlands present on your base?	100 +/-

Source Citation: Mr. Tim Sutterfield, PACNAVFACENGCOM Code 236

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.

Our Data Call 1 submission contained a drawing showing the wetland areas within Pearl Harbor. The drawing shows our definitely known wetlands at Pearl City Peninsula, but does not show all our jurisdictional wetland areas.

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? Yes If YES, summarize the results of such modifications or constraints.

Construction plans must be modified to avoid wetlands.

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
--	---------------

¹Wetlands are located at Pearl City Peninsula, approximately five miles from the PWC Pearl Harbor Main Compound.

A partial inventory of historic buildings and structures was conducted in 1978 as part of the Historic Preservation Plan for the U. S. Naval Base, Pearl Harbor National Historic Landmark.

It is noted that this inventory was solely confined to the boundaries of the landmark which includes only a modest portion of our property. In addition, no inventory was performed of the archaeological sites, such as known historic fishponds.

The one known historically significant archaeological site that we manage is the portion of a Native Hawaiian burial area at the Fort Kamehameha Wastewater Treatment Plant near the mouth of Pearl Harbor. This site is discussed more fully below in response to question 3C.

3b.

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

The Pearl Harbor Preservation Plan is governed by a Memorandum of Agreement (MOA) established among the Navy, the Hawaii State Historic Preservation Officer, and the Advisory Council on Historic Preservation. This plan establishes a set of procedures for any construction related activities impacting buildings and structures that have been classified as Categories 1, 2 and 3. For PWC Pearl Harbor, a total of 31 buildings/structures are classified as Categories 1 or 2, and 66 buildings/structures are classified as Category 3.

In addition, construction in conjunction with the expansion of the Fort Kamehameha Wastewater Treatment Plant in 1991 and again in 1992 resulted in the creation of a MOU to deal with issues pertaining to archaeological sites and Native Hawaiian burials that were present in the project area. The 1992 MOA is still in effect and is being applied to continued construction of the plant expansion.

3c.

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

The Fort Kamehameha Wastewater Treatment Plant was constructed in an area now known to contain Native Hawaiian human remains. Given the fact that more than 35 burials have been identified and removed from within the boundaries of the expanded plant area, it is certain that this area was traditionally used as a burial ground and that other burials are still present, possibly under existing facilities.

4. ENVIRONMENTAL FACILITIES

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

4a.

Does your base have an operating landfill?					YES
ID/Location of Landfill	Permitted Capacity (CYD) (1)		Maximum Capacity (CYD)	Contents ¹	Permit Status
	TOTAL	Remaining			
NASBP Monofill	unknown	130,000 CY	unknown (2)	Dried sewage sludge (3)	Permit expired 9/1/92 (4)
NASBP Oily Waste Landfarm	5,000 CY (5)	4000 CY (6)	5,000 CY	Oily wastes from sewerlines and wet wells	Permit expired 9/1/92 (4)
NASBP Contaminated Soil Stockpile Facility	6,000 CY	0	6,000 CY	Petroleum contaminated soil	Temporary Solid Waste Management Storage permit expires 2/2/95

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

Notes:

(1) Permits do not specify capacity.

(2) Design capacity is stated as "unknown" on the Solid Waste Annual Report, 6 Jan 94. Monofill is located in 15-foot deep coral pit approximately 15 acres.

(3) Only dried sewage sludge is stockpiled presently, but in the past, asbestos waste and sanitary debris were buried there.

(4) By agreement with State, we currently operate under the Solid Waste Management Permit that expired 9/1/92 until the State issues a new permit.

(5) Includes two cells, each with ~ 2500 cubic yard capacity. Only one cell is currently in use.

(6) Remaining capacity may be irrelevant since wastes may be removed from the cell after bioremediation is completed.

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

Yes. These are projects developed to install air monitoring systems, line the monofill, line the old OWLF cell and install groundwater monitoring wells.

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

The Army delivers sludge from the Schofield Wastewater Treatment Plant.

4c.

Does your base have any disposal, recycling, or incineration facilities for solid waste?					YES
Facility/Type of Operation	Permitted Capacity	Ave Daily Throughput	Maximum Capacity	Permit Status	Comments
Classified Material Destruction Facility	N/A	2400 lbs/day	2700 lbs/hr	Air permit required and obtained.	

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
ID/Location of WWTP	Permitted Capacity	Ave Daily Discharge Rate	Maximum Capacity	Permit Status	Level of Treatment/Year Built
WWTP at Ft Kam, Pearl Harbor, HI	7.5 MGD	6.6 MGD (1)	23 MGD	See reply to question below	Secondary/1970
Main Trickling Filter Plant/ NCTAMS, Wahiawa	0.285 MGD	0.0945 MGD (1)	0.54 MGD	See reply to question below	Secondary/1961

B397/ NCTAMS, Wahiawa	0.0108 MGD	unknown (2)	0.022 MGD	See reply to question below	Secondary/1973
B396/ NCTAMS, Wahiawa	0.0016 MGD	unknown (2)	0.0032 MGD	See reply to question below	Secondary/1973
B395/ NCTAMS, Wahiawa	0.0096 MGD	unknown (2)	0.0192 MGD	See reply to question below	Secondary/1973
B399/ NCTAMS, Wahiawa	0.004 MGD	unknown (2)	0.004 MGD	See reply to question below	Secondary/1973

- (1) Avg for 1994 (Jan -Mar)
(2) No flowmeter at plant due to inconsistent low flow

List permit violations and discuss any projects to correct deficiencies.

1. WWTP at Fort Kamehameha

Permit Status: We currently have a NPDES permit re-application with the State. We were given an extension to our existing permit (which expired in Feb 93) until the State can draft our new permit.

Permit Violations: We received a Notice of Violation from the State on 25 Mar 93 for: exceeding permit limitation for suspended solids (between Jul 90 to Sep 90) and 6 safety and health, 10 maintenance and 5 operational deficiencies which were noted during a DOH inspection on 19 Feb 91.

Projects to Correct: Current projects to correct the deficiencies are as follows:

- 1) Replacement of five clarifier mechanisms in plant's pre-existing clarifiers (FY92 Project, Spec No. 90-2385).
- 2) Construct New 5th Final Clarifier (FY92 MCON P-482)
- 3) New Headworks, 3rd Primary Clarifier, 6th Secondary Clarifier, One Aeration Tank, 3rd Anaerobic Digester, Effluent Filter, UV Disinfection (FY93 MCON P-483)

2. WWTP at NCTAMS - Main Trickling Filter Plant

Permit Status: We currently have an NPDES permit re-application with the State. We were given an extension to our existing permit (which expired on 30 Jun 93) until the State can draft our new permit.

Permit Violation: We received a Notice of Violation from the State on 25 Mar 93 for exceeding permit limitations for residual chlorine, total nitrogen, total phosphorus, fecal

coliform BOD, TSS and pH.

Projects to Correct: The current project to correct the deficiency is to consolidate the 4 package plants to the main trickling filter plant then connect to the City and County system (FY94 MCON P-486).

3. Building 397, NCTAMS, Wahiawa

Permit Status: Same as the Main Trickling Filter Plant.

Permit Violations: We received an Notice of Violation from the State on 25 Mar 93 for exceeding permit limitations for residual chlorine, total nitrogen, total phosphorus, BOD, TSS and pH.

Projects to Correct: Same as the Main Trickling Filter Plant.

4. Building 396, NCTAMS, Wahiawa

Permit Status: Same as the Main Trickling Filter Plant.

Permit Violations: Same as the Main Trickling Filter Plant.

Projects to Correct: Same as the Main Trickling Filter Plant.

5. Building 395, NCTAMS, Wahiawa

Permit Status: Same as the Main Trickling Filter Plant.

Permit Violations: We received an Notice of Violation from the State on 25 Mar 93 for exceeding permit limitations for residual chlorine, total nitrogen, total phosphorus, BOD, and fecal coliform.

Projects to Correct: Same as the Main Trickling Filter Plant.

6. Building 399, NCTAMS, Wahiawa

Permit Status: Same as the Main Trickling Filter Plant.

Permit Violations: We received an Notice of Violation from the State on 25 Mar 93 for exceeding permit limitations for residual chlorine, total nitrogen, total phosphorus, BOD, TSS and pH.

Projects to Correct: Same as the Main Trickling Filter Plant.

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.

See Attachment A.

4f.

Does your base operate an Industrial Waste Treatment Plant (IWTP)?					YES
ID/Location of IWTP	Type of Treatment	Permitted Capacity	Ave Daily Discharge Rate	Maximum Capacity	Permit Status
Bldg 1385, PH Naval Complex	Neutralization, chemical decomposition, metal removal, chrome reduction, organic removal, sludge dewatering	N/A (RCRA exempt)	4000-6000 gpd to the sewer	17,000 gal for storage and treatment	RCRA exempt

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

A new Industrial Waste Treatment Center (IWTC, constructed under FY94 MCON P-468) is currently being designed to replace the IWTP. The IWTC will be permitted under the Conforming Storage Facility RCRA Part B Permit (see item 5b) and will have a larger capacity and be able to treat a wider range of wastes.

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

No. (The bilgewater process is described in item 4l.)

4h.

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

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

N/A

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

See Attachment B.

4j.

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

4k.

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

* Other NPDES permits:

1. NPDES Permit No. HI 0110221
Naval Magazine Lualualei Sewage Ponds
See Attachment C for permit conditions
2. NPDES Permit No. HI 1121105
Building 177, Air Compressor Facility
See Attachment D for permit conditions

3. NPDES Permit No. HI 1120907
 Building 826, Air Compressor Facility
 See Attachment E for permit conditions

Currently, PWC does not have an industrial stormwater permit. The Navy submitted a group permit. However, a multi-sector general permit has not been finalized by EPA. COMNAVBASE will submit a Notice of Intent (NOI) permit application to the State of Hawaii DOH in Fall 94. A consultant has been hired to prepare a Stormwater Pollution Prevention Plan, which is scheduled for completion by Jan 95.

4l.

YES/NO

Does your base have bilge water discharge problem?	No. *
Do you have a bilge water treatment facility?	Yes

* PWC Pearl Harbor does not set policy in bilge water discharge at Pearl Harbor. We do not have any operational relationship with the ships.

Explain:

Currently PWC owns and operates two Bilge Water Process Units. These units are portable and are currently operating at the dockside. Eventually PWC plans to obtain two more Process Units and to have a permanent facility constructed.

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
--	-----

As the provider of utilities services and other environmental services, we expect some impact to our operations. Two areas that we are expecting the most impact from is in the air program and the lead program. Currently, based on the recently developed State Implementation Plan (SIP) the State of Hawaii Department of Health (SDOH) in accordance with the Federal Environmental Protection agency (EPA) have deemed the entire Pearl Harbor Naval Complex as a single source. Therefore, all activities which occupy parcels bound within the regulatory definition of the "Complex" will now need to manage their air programs together. All affected activities may have to limit hours of operation or modify their equipment with the best available control technology so that ambient air quality standards are not exceeded.

The new lead regulations will affect primarily our housing, but will also affect our training programs, laboratory certification requirements and provide guidance for lead-contaminated soil issues. Although most of the regulations have not been released yet, many of the requirements of the Residential Lead-Based Paint Hazard Reduction Act (affecting our housing) are effective beginning Jan 95.

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.

Yes, the following MILCON projects will increase the capacity of PWC Pearl Harbor's environmental facilities:

1. FY93 P-483 WWTP Improvements at Fort Kamehameha - to increase the treatment plant capacity from 7.5 MGD to 13 MGD
2. FY94 P-486 Wastewater Collection System Improvements- to increase system capacity by 22,900 lineal feet of sewerline
3. FY94 P-468 Industrial Waste Treatment Complex- the new facilities will provide the ability to comply with Public Law 98-616 (to maximize neutralization of hazardous materials).
4. FY97 P-497 Extend Fort Kamehameha WWTP Outfall- to extend the outfall 4300 lineal feet.

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

No.

5. AIR POLLUTION

5a.

<p>What is the name of the Air Quality Control Areas (AQCA) in which the base is located?</p> <p style="text-align: center;">State of Hawaii</p>
<p>Is the installation or any of its OLFs or non-contiguous base properties located in different AQCA's? No _____ . List site, location and name of AQCA.</p>

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: PWC Pearl Harbor Facilities AQCA: State of Hawaii

Pollutant	Attainment	Non-Attainment	Maintenance	Target Attainment Year ¹	Comments ²
CO	X				
Ozone	X				
PM-10	X				
SO ₂	X				
NO ₂	X				
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.

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

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

Source Document: _____ *

* Not Applicable. Baseline level of emissions pertains to non-attainment areas. Currently, we are classified as an attainment area.

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

Emissions Sources (Tons/Year)					
Pollutant	Permitted Stationary	Personal Automobiles	Aircraft Emissions	Other Mobile	Total
CO	*	**	N/A	N/A	Not available
NOx	*	**	N/A	N/A	5.3
VOC	*	**	N/A	N/A	0.06
PM10	*	**	N/A	N/A	3.56

* Data for FY 93 not readily available. Instead, we're providing emissions for CY93 in Attachment F.

** Not available. Currently, monitoring of auto emissions not required.

Source Document: _____ AP-42 and actual stack data _____

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.

It is difficult to predict and/or estimate levels of emissions for the upcoming years because of the new State regulations. It is possible that the air emissions should decrease due to the current determination by the SDOH and EPA on the definition of the Pearl Harbor Naval Complex as a single source.

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

No. There are no non-attainment areas within 100 miles of the base.

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.

Yes. Portable boiler and gas turbine generator operations were affected due to air permitting issues. Due to revised regulations, air permit applications were submitted and later approved. We are again in the process of re-applying under the latest State regulations.

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. However, under the newly revised Hawaii SIP, emission credits or trading is available and the benefits will be looked into once newly developed permits are submitted. This option will be examined more closely once the permit for the Pearl Harbor Naval complex begins development.

6. ENVIRONMENTAL COMPLIANCE

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

Program	Survey Completed?	Costs in \$K to correct deficiencies					
		FY94	FY95	FY96	FY97	FY98-99	FY00-01
Air	Yes	60	1,550				
Hazardous Waste	Yes						
Safe Drinking Water Act	N/A						
PCBs	Yes						
Other (non-PCB) Toxic Substance Control Act	N/A						
Lead Based Paint	No		20*				
Radon	Yes						
Clean Water Act	Yes	9,100			25,000		
Solid Waste	Yes	60		470			
Oil Pollution Act	Yes		70			330	
USTs	Yes	210		630			
Other		14,300					
Total		23,730	1670	1,100	25,000	330	

* Cost is estimated based on current knowledge of the requirements of upcoming regulations. Does not include costs for housing since housing is currently operated by the Army (OCFHO). Includes costs for anticipated management planning and training accreditation program. Do not anticipate changes in Navy inspection and abatement policy for industrial facilities.

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

See Attachment G.

6b.

Does your base have structures containing asbestos? Yes What % of your base has been surveyed for asbestos? 85% Are additional surveys planned? Yes What is the estimated cost to remediate asbestos (\$K) 874*. Are asbestos survey costs based on encapsulation, removal or a combination of both? Removal.

* Cost derived from 1991 Westinghouse asbestos survey. All ACM other than flooring to be removed. Costs estimated at \$10 per square foot. It does not include cost of replacement.

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

(Provided in \$K)

Funding Source	FY92	FY93	FY94	FY95	FY96	FY97	FY98-99	FY00-01
O&MN								
HA								
PA								
Other (DBOF) *	2190	2490	2990	3230	3150	3210	6500	6790
TOTAL	2190	2490	2990	3230	3150	3210	6500	6790

* Notes:

- Costs include laboratory fees for operation of the WWTP, collection systems, pre-treatment, water supply, electrical system, and other operational testing required for environmental compliance.
- Costs include staffing costs for the Environmental Compliance Division but do not include assistance provided by the operation work centers.
- Costs for FY95 to FY01 do not include 3 water systems which are currently under review for consolidation with another system.
- Environmental costs which PWC as operators, but not necessarily landowners, can identify were included.

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

Yes. Most environmental compliance issues directly or indirectly impact operations. Examples are as follows:

1. **Solid Waste:** New sludge requirements 40 CFR 503 has required us to change our sludge monofill operations and we were required to submit an application for a sludge permit.
2. **Wastewater:** Stricter water quality standards resulted in a non-compliance at our NCTAMS, Wahiawa WWTF since our existing plant could not meet these new nutrient standards. Currently we are seeking alternatives to secondary treatment. The primary plan is to divert flow to the City and County sewer system.
3. **Asbestos:** Most asbestos compliance issues affect operations because asbestos must be addressed as part of any facility renovation or demolition. Regulatory notification requirements and testing have slowed the normal construction/maintenance operations. PWC also provides asbestos abatement services which are governed primarily by compliance requirements.
4. **OBA Canister Treatment:** PWC currently does not have a permitted facility to treat OBA canisters. Previously the IWTP was a permitted facility and was able to treat OBA canisters. However, instead of renewing the Part B permit, EPA granted the IWTP a RCRA exemption. As a condition of the RCRA exemption the IWTP is no longer allowed to treat OBA canisters. Currently PWC is trying to determine the most cost effective way to treat OBA canisters within the regulations.
5. **Bilge Water:** The State of Hawaii Department of Health, Clean Air Branch has placed testing requirements on the processing of bilge water. These requirements, however, impact the operational procedures of the process units.
6. **Construction Excavation and Dewatering:** Disposal of oily water, petroleum contaminated soil, and oil due to sub-surface oil contamination have affected construction excavation and manhole dewatering operations.
7. **Lead paint:** Handling, transportation, and disposal of lead paint debris generated during building maintenance operations have impacted our services. Upcoming regulations will affect the training requirements and possibly the management requirements. Since PWC provides lead paint abatement services and lead inspection and analysis services, we anticipate many requirements with the new regulations.
8. **PCB:** Regulations have required the inventory, monitoring and replacement transformers with PCBs. These requirements have impacted operational costs and management.

7. INSTALLATION RESTORATION

7a.

Does your base have any sites that are contaminated with hazardous substances or petroleum products?	YES
Is your base an NPL site or proposed NPL site?	YES

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

Site # or name	Type site ¹	Groundwater Contaminated?	Extends off base?	Drinking Water Source?	Cost to Complete (\$M)/Est. Compl. Date	Status ² /Comments
Burn Area, P.C., C014B	CERCLA	unknown	unknown	No	\$10M FY 04	PA/SI
Makalapa Pesticide Rinseate Pit	CERCLA	No	No	No	\$2M Sep 97	RD/RA
Pearl City Peninsula Landfill	CERCLA	Yes	No	No	\$9M FY 98	RI/FS
UST Remedial Action for UST 4 & 5	UST	No	No	No	\$0.2M FY 95	Scheduled for FY 95, PCR submitted to NFESC

UST Remediation for 14 Tanks from PA Contract	UST	6 of 14 tanks	No	No	EFD to determine which tanks require remediation and type of funding. EFD will prioritize work.	Estimated completion of closure of UST is the end of FY 94
Paint and Electrical Shop	RCRA	unknown	unknown	unknown	information provided by PACDIV	Ongoing by PACDIV
IWTP	RCRA	unknown	no	no	information provided by PACDIV	Ongoing by PACDIV
PCB Contaminated Substations	CERCLA	not suspected	not suspected	not suspected	not available	Re-evaluating to expedite

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?	NO
Is there a groundwater treatment system planned?	NO

State scope and expected length of pump and treat operation.

7e.

Has a RCRA Facilities Assessment been performed for your base?	YES
--	-----

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

See item 7g.

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

Yes. PWC owns and operates with the Defense Reutilization and Marketing Office (DRMO) a Part B Permitted Conforming Storage Facility on the Pearl Harbor Naval Base. The storage building is approximately 250 feet by 170 feet in area, has segregated rooms to separate incompatible wastes, and has a storage capacity of approximately 3200 55-gallon drums. It is the main storage facility for all military wastes throughout Hawaii prior to their shipment to the continental United States for final disposal.

The facility may receive nearly all types of hazardous materials and wastes except for Class A and Class B explosives, radioactive, biological, ordinance, and approximately 400 extremely hazardous substances.

For permit conditions, see Attachment H.

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. The non-appropriated fund facilities on PWC Pearl Harbor's Plan Account are:

Halsey Terrace Mini-Mart, Bldg 6890
Pearl City Peninsula Mini-Mart, Bldg 794
Busy Bee Child Care Center, Bldgs 789, 791, 797

7i.

Do the results of any radiological surveys conducted indicate limitations on future land use? Explain below.	Not to our knowledge
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7j. Have any base operations or development plans been restricted due to Installation Restoration considerations ?

None that we are aware of.

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

None. (Hazardous waste treatment facilities are addressed in Section 4f.)

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 Compound	71.30	Pearl Harbor, Oahu
Maintenance Facilities	25.17	Pearl Harbor, Oahu
Maintenance Facilities	7.30	Waiawa, Oahu
Maintenance Facilities	9.47	Barbers Point, Oahu
Operational Facilities (WWTP)	11.73	Hickam Air Force Base
Operational Facilities	14.99	Halawa, Oahu
Operational Facilities	75.20	Waiawa, Oahu
Housing Areas ¹	1664.18	Various areas on Oahu
Navy Out-Leases	43.30	Pearl City Peninsula, Oahu
Other Uses ²	134.32	Pearl Harbor/Pearl City, Oahu
Total	2056.96	

¹Although these housing areas are on our plant account, they have been operated and managed by the U. S. Army Oahu Consolidated Family Housing Office (Provisional) since 1983.

²Other uses include land reported to GSA for disposal, land being used for drainage, vacant land (development of most of these parcels is restricted by topography or environmental factors), and land being used as a bird sanctuary.

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.)		1851.96
Total Undeveloped (areas that are left in their natural state but are under specific environmental development constraints, i.e.: wetlands, endangered species, etc.)		Wetlands: *
		All Others: *
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		None
Total Undeveloped land considered to be without development constraints		25.0
Total Off-base lands held for easements/lease for specific purposes		43.3
Breakout of undeveloped, restricted areas. Some restricted areas may overlap:	ESQD	None
	HERF	None
	HERP	None
	HERO	None
	AICUZ	None
	Airfield Safety Criteria	None
	Other	None

*Our wetland areas have not been officially surveyed; we know we definitely have 7.2 acres of wetlands, and estimate our total wetlands area to be 100 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. None.

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.

Not applicable to PWC Pearl Harbor; our plant property is not encumbered by AICUZ.

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.

Not applicable to PWC Pearl Harbor.

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

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

Not applicable to PWC Pearl Harbor.

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

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

Not applicable to PWC Pearl Harbor.

8h.

Are there available designated dredge disposal areas for maintenance dredging material? List location, remaining capacity, and future limitations.	No
Are there available designated dredge disposal areas for new dredge material? List location, remaining capacity, and future limitations.	No
Are the dredged materials considered contaminated? List known contaminants.	Not applicable.

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

Constraints do not apply to Navy owned property.

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

Not aware of non-point source problems. EFD, COMNAVBASE or activities near the harbor may have more information.

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

None, there are no areas other than those previously listed.

9. WRAPUP

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

No, not at this time.

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

No.

Other permits (not previously identified) that are required, which we are currently operating under are:

- RCRA Part B Permit, Conforming Storage Facility, EPA #HI 1170024334
- Monofill for Special Waste (Sewage Sludge) & Oily Waste: Farm, State of Hawaii Solid Waste Permit SW-233240
- Contaminated Soil Stockpile Facility, State of Hawaii Solid Waste Permit ST-0009-93

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

Some parcels of PWC Pearl Harbor's property are restricted by flood zones and by IR site designations.

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

At any given time there are numerous state and federal laws under discussion, but we don't know at this time if they will constrain base operations.

SEWER DISCHARGE TO THE CITY SYSTEM

(Attachment for item 4e.)

<u>Location</u>	<u>Discharge Limit</u>	<u>Discharge Rate (GPD)</u>	<u>In Compliance?</u>
1. Waipio Peninsula Inactive Ships (1)	*	1,170 (2)	Yes
2. Iroquois Point	*	1,000,000 (2)	Yes
3. Pearl City Penn/Mc Grew Pt/Manana	*	7,930 (3)	Yes
4. West Loch (1)	*	3,000 (2)	Yes
5. Waikele (1)	*	15,000	Yes
6. NASBP (1)	*	840,000 (2)	Yes
7. Moanalua Hsg	*	9,790 (2)	Yes

* See next page.

Notes:

- (1) Note that these systems are located on land that is not owned by PWC and service activities other than PWC.
- (2) Based on monthly average consumption from 9/93 to 2/94.
- (3) Based on monthly average consumption 10/93 to 3/94.

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

DISCHARGE LIMITS

1. **PROHIBITED DISCHARGE STANDARDS:** The IU shall not introduce or cause to be introduced into the POTW any pollutant or wastewater which causes pass through or interference. These prohibitions apply to all IUs of the POTW whether or not they are subject to categorical pretreatment standards or any other Federal, State, or local pretreatment standards or requirements. Furthermore, the IU shall not discharge any of the following substances into the POTW:
 - A. Pollutants which create a fire or explosive hazard in the municipal wastewater collection and POTW, including but not limited to, wastestreams with a closed-cup flashpoint of less than 140°F (60°C) using the test methods specified in 40 CFR 261.21.
 - B. Any wastewater having a pH less than 5.5 or more than 11.0, or otherwise causing corrosive structural damage to the POTW or equipment, or endangering personnel.
 - C. Solid or viscous substances in amounts which will cause obstruction of the flow in the POTW resulting in interference, but in no case solids greater than 0.25 inches in any dimension.
 - D. Any wastewater containing pollutants, including oxygen demanding pollutants (BOD, etc.), released in a discharge at a flow rate and/or pollutant concentration which, either singly or by interaction with other pollutants, will cause interference with either the POTW; or any wastewater which causes the temperature at the introduction into the treatment plant to exceed 104°F (40°C).
 - E. Any wastewater having a temperature greater than 150°F, or which will inhibit biological activity in the treatment plant resulting in interference, but in no case wastewater which causes the temperature at the introduction into the treatment plant to exceed 104°F (40°C).
 - F. Petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin, in amounts that will cause interference or pass through.
 - G. Any pollutants which result in the presence of toxic gases, vapors or fumes within the POTW in a quantity that may cause acute worker health and safety problems.
 - H. Any trucked or hauled pollutants, except a discharge points designated by the POTW.

INDUSTRIAL WASTEWATER DISCHARGE PERMIT**DISCHARGE LIMITS**

Continued

- I. Any noxious or malodorous liquids, gases, solids or other wastewater which, either singly or by interaction with other wastes, are sufficient to create a public nuisance, a hazard to life, or to prevent entry into the sewers for maintenance and repair.
- J. Any wastewater which impart colors which cannot be removed by the treatment process, such as, but not limited to, dye wastes and vegetable tanning solutions, which consequently imparts color to the treatment plant's effluent thereby violating the City and County of Honolulu's NPDES permit. Color (in combination with turbidity) shall not cause the treatment plant effluent to reduce the depth of the compensation point for photosynthetic activity by more than 10 percent from the seasonably established norm for the aquatic life.
- K. Any wastewater containing any radioactive wastes or isotopes except as specifically approved by POTW in compliance with applicable State or Federal regulations.
- L. Storm water, surface water, ground water, artesian well water, roof runoff, subsurface drainage, swimming pool drainage, condensate, deionized water, non-contact cooling water, and unpolluted industrial wastewater, unless specifically authorized by the POTW.
- M. Any sludges, screenings, or other residues from the pretreatment of industrial wastes.
- N. Any medical wastes, except as specifically authorized by the [the Superintendent] in a wastewater discharge permit.
- O. Any wastewater causing the treatment plant's effluent to fail a toxicity test.
- P. Any wastes containing detergents, surface active agents, or other substances which may cause excessive foaming in the POTW.
- Q. Any discharge of fats, oils, or greases of animal or vegetable origin is limited to 100 mg/L.

Wastes prohibited by this section shall not be processed or stored in such a manner that they could be discharged to the POTW. All floor drains located in process or materials storage area must discharge to the Industrial User's pretreatment facility before connecting with the POTW.

INDUSTRIAL WASTEWATER DISCHARGE PERMIT**DISCHARGE LIMITS**

Continued

2. **FEDERAL CATEGORICAL PRETREATMENT STANDARDS:** The National Categorical Pretreatment Standards found in 40 CFR Chapter I, Subchapter N, Parts 405-471 are hereby incorporated.
3. **SPECIFIC POLLUTANT LIMITATIONS:** The IU shall not discharge wastewater containing pollutants in excess of the following instantaneous maximum allowable discharge limits.

Arsenic	0.50 mg/L
Cadmium	0.69 mg/l.
Chromium	2.77 mg/L
Copper	3.38 mg/L
Lead	0.60 mg/l.
Mercury	0.50 mg/L
Nickel	3.98 mg/L
Selenium	2.00 mg/L
Silver	0.43 mg/L
Zinc	2.61 mg/l.
PHENOLS	2.00 mg/L
Cyanide	1.90 mg/L
Oil and Grease	100.0 mg/l.
pH	within 5.5 to 11.0
Solids	not exceed 0.25 inches

4. **AMENDMENTS:** These Permit requirements shall in no means restrict or prohibit the DPW from establishing requiring of IUs standards more stringent than set forth herein, if deemed reasonably necessary to comply with pretreatment regulations.

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

DISCHARGE LIMITS

Continued

5. **SPECIAL AGREEMENTS:** The DPW reserves the right to enter into special agreements with IUs setting out special terms under which they may discharge to the POTW. In no case shall a special agreement waive compliance with applicable City, State, or Federal pretreatment standards or requirements. However, the IU may request a variance from the categorical pretreatment standards from the EPA. Such a request will be approved only if the IU can prove that factors relating to its discharge are fundamentally different from the factors considered by the EPA when establishing those pretreatment standards. An IU requesting a fundamentally different factor variance must comply with the procedural and substantive provisions in 40 CFR 403.13.
6. **Dilution:** The IU shall not increase the use of process water, or in any way attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with a discharge limitation unless expressly authorized by an applicable pretreatment standard or requirement. The DPW may impose mass limitations on IUs which are using dilution to meet applicable pretreatment standards or requirements, or in other cases when the imposition of mass is appropriate.

GENERAL PROVISIONS

1. The IU shall take all reasonable steps to minimize or prevent any discharge in violation of this Permit which has a reasonable likelihood of adversely affecting human health or the environment, including additional monitoring as appropriate to determine the nature and impact of the violation.
2. The provisions in this Permit are severable. If any of the provisions set forth in this Permit are found invalid, the remainder of this Permit shall not be affected and shall be in full force and effect.
3. The requirements set forth herein shall not protect the IU from liabilities under Federal, State, or local law.
4. If Federal or City pretreatment requirements are amended, the DPW may revise and modify this Permit accordingly.

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

GENERAL PROVISIONS

Continued

5. The IU shall furnish any information the DPW may request to determine whether cause exists for modifying, revoking, and re-issuing, or terminating this Permit or to determine compliance with this Permit. This information shall be submitted within 20 days of the DPW's request.
6. Should the IU find that it failed to submit relevant facts or submitted incorrect information to the DPW, it shall promptly submit or re-submit the missing or correct information.
7. An IU seeking to establish that it did not violate pretreatment or permit requirements shall have the burden of proof.

WATER SUPPLY CAPACITY LIMITATIONS

(Attachment for item 4i.)

<u>Water Systems</u>	<u>Total Authorized Use (MGD)</u>	<u>Source</u>	<u>Current Pumpage Mar 93 to Feb 94 (Avg MGD) *</u>
1. Pearl Harbor - Waiawa - Red Hill - Halawa	14.977 4.659 0.697	Navy Well Navy Well Navy Well	13.200 3.800 0.330
2. Barbers Point	2.337	Navy Well	2.300
3. Radford Terrace	-0.650	Navy Well	2.300
4. Waikele, NAVMAG	0.041	Board of Water Supply	N/A
5. Waipio Inactive Ships	0.0144	Board of Water Supply	N/A
6. NCTAMS	not available**	Army Well	N/A
7. NAVMAG, LLL	no limit	Navy Source	0.292
8. Camp Stover	0.405 (per DLNR last rev. ltr Oct 86)	Board of Water Supply	N/A

Note: Radford Terrace, Waikele and Waipio Inactive Ships water systems are currently under review to be consolidated with another system.

* Pumpage rates will vary (only for Navy sources).

** The water serves both Army and Navy facilities. The exact allocation authorized for Navy use is unknown.

Attachment C

PERMIT NO. HI 0110221

AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. 1251 et. seq; the "Act") and Chapter 342-D, Hawaii Revised Statutes, and Chapters 11-54 and 11-55, Administrative Rules, Department of Health, State of Hawaii,

NAVY PUBLIC WORKS CENTER
PEARL HARBOR, HAWAII

(hereinafter "PERMITTEE"),

is authorized to discharge from its Naval Magazine Lualualei Sewage Ponds,

located at Lualualei, Oahu, Hawaii,

to the receiving waters named Mailiili Stream at coordinates: Latitude 21°25'35"N, Longitude 158°08'42"W,

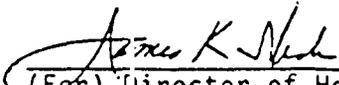
in accordance with the effluent limitations, monitoring requirements and other conditions set forth herein, and in the attached Department of Health "Standard NPDES Permit Conditions," dated July 25, 1989.

All references to Title 40 of the Code of Federal Regulations are to regulations that are in effect on July 1, 1987. Unless otherwise specified herein, all terms are defined as provided in the applicable regulations in Title 40 of the Code of Federal Regulations.

This permit will become effective upon issuance.

This permit and the authorization to discharge will expire at midnight, June 30, 1993.

Signed this 1st day of February, 1990


(For) Director of Health

PERMIT ISSUED

Date FEB - 1 1990

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (based on a design treatment capacity of 0.0088 m³/sec or 0.20 MGD)

During the period beginning with the effective date of this permit and lasting through June 30, 1993 the Permittee is authorized to discharge from Outfall Serial No. 001. The discharge of effluent in excess of the following limits is prohibited:

Effluent Characteristic	Discharge Limitations			Units	Monitoring Measurement Frequency	Sample Type
	Monthly Average	Weekly Average				
Flow	N/A	N/A		MGD	Once/Discharge	Estimate
Biochemical Oxygen Demand (5-day) ^a	30 23 (50)	45 34 (75)		mg/L kg/day (lbs/day)	Once/Discharge	Grab
Total Suspended Solids ^a	30 23 (50)	45 34 (75)		mg/L kg/day (lbs/day)	Once/Discharge	Grab
pH	Not less than 6.0 nor greater than 9.0 standard units				Once/Discharge	Grab
Total Nitrogen (as N)	*	N/A		ug/L	Once/Discharge	Grab
Ammonia Nitrogen (as NH ₃ -N)	*	N/A		ug/L	Once/Discharge	Grab
Nitrate+Nitrite Nitrogen [as (NO ₃ +NO ₂)-N]	*	N/A		ug/L	Once/Discharge	Grab
Total Phosphorus (as P)	*	N/A		ug/L	Once/Discharge	Grab
Dissolved Oxygen	*	N/A		% saturation	Once/Discharge	Grab
Turbidity	*	N/A		N.T.U.	Once/Discharge	Grab
Fecal Coliform	200/100 ml	400/100 ml		MPN/100 ml	Once/Discharge	Grab

PERMIT ISSUED

Date FEB - 1 1990

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (based on a design treatment capacity of 0.0088 m³/sec or 0.20 MGD) (cont'd.)

N/A - Not Applicable

* - Receiving water limitations.

a - Both the influent and effluent shall be monitored.

1. The arithmetic mean values for the effluent samples of Biochemical Oxygen Demand (5-day) and Total Suspended Solids collected in a period of 30 consecutive days shall not exceed 15% of the arithmetic mean of the value for the influent samples collected at approximately the same time during the same period (85% removal).
2. Samples taken in compliance with the monitoring requirements shall be taken at the following locations:
 - (a) All influent samples shall be taken downstream of any additions to the trunk sewer, and upstream of any in-plant return flows, and prior to treatment where representative samples of the influent can be obtained.
 - (b) All effluent samples shall be taken downstream from any additions to the treatment works, and downstream of any in-plant return flow or disinfection units, and immediately after the gate weir of the second pond where representative samples of the effluent can be obtained.
3. It shall be a violation of this permit if the effluent monitoring results exceed the specific criteria for "Class 2 Inland Waters" listed in Part B.1. However, if the Permittee can prove that their noncompliance with the specific criteria is not due to the influence of their discharge on the receiving waters, the exceedance(s) will not be considered a violation of this permit. In order to substantiate such a claim, the Permittee must submit data from acceptable control stations with the Discharge Monitoring Report. Samples shall also be taken at the following control station coordinates: Latitude 21°26'00"N, Longitude 158°10'38"W.

PERMIT ISSUED

Date FEB - 1 1990

B. RECEIVING WATER LIMITATIONS

1. Specific Criteria

The discharge of wastes from Outfall Serial No. 001 shall not cause the following water quality standards to be violated:

"Class 2 Inland Waters"

Parameter	Not to exceed the given value more than 2% of the time
Total Nitrogen (ug N/L)	800.0* 600.0**
Nitrate + Nitrite Nitrogen (ug [NO ₃ +NO ₂] N/L)	300.0* 170.0**
Total Phosphorus (ug P/L)	150.0* 80.0**
Total Nonfilterable Residue (mg/L)	80.0* 55.0**
Turbidity (N.T.U.)	25.0* 10.0**

Dissolved Oxygen - Not less than 80% saturation.
pH Units - Shall not deviate more than 0.5 units
from ambient conditions and shall not be lower
than 5.5 nor higher than 8.0.

*Wet season - November 1 through April 30.

**Dry season - May 1 through October 31.

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Date FEB - 1 1990

2. Recreational Criteria

The discharge of wastewater from Outfall Serial No. 001 shall not cause the following water quality standards to be violated in inland recreational waters:

- a. Fecal coliform content shall not exceed a geometric mean of two hundred per one hundred milliliters (200/100 ml) in 10 or more samples collected during any 30-day period and not more than 10% of the samples shall exceed four hundred per one hundred milliliters (400/100 ml) in the same period.
- b. Raw or inadequately treated sewage or other pollutants of public health significance, as determined by the Director of Health, shall not be present in natural bathing or wading areas.

PERMIT ISSUED
Date FEB - 1 1990

C. REPORTING REQUIREMENTS

1. Reporting of Monitoring Results

Monitoring results obtained during the previous calendar month shall be summarized and reported on a Discharge Monitoring Report Form (EPA No. 3320-1). The results of all monitoring required by this permit shall be submitted in such a format as to allow direct comparison with the limitations and requirements of this permit. Monitoring reports shall be postmarked no later than the 28th day of the month following the completed reporting period. Duplicate signed copies of these, and all other reports required herein, shall be submitted to the Regional Administrator and the Director of Health at the following addresses:

Regional Administrator
U.S. Environmental Protection
Agency
Water Management Division
Region 9
Compliance Branch, W-4-1
211 Main Street, Room 319
San Francisco, CA 94105

Director of Health
State Department of Health
Environmental Management
Division
Clean Water Branch
Five Waterfront Plaza
Suite 250
500 Ala Moana Boulevard
Honolulu, HI 96813

2. Reporting of Noncompliance

a. Twenty-Four Hour Reporting

The Permittee shall orally report any noncompliance which may endanger health or the environment (see Standard NPDES Permit Condition Section 16.f).

b. Immediate Reporting

The Permittee or the Permittee's Reporting Official shall immediately report any bypass or upset resulting in a discharge of 1,000 gallons or more of untreated or partially treated wastewater or sewage. Incidences of noncompliance shall be provided orally, from the time the Permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days. The written submission shall contain the same elements as described in Part C.2.a (Twenty-Four Hour Reporting).

PERMIT ISSUED

Date FEB - 1 1990

Oral reports should be made to telephone (808) 543-8309. In addition, the major wire services (UPI and AP) and for neighbor island occurrences, the Department of Health Office shall be notified (see Notification List provided in Part F).

3. Types of Samples

- a. "Grab sample" means an individual sample collected at a randomly-selected time over a period not exceeding 15 minutes.
- b. "Composite sample" means a combination of at least 8 sample aliquots, collected at periodic intervals during the operating hours of facility over a 24-hour period. The composite must be flow proportional; either the time interval between each aliquot or the volume of each aliquot must be proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot. Aliquots may be collected manually or automatically.

PERMIT ISSUED

Date FEB - 1 1990

D. OTHER REQUIREMENTS

1. Schedule Of Compliance

- a. The Permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule:

Not Applicable

- b. No later than 14 calendar days following a date identified in the above schedule of compliance, the Permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

2. Schedule of Maintenance

Any maintenance of facilities, which might necessitate unavoidable interruption of operation and degradation of effluent quality, shall be scheduled and carried out in a manner approved by the Director of Health.

3. Power Failures

In order to maintain compliance with the effluent limitations and prohibitions of this permit, the Permittee shall either:

In accordance with the Schedule of Compliance contained in Part D, provide an alternative power source sufficient to operate the wastewater control facilities;

or, if such alternative power source is not in existence, and no date for its implementation appears in Part D.1.a.

Halt, reduce or otherwise control production and/or all discharges upon the reduction, loss, or failure of the primary source of power to the wastewater control facilities.

PERMIT ISSUED

Date FER - 1 1990

E. SLUDGE REQUIREMENTS

1. General Compliance

The Permittee shall comply with all existing Federal and State laws and regulations that apply to its sewage sludge use and disposal practice(s), and with the Clean Water Act section 405(d) technical standards when promulgated. If an applicable management practice or numerical limitation for pollutants in sewage sludge is promulgated under section 405(d) of the Clean Water Act after issuance of this permit and is more stringent than the sludge pollutant limit or management practice specified in this permit or in existing Federal or State laws or regulations, this permit shall be promptly modified or revoked and reissued to conform to the regulations promulgated under section 405(d) of the Clean Water Act. The Permittee shall comply with the limitations by no later than the compliance deadline specified in the applicable regulations as required by section 405(d) of the Clean Water Act.

2. Reporting Requirements

The Permittee shall submit to the Director of Health by January 28 of each year, an annual report summarizing sludge handling and disposal activities. This report shall include:

- a. A map showing sludge handling facilities (e.g. digesters, lagoons, drying beds, incinerators).
- b. The dry weight (tons/year) of sludge disposed from the facility.
- c. The treatment applied to sludges including process parameters. For example, if the sludge is digested, report the average temperature and retention time of the digesters. If drying beds are used, report depth of application and drying time. If composting is used, report the temperature achieved and duration. Also report dewatering methods and percent solids of final waste.
- d. Disposal methods (e.g. 50% to landfill, 40% land applied, 10% sold as commercial product). Report the names and locations of all facilities receiving waste.
- e. Concentrations of cadmium, copper, nickel and zinc from at least 1 sludge sample if any of the sludge is land applied or commercially sold.

PERMIT ISSUED

Date FEB - 1 1990

3. Notice of Change in Sludge Disposal Practice

The Permittee shall give prior notice to the Director of Health of any change(s) planned in the Permittee's sludge use or disposal practice.

4. Cause for Modification

Under 40 CFR section 122.62(a)(1), a change in the Permittee's sludge use or disposal practice is a cause for modification of the permit. It is a cause for revocation and reissuance of the permit if the Permittee requests or agrees.

F. APPENDIX

1. Notification List - OAHU

DEPARTMENT OF HEALTH
ENVIRONMENTAL MANAGEMENT DIVISION

Clean Water Branch (808)543-8309 (This phone number
is contained in some of the
permits.)

Hawaii State Hospital-Kaneohe (808)247-2191 (For use during
nonregular office hours.)

UNITED PRESS INTERNATIONAL (UPI):

Bureau Chief or duty editor (808)533-1828 (Honolulu)
5:30 am - 1:00 am (Daily)

ASSOCIATED PRESS (AP):

Bureau Chief or duty editor (808)533-2422 or 536-5510
(Honolulu)
4:00 am - 11:30 pm
(Monday - Friday)
5:00 am - 11:30 pm
(Saturday and Sunday)

NOTES:

- a. In addition to notifying the Clean Water Branch of upset/bypass occurrences, both the UPI and AP news wire services shall be informed.
- b. Notification of specific news media (newspaper, television, radio, etc.) is left to the discretion of the Permittee. It is generally assumed that the specific news media are subscribers to either or both of the UPI and AP major wire services.
- c. Suggested Notifications:

Oahu Incidents -- Calls can be made to 525-8000, the Hawaii Newspaper Agency switchboard, and requests should be made to be switched to the City Desk at both papers. After-hours numbers are listed in the phone book under the Advertiser and the Star-Bulletin.

PERMIT ISSUED

Date FEB - 1 1990

RECEIVING WATER QUALITY
CONTROL STATION:

Latitude 21° 26' 00" N
Longitude 158° 10' 36" W

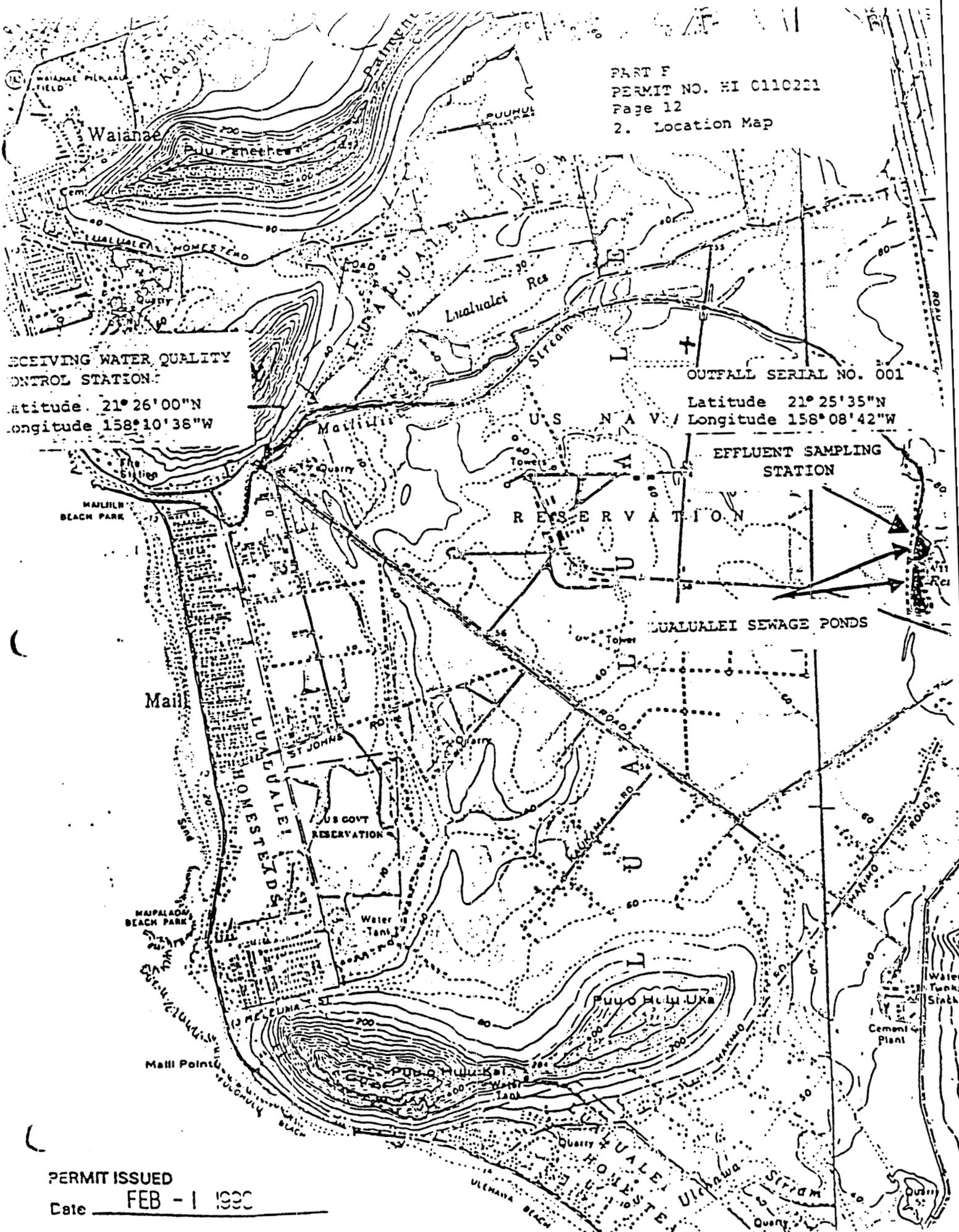
OUTFALL SERIAL NO. 001

Latitude 21° 25' 35" N
Longitude 158° 08' 42" W

EFFLUENT SAMPLING
STATION

RESERVATION

LUALUALEI SEWAGE PONDS



PERMIT ISSUED
Date FEB - 1 1990

PERMIT NO. HI 1121105

AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. 1251 et seq.; the "Act") and Chapter 342D, Hawaii Revised Statutes, and Chapters 11-54 and 11-55, Administrative Rules, Department of Health, State of Hawaii,

NAVY PUBLIC WORKS CENTER
PEARL HARBOR, HAWAII
(BUILDING NO. 177)

(hereinafter "PERMITTEE")

is authorized to discharge noncontact cooling water from the air compressor facility located at Building No. 177, Navy Public Works Center, Pearl Harbor, Hawaii, through Outfall Serial No. 001,

to the receiving waters named Pearl Harbor, at coordinates: Latitude 21°21'05"N, Longitude 157°58'11"W,

in accordance with the effluent limitations, monitoring requirements and other conditions set forth herein, and in the attached Department of Health "Standard NPDES Permit Conditions," dated August 31, 1992.

All references to Title 40 of the Code of Federal Regulations (CFR) are to regulations that are in effect on July 1, 1991, except as otherwise specified. Unless otherwise specified herein, all terms are defined as provided in the applicable regulations in Title 40 of the CFR.

This permit will become effective October 30, 1992.

This permit and the authorization to discharge will expire at midnight, July 31, 1996.

Signed this 30th day of September, 1992


(For) Director of Health

PERMIT ISSUED
Date SEP 30 1992



A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS [based upon a daily average flow of 0.015 m³/sec (0.40 mgd)]

During the period beginning the effective date of this permit and lasting through July 31, 1996, the Permittee is authorized to discharge from Outfall Serial No. 001.

1. Such discharges shall be limited and monitored by the Permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	Kg/Day (lb/day)		mg/l (or as specified)		Type of Sample	Minimum Frequency
	Daily Average ^{a/}	Daily Maximum	Daily Average ^{a/}	Daily Maximum		
Flow, MGD ^{b/}	N/A	N/A	Report Only	Report Only	Estimate	Continuous
Temperature °F(°C) ^{c/} <i>Inf Eff</i>	N/A	N/A	N/A	90(32)	Grab	Once/Month
Total Residual Oxidants ^{d/}	N/A	N/A	N/A	0.013	Grab	Once/Month
Total Suspended Solids ^{c/} <i>Inf Eff</i>	15(33) ^{e/}	23(50) ^{e/} ✓	10.0 ^{e/}	15.0 ^{e/} ✓	Grab	Once/Month
Oil and Grease	15(33)	23(50) ✓	10.0	15.0 ✓	Grab	Once/Month
pH (Standard Units)	Shall not be lower than 6.8 nor higher than 8.8				Grab	Once/Month

N/A - Not Applicable

based on 0.4 mgd/daily MGD
^{a/} - The daily average concentration shall be the average of four (4) grab samples collected within 45 minutes. *- they report this*

^{b/} - The Permittee shall report the date, time, duration and volume of each discharge.

^{c/} - The influent and effluent shall be monitored concurrently.

^{d/} - Total residual oxidants (TRO) means the value obtained using the amperometric titration method for total residual chlorine described in 40 CFR Part 136.

^{e/} - These limits restrict the net increase in suspended solids of the effluent above that of the influent. The daily average net concentration increase shall be the average of four (4) grab samples collected within 45 minutes for both the influent and effluent. The same samples shall be used to determine the daily maximum net concentration increase.

PERMIT ISSUED
 SEP 30 1992

PART A
 PERMIT NO. HI 1121105
 Page 3


 Tests: Avg Effl conc - Avg Inf conc < 15 - Daily avg
 Max [Effl conc - Inf conc] < 23 - Daily Max

B. REPORTING REQUIREMENTS

1. Reporting of Monitoring Results

Monitoring results obtained during the previous calendar month shall be summarized and reported on a Discharge Monitoring Report Form (EPA No. 3320-1). The results of all monitoring required by this permit shall be submitted in such a format as to allow direct comparison with the limitations and requirements of this permit. Monitoring reports shall be postmarked no later than the 28th day of the month following the completed reporting period. Duplicate signed copies of these, and all other reports required herein, shall be submitted to the Regional Administrator and the Director of Health at the following addresses:

Regional Administrator	Director of Health
U.S. Environmental Protection Agency	State Department of Health
Region 9	Environmental Management Division
Water Management Division	Clean Water Branch
Permits and Compliance Branch, W-5	Five Waterfront Plaza
75 Hawthorne Street	Suite 250A
San Francisco, CA 94105	500 Ala Moana Boulevard
	Honolulu, HI 96813

2. Planned Changes

Any planned physical alterations or additions to the permitted facility, not covered by Standard Condition 16.a.(1), (2) or (3) shall be reported to the Director of Health on a quarterly basis.

3. Twenty-Four Hour Reporting

- a. The Permittee shall orally report any noncompliance. Oral reports shall be made by telephone to the Clean Water Branch at (808) 586-4309 during regular office hours or the Hawaii State Hospital Operator at (808) 247-2191 outside of regular office hours. A written submission shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
- b. The following shall be included as information which must be reported within 24 hours under this paragraph.

RECEIVED
SEP 30 1982



C. OTHER REQUIREMENTS

1. Schedule of Submission

The Permittee shall submit to the Director by January 28 of each year, an annual summary of the quantities of all chemicals, listed by both chemical and trade names, which are used for cooling water treatment and which are discharged.

2. Schedule of Maintenance

The Permittee shall submit a schedule for approval by the Director of Health at least 14 days prior to any maintenance of facilities, which might result in exceedance of effluent limitations. The schedule shall contain a description of the maintenance and its purpose; the period of maintenance, including exact dates and times; and steps taken or planned to reduce, eliminate, and prevent occurrence of noncompliance.

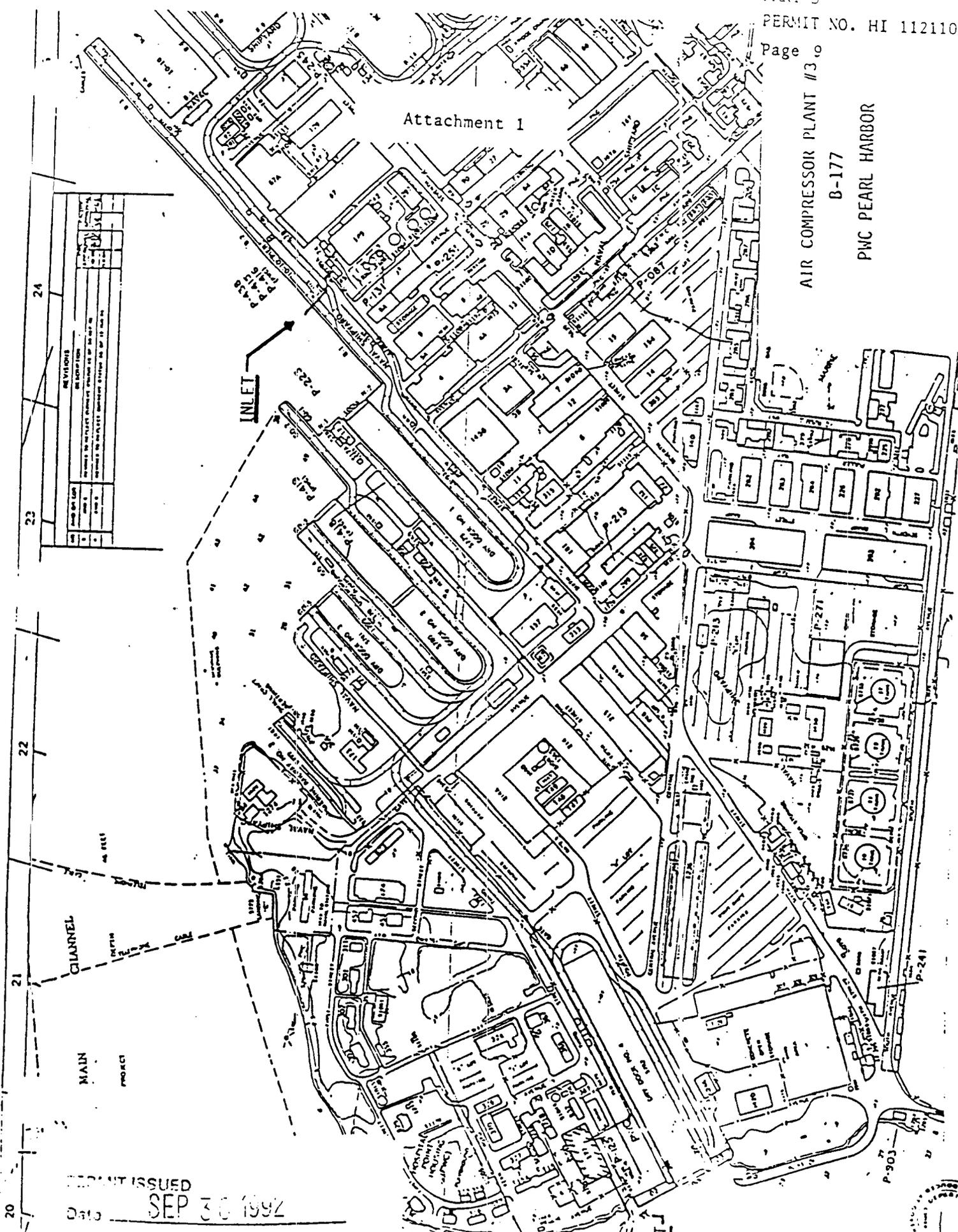
PERMIT INCUED

SEP 30 1992



Attachment 1

AIR COMPRESSOR PLANT #3
B-177
PWC PEARL HARBOR



REVISIONS	
NO.	DATE
1	10/1/91
2	10/1/91
3	10/1/91
4	10/1/91
5	10/1/91
6	10/1/91
7	10/1/91
8	10/1/91
9	10/1/91
10	10/1/91
11	10/1/91
12	10/1/91
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14	10/1/91
15	10/1/91
16	10/1/91
17	10/1/91
18	10/1/91
19	10/1/91
20	10/1/91
21	10/1/91
22	10/1/91
23	10/1/91
24	10/1/91

ISSUED
DATE SEP 30 1992



AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. 1251 et. seq; the "Act") and Chapter 342, Hawaii Revised Statutes, as amended, and Chapters 11-54 and 11-55, Administrative Rules, Department of Health, State of Hawaii

NAVY PUBLIC WORKS CENTER
PEARL HARBOR, HAWAII

is authorized to discharge cooling water from the air compressor facility located at Discharge 001, Building No. 826, Navy Public Works Center, Pearl Harbor, Hawaii,

to receiving waters named Pearl Harbor at coordinates: Latitude 21°21'12"N and Longitude 157°56'47"W,

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I, II and III hereof.

This permit will become effective upon issuance.

This permit and the authorization to discharge will expire at midnight, April 30, 1991.

Signed this 1st day of May 1986



(For) Director of Health

PERMIT ISSUED
MAY - 1 1986

EFFLUENT LIMIT. DIS AND MONITORING REQUIREMENTS

During the period beginning the effective date of this permit and lasting through April 30, 1991, the permittee is authorized to discharge from outfall serial number 001.

Such discharges shall be limited and monitored by the permittee as specified below based upon a daily average flow of 0.007 m³/sec (0.16 mgd):
~~6.007~~ (110 GPM)

Effluent Characteristic	Discharge Limitations				+ Monitoring Requirements	
	kg/day (lbs/day)		Other Units (Specify)		Measurement Frequency	Sample Type
	Daily Average	Daily Maximum	Daily Average	Daily Maximum		
Flow (MGD)*	N/A	N/A	N/A	N/A	Continuous	Composite
Temperature**	N/A	N/A	N/A	36°C (97°F)	Once/Month	Discrete
Grease	6(13)	9(20)	10 mg/l***	15 mg/l	Once/Month	Discrete
Total Solids**	6/13) net****	9(20) net****	10 mg/l net****	15 mg/l net****	Once/Month	Discrete
	Not less than 6.0 standard units nor greater than 9.0 standard units.				Once/Month	Discrete

permittee shall report the date, time and duration of each discharge.

Influent and effluent shall be monitored concurrently.

Daily average concentration shall be the average of four (4) discrete samples collected within 45 minutes.

These limits restrict the net increase in suspended solids of the effluent above that of the influent. The daily average concentration increase shall be the average of four (4) discrete samples collected within 45 minutes for both the influent and effluent. The same samples shall be used to determine the daily maximum net concentration increase.

Not Applicable

These monitoring requirements apply only to cooling water discharges with elevated effluent temperatures (i.e., when the compressor is in operation) and not to routine pumping equipment maintenance.

The discharge shall not cause objectionable odors at the surface of the receiving waters.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Waste from the physical cleaning of the cooling system shall not be allowed to be discharged with the cooling water.

PART I
 PERMIT NO. HI 1120907
 Page 2 of 14

B886

Date
 PERMIT ISSUED - 1 1986

B. SCHEDULE OF COMPLIANCE

1. The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule:

Not Applicable.

2. No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.
3. A "schedule of compliance" means a program composed of two integral parts: (a) plan -- description of new or modified facilities to treat and dispose of the effluent; and (b) schedule -- a timetable setting forth the date by which all wastewaters will be in compliance with the effluent limitations of this permit. The schedule shall include (if appropriate) dates by which the permittee will accomplish:
 - a. Completion of a preliminary engineering plan report;
 - b. Completion of construction plans and specifications;
 - c. Initiation of construction;
 - d. Completion of construction;
 - e. Demonstration of compliance with effluent limitations.

C. MONITORING AND REPORTING

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitoring discharge.

2. Reporting

Monitoring results obtained during the previous three (3) months shall be summarized for each month and submitted on forms to be supplied by the Director, to the extent that the information reported may be entered on the forms. The results of all monitoring required by this permit shall be submitted in such a format as to allow direct comparison with the limitations and requirements of this permit. Unless otherwise specified, discharge flows shall be reported in terms of the average flow over each 30-day period and the maximum daily flow over that 30-day period. Monitoring reports shall be postmarked no later than the 28th day of the month following the completed reporting period. The first report is due on August 28, 1986. Duplicate signed copies of these, and all other reports required herein, shall be submitted to the Regional Administrator and the Director at the following addresses:

Regional Administrator
Environmental Protection Agency
Region 9, Attn: Water Management Division
AZ-NV-HI Branch, W-4
215 Fremont Street
San Francisco, CA 94105

Director of Health
State Department of Health
Attn: Environmental Protection
and Health Services Division
1250 Punchbowl Street
Honolulu, HI 96813

PERMIT ISSUED
MAY - 1 1986
Date

3. Definitions

- a. The "30-day or 7-day average" discharge means the total discharge by weight during a 30 or 7 consecutive calendar day period, respectively, divided by the number of days in the period that the facility was discharging. Where less than daily sampling is required by this permit, the 30-day or 7-day average discharge shall be determined by the summation of all the measured discharges by weight divided by the number of days during the 30 or 7 consecutive calendar day period when the measurements were made.

If fewer than four measurements are made during a 30 or 7 consecutive calendar day period, then compliance or noncompliance with the 30-day or 7-day average discharge limitation shall not be determined.

- b. A "discrete" sample means any individual sample collected in less than 15 minutes.
- c. The "daily maximum" discharge means the total discharge by weight during any calendar day.
- d. The "30-day or 7-day average" concentration, other than for fecal or total coliform bacteria, means the arithmetic mean of measurements made during a 30 or 7 consecutive calendar day period, respectively. The "30-day or 7-day average" concentration for fecal bacteria means the geometric mean of measurements made during a 30 or 7 consecutive calendar day period, respectively. The geometric mean is the n th root of the product of n numbers.

If fewer than four measurements are made during a 30 or 7 consecutive calendar day period, then compliance or noncompliance with the 30-day or 7-day average concentration limitation shall not be determined.

- e. The "daily maximum" concentration means the measurement made on any single discrete sample or composite sample.
- f. A "composite sample" means, for flow rate measurement, the arithmetic mean of no fewer than 8 individual measurements taken at equal intervals for 24 hours or for the duration of discharge, whichever is shorter. A composite sample means, for other than flow rate measurement, a combination of 8 individual portions obtained at equal time intervals for 24 hours or for the duration of the discharge, whichever is shorter. The volume of each individual portion shall be directly proportional to the discharge flow rate at the time of sampling. The sampling period shall coincide with the period of maximum discharge flow.
- g. "Mass emission rate" is a daily rate defined by the following equations:

$$\text{mass emission rate (lbs/day)} = 8.34 \times Q \times C;$$

$$\text{mass emission rate (kg/day)} = 3.78 \times Q \times C; \text{ and}$$

where "C" (in mg/l) is the measured daily constituent concentration or the average of measured daily constituent concentrations and "Q" (in mgd) is the measured daily flow rate or the average of measured daily flow rates over the period of interest.

- h. The "maximum allowable mass emission rate," whether for a month, week, day or six-month period, is a daily rate determined with the formulas in paragraph C.3.g. above, using the effluent concentration limit specified in the permit for the period and the average of measured daily flow (up to the allowable flow) over the period.
- i. "Removal efficiency" is the ratio of pollutants removed by the treatment unit to pollutants entering the treatment unit. Removal efficiencies of a treatment plant shall be determined using "monthly averages" of pollutant concentrations (C, in mg/l) of influent and effluent samples collected about the same time and the following equation (or its equivalent):

$$\text{Removal Efficiency (\%)} = 100 \times \left(1 - \frac{C(\text{Effluent})}{C(\text{Influent})}\right)$$

4. Test Procedures

Test procedures for the analysis of pollutants shall conform to regulations published pursuant to Section 304(h) of the Act.

5. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. The exact place, date, and time of sampling or measurement;
- b. The person(s) who performed the sampling or measurement;
- c. The dates the analyses were performed;
- d. The person(s) who performed the analyses;
- e. The analytical techniques or methods used; and
- f. The results of all required analyses.

6. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report Form. Such increased frequency shall also be indicated.

PERMIT ISSUED

Date MAY - 1 1995

7. Records Retention

- a. All records and information resulting from the monitoring activities required by this permit including all records of analysis performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained for a minimum of three (3) years.
- b. This period shall be extended:
 - i. automatically during the course of any unresolved litigation regarding the discharge of pollutants by the permittee or regarding promulgated effluent guidelines applicable to the permittee, or
 - ii. at the request of the Regional Administrator or the Director.

8. Monitoring, analytical, and reporting requirements may be modified by the Regional Administrator or the Director upon due notice.

9. Penalties for Tampering

The Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six (6) months per violation, or by both.

10. Averaging of Measurements

Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Regional Administrator or the Director in the permit.

11. Anticipated Noncompliance

The permittee shall give advance notice to the Regional Administrator and the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

PART II

A. MANAGEMENT REQUIREMENTS

1. Planned Changes

The permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

- a. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b); or
- b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under 40 CFR 122.42(a)(1).

2. Twenty-Four Hour Reporting of Noncompliance

The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including dates and times, and, if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

The following shall be included as information which must be reported within 24 hours:

- a. Any unanticipated bypass which exceeds any effluent limitation in the permit;
- b. Any upset which exceeds any effluent limitations in the permit; and
- c. Violation of a maximum daily discharge limitation for any toxic pollutant or hazardous substance, or any pollutant specifically identified as the method to control a toxic pollutant or hazardous substance, listed as such by the Regional Administrator and the Director in the permit to be reported within 24 hours.

Reports should be made to telephone (808)548-6355. The Regional Administrator and the Director may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

3. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under Part II.A.2. at the time monitoring reports are submitted. The reports shall contain the information listed in Part II.A.2.

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4. Signatory Requirements

All reports or information submitted to the Regional Administrator and the Director shall be signed and certified in accordance with 40 CFR Section 122.22.

5. Availability of Reports

Except for data determined to be confidential under 40 CFR Part 2, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Regional Administrator and the Director. As required by the Act, permit applications, permits, and effluent data shall not be considered confidential.

6. Penalties for Falsification of Reports

The Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six (6) months per violation, or by both.

7. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to receiving waters resulting from noncompliance with any effluent limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

8. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.

9. Duty to Halt or Reduce Activity

Upon reduction, loss, or failure of the treatment facility, the permittee shall, to the extent necessary to maintain compliance with its permit, control production or all discharges or both until the facility is restored or an alternative method of treatment is provided. This requirement applies for example, when the primary source of power of the treatment facility fails or is reduced or lost.

10. Bypass of Treatment Facilities

a. Definitions

- (1) "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.

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(2) "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which are reasonably expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

b. Bypass not exceeding limitations

The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs c. and d. of this section.

c. Notice

(1) Anticipated bypass. If the permittee knows in advance of the need for a bypass, he shall submit prior notice, if possible, at least ten (10) days before the date of the bypass.

(2) Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part I.A.2. (24-hour notice).

d. Prohibition of bypass

(1) Bypass is prohibited, and the Regional Administrator and the Director may take enforcement action against the permittee for bypass, unless:

(A) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(B) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

(C) The permittee submitted notices as required under paragraph c. of this section.

(2) The Regional Administrator and the Director may approve an anticipated bypass, after considering its adverse effects, if he determines that it will meet the three (3) conditions listed above in paragraph d.(1) of this section.

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11. Upset Conditions

a. Definition

"Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

b. Effect of an upset

An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of paragraph c. of this section are met. No determination made during administrative review of claims that noncompliance was caused by an upset, and before an action for noncompliance, is final administrative action subject to judicial review.

c. Conditions necessary for a demonstration of upset

A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

- (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
- (2) The permitted facility was at the time being properly operated;
- (3) The permittee submitted notice of the upset as required in Part II.A.2. (24-hour notice); and
- (4) The permittee complied with any remedial measures required under Part II.B.15. (duty to mitigate).

d. Burden of proof

In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

12. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering navigable waters.

B. GENERAL CONDITIONS

1. Duty to Comply

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action or for requiring a permittee to apply for and obtain an individual NPDES permit.

2. Duty to Comply with Toxic Effluent Standards

The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

3. Penalties for Violation of Permit Conditions

The Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318 or 405 of the Act is subject to a civil penalty not to exceed \$10,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing Sections 301, 302, 303, 306, 307 or 308 of the Act is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than one (1) year, or both.

4. Right of Entry

The permittee shall allow the Director, the Regional Administrator, and/or their authorized representatives, upon the presentation of credentials and other documents as may be required by law:

- a. To enter upon the permittee's premises where a point source is located or where any records are required to be kept under the terms and conditions of this permit; and
- b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any discharge of pollutants.

5. Transfer of Ownership or Control

In the event of any change in ownership or control of facilities from which the authorized discharge emanates, the permit may be transferred to another person if the permittee:

- a. Notifies the Regional Administrator and the Director, in writing, of the proposed transfer;
- b. A written agreement, indicating the specific date of proposed transfer of permit coverage and acknowledging responsibilities of current and new permittee for compliance with liability for the terms and conditions of this permit, is submitted to the Regional Administrator and the Director; and

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- c. The Regional Administrator or the Director within thirty (30) days does not notify the current permittee and the new permittee of intent to modify, revoke and reissue, or terminate the permit and require that a new application be submitted.

6. Permit Modification

After notice and opportunity for a hearing, this permit may be modified, terminated or revoked and reissued in whole or in part during its term for cause including, but not limited to, the following:

- a. Violation of any terms or conditions of this permit;
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge;
- d. Information indicating that the permitted discharge poses a threat to human health and welfare.

This permit may be modified, revoked, reissued, or terminated in accordance with the provision of 40 CFR 122.5-122.7, 125.62 and 125.64. Cause for taking such action includes; but is not limited to, failure to comply with any permit condition, endangerment to human health or the environment resulting from the permitted activity, or acquisition of newly obtained information which would have justified the application of different permit conditions if known at the time of the permit issuance.

7. Toxic Pollutants

Notwithstanding Part II.B.2. above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revoked and reissued or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified.

8. Civil and Criminal Liability

Except as provided in permit conditions on "Bypassing" (Part II.A.10.), and "Upset" (Part II.A.11.), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

9. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act.

10. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Act.

11. Safeguards to Electric Power Failure

In order to maintain compliance with the effluent limitations and prohibitions of this permit, the permittee shall either:

- a. Maintain in good working order an alternate power source sufficient to operate the wastewater control facilities; or
- b. If such alternate power source is not in existence, shall halt, reduce, or otherwise control all discharge upon the reduction, loss, or failure of the primary source of power to wastewater control facilities.

12. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

13. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

14. Reapplication

If the permittee desires to continue to discharge, he shall reapply not later than 180 days before this permit expires, on the application forms then in use.

15. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.

16. State Water Quality Standards

The permittee shall comply with State Water Quality Standards for the water area in which the discharge is located, except for any water quality parameter for which a zone of mixing has been granted by the Director.

PART III

A. CHANGES IN DISCHARGES OF TOXIC SUBSTANCES

1. The permittee shall notify the Director as soon as it knows or has reason to believe that any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - a. One hundred micrograms per liter (100 ug/l);
 - b. Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
 - c. Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR 122.21(g)(7).
2. The permittee shall notify the Director as soon as it knows or has reason to believe that any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - a. Five hundred micrograms per liter (500 ug/l);
 - b. One milligram per liter (1 mg/l) for antimony;
 - c. Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR 122.21(g)(7);
 - d. The level established by the Director in accordance with 40 CFR 122.44(f).

AIR EMISSIONS CALCULATIONS

Unless specified in the calculations, all emission factors were obtained from the AP-42, COMPILATION OF AIR POLLUTANT EMISSION FACTORS, provided as supplemental enclosures by the State Department of Health Clean Air Branch. The variables displayed in the following calculations are as follows:

<u>Variables</u>	<u>Definitions</u>
%A	Percent Ash in fuel by weight
%S	Percent Sulfur in fuel by weight
AE	Annual Emissions
EF42	AP-42 emission factor
ER	Emission Rate
FHV	Fuel Heat Input Value (BTU/Gal)
FUse(93)	Fuel Use during calendar year 1993
MFR	Maximum Fuel Feed Rate
MMBTU	1,000,000 BTU
RB	Amount of refuse incinerated during calendar year 1993
TPY	Tons per Year
NMTOC	Non-Methane Total Organic Compound

Portable Boiler no. 2306 consumed 31,781 gallons in calendar year 1993; however, because boiler 2306 currently has an Authority To Construct Permit and is located in a non-covered source area it's our understanding that fees for 1993 emissions are not required. Portable Boiler No's 2315, 2319, 2382 and 2397 did not operate during calendar year 1993.

- SOURCE: 500 KW Diesel Generator (DGS-9600)**
LOCATION: Building 149, Pearl Harbor Naval Shipyard, Oahu
PERMIT TYPE: PTO # P-976-1403
FUse(93): 120 Gal/Yr
FType: Marine Distillate (equivalent to Diesel Fuel No. 2)

NO_x:

$$EF = 3.1 \text{ lb/MMBTU (Table 3.4-1)}$$

$$AE = (3.1 \text{ lb/MMBTU})(139,000 \text{ BTU/Gal})(120 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb})$$

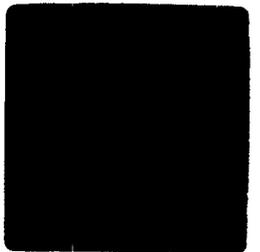
$$= 0.03 \text{ TPY} \checkmark$$

SO_x:

$$EF = 1.01(\%S) \text{ lb/MMBTU, (Table 3.4-1)}$$

$$AE = [1.01(1)/\text{MMBTU}](139,000 \text{ BTU/Gal})(120 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb})$$

$$= 0.008 \text{ TPY} \checkmark$$



NOx:

$$\begin{aligned} \text{EF} &= 2.3 \text{ lb/1000 Gal (Table 1.11-2)} \\ \text{AE} &= (2.3 \text{ lb/1000 Gal})(1,272,450 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 1.46 \text{ TPY} \end{aligned}$$

SOx:

$$\begin{aligned} \text{EF} &= 17.6(\%S) \text{ lb/1000 Gal (Table 1.11-2)} \\ \text{AE} &= [17.6(2) \text{ lb/1000 Gal}](1,272,450 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 22.40 \text{ TPY} \end{aligned}$$

TOC:

$$\begin{aligned} \text{EF} &= 0.1 \text{ lb/1000 Gal (Table 1.11-3)} \\ \text{AE} &= (0.1 \text{ lb/1000 Gal})(1,272,450 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.064 \text{ TPY} \end{aligned}$$

PM10:

$$\begin{aligned} \text{EF} &= 51(\%A) \text{ lb/1000 Gal (Table 1.11-1)} \\ \text{AE} &= [51(0.0290) \text{ lb/1000 Gal}](1,272,450 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.94 \text{ TPY} \end{aligned}$$

PM:

$$\begin{aligned} \text{EF} &= 61(\%A) \text{ lb/1000 Gal (Table 1.11-1)} \\ \text{AE} &= [61(0.0290) \text{ lb/1000 Gal}](1,272,450 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 1.13 \text{ TPY} \end{aligned}$$

Note:

- Percent weight of chlorine in FOR is unknown
- Percent weight of lead in FOR is non-detectable

4. SOURCE: (3 ea) 44 MBTUH Steam Generators (Boilers):

[ESD-501, ESD-502 and ESD-503]

LOCATION: Building 149, Pearl Harbor Naval Shipyard, OAHU

PERMIT: P-254-1556

FUse(93): 71,946 Gal/Yr

FType: No. 5 Light (Residual oil)

BOILER CLASSIFICATION: Industrial Boiler

NOx:

$$\begin{aligned} \text{EF} &= 55.0 \text{ lb/1000 Gal (Table 1.3-2)} \\ \text{AE} &= (55.0 \text{ lb/1000 Gal})(71,946 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 1.98 \text{ TPY} \end{aligned}$$

SO2:

$$\begin{aligned} \text{EF} &= 157(\%S) \text{ lb/1000 Gal (Table 1.3-2)} \\ \text{AE} &= [157(2) \text{ lb/1000 Gal}](71,946 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 11.30 \text{ TPY} \end{aligned}$$

NMTOC:

$$\begin{aligned} \text{EF} &= 0.28 \text{ lb/1000 Gal (Table 1.3-4)} \\ \text{AE} &= (0.28 \text{ lb/1000 Gal})(71,946 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.01 \text{ TPY} \end{aligned}$$

PM10:

EF = 7.17(A), where A has the units of lb/1000 Gal and is a function of fuel oil grade and sulfur content

$$\begin{aligned} \text{AE} &= [7.17(10 \text{ lb/1000 Gal})](71,946 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 2.58 \text{ TPY} \end{aligned}$$

PM:

EF = 10.0 lb/1000 Gal (Table 1.3-2)

$$\begin{aligned} \text{AE} &= (10.0 \text{ lb/1000 Gal})(71,946 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.36 \text{ TPY} \end{aligned}$$

5. **SOURCE: 100 HP Steam Generator (BR 2307)**

LOCATION: Building 40, Ford Island, Oahu

PERMIT NO.: P-410-1381

FUse(93): 12,212 Gal/Yr

FType: Marine Distillate (Equivalent to Diesel Fuel No. 2)

BOILER CLASSIFICATION: Commercial Boiler

NOx:

EF = 20.0 lb/1000 Gal (Table 1.3-2)

$$\begin{aligned} \text{AE} &= (20.0 \text{ lb/1000 Gal})(12,212 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.122 \text{ TPY} \end{aligned}$$

SO2:

EF = 142(%S) lb/1000 Gal (Table 1.3-2)

$$\begin{aligned} \text{AE} &= [142(0.5) \text{ lb/1000 Gal}](12,212 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.434 \text{ TPY} \end{aligned}$$

NMTOC:

EF = 0.34 lb/1000 Gal (Table 1.3-4)

$$\begin{aligned} \text{AE} &= (0.34 \text{ lb/1000 Gal})(12,212 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.002 \text{ TPY} \end{aligned}$$

PM10:

EF = 1.08 lb/1000 Gal (Table 1.3-8)

$$\begin{aligned} \text{AE} &= (1.08 \text{ lb/1000 Gal})(12,212 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.007 \text{ TPY} \end{aligned}$$

PM:

EF = 2.0 lb/1000 Gal (Table 1.3-2)

$$\begin{aligned} \text{AE} &= (2.0 \text{ lb/1000 Gal})(12,212 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.012 \text{ TPY} \end{aligned}$$

6. **SOURCE: 100 HP Steam Generator (BR 2308)**

LOCATION: Building 40, Ford Island, Oahu

PERMIT NO.: P-410-1381

FUse(93): 12,674 Gal/Yr

FType: Marine Distillate (Equivalent to Diesel Fuel No. 2)

BOILER CLASSIFICATION: Commercial Boiler

NOx:

$$\begin{aligned} \text{EF} &= 20 \text{ lb/1000 Gal (Table 1.3-2)} \\ \text{AE} &= (20 \text{ lb/1000 Gal})(12,674 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.127 \text{ TPY} \end{aligned}$$

SO₂:

$$\begin{aligned} \text{EF} &= 142(\%S) \text{ lb/1000 Gal (Table 1.3-2)} \\ \text{AE} &= [142(0.5) \text{ lb/1000 Gal}](12,674 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.450 \text{ TPY} \end{aligned}$$

NMTOC:

$$\begin{aligned} \text{EF} &= 0.34 \text{ lb/1000 Gal (Table 1.3-4)} \\ \text{AE} &= (0.34 \text{ lb/1000 Gal})(12,674 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.002 \text{ TPY} \end{aligned}$$

PM₁₀:

$$\begin{aligned} \text{EF} &= 1.08 \text{ lb/1000 Gal (Table 1.3-8)} \\ \text{AE} &= (1.08 \text{ lb/1000 Gal})(12,674 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.007 \text{ TPY} \end{aligned}$$

PM:

$$\begin{aligned} \text{EF} &= 2.0 \text{ lb/1000 Gal (Table 1.3-2)} \\ \text{AE} &= (2.0 \text{ lb/1000 Gal})(12,674 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.013 \text{ TPY} \end{aligned}$$

7. **SOURCE: 300 HP Steam Generator (BR 6470)**
LOCATION: Building 40, Ford Island, Oahu
PERMIT NO.: P-694-1382
FUse(93): 58,069 Gal/Yr
FType: Marine Distillate (Equivalent to Diesel Fuel No. 2)
BOILER CLASSIFICATION: Industrial Boiler

NOx:

$$\begin{aligned} \text{EF} &= 20 \text{ lb/1000 Gal (Table 1.3-2)} \\ \text{AE} &= (20 \text{ lb/1000 Gal})(58,069 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.581 \text{ TPY} \end{aligned}$$

SO₂:

$$\begin{aligned} \text{EF} &= 142(\%S) \text{ lb/1000 Gal (Table 1.3-2)} \\ \text{AE} &= [142(0.5) \text{ lb/1000 Gal}](58,069 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 2.061 \text{ TPY} \end{aligned}$$

NMTOC:

$$\begin{aligned} \text{EF} &= 0.20 \text{ lb/1000 Gal (Table 1.3-4)} \\ \text{AE} &= (0.20 \text{ lb/1000 Gal})(58,069 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.006 \text{ TPY} \end{aligned}$$

PM₁₀:

$$\begin{aligned} \text{EF} &= 1.0 \text{ lb/1000 Gal (Table 1.3-7)} \\ \text{AE} &= (1.0 \text{ lb/1000 Gal})(58,069 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.029 \text{ TPY} \end{aligned}$$

PM:

$$\begin{aligned} \text{EF} &= 2.0 \text{ lb/1000 Gal (Table 1.3-2)} \\ \text{AE} &= (2.0 \text{ lb/1000 Gal})(58,069 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.058 \text{ TPY} \end{aligned}$$

8. **SOURCE: Portable Boiler (BR 2334)**

LOCATION: Building 177, Pearl Harbor Naval Shipyard, Oahu

PERMIT NO.: A-1159-1021

FUse(93): 2,179 Gal/Yr

FType: Marine Distillate (Equivalent to Diesel Fuel No. 2)

BOILER CLASSIFICATION: Commercial Boiler

NOx:

$$\begin{aligned} \text{EF} &= 20.0 \text{ lb/1000 Gal (Table 1.3-2)} \\ \text{AE} &= (20.0 \text{ lb/1000 Gal})(2,179 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.022 \text{ TPY} \end{aligned}$$

SO2:

$$\begin{aligned} \text{EF} &= 142(\%S) \text{ lb/1000 Gal (Table 1.3-2)} \\ \text{AE} &= [142(0.5) \text{ lb/1000 Gal}](2,179 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.077 \end{aligned}$$

NMTOC:

$$\begin{aligned} \text{EF} &= 0.34 \text{ lb/1000 Gal (Table 1.3-4)} \\ \text{AE} &= (0.34 \text{ lb/1000 Gal})(2,179 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.0004 \text{ TPY} \end{aligned}$$

PM10:

$$\begin{aligned} \text{EF} &= 1.08 \text{ lb/1000 Gal (Table 1.3-8)} \\ \text{AE} &= (1.08 \text{ lb/1000 Gal})(2,179 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.001 \text{ TPY} \end{aligned}$$

PM:

$$\begin{aligned} \text{EF} &= 2.0 \text{ lb/1000 Gal (Table 1.3-2)} \\ \text{AE} &= (2.0 \text{ lb/1000 Gal})(2,179 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.002 \text{ TPY} \end{aligned}$$

9. **SOURCE: Portable Boiler (BR 235223)**

LOCATION: Building 177, Pearl Harbor Naval Shipyard, Oahu

PERMIT NO.: A-1159-1021

FUse(93): 178 Gal/Yr

FType: Marine Distillate (Equivalent to Diesel Fuel No. 2)

BOILER CLASSIFICATION: Commercial Boiler

NOx:

$$\begin{aligned} \text{EF} &= 20.0 \text{ lb/1000 Gal (Table 1.3-2)} \\ \text{AE} &= (20.0 \text{ lb/1000 Gal})(178 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.002 \text{ TPY} \end{aligned}$$

SO₂:

$$\begin{aligned} \text{EF} &= 142(\%S) \text{ lb}/1000 \text{ Gal (Table 1.3-2)} \\ \text{AE} &= [142(0.5) \text{ lb}/1000 \text{ Gal}](178 \text{ Gal}/\text{Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.006 \text{ TPY} \end{aligned}$$

NMTOC:

$$\begin{aligned} \text{EF} &= 0.34 \text{ lb}/1000 \text{ Gal (Table 1.3-4)} \\ \text{AE} &= (0.34 \text{ lb}/1000 \text{ Gal})(178 \text{ Gal}/\text{Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.00003 \text{ TPY} \end{aligned}$$

PM₁₀:

$$\begin{aligned} \text{EF} &= 1.08 \text{ lb}/1000 \text{ Gal (Table 1.3-8)} \\ \text{AE} &= (1.08 \text{ lb}/1000 \text{ Gal})(178 \text{ Gal}/\text{Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.0001 \text{ TPY} \end{aligned}$$

PM:

$$\begin{aligned} \text{EF} &= 2.0 \text{ lb}/1000 \text{ Gal (Table 1.3-2)} \\ \text{AE} &= (2.0 \text{ lb}/1000 \text{ Gal})(178 \text{ Gal}/\text{Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.0002 \text{ TPY} \end{aligned}$$

10. **SOURCE: 2000 KW Gas Turbine Generator (TG-891)**
LOCATION: Station K-10, Pearl Harbor Naval Shipyard, Oahu
PERMIT NO.: P-987-1527
FUse(93): 3,995 Gal/Yr
FType: JP-5

NO_x:

$$\begin{aligned} \text{EF} &= 11.25 \text{ lb}/\text{Hr (Average value obtained from Stack Performance Test)} \\ \text{AE} &= (11.25 \text{ lb}/\text{Hr})(\text{Hr}/235 \text{ Gal})(3,995 \text{ Gal}/\text{Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.096 \text{ TPY} \end{aligned}$$

SO₂:

$$\begin{aligned} \text{EF} &= 2.61 \text{ lb}/\text{Hr (Average value obtained from Stack Performance Test conducted} \\ &\quad \text{during Nov 17-19, 1992)} \\ \text{AE} &= (2.61 \text{ lb}/\text{Hr})(\text{Hr}/235 \text{ Gal})(3,995 \text{ Gal}/\text{Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.022 \text{ TPY} \end{aligned}$$

HYDROCARBONS:

$$\begin{aligned} \text{EF} &= 0.72 \text{ lb}/\text{Hr (Based on manufacturer's estimated emissions)} \\ \text{AE} &= (0.72 \text{ lb}/\text{Hr})(\text{Hr}/235 \text{ Gal})(3,995 \text{ Gal}/\text{Yr})(\text{Ton}/2000 \text{ Gal}) \\ &= 0.006 \text{ TPY} \end{aligned}$$

PM:

$$\begin{aligned} \text{EF} &= 3 \text{ lb}/\text{Hr (Based on manufacturer's estimated emissions)} \\ \text{AE} &= (3 \text{ lb}/\text{Hr})(\text{Hr}/235 \text{ Gal})(3,995 \text{ Gal}/\text{Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.026 \text{ TPY} \end{aligned}$$

11. SOURCE: 2000 KW GAS TURBINE GENERATOR (TG-892)
LOCATION: Building 91, Barbers Point Naval Air Station, Oahu
PERMIT NO.: P-1044-1509
FUse(93): 3,485 Gal/Yr
FType: JP-5

NO_x:

EF = 11.25 lb/Hr (Average value obtained from Stack Performance Test conducted on Nov 17-19, 1992)

AE = (11.25 lb/Hr)(Hr/235 Gal)(3,485 Gal/Yr)(Ton/2000 lb)
= 0.083 TPY

SO₂:

EF = 2.61 lb/Hr (Average value obtained from Stack Performance Test conducted on Nov 17-19, 1992)

AE = (2.61 lb/Hr)(Hr/235 Gal)(3,485 Gal/Yr)(Ton/2000 lb)
= 0.019 TPY

HYDROCARBONS:

EF = 0.72 lb/Hr (Based on manufacturer's estimated emissions)

AE = (0.72 lb/Hr)(Hr/235 Gal)(3,485 Gal/Yr)(Ton/2000 lb)
= 0.005 TPY

PM:

EF = 3 lb/Hr (Based on manufacturer's estimated emissions)

AE = (3 lb/Hr)(Hr/235 Gal)(3,485 Gal/Yr)(Ton/2000 lb)
= 0.022 TPY

12. SOURCE: 2000 KW Gas Turbine Generator (TG-893)
LOCATION: Building 177, Pearl Harbor Naval Shipyard, Oahu
PERMIT NO.: P-988-1528
FUse(93): 6,834 Gal/Yr
FType: JP-5

NO_x:

EF = 11.25 lb/Hr (Average value obtained from Stack Performance Test conducted on Nov 17-19, 1992)

AE = (11.25 lb/Hr)(Hr/235 Gal)(6,834 Gal/Yr)(Ton/2000 lb)
= 0.164 TPY

SO₂:

EF = 2.61 lb/Hr (Average value obtained from Stack Performance Test conducted on Nov 17-19, 1992)

AE = (2.61 lb/Hr)(Hr/235 Gal)(6,834 Gal/Yr)(Ton/2000 lb)
= 0.038 TPY

HYDROCARBONS:

$$\begin{aligned} \text{EF} &= 0.72 \text{ lb/Hr (Based on manufacturer's estimated emissions)} \\ \text{AE} &= (0.72 \text{ lb/Hr})(\text{Hr}/235 \text{ Gal})(6,834 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.010 \text{ TPY} \end{aligned}$$

PM:

$$\begin{aligned} \text{EF} &= 3 \text{ lb/Hr (Based on manufacturer's estimated emissions)} \\ \text{AE} &= (3 \text{ lb/Hr})(\text{Hr}/235 \text{ Gal})(6,834 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.044 \text{ TPY} \end{aligned}$$

13. **SOURCE: 2000 KW Gas Turbine Generator (TG-895)**
LOCATION: Building 177, Pearl Harbor Naval Shipyard, Oahu
PERMIT NO.: P-988-1528
FUse(93): 6,782 Gal/yr
FType: JP-5

NOx:

$$\begin{aligned} \text{EF} &= 11.25 \text{ lb/Hr (Average value obtained from Stack Performance Test conducted on} \\ &\quad \text{Nov 17-19, 1992)} \\ \text{AE} &= (11.25 \text{ lb/Hr})(\text{Hr}/235 \text{ Gal})(6782 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.162 \text{ TPY} \end{aligned}$$

SO2:

$$\begin{aligned} \text{EF} &= 2.61 \text{ lb/Hr (Average value obtained from Stack Performance Test conducted on} \\ &\quad \text{Nov 17-19, 1992)} \\ \text{AE} &= (2.61 \text{ lb/Hr})(\text{Hr}/235 \text{ Gal})(6782 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.038 \text{ TPY} \end{aligned}$$

HYDROCARBONS:

$$\begin{aligned} \text{EF} &= 0.72 \text{ lb/Hr (Based on manufacturer's estimated emissions)} \\ \text{AE} &= (0.72 \text{ lb/Hr})(\text{Hr}/235 \text{ Gal})(6782 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.010 \text{ TPY} \end{aligned}$$

PM:

$$\begin{aligned} \text{EF} &= 3 \text{ lb/Hr (Based on manufacturer's estimated emissions)} \\ \text{AE} &= (3 \text{ lb/Hr})(\text{Hr}/235 \text{ Gal})(6782 \text{ Gal/Yr})(\text{Ton}/2000 \text{ lb}) \\ &= 0.043 \text{ TPY} \end{aligned}$$

14. **SOURCE: 2000 KW Gas Turbine Generator (TG-897)**
LOCATION: Building 40, Ford Island, Oahu
PERMIT NO.: P-1045-1510
FUse(93): 3,538 Gal/Yr
FType: JP-5

NOx:

$$\begin{aligned} \text{EF} &= 11.25 \text{ lb/Hr (Average value obtained from Stack Performance Test conducted on} \\ &\quad \text{Nov 17-19, 1992)} \\ \text{AE} &= (11.25 \text{ lb/Hr})(\text{Hr}/235 \text{ Gal})(3538 \text{ Gal/Yr})(\text{Ton}/\text{Yr}) \\ &= 0.085 \text{ TPY} \end{aligned}$$

SO2:

EF = 2.61 lb/Hr (Average value obtained from Stack Performance Test conducted on Nov 17-19, 1992)

AE = (2.61 lb/Hr)(Hr/235 Gal)(3538 Gal/Yr)(Ton/2000 lb)
= 0.020 TPY

HYDROCARBONS:

EF = 0.72 lb/Hr (Based on manufacturer's estimated emissions)

AE = (0.72 lb/Hr)(Hr/235 Gal)(3538 Gal/Yr)(Ton/2000 lb)
= 0.005 TPY

PM:

EF = 3 lb/Hr (Based on manufacturer's estimated emissions)

AE = (3 lb/Hr)(Hr/235 Gal)(3538 Gal/Yr)(Ton/2000 lb)
= 0.023 TPY

15. SOURCE: **2000 KW Gas Turbine Generator (TG-906)**

LOCATION: Building 149, Pearl Harbor Naval Shipyard, Oahu

PERMIT NO.: P-956-1545

FUse(93): 4,898 Gal/Yr

FType: JP-5

NOx:

EF = 11.25 lb/Hr (Average value obtained from Stack Performance Test conducted on Nov 17-19, 1992)

AE = (11.25 lb/Hr)(Hr/235 Gal)(4898 Gal/Yr)(Ton/2000 lb)
= 0.117 TPY

SO2:

EF = 2.61 lb/Hr (Average value obtained from Stack Performance Test conducted on Nov 17-19, 1992)

AE = (2.61 lb/Hr)(Hr/235 Gal)(4898 Gal/Yr)(Ton/2000 lb)
= 0.027 TPY

HYDROCARBONS:

EF = 0.72 lb/Hr (Based on manufacturer's estimated emissions)

AE = (0.72 lb/Hr)(Hr/235 Gal)(4898 Gal/Yr)(Ton/2000 lb)
= 0.008 TPY

PM:

EF = 3 lb/Hr (Based on manufacturer's estimated emissions)

AE = (3 lb/Hr)(Hr/235 Gal)(4898 Gal/Yr)(Ton/2000 lb)
= 0.031 TPY

16. SOURCE: **2000 KW Gas Turbine Generator (TG-908)**

LOCATION: Building 149, Pearl Harbor Naval Shipyard, Oahu

PERMIT NO.: P-956-1545

FUse(93): 6,931 Gal/Yr

FType: JP-5

NOx:

EF = 11.25 lb/Hr (Average value obtained from Stack Performance Test conducted on Nov 17-19, 1992)

AE = (11.25 lb/Hr)(Hr/235 Gal)(6931 Gal/Yr)(Ton/2000 lb)
= 0.166 TPY

SO2:

EF = 2.61 lb/Hr (Average value obtained from Stack Performance Test conducted on Nov 17-19, 1992)

AE = (2.61 lb/Hr)(Hr/235 Gal)(6931 Gal/Yr)(Ton/2000 lb)
= 0.038 TPY

HYDROCARBONS:

EF = 0.72 lb/Hr (Based on manufacturer's estimated emissions)

AE = (0.72 lb/Hr)(Hr/235 Gal)(6931 Gal/Yr)(Ton/2000 lb)
= 0.011 TPY

PM:

EF = 3 lb/Hr (Based on manufacturer's estimated emissions)

AE = (3 lb/Hr)(Hr/235 Gal)(6931 Gal/Yr)(Ton/2000 lb)
= 0.044 TPY

17. SOURCE: 2000 KW Gas Turbine Generator (TG-911)

LOCATION: Waiawa Water Pumping Station

PERMIT NO.: P-1046-1511

FUse(93): 2152 Gal/Yr

FType: JP-5

NOx:

EF = 11.25 lb/Hr (Average value obtained from Stack Performance Test conducted on Nov 17-19, 1992)

AE = (11.25 lb/Hr)(Hr/235 Gal)(2152 Gal/Yr)(Ton/2000 lb)
= 0.052 TPY

SO2:

EF = 2.61 lb/Hr (Average value obtained from Stack Performance Test conducted on Nov 17-19, 1992)

AE = (2.61 lb/Hr)(Hr/235 Gal)(2152 Gal/Yr)(Ton/2000 lb)
= 0.012 TPY

HYDROCARBONS:

EF = 0.72 lb/Hr (Based on manufacturer's estimated emissions)

AE = (0.72 lb/Hr)(Hr/235 Gal)(2152 Gal/Yr)(Ton/2000 lb)
= 0.003 TPY

PM:

EF = 3 lb/Hr (Based on manufacturer's estimated emissions)

AE = (3 lb/Hr)(Hr/235 Gal)(2152 Gal/Yr)(Ton/2000 lb)
= 0.014 TPY

18. SOURCE: **Classified Waste Incinerator**

LOCATION: Building 1484, Pearl Harbor Naval Shipyard, Oahu

PERMIT NO.: P-666-1568

RB(93): 40,685 lb/Hr (20.34 TPY)

FType: Propane

EQUIPMENT CLASSIFICATION: Industrial/Commercial (multiple chamber)

NOx:

EF = 3 lb/ton (Table 2.1-12)

AE = (3 lb/ton)(20.34 ton/Yr)(Ton/2000 lb)
= 0.031 TPY

SO2:

EF = 2.5 lb/ton (Table 2.1-12)

AE = (2.5 lb/ton)(20.34 ton/Yr)(Ton/2000 lb)
= 0.025 TPY

TOC:

EF = 3 lb/ton (Table 2.1-12)

AE = (3 lb/ton)(20.34 ton/Yr)(Ton/2000 lb)
= 0.031 TPY

PM:

EF = 7 lb/ton (Table 2.1-12)

AE = (7 lb/ton)(20.34 ton/Yr)(Ton/2000 lb)
= 0.071 TPY

19. SOURCE: **Silver Recovery Incinerator**

LOCATION: Building 1484, Pearl Harbor Naval Shipyard, Oahu

PERMIT NO.: P-631-896

RB(93): 5,720 lb/Yr (2.86 TPY)

FType: Propane

EQUIPMENT CLASSIFICATION: Industrial/Commercial (multiple chamber)

NOx:

EF = 3 lb/ton (Table 2.1-12)

AE = (3 lb/ton)(2.86 ton/Yr)(Ton/2000 lb)
= 0.004 TPY

SO2:

EF = 2.5 lb/ton (Table 2.1-12)

AE = (2.5 lb/ton)(2.86 ton/Yr)(Ton/2000 lb)
= 0.004 TPY

TOC:

EF = 3 lb/ton (Table 2.1-12)

AE = (3 lb/ton)(2.86 ton/Yr)(Ton/2000 lb)
= 0.004 TPY

PM:

EF = 7 lb/ton (Table 2.1-12)

AE = (7 lb/ton)(2.86 ton/Yr)(Ton/2000 lb)
= 0.010 TPY

Facility Name: **NAVY PUBLIC WORKS CENTER**
 Location: **PEARL HARBOR NAVAL COMPLEX**
 Mailing Address: **Navy Public Works Center**
 Phone: **(808)471-7703** POC: **Darren Chun (Code 3011)**

Island: **Oahu**
 City: **Pearl Harbor** State: **Hawaii** ZIP: **96860**
 Title: **Environmental Engineer**

Responsible Official (Print/Type): **CAPT. J. A. RISPOLI**
 as defined 11-601-1-1)

Title: **Commanding Officer**

Signature:

Date:

* Note: Refer to calculation worksheet to reference equipment number.

SUPPLEMENT
 ANNUAL EMISSION AND FEE SUMMARY SHEET FOR COVERED SOURCES
 (For Air Pollutant Emissions Emitted During Calendar Year 1994)
 Pollutant Emissions (Tons/Yr.)

Equipment *	TSP	PM10	SO2	CO	NOx	VOC	Leak	NMTOC	TOC	Others (please specify)
1	0.0006	0.0004	0.0084		0.026				0.0008	
2	0.0018		0.0014		0.021	0.002				
3	1.1255	0.9410	22.395		1.463			0.064		
4	0.3597	2.5793	11.296		1.979				0.0101	
5	0.0122	0.0066	0.434		0.122				0.0021	
6	0.0127	0.0068	0.450		0.127				0.0022	
7	0.0581	0.0290	2.061		0.581				0.0058	
8	0.0022	0.0012	0.077		0.022				0.0004	
9	0.0002	0.0001	0.006		0.002				0.00003	
10	0.0255		0.022		0.096	0.006				
12	0.0436		0.038		0.164	0.010				
13	0.0433		0.038		0.162	0.010				
14	0.0226		0.020		0.085	0.005				
15	0.0313		0.027		0.117	0.008				
16	0.0442		0.038		0.166	0.011				
18	0.0712		0.025		0.031			0.031		
19	0.0100		0.004		0.004			0.004		
Transfer supplement totals to cover sheet										
	1.8646	3.5644	36.941		5.166	0.052		0.098	0.0213	

For Agency Use Only
 Date Received

LIST OF COMPLIANCE PROJECTS

(Attachment for item 6a.)

<u>Project</u>	<u>Cost</u>	<u>Completion Date</u>
1. Extend Outfall at WWTF at Ft Kam	\$ 25,000,000	FY99
2. Consolidate and Connect NCTAMS WWTF to City & County System	\$ 8,900,000	FY97
3. Prepare a Storm Water Pollution Prevention Plan	\$ 203,400	Jan 95
4. Construct Odor Reducing Systems at NCTAMS	\$ 60,000	FY96
5. Construct Odor Reducing System at Sewage Lift Stations No. 9 and M	\$ 1,450,000	FY95
6. Construct Odor Reducing System for Bilgewater Processing Facility	\$ 104,000	FY95
7. Provide Containment for Two Tanks at Bldg 149	\$ 330,000	FY98
8. Provide Containment for Portable Generators (13 Each)	\$ 65,000	FY95
9. Close UST (13 Tanks)	\$ 840,000	FY97
10. Construct New IWTC	\$14,300,000	Oct 96
11. Construct New Flammable Hazardous Material Facility	\$ 297,000	FY94
12. Install Air Monitoring at NASBP	\$ 12,000	Feb 95
13. Line Monofill	\$368,000	1996
14. Line Old OWLF Cell	\$101,000	1996
15. Install Groundwater Monitoring Wells at Monofill	\$ 50,000	Feb 95
16. Replacement of five clarifier mechanisms in plant's pre-existing clarifiers (Spec No. 90-2385)	\$1,530,000	Aug 94
17. Construct new 5th clarifier MCON P-482	\$10,540,000	Apr 95
18. New Headworks, 3rd Primary Clarifier, 6th Secondary Clarifier, One Aeration Tank, 3rd Anaerobic Digester, Effluent Filter, UV Disinfection (MCON P-483)	\$22,000,000	Dec 97

A. Standard Conditions

The following standard conditions contained in the permit are standard procedural conditions which are applicable to all hazardous waste management facilities:

Subject	Rule and Regulation (40 CFR)	Permit Condition No.
1. Continuation of Expiring Permit	270.51	I.D.3.
2. Signatory Requirements	270.11 and 270.30(k)	I.E.
3. Duty to Comply	270.30(a)	I.D.1.
4. Duty to Reapply	270.30(b) and 270.10(h)	I.D.2.
5. Need to Halt or Reduce Activity	270.30(c)	I.D.4.
6. Duty to Mitigate	270.30(d)	I.D.5.
7. Proper Operation and Maintenance	270.30(e)	I.D.6.
8. Duty to Provide Information	270.30(h) and 264.74(a)	I.D.7.
9. Inspection and Entry	270.30(i)	I.D.8.
10. Monitoring and Records	270.30(j)	I.D.9.
11. Planned Changes	270.30(1)(1)	I.D.10.
12. Certification of Construction or Modification	270.30(1)(2)	I.D.11.
13. Anticipated Noncompliance	270.30(1)(2)	I.D.12.
14. Transfer of Permit	270.40 and 270.30(1)(3)	I.D.13.
15. Compliance Schedule	270.30(1)(5)	I.D.14.
16. 24-Hour Reporting	270.30(1)(6)	I.D.15.

Subject	Rule and Regulation (40 CFR)	Permit Condition No.
17. Other Noncompliance	270.30(1)(7)	I.D.16.
18. Other Information	270.30(1)(8)	I.D.17.
19. Duration of Permit	270.50	I.D.3.
20. Requirement of Recording and Reporting of Monitoring Results	270.31	N.A.
21. Effect of Permit	270.4 and 270.30(g)	I.A.
22. Modification or Revocation and Reissuance of Permit	270.41	I.B.
23. Termination of Permit	270.43	I.B.
24. Minor Modification of Permit	270.42	I.B.
25. Severability	270.32(a)	I.C.
26. Confidential Information	270.12	I.F.
27. Documents to be Submitted		I.G.
28. Documents to be Maintained		I.H.
a. Waste Analysis	264.13	I.H.1.
b. Training Documents and Records	264.16(d)	I.H.2.
c. Contingency Plan	264.53(a)	I.H.3.
d. Closure Plan	264.112(a)	I.H.4.
e. Closure Cost Estimate	264.114(a)	N.C.
f. Operating Record	264.73	I.H.5.
g. Inspection Schedule	264.15(b)	I.H.6.

B. General Facility Conditions

Subject	Rule and Regulation (40 CFR)	Location in Application	Permit Condition No.
1. Required Notices	264.12		II.B
a. Waste from Foreign Sources	264.12(a)	N.C.	II.B.1.
b. Generator Notice	264.12(b)	N.I.	II.B.2.
c. New Owner Notice	264.12(c)	N.I.	II.B.3.
2. General Waste Analysis	264.13	IV	II.C.
a. Chemical and Physical	264.13(a)	IV	
b. Waste Analysis Plan	264.13(b)	IV-1 thru IV-33	II.C.2.
c. Waste Verification	264.13(c)	IV-9	II.C.1.
3. Security	264.14	V	II.D.
a. Waiver Demonstration	264.14(a)	N.A.	
b. 24-Hour Surveillance	264.14(b)(1)	V-1	
c. Barrier and Controlled Entry	264.14(b)(2)	V-1 thru V-4	
d. Signs	264.14(c)	V-5	
4. General Inspection Requirements	264.15	VI	II.E.
a. Inspection Schedule	264.15(b)	VI-4 thru VI-10	
b. Remedial Action	264.15(c)	VI-3	
c. Inspection Records	264.15(d)	VI-11 thru VI-16	
5. Personnel Training	264.16	IX	II.F.
6. General Requirements for Ignitable, Reactive, or Incompatible Wastes	264.17	VII-8 thru VII-12 VIII-23	II.G.

Subject	Rule and Regulation (40 CFR)	Location in Application	Permit Condition No.
7. Location Standards	264.18	II-6	N.A.
a. Seismic	264.18(a)	II-6	
b. Floodplains	264.18(b)	II-6 and II-8	
8. Design and Operation of Facility	264.31	II-10 thru II-15 VII-1 thru VII-12	II.A.
9. Required Equipment	264.32	VII-12 thru VII-16	II.H.1.
10. Testing and Maintenance of Equipment	264.33	VII-16	II.H.2.
11. Access to Communications or Alarm System	264.34	VII-12 thru VII-14	II.H.3.
12. Required Aisle Space	264.35	VII-16	II.H.4.
13. Requirements for Ignitable or Reactive Waste	264.17(a)	VII-8 thru VII-12	II.G.
14. Arrangements with Local Authorities	264.37	VII-16	II.H.5.
15. Implementation of Contingency Plan	264.51	VIII-11 thru VIII-32	II.I.1.
16. Copies of Contingency Plan	264.53	VII-10	II.I.2.
17. Amendment of Contingency Plan	264.54	VIII-6 thru VIII-9	II.I.3.
18. Emergency Coordinator	264.55	VIII-8 thru VIII-12	II.I.4.
19. Emergency Procedures	264.56	VIII-11 thru VIII-24	II.I.5.
20. Use of Manifest System	264.71	III-1 thru III-11 IV-24	II.J.
21. Manifest Discrepancies	264.72	N.I.	II.J.
22. Operating Record	264.73	N.I.	II.K.1.

Subject	Rule and Regulation (40 CFR)	Location in Application	Permit Condition No.
23. Availability, Retention, and Disposition of Records	264.74	N.I.	II.K.3.
24. Biennial Report	264.75	N.I.	II.K.2.
25. Unmanifested Waste Report	264.76	N.I.	II.J.
26. Additional Reports	264.77	N.I.	II.J.
27. Closure Performance Standard	264.111	X-2	II.L.1.
28. Closure Plan	264.112	X-2 thru X-18	II.L.
a. Performance	264.112(a)	X-1 and X-2	II.L.1
b. Amendment of Plan	264.112(b)	N.C.	II.L.2.
c. Notification of Closure	264.112(c)	X-5	II.L.3.
29. Closure Time	264.113	X-6	II.L.4.
30. Disposal or Decontamination of Equipment	264.114	X-11 thru X-17	II.L.5.
31. Certification of Closure	264.115	X-18	II.L.6.
32. Waste Minimization Plan	264.73(b)(9)	N.I.	II.M.

C. Use and Management of Containers

Subject	Rule and Regulation (40 CFR)	Location in Application	Permit Condition No.
1. Waste Identification	264.13(a)	III-5, III-9 thru III-S, Appendix D.1	III.A.
2. Condition of Containers	264.171	III-5A thru III-6 III-8	III.B.
3. Compatibility of Waste with Containers	264.172	VII-12	III.C.
4. Management of Containers	264.173	VII-12	III.D.
5. Containment	264.175	VII-3	III.E.
6. Special Requirements for Ignitable or Reactive Waste	264.176	VII-8 thru VII-12	III.F.
7. Special Requirements for Incompatible Waste	264.177	VII-8 thru VII-12	III.G.
8. Storage of Hazardous Wastes from Land Disposal	268.50	N.I.	III.H.

D. Other Conditions

Subject	Rule and Regulation (40 CFR)	Location in Application	Permit Condition No.
1. Air Monitoring	270.32(b)(2)	N.I.	I.G.2.
2. Storage Restrictions	270.32b)(2) and 355.30(e)	N.I.	III.A.

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

6/10/94

COMMANDER
Title

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)

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

[Signature]
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

E. A. DALLIDE
NAME (Please type or print)
CAPTAIN, CEC, USN
Acting Commanding Officer
Title


Signature

6/1/95
Date

Navy Public Works Center
Activity

BRAC-95 CERTIFICATION

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

Ralph Wakumoto
NAME (Please type or print)


Signature

Division Director
Title

31 May 94
Date

Environmental Compliance
Division

Environmental Department
Department

PWC Pearl Harbor
Activity

Enclosure (1)

BRAC-95 CERTIFICATION

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

Susan Sugita
NAME (Please type or print)
PWC Staff Civil Engineer
Title

Susan Sugita
Signature
5/31/94
Date

PWC Staff Civil Engineer Office
Division

Customer Services Dept.
Department

PWC Pearl Harbor
Activity

Enclosure (1)

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**DATA CALL 64
CONSTRUCTION COST AVOIDANCES**

Table 2: Family Housing Construction Projects

Installation Name:		PEARL HARBOR HI PWC		
Unit Identification Code (UIC):		N62755		
Major Claimant:		NAVFAC		
Project FY	Project No.	Description	Appn	Project Cost Avoid (\$000)
1993	H282	100 UNITS FAMILY HOUSING (MOANA LUA) *	FHSG	2,248
1993	H300	114 UNITS FAMILY HOUSING (MILLER PARK) *	FHSG	5,802
1993	H302	132 UNITS FAMILY HOUSING (PEARL CITY) *	FHSG	4,493
		Sub-Total - 1993		12,543
1995	H349	100 UNITS REPLACEMENT FAMILY HOUSING MT	FHSG	16,000
		Sub-Total - 1995		16,000
1997	H366	300 UNITS REPLACEMENT FAMILY HOUSING	FHSG	54,810
		Sub-Total - 1997		54,810
1999	H367	126 REPLACEMENT UNITS	FHSG	25,520
		Sub-Total - 1999		25,520
2000	H368	126 REPLACEMENT UNITS	FHSG	28,270
		Sub-Total - 2000		28,270
		Grand Total		137,143

BRAC-95 CERTIFICATION

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

MICHAEL D. THORNTON
NAME (Please type or print)

CDR, CEC, USN
Title

MILCON PROGRAMMING DIVISION
Division

NAVAL FACILITIES ENGINEERING COMMAND
Activity


Signature

9 Dec 94
Date

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

MAJOR CLAIMANT LEVEL

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

COMMANDER
Title

NAVAL FACILITIES ENGINEERING COMMAND
Activity



Signature
12/9/94

Date

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

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

W. A. EARNER

NAME (Please type or print)

Title



Signature
12/17/94

Date

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**DATA CALL 64
CONSTRUCTION COST AVOIDANCES**

Table 1: Military Construction (MILCON) Projects (Excluding Family Housing Construction Projects)

Installation Name:		PEARL HARBOR HI PWC		
Unit Identification Code (UIC):		N62755		
Major Claimant:		NAVFAC		
Project FY	Project No.	Description	Appn	Project Cost Avoid (\$000)
1994	468	INDUSTRIAL WASTE TREATMENT COMPLEX	MCON	18,560
		Sub-Total - 1994		18,560
1996	539T	UTILITY SYSTEM MODS	BRAC	2,800
		Sub-Total - 1996		2,800
1997	497	SEWER OUTFALL EXTENSION	MCON	25,140
		Sub-Total - 1997		25,140
1998	442	ELEC DISTRIB SYSTEM IMPRS	MCON	10,160
1998	480	EMERGENCY GENERATOR SYSTEM	MCON	3,070
1998	490	WASTE WATER TREAT PLT MODS	MCON	380
1998	491	SEWER MAIN (FORD ISLAND)	MCON	2,100
		Sub-Total - 1998		15,710
1999	514	HAZ/FLAMMABLE STOREHOUSES	MCON	1,250
		Sub-Total - 1999		1,250
2000	489	WATER TREATMENT FACILITY	MCON	28,000
		Sub-Total - 2000		28,000

BRAC-95 CERTIFICATION

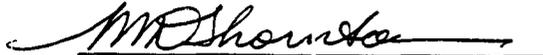
I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MICHAEL D. THORNTON
NAME (Please type or print)

CDR, CEC, USN
Title

MILCON PROGRAMMING DIVISION
Division

NAVAL FACILITIES ENGINEERING COMMAND
Activity



Signature



Date

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MAJOR CLAIMANT LEVEL

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COMMANDER
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NAVAL FACILITIES ENGINEERING COMMAND
Activity


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12/9/94
Date

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

W. A. EARNER

NAME (Please type or print)

Title


Signature
12/17/94
Date

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DATA CALL 64

CONSTRUCTION COST AVOIDANCES

Table 1: Military Construction (MILCON) Projects (Excluding Family Housing Construction Projects)

Installation Name:		PEARL HARBOR HI PWC		
Unit Identification Code (UIC):		N62755	#123	
Major Claimant:		NAVFAC		
Project FY	Project No.	Description	Appn	Project Cost Avoid (\$000)
1994	468	INDUSTRIAL WASTE TREATMENT COMPLEX	MCON	13,000
		Sub-Total - 1994		13,000
1996	539T	UTILITY SYSTEM MODS	BRAC	2,800
		Sub-Total - 1996		2,800
1997	497	SEWER OUTFALL EXTENSION	MCON	25,140
1997	538T	PW SHOP RELOCATION	BRAC	6,450
		Sub-Total - 1997		31,590
1998	442	ELEC DISTRIB SYSTEM IMPRS	MCON	10,160
1998	480	EMERGENCY GENERATOR SYSTEM	MCON	3,070
1998	490	WASTE WATER TREAT PLT MODS	MCON	380
1998	491	SEWER MAIN(FORD ISLAND)	MCON	2,100
		Sub-Total - 1998		15,710
1999	407	UTILITY SYSTEMS IMPROVS	MCON	8,930
1999	514	HAZ/FLAMMABLE STOREHOUSES	MCON	1,250
		Sub-Total - 1999		10,180

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 E. Buffington
Signature

COMMANDER
Title

7/13/94
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

7/18/94
Date

BRAC-95 CERTIFICATION

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

MARK E. DONALDSON
NAME (Please type or print)

CDR, CEC, USN
Title

MILCON PROGRAMMING DIVISION
Division

FACILITIES PROGRAMMING AND CONSTRUCTION DIRECTORATE
Department

NAVAL FACILITIES ENGINEERING COMMAND
Activity


Signature
12 July 1994
Date

Enclosure (1)

**BRAC DATA CALL NUMBER 64
CONSTRUCTION COST AVOIDANCE**

Information on cost avoidance which could be realized as the result of cancellation of on-going or programmed construction projects is provided in Tables 1 (MILCON) and 2 (FAMILY HOUSING). These tables list MILCON/FAMILY HOUSING projects which fall within the following categories:

1. all programmed construction projects included in the FY1996 - 2001 MILCON/FAMILY HOUSING Project List,
2. all programmed projects from FY1995 or earlier for which cost avoidance could still be obtained if the project were to be canceled by 1 OCT 1995, and,
3. all programmed BRAC MILCON/FAMILY HOUSING projects for which cost avoidance could still be obtained if the project were to be canceled by 1 OCT 1995.

Projects listed in Tables 1 and 2 with potential cost avoidance were determined as meeting any one of the following criteria:

Projects with projected Work in Place (WIP) less than 75% of the Current Working Estimate (CWE) as of 1 OCT 1995 .

Projects with projected completion dates or Beneficial Occupancy Dates subsequent to 31 March 1996.

Projects with projected CWE amount greater than \$15M.

The estimated cost avoidance for projects terminated after construction award would be approximately one-half of the CWE for the remaining work. Close-out, claims and other termination costs can consume the other half.

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

MAJOR CLAIMANT LEVEL

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

COMMANDER
Title

NAVAL FACILITIES ENGINEERING COMMAND
Activity

Jack E. Buffington
Signature
7/13/94
Date

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

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

W. A. EARNER

NAME (Please type or print)

Title

W. A. Earner
Signature
7/18/94
Date

BRAC-95 CERTIFICATION

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MARK E. DONALDSON
NAME (Please type or print)


Signature

CDR, CEC, USN
Title

12 July 1994
Date

MILCON PROGRAMMING DIVISION
Division

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Department

NAVAL FACILITIES ENGINEERING COMMAND
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**BRAC DATA CALL NUMBER 64
CONSTRUCTION COST AVOIDANCE**

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