

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


Signature

9 Dec 94
Date

MILCON PROGRAMMING DIVISION
Division

NAVAL FACILITIES ENGINEERING COMMAND
Activity

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
12/11/94
Date

116

Pearl Harbor Naval Shipyard
Activity: N00311

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

23 JUNE 1994

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

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ENVIRONMENTAL DATA CALL

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

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

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

For purposes of the questions associated with land use at your base is *defined as land* (acreage owned, withdrawn, leased, and controlled through easements); *air* (space controlled through agreements with the FAA, e.g., MOAs); *and water* (navigation channels and waters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

Provide a list of the tenant activities with UICs that are covered in this response. See revised attachment (1).

1. ENDANGERED/THREATENED SPECIES AND BIOLOGICAL HABITAT

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

SPECIES (plant or animal)	Designation (Threatened/ Endangered)	Federal/ State	Critical / Designated Habitat (Acres)	Important Habitat (acres)
<i>example: Haliaeetus leucocephalus - bald eagle</i>	<i>threatened</i>	<i>Federal</i>	<i>25</i>	<i>0</i>
NONE				

Source Citation: PACNAVFACENGCOM memo on Natural Resources Management Plan for Pearl Harbor Naval Complex of 24 August 1989.

1b.

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

1c. If the area of the habitat and the associated species have not been identified on base maps

provided in Data Call 1, submit this information on an updated version of Data Call 1 map.

NA

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.	NO
--	----

No endangered/threatened species at PHNS.

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.	NO
---	----

No endangered/threatened species at PHNS.

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?	NO
Has a wetlands survey in accordance with established standards been conducted for your base? U.S. Department of Interior did an aerial photographic interpretation in 1976-77. Results published in 1979 (no specific month and date is available due to the procedure in which wetland data is evaluated and published).	YES
When was the survey conducted or when will it be conducted?	1976
What percent of the base has been surveyed?	100
What is the total acreage of jurisdictional wetlands present on your base?	none

Source Citation: Natural Resources Management Plan for Pearl Harbor Naval Complex.

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.

NA

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

3. CULTURAL RESOURCES

3a.

Has a survey been conducted to determine historic sites, structures, districts or archaeological resources which are listed, or determined eligible for listing, on the National Register of Historic Places? If so, list the sites below.	YES
--	-----

The entire Naval Base Pearl Harbor is listed in the National Register of Historic Places

Data is contained in the following source:

U.S. Naval Base Pearl Harbor National Historic Landmark, Historic Preservation Plan of 1978. Document is maintained by PHNS Facilities Division (Code 912).

3b.

YES/NO

<p>Has the President's Advisory Council on Historic Preservation or the cognizant State Historic Preservation Officer required you to mitigate or constrain base operations or development plans in any way in order to accommodate a National Register cultural resource? If YES, list the results of such modifications or constraints below.</p>	<p>YES</p>
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Several hawaiian fishponds have been identified in Pearl Harbor Naval Shipyard (currently covered over by previous construction projects). Any excavation work performed in these areas shall be approved by the Hawaii State Historic Preservation Office. Fishpond Map is documented in NAVSHIPYD PEARL letter 5750 Ser 912.3DT/089 of 9 August 1993.

3c.

<p>Are there any on base areas identified as sacred areas or burial sites by Native Americans or others? List below.</p>	<p>NO</p>
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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?					NO
ID/Location of Landfill	Permitted Capacity (CYD)		Maximum Capacity (CYD)	Contents ¹	Permit Status
	TOTAL	Remaining			

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

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

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

4c.

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

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

NA

4d.

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

List permit violations and discuss any projects to correct deficiencies.

NA

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.

NA

4f.

Does your base operate an Industrial Waste Treatment Plant (IWTP)?					NO
ID/Location of IWTP	Type of Treatment	Permitted Capacity	Ave Daily Discharge Rate	Maximum Capacity	Permit Status

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

NA

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

NA

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.

NA

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.

Drinking water for the Pearl Harbor Naval Base comes from a treatment plant (pump station, fluoridation plant) that is operated by Public Works Center (PWC).

No limits.

4j.

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

NPDES Permit HI 0110230 - Drydock Discharges

Permit requires PHNS to

- Monitor the maximum flow rate from the outfalls (Nos. 001, 002A, 002B, 003, 004A, and 004B.)
- Monitor the effluent discharges from the outfalls for suspended solids, settleable matter, BOD, COD, Total Copper, Iron, Tin, Temp, PH, Dissolved Oxygen, Whole Effluent toxicity, Oil and grease (15mg/L). Total Residual Oxidants (13 ug/L), lead (140 ug/L). Zinc (95 ug/L), chromium (1,100 ug/L), mercury (2.1 ug/L), Total Nitrogen (300 ug/L), Ammonia Nitrogen (10ug/L), Nitrate (15 ug/L), Phosphorus (60 ug/L)

NPDES permit HI 112172 - Dockside Chlorination Units

- Monitor for Total Residual Oxidant from the 4 drydocks and from 21 piers.

4l.

YES/NO

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

PHNS followed the Navy directive to discontinue the use of donuts. As a result, PHNS must collect and store bilge water until analyses are completed. To alleviate this problem, PHNS has purchased 2 portable filtration units to process bilge waste waters. These units are designed to filter out the oil from the bilge water at 40 gal/min. The wastewater can then be discharged into the sanitary sewer upon meeting the sewer discharge limits. The waste oil is turned in to Fleet Inactive Supply Center (FISC) for reclamation. PHNS also has the option to utilize the Oily Waste Separator Train operated by PWC for treatment of bilge wastewaters with oil and metals.

PHNS has received no violations for bilge water operations.

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.	NO
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4n. What expansion capacity is possible with these Environmental Facilities? Will any expansions/upgrades as a result of BRACON or projects programmed through the Presidents budget through FY1997 result in additional capacity? Explain.

None

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

NO

5. AIR POLLUTION

5a.

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

AQCA: _____

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.

SOURCE: 40 CFR 81.312

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, NO_x, 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 See Note 1	Personal Automobiles See Note 2	Aircraft Emissions See Note 3	Other Mobile See Note 2	Total* See Note 4
CO	<1 TON		NA		14
NO _x	<1 TON		NA		52
VOC	<1 TON		NA		16 (Note 5)
PM10	<1 TON		NA		6

Source Document: Air Emissions Inventory Report for PHNSY of June 1992 completed by NEESA

PHNS follows the State of Hawaii regulations.

Note 1: These amounts are estimates. NFESC was unable to accurately determine the emissions due to insufficient data. The State of Hawaii does not require recordkeeping of emissions.

Note 2: For personal automobiles the amounts of CO, NO_x, VOC, PM10 are not available nor have any data been collected since the State of Hawaii does not require recordkeeping of emissions from automobiles and mobile sources.

Note 3: Not Applicable, PHNS does not have aircraft.

Note 4: Totals include amounts from fugitive emissions which is not regulated by the State of Hawaii, however NFESC was able to obtain this information from supply records of items purchased.

Note 5: VOC calculations are samples and therefore do not add up to the total of 16 as shown in the above chart.

5c. (continued)

EMISSION SOURCES:

1. Coating and Painting
2. Combustion
3. Solvents and Adhesives

SAMPLE CALCULATIONS:

1. Emissions from coating and painting operations

$$\text{VOC emissions } E = R * EF * SG * 8.334 * PV$$
$$E = R * EF * SG * 8.334 * (1-CE) * (1-TE)$$

E = EMISSIONS
R = USE RATE (GAL)
EF = EMISSION FACTOR
SG = SPECIFIC GRAVITY
PV = EVAPORATION PORTION
TE = TRANSFER EFFICIENCY
CE = CONTROL EFFICIENCY

Assumed the transfer efficiency for all painting to be 25 percent.
Assumed the evaporation portion to be 100% in a coating or paint.
Assumed the water curtain and dry filter control devices to be 90% efficient.

VOC emissions using epoxy paints

$$E = 1660 \text{ gal} * 0.45 * 1.25 * 8.334 = 7782 \text{ LBS/YR}$$

Particulate emissions using epoxy paint

$$E = 1660 \text{ gal} * 0.55 * 1.25 * 8.334 * (1 - .25) * (1 - .9)$$
$$= 713 \text{ LBS/YR}$$

VOC emissions using enamel paint

$$E = 1475 \text{ gal} * 0.65 * 1.1 * 8.334 = 8789 \text{ LBS/YR}$$

Particulate emissions using enamel paint

$$E = 1475 \text{ gal} * 0.35 * 1.1 * 8.334 * 0.75 * 0.1$$
$$= 355 \text{ LBS/YR}$$

5c. (continued)

2. Emissions from combustion

$$E = R * EF$$

R = CONSUMPTION RATE
EF = EMISSION FACTOR
R = USE RATE (GAL)

VOC emissions using diesel fuel

$$E = 207542 \text{ gal} * 0.013 = 2698 \text{ LBS/YR}$$

Particulate emissions using diesel fuel

$$E = 207542 \text{ gal} * 0.05 = 10377 \text{ LBS/YR}$$

NOX emissions using diesel fuel

$$E = 207542 \text{ gal} * 0.5 = 103771 \text{ LBS/YR}$$

CO emissions using diesel fuel

$$E = 207542 \text{ gal} * 0.13 = 26981 \text{ LBS/YR}$$

3. Emissions from solvent and adhesives

$$E = R * EF * SG * 8.334 * PV$$

E = EMISSIONS
EF = EMISSION FACTOR
SG = SPECIFIC GRAVITY
P_v = EVAPORATION PORTION

If the vapor pressure for the solvent was 1 atm or greater assumed 100 % evaporation. If less than 76 millimeters assumed 10% evaporates.

VOC emissions using rubber adhesive

$$E = 87 * 0.88 * 0.95 * 8.334 = 606 \text{ LBS/YR}$$

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) (1993)					
Pollutant	Permitted Stationary	Personal Automobiles	Aircraft Emissions	Other Mobile	Total See Note 2
CO	< 1 TON	Same as 5c.	NA	same as 5c.	< 1
NOx	< 1 TON	Same as 5c.	NA	same as 5c.	< 1
VOC	< 1 TON See Note 1	Same as 5c.	NA	same as 5c.	< 1
PM10	< 1 TON	Same as 5c.	NA	same as 5c.	< 1

Source Document: Annual Emission and Fee Summary Sheet dated 7 April 1994. This was submitted as PHNS 1993 Annual Air Emissions

Note 1: The amount provided does not include paint spray booths which are exempt from the State of Hawaii permitting requirements.

Note 2: Totals provided do not include fugitive emission sources. Fugitive emission sources do not require a permit and recordkeeping. Therefore no data has been collected for 1993.

Sample Calculation for Diesel Generator

Act Emissions = (emission factor) * (fuel heat input value) * (fuel usage during prior calendar year) * (air pollution control efficiency factor)

$$FHIV = 141,000 \text{ BTU/GAL or } 0.141 \text{ MMBTU/GAL}$$

$$FUSE = 1923 \text{ GAL}$$

$$ACF = 0$$

NO_x

$$\begin{aligned} \text{Act Emission} &= 3.1 \text{ LB/MMBTU} * .141 * 1923 * 1 \text{ TON}/2000 \text{ LBS} \\ &= .42 \text{ TONS} \end{aligned}$$

CO

$$\begin{aligned} \text{Act Emission} &= .81 \text{ LB/MMBTU} * .141 * 1923 * 1 \text{ TON}/2000 \text{ LBS} \\ &= .11 \text{ TONS} \end{aligned}$$

5d. (continued)

VOC

$$\begin{aligned} \text{Act Emission} &= .01 \text{ LB/MMBTU} * .141 * 1923 * 1 \text{ TON}/2000 \text{ LBS} \\ &= .001 \text{ TONS} \end{aligned}$$

Particulate Emissions

$$\begin{aligned} \text{Act Emission} &= 0.763 \text{ LBS/MMBTU} * .141 * 1923 * 1 \text{ TON}/2000 \text{ LBS} \\ &= .01 \text{ TONS} \end{aligned}$$

5e. Provide estimated increases/decreases in air emissions (Tons/Year of CO, NO_x, 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.

Information is not known at this time. Basically air emissions amounts are porportional to the workload and different operations being performed at PHNS.

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

NONE

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

NO

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

NO

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	Y	155	1	1	1	2	2
Hazardous Waste	Y	125	0	0	0	0	0
Safe Drinking Water Act	Y	0	0	0	0	0	0
PCBs	Y	0	0	0	0	0	0
Other (non-PCB) Toxic Substance Control Act	Y	0	0	0	0	0	0
Lead Based Paint	Y	0	0	0	0	0	0
Radon	Y	0	0	0	0	0	0
Clean Water Act	Y	75	0	0	0	0	0
Solid Waste	Y	0	0	0	0	0	0
Oil Pollution Act	Y	0	0	0	0	0	0
USTs	Y	157	330	500	100	0	0
Other	N/A	0	0	0	0	0	0
Total		512	331	501	101	2	2

* These are not costs to correct deficiencies but costs to stay in compliance. See list on page 14. This list is not all inclusive.

** Many of the deficiencies identified by Code 106 are easily corrected by the cognizant personnel.

Code 106 does not monitor cost to correct deficiencies unless it is a special project such as those listed on page 14.

For those columns with \$0, no funds have been budgeted at this time.

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

<u>Compliance Projects</u>	<u>Cost*</u>	<u>Est start/comp date</u>
Develop Storm Water Pollution Control Plan	\$75k	FY93/FY94
Air Emission Fee Annual	\$1,000	FY93/indefinite
Application Fee for Air Permit	\$4,000	FY94/FY94
Permit Processing Fee (Air Modeling)	\$150,000	FY94/FY94
Closure of HW Storage Area- Phase III	\$125,000	FY94/FY94
UST Removal Closure (closure of 5 add'l tanks)	\$670,000	FY95/FY97
Permanent Closure of 18 USTs	\$1,400,000	5/93 to 8/95

The design and specifications have been completed. The contract award date for removal is scheduled for August 1994.

* Estimates

6b.

Does your base have structures containing asbestos? YES What % of your base has been surveyed for asbestos? 100% Are additional surveys planned? YES, resurvey What is the estimated cost to remediate asbestos (\$K) *. Are asbestos survey costs based on encapsulation, removal or a combination of both? Removal

* No total cost figures are available. However, NAVSEA ltr 11010 Ser 07I&E/386 of 24 August 1992 (BRAC 93) question 16.a provided for cost estimates of \$10/sq ft. Attachment (3) is the data for asbestos containing buildings based on that formula.

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

Funding Source	FY92	FY93	FY94	FY95	FY96	FY97	FY98-99	FY00-01
O&MN	0	0	0	0	0	4	8	9
HA								
PA								
Other (specify) DBOF	2,000*	2,137	6256	5232	5535	5187	10000*	10000*
DERA Salary Support	50	50	30	200	204	210	425	425
TOTAL	2050	2187	6286	5432	5739	5401	10433	10434

Units \$K * Estimates

The figures provided for FY 92 and 93 are actuals. For FY 94-97 figures are based on the ENV Exhibit-32.

Yes, DERA project funds are managed by the local (EFD) NAVFAC (PACNAVFACENCOM)

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

NONE

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

Source: 40 CFR 300

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
13 (Bldg 68)	CERCLA	NO	NO	NO	\$1.9 Sep 97	RI
10 (Bldg 394)	CERCLA	NO	NO	NO	\$2.4 Sep 97	RI

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.

NA. Contamination sites at PHNS are currently under investigation (study). The remediation process will be determined upon the completion of the investigation.

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.

NA

7e.

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

Source: RCRA Facility Investigation, Draft Report of July 1992

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

BUILDING 1665

This is a 11,758 sq. ft. building, specifically designed and built to store Class I, II and III hazardous/flammable materials. The permanent structure consists of a reinforced concrete slab with close walls on a metal frame. It has continuous ventilators with a wet pipe sprinkler system, floor drains, underground run-off tanks and other required safety features to be in full compliance with regulations set forth by NAVSUP PUB 284 (Chapter 5), NAVSUP PUB 529, NFPA 30, and 29 CFR 1910.106. The total storage capacity of this building is 444,804 cu. ft. or approx. 500 55 gal drums.

This data was obtained from FY 1988 Military Construction Project Data (DD 1391) for Project Number P-241 and Construction Contract No. N62471-81-C-1389 as well as on site inspection.

BUILDING 1658

This is a 1320 sq. ft. building of steel frame and wall construction specifically built to store flammable/hazardous materials. This permanent structure is on a concrete slab with an 8 1/2" berm as a spill containment. It has explosion proof centrifical ventilators and lighting installed and a water sprinkler system with fire alarm. The wiring throughout the interior of the building meets Class I, Division I, Group D requirements. The total storage capacity of this building is 16,640 cu. ft. or approx 100 55 gal drums.

This data was obtained from the original construction plans for the building, NAVFAC Dwg. No. 7457069 thru 7457088 specifications and on site inspection

BUILDING 1675

This 420 sq. ft. permanent structure which was specifically designed and constructed to store flammable materials is constructed of hollow tile and concrete on a concrete slab. It has explosion proof lighting and ventilation installed. Secondary containment devices must be used for material storage as there is no berm or spill containment built in to the building design. Fire extinguishers are provided both inside and outside the building for fighting a fire. The total storage capacity of this building is 3,780 cu. ft. or approx 30 55 gal drums.

This data was obtained from Milcon P-213 and Contract No. N62471-84-C-1358 specifications and on site inspection.

900HM PORTABLE STORAGE UNITS

The Shipyard has seven portable storage buildings that are used to store flammable/hazardous material at satellite distribution centers. Five of these buildings are 15'10"L x 9'3"W x 8'9"H with a 7" deep 500 gallon capacity spill containment sump., They

have 2 hr. fire rated walls with two 1 1/2 hour fire rated doors. Each storage container can hold approx. 16 55 gal drums.

The other two buildings are slightly larger with their exterior dimensions of approximately 23'6"L x 9'3"W x 8'9"H. They have a 7" deep spill containment sump. They have 4 hour fire rated walls with two 3 hour rated fire doors.

All seven buildings have a built-in fire suppression system, ventilation system and explosion proof lighting. They are designed to Factory Mutual System standards and utilize UL listed components throughout.

This data was obtained from literature provided by Safety Storage Inc., which is the company that these buildings were purchased from under DLA Contract No. DLA730-91-D-9000.

All of the facilities described above do not require a permit to operate in the Shipyard.

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

YES, PHNS operates the Hazardous Waste Accumulation and Packaging Facility.

Building 1663 is a fully enclosed building designed for the storage of hazardous wastes. This building contains approximately 7,300 square feet of office, storage and working space and is equipped in certain areas with spill trenches to contain accidental releases. In addition, individual storage containers (6) have been installed for storing hazardous wastes. These contain secondary containments. Approximately 208 square feet of this building is used to support (administrative) the Shipyard's Hazard Material Reutilization Center. The six storage containers can hold approx. 100-55 gal drums.

Building S1683 is a 385 square feet open-sided, bermed structure used for the pouring, packaging, and consolidating of hazardous waste. The storage area surrounding this building can hold approx. 200-55 gal drums.

Buildings 1663 and S1683 are equipped with automatic fire sprinkler systems. In addition, each storage container is equipped with an automatic and manually actuated dry chemical fire extinguishing systems.

No permits are required for these facilities.

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

NO

7i.

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

Source: Federal Facilities Agreement (FFA) for PHN Complex, Administrative Docket Number 94-05

7j. Have any base operations or development plans been restricted due to Installation Restoration considerations? NO

7k. List any other hazardous waste treatment or disposal facilities not included in question 7b. above. Include capacity, restrictions and permit conditions. NO

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
Shipyard	308.3	Pearl Harbor

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.)	308.3	
Total Undeveloped (areas that are left in their natural state but are under specific environmental development constraints, i.e.: wetlands, endangered species, etc.)	Wetlands: NONE	
	All Others: NONE	
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	NONE	
Total Off-base lands held for easements/lease for specific purposes	< 0.5 ACRES TOTAL	
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

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. NA

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

Acreage/Location/ID	Zones 2 or 3	Land Use	Compatible/ Incompatible
NONE			

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.

Dredging operations of Pearl Harbor are performed by Naval Station, 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.

NA - This is a Naval Station responsibility.

8h.

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

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

NA

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

NONE

8k.

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

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

NA

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? NONE

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

HAWAII DEPARTMENT OF HEALTH AIR PERMITS FOR PHNS:

PERMIT	NUMBER	TYPE	EXPIRES
ELECTRO PLATING	P-470-1283	PTO	10/01/96
DRYING OVEN	P-706-1578	PTO	09/01/98
TEFLON COATING FACILITY	P-617-1516	PTO	09/01/98
POWDER COATING	P-778-1106	PTO	11/01/94
DALIC PLATING	P-724-1177	PTO	11/01/98
ACID FUME/ASBESTOS	P-328-1242	PTO	02/01/96
BURNOUT OVEN	P-327-1421	PTO	02/01/96
LEAD MELTING POT VENT SYSTEM	P-1019-157	PTO	09/01/96
SOLDERING AND BABBITT BENCH	A-1009-986	ATC	06/01/95
VARNISH DIP TANK	A-1109-102	ATC	10/01/95
STEAM BOILER	A-1094-997	ATC	10/01/94
SAND BLASTING BOOTH	A-1090-105	ATC	11/01/94
BATTERY ACID MIXING TANK	A-1125-104	ATC	11/01/95

HAWAII STATE AIR EMISSION PERMIT

Permit application is in the process of being prepared by a contractor and must be submitted by Nov 1994. The new permit is needed to comply with Title V of the CAA and will be replacing the existing permits. It has not been decided at this time if PHNS or CCMNAVBASE will be the new permit holder.

PTO = Permit to Operate ATC = Authority to Construct

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

NONE

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

None

Data Being Certified: BRAC 95 Data Call Number 33, Pearl Harbor Naval Shipyard

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

NEXT ECHELON LEVEL (if applicable)

William H. Ryzewic

NAME (Please type or print)

W. H. Ryzewic
Signature

Executive Director for Naval Shipyard
and SUPSHIP Management and Field
Activity Support Directorate

Title Date

6/24/94

Naval Sea Systems Command

Activity

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

MAJOR CLAIMANT LEVEL

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

G. R. Stevens
Signature

Title Date

6-30-94

Naval Sea Systems Command

Activity

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

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

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

J. B. Greene, Jr.
Signature

ACTING

Title

06 JUL 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

Fred H. Gehrman, CAPT, USN
NAME (Please type or print)

Signature 

Commander
Title

23 June 1994
Date

Pearl Harbor Naval Shipyard
Activity

BRAC 95 Data Call #33, Environmental Data Call

116

Pearl Harbor Naval Shipyard
Activity UIC: N00311

**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:	PEARL HARBOR NAVAL SHIPYARD
UIC:	N00311
Major Claimant:	NAVAL SEA SYSTEMS COMMAND

General Instructions/Background:

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

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

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

source. Records must be retained by the certifying official to clearly document the source of any non-DoD information submitted for this data call.

General Instructions/Background (Continued):

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

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

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

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

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

1. Workforce Data

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

Average Appropriated Fund Civilian Salary Rate:	\$48,506
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DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Source of Data (1.a. Salary Rate): FY96/97 Biennial Budget AFMB
 (CP18 Exhibit Labor Price-Out Worksheet, A. Flores,
 Comptroller Budget Analyst

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	HI	45	4416	100	30	45
(None Other)						

= 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:

Government housing is located in the City & County of Honolulu.

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Source of Data (1.b. 1) & 2) Residence Data): Defense Civilian Personnel Directory System - Data date: 1 Aug 1994, PHNSY Human Resources Office, J. Wataoka, Director, HRO, (Civilian count); Administrative Support Div (MILPERS), N. Woolery; City & County of Honolulu, Facts and Figures 1994

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	Activity is within the City of Honolulu.
(None Other)		

Source of Data (1.c. Metro Areas): City & County of Honolulu, Facts and Figures 1994; PHNSY Business & Strategic Planning Office, M. Adessa, Program Manager

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	31	1%
20 - 24 Years	105	2%
25 - 34 Years	507	11%
35 - 44 Years	1799	40%
45 - 54 Years	1668	38%
55 - 64 Years	291	7%

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 ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA**

65 or Older	15	1%
TOTAL	4416	100 %

Source of Data (1.d.) Age Data): Defense Civilian Personnel Directory System - Data date: 1 Aug 1994, PHNSY Human Resources Office, J. Wataoka, Director, HRO

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	1	0%
9th through 11th Grade	74	2%
12th Grade or High School Equivalency	2480	56%
1-3 Years of College	812	18%
4 Years of College (Bachelors Degree)	929	21%
5 or More Years of College (Graduate Work)	120	3%
TOTAL	4416	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").

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Degree	Number of Civilian Employees
Terminal Occupation Program - Certificate of Completion, Diploma or Equivalent (for areas such as technicians, craftsmen, artisans, skilled operators, etc.)	148
Associate Degree	261
Bachelor Degree	906
Masters Degree	69
Doctorate	2

Source of Data (1.e.1) and 2) Education Level Data): Defense Civilian Personnel Directory System - Data date: 1 Aug 1994, PHNSY Human Resources Office, J. Wataoka, Director, HRO

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

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information is required at some future time. Leave shaded areas blank.

Industry	SIC Codes	No. of Civilians	% of Civilians
1. Agriculture, Forestry & Fishing	01-09	0	0
2. Construction (includes facility maintenance and repair)	15-17	69	1%
3. Manufacturing (includes Intermediate and Depot level maintenance)	20-39		
3a. Fabricated Metal Products (include ordnance, ammo, etc.)	34	0	0
3b. Aircraft (includes engines and missiles)	3721 et al	0	0
3c. Ships	3731	2749	62.3%
3d. Other Transportation (includes ground vehicles)	various	0	0
3e. Other Manufacturing not included in 3a. through 3d.	various	0	0
Sub-Total 3a. through 3e.	20-39	2749	62.3%
4. Transportation/Communications/Utilities	40-49		
4a. Railroad Transportation	40	0	0
4b. Motor Freight Transportation & Warehousing (includes supply services)	42	55	1%
4c. Water Transportation (includes organizational level maintenance)	44	0	0
4d. Air Transportation (includes organizational level maintenance)	45	0	0

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Industry	SIC Codes	No of Civilians	% of Civilians
4e. Other Transportation Services (includes organizational level maintenance)	47	0	0
4f. Communications	48	1	0
4g. Utilities	49	0	0
Sub-Total 4a. through 4g.	40-49	56	1%
5. Services	70-89		
5a. Lodging Services	70	0	0
5b. Personal Services (includes laundry and funeral services)	72	0	0
5c. Business Services (includes mail, security guards, pest control, photography, janitorial and ADP services)	73	333	7.5%
5d. Automotive Repair and Services	75	0	0
5e. Other Misc. Repair Services	76	0	0
5f. Motion Pictures	78	0	0
5g. Amusement and Recreation Services	79	0	0
5h. Health Services	80	0	0
5i. Legal Services	81	2	0
5j. Educational Services	82	0	0
5k. Social Services	83	0	0
5l. Museums	84	0	0
5m. Engineering, Accounting, Research & Related Services (includes RDT&E, ISE, etc.)	87	883	20.1%

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Industry	SIC Codes	No. of Civilians	% of Civilians
5n. Other Misc. Services	89	1	0
Sub-Total 5a. through 5n.:	70-89	1219	27.6%
6. Public Administration	91-97		
6a. Executive and General Government, Except Finance	91	257	6%
6b. Justice, Public Order & Safety (includes police, firefighting and emergency management)	92	0	0
6c. Public Finance	93	44	1%
6d. Environmental Quality and Housing Programs	95	12	0
Sub-Total 6a. through 6d.		323	7%
TOTAL		4416	100 %

Source of Data (1.f.) Classification By Industry Data):
 Defense Civilian Personnel Directory System - Data date: 1 Aug 1994, PHNSY Human Resources Office, J. Wataoka, Director, HRO; Business & Strategic Planning Office, M. Adessa, Program Manager

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

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

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	265	6%
2. Professional Specialty		
2a. Engineers	537	12%
2b. Architects and Surveyors	25	1%
2c. Computer, Mathematical & Operations Research	5	0
2d. Life Scientists	0	0
2e. Physical Scientists	49	1%
2f. Lawyers and Judges	2	0
2g. Social Scientists & Urban Planners	0	0
2h. Social & Recreation Workers	0	0
2i. Religious Workers	0	0
2j. Teachers, Librarians & Counselors	0	0
2k. Health Diagnosing Practitioners (Doctors)	0	0
2l. Health Assessment & Treating (Nurses, Therapists, Pharmacists, Nutritionists, etc.)	1	0
2m. Communications	1	0

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Occupation	Number of Civilian Employees	Percent of Civilian Employees
2n. Visual Arts	3	0
Sub-Total 2a. through 2n.:	621	14%
3. Technicians and Related Support		
3a. Health Technologists and Technicians	0	0
3b. Other Technologists	299	7%
Sub-Total 3a. and 3b.:	299	7%
4. Administrative Support & Clerical	300	7%
5. Services		
5a. Protective Services (includes guards, firefighters, police)	0	0
5b. Food Preparation & Service	0	0
5c. Dental/Medical Assistants/Aides	0	0
5d. Personal Service & Building & Grounds Services (includes janitorial, grounds maintenance, child care workers)	0	0
Sub-Total 5a. through 5d.	0	0
6. Agricultural, Forestry & Fishing	0	0
7. Mechanics, Installers and Repairers	771	17%
8. Construction Trades	1111	25%
9. Production Occupations	868	20%
10. Transportation & Material Moving	55	1%
11. Handlers, Equipment Cleaners, Helpers and Laborers (not included elsewhere)	124	3%

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 ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA**

Occupation	Number of Civilian Employees	Percent of Civilian Employees
TOTAL	4416	100 %

Source of Data (1.g.) Classification By Occupation Data):
 Defense Civilian Personnel Directory System - Data date: 1 Aug 1994, PHNSY Human Resources Office, J. Wataoka, Director, HRO

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

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

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ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

7. **Mechanics, Installers and Repairers.** Aircraft mechanics and engine specialists; automotive body repairers; automotive mechanics; diesel mechanics; electronic equipment repairers; elevator installers and repairers; farm equipment mechanics; general maintenance mechanics; heating, air conditioning and refrigeration technicians; home appliance and power tool repairers, industrial machinery repairers; line installers and cable splicers; millwrights; mobile heavy equipment mechanics; motorcycle, boat and small engine mechanics; musical instrument repairers and tuners; vending machine servicers and repairers.
8. **Construction Trades.** Bricklayers and stonemasons; carpenters; carpet installers; concrete masons and terrazzo workers; drywall workers and lathers; electricians; glaziers; highway maintenance; insulation workers; painters and paperhangers; plasterers; plumbers and pipefitters; roofers; sheet metal workers; structural and reinforcing ironworkers; tilesetters.
9. **Production Occupations.** Assemblers; food processing occupations; inspectors, testers and graders; metalworking and plastics-working occupations; plant and systems operators, printing occupations; textile, apparel and furnishings occupations; woodworking occupations; miscellaneous production operations.
10. **Transportation & Material Moving.** Busdrivers; material moving equipment operators; rail transportation occupations; truckdrivers; water transportation occupations.
11. **Handlers, Equipment Cleaners, Helpers and Laborers** (not included elsewhere). Entry level jobs not requiring significant training.

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ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

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

1. Percentage of Military Employees Who Are Married:	87%
2. Percentage of Military Spouses Who Work Outside of the Home:	24.4%
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:	27.5%
3b. Employed "On-Base" - Non-Appropriated Fund:	17.5%
3c. Employed "Off-Base" - Federal Employment:	27.5%
3d. Employed "Off-Base" - Other Than Federal Employment	27.5%

Source of Data (1.h.) Spouse Employment Data): Administrative Support Division (MILPERS), N. Woolery, Director; BTMC Block, Military members survey

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

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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.

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

Note: The "local community" is defined as the City and Country of Honolulu.

Category	20% Increase	50% Increase	100% Increase
Off-Base Housing	A	A	B
Schools - Public	A	A	B

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Category	20% Increase	50% Increase	100% Increase
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
Recreational Activities	A	A	A

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

2) For each rating of "C" identified in the table on the preceding page, attach a brief narrative explanation of the types

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and magnitude of improvements required and/or the nature of any barriers that preclude expansion.

Not applicable.

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

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.

Note: The "economic region" is the City and Country of Honolulu. This table is identical to Table 2.a.

Category	20% Increase	50% Increase e	100% Increase
Off-Base Housing	A	A	B
Schools - Public	A	A	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:			

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Category	20% Increase	50% Increase	100% Increase
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.

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

Not applicable.

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

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

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for sale), combine single family homes, condominiums, townhouses, mobile homes, etc., into a single rate:

Rental Units: 3.9% rental vacancy rate. Total Housing Units: 281,683.

Units for Sale: 2.8% sales rate. Single family dwellings and condominiums: 7,753.

Source of Data (3.a. Off-Base Housing): State of Hawaii Data Book, 1992, Tables 617, 619 & 628; PHNSY Business & Strategic Plans Office, M. Adessa, Program Manager

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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	Max. Capacity	Current	Max. Ratio	
Honolulu	Honolulu	72	36	25	55313	1/	2/	3/	Yes
Central	Honolulu	42	16	8	38266	1/	2/	3/	Yes
Leeward	Honolulu	40	10	8	34035	1/	2/	3/	Yes
Windward	Honolulu	38	16	8	22229	1/	2/	3/	Yes
(None Other)									

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

1/ Information not available according to Director of Facilities, Department of Education, State of Hawaii, Paul Kiyabu.

2/ & 3/ For public schools, the student to teacher ratios are: Grades K-2 20:1, Grades 3-12 26:1. For private schools, the teacher ratios are K-12 20:1. Source of info: DOE, Communications Dept., Gail Murayama.

Source of Data (3.b.1) Education Table): 1993/1994 Directory, Office of the Superintendent, Dept of Education, State of Hawaii; Public & Private School Enrollments 92-93 (supplement issue 93-94 enrollments), Office of Information and Telecommunications Services, Dept of Education State of Hawaii; PHNSY Business & Strategic Planning Office, M. Adessa, Program Manager

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

There are no on-base "Section 6" Schools in the City & County of Honolulu.

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Source of Data (3.b.2) On-Base Schools): Definition of "Section 6" Schools, 20 U.S. Code, Section 241; PHNSY Business & Strategic Planning Office, M. Adessa, Program Manager

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 :

Graduate Schools:

Brigham Young University - Hawaii
Chaminade University
Hawaii Pacific University
University of Hawaii - Manoa

Undergraduate Schools:

Brigham Young University - Hawaii
Chaminade University
Hawaii Pacific University
University of Hawaii - Manoa
Hawaii Loa College
Kapiolani Community College
Leeward Community College
Windward Community College
Honolulu Community College

Source of Data (3.b.3) Colleges): 1993/1994 Directory, Office of the Superintendent, Dept of Education, State of Hawaii; PHNSY Business & Strategic Planning Office, M. Adessa, Program Manager

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:

Vocational/Technical Training Schools

Major Curriculum

New York Technical Institute of Hawaii
Hawaii Business College
Denver Business College
Intercultural Communications Institute
Ross College of Court Reporting
Electronics Institute
H & R Block Tax Tuition School

Automotive/Mechanical
Business/Commercial
Business/Commercial
Business/Commercial
Business/Commercial
Electronics
Income Tax Preparation

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Med-Assist School of Hawaii	Medical
Continental Security School	Security
Travel Institute of the Pacific	Travel/Tourism
Travel University International	Travel/Tourism
Travel's Choice School of Travel	Travel/Tourism
Windward Travel Institute	Travel
Fashion Center	Dressmaking/Tailoring/Designing
Style Center School of Fashion Design	Dressmaking/Tailoring/Designing
Hawaii Institute of Hair Design	Barbering
Aisen Shiatsu School, Inc	Massage
All Hawaiian School of Massage	Massage
Honolulu School of Massage	Massage
Oriental Medical Institute of Hawaii	Acupuncture
Tai Hsuan Foundation: College of Acupuncture & Herbal Medicine	Acupuncture

Source of Data (3.b.4) Vo-tech Training): 1993/1994
 Directory, Office of the Superintendent, Dept of Education,
 State of Hawaii; PHNSY Business & Strategic Planning Office,
 M. Adessa, Program Manager

c. Transportation.

1) Is the activity served by public transportation?

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

Source of Data (3.c.1) Transportation): State of Hawaii Data
 Book 1992, Table 527; PHNSY Business & Strategic Planning
 Office, M. Adessa, Program Manager

2) Identify the location of the nearest passenger railroad station (long distance rail service, not commuter service

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within a city) and the distance from the activity to the station.

The City & County of Honolulu does not have a passenger railroad station.

Source of Data (3.c.2) Transportation): State of Hawaii Data Book, 1992, Table 530; PHNSY Business & Strategic Planning Office, M. Adessa, Program Manager

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 is the closest commercial airport located two (2) miles east of Pearl Harbor Naval Shipyard.

Source of Data (3.c.3) Transportation): City & County of Honolulu, Facts and Figures, 1994; Land Map of Oahu; PHNSY Business & Strategic Planning Office, M. Adessa, Program Manager

4) How many carriers are available at this airport?

There are 45 regularly scheduled or chartered (including passenger/cargo/international/domestic) carriers.

Source of Data (3.c.4) Transportation): State of Hawaii Data Book 1992, Table 535; PHNSY Business & Strategic Planning Office, M. Adessa, Program Manager

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

The nearest Interstate highway is H-1 and is .5 miles east of this activity.

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Source of Data (3.c.5) Transportation): Land Map of Oahu;
PHNSY Business & Strategic Planning Office, M. Adessa, Program
Manager

6) Access to Base:

a) Describe the quality and capacity of the road systems providing access to the base, specifically during peak periods. (Include both information on the area surrounding the base and information on access to the base, e.g., numbers of gates, congestion problems, etc.)

The road system that provides access to Pearl Harbor Naval Shipyard is modern and well-maintained. During peak hours, the road system to the west of Pearl Harbor is at capacity with bumper to bumper traffic. The road system to the north and east is less congested.

b) Do access roads transit residential neighborhoods?

Yes. The road system that provides access to Pearl Harbor Naval Shipyard from the east and west is located in a narrow corridor between the mountains and the ocean where the majority of the islands' population resides. The road system to the north traverses some residential area, then runs through mountain and conservation land before reaching the major residential areas to the north.

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

There are numerous utilities and access easements along the road system that provides access to the shipyard. It is unlikely that these easements would preclude expansion of the road system because they do not involve major utilities or major access right of ways.

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

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

Source of Data (3.c.6) Transportation): State of Hawaii Dept of Transportation, and PACNAVFACENGCOM Real Estate Division; PHNSY Business & Strategic Planning Office, M. Adessa, Program Manager

- 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.

There are no written agreements between the Shipyard and the local Community for fire protection or hazardous incidents. The Federal Fire Department provides fire and hazardous incident response. The Federal Fire Department has a mutual aid agreement with the City and County of Honolulu Fire Department. Hazardous incident response is also provided by the Public Works Center and other commands through the Naval Base organization.

Source of Data (3.d. Fire/Hazmat): NAVSHIPYDPEARLINST 5090.4B; PHNSY Occupational, Safety, Health and Environment Office, T. O'Callaghan, Division Head, Health Division

e. Police Protection.

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

Pearl Harbor Naval Shipyard holds no legislative jurisdiction over the installation. Naval Station Pearl Harbor and the City and County of Honolulu have concurrent jurisdiction. Base Police services are provided by Naval Station, Pearl Harbor.

- 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 to this activity.

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

Not applicable to this activity.

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 to this activity.

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 to this activity.

Source of Data (3.e. 1) - 5) - Police): OPNAVINST 5580.1; PHNSY Security Office, R. Mack, Director of Security
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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

Pearl Harbor Naval Shipyard purchases all utility services from or through the Navy Public Works Center (PWC). PWC pumps water from Navy wells with backup interconnections with the local Board of Water Supply. PWC treats sewage at the Navy Wastewater Treatment Plant at Ft. Kam. PWC purchases electricity from the Hawaiian Electric Company. PWC produces all other utilities including compressed air, steam, boiler feedwater and salt water.

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

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and the restrictions imposed. Were activity operations affected by these situations? If so, explain extent of impact.

Water has never been interrupted or rationed in the last five years. Previous water conservation efforts have been voluntary and not mandatory.

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.

The Shipyard has not experienced significant utility disruptions except for electricity. Major outages occurred during an island wide power outage in April 1992 and during Hurricane Iniki in September 1992. Frequent power outages occurred five years ago due to the condition of the electrical distribution infrastructure. Significant infrastructure improvements since then decreased the number and duration of power outages to a nominal level.

Source of Data (3.f. 1) - 3) Utilities): Pearl Harbor Naval Public Works Center, Utilities Management Division (Code 610); PHNSY Facilities Maintenance Div., Buell Davis, Head, Maintenance Mgmt. Branch

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

Employer	Product/Service	No. of Employees
1. Hawaii State Government	State Government	49,750
2. Federal Government	Defense and Non-Defense	30,100

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Employer	Product/Service	No. of Employees
3. City & County of Honolulu	City & 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): State of Hawaii Data Book, 1993, Table 355, Employers

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

a. Loss of Major Employers:

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

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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 signs 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 Waikele 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 & County of Honolulu), Honolulu County can expect a few new retail outlets.

c. Natural Disasters:

Since the flash flooding on the North Shore of Oahu due to Hurricane Iniki, there have been three more weather related incidents that have had a negative impact on the City & County of Honolulu. According to the Oahu Civil Defense Agency, 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

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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 feet of hotel, office, condominium and maritime uses space.

(c) The Kapolei area, which accounts for 8% of the land on the island, is planned 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 Waiialua 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.

<p>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.)</p>
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6. Other. Identify any contributions of your activity to the local community not discussed elsewhere in this response.

None.

Pearl Harbor Naval Shipyard
Activity UIC: N00311

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Source of Data (6. Other): PHNSY Business & Strategic
Planning Office, M. Adessa, Program Manager

Data Being Certified: BRAC 95 Data Call Number 65, Pearl Harbor Naval Shipyard

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

NEXT ECHELON LEVEL (if applicable)

William H. Ryzewic

NAME (Please type or print)

W. H. Ryzewic
Signature

Executive Director for Naval Shipyard
and SUPSHIP Management and Field
Activity Support Directorate

Title Date

8/3/94

Naval Sea Systems Command

Activity

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

MAJOR CLAIMANT LEVEL

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

G. R. Steiner
Signature

Title Date

8-5-94

Activity

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

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

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

J. B. Greene, Jr.
Signature

ACTING
Title Date

17 AUG 1994

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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

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

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

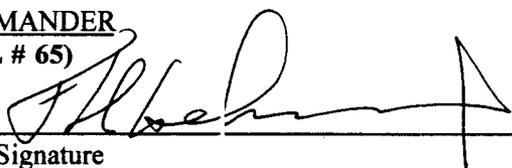
I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER
(DATA CALL # 65)

FRED H. GEHRMAN, JR.
NAME (Please type or print)

CAPT., USN
Title

PEARL HARBOR NAVAL SHIPYARD
Activity


Signature
8/1/94
Date

**DATA CALL 66
 INSTALLATION RESOURCES**

Activity Information:

Activity Name:	Pearl Harbor Naval Shipyard
UIC:	N00311
Host Activity Name (if response is for a tenant activity):	Not Applicable
Host Activity UIC:	Not Applicable

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

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

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

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 INSTALLATION RESOURCES**

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

Table 1A - Base Operating Support Costs (Other Than DEOF Overhead)

Activity Name: Pearl Harbor Naval Shipyard		UIC: N00311		
Category	FY 1996 BOS Costs (\$000)			
	Non-Labor	Labor	Total	
1. Real Property Maintenance Costs:				
1a. Maintenance and Repair	296	0	296	
1b. Minor Construction	0	0	0	
1c. Sub-total 1a. and 1b.	296	0	296	
2. Other Base Operating Support Costs:				
2a. Utilities	321	0	321	
2b. Transportation	0	0	0	
2c. Environmental	0	0	0	
2d. Facility Leases	0	0	0	
2e. Morale, Welfare & Recreation	0	0	0	
2f. Bachelor Quarters	0	0	0	
2g. Child Care Centers	0	0	0	
2h. Family Service Centers	0	0	0	
2i. Administration	4	92	96	
2j. Other (Specify) Sub-total	204	538	742	
2.j.1. Base Operating Support	64	458	522	
2.j.2. Other Engineering Support	65	0	65	

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 INSTALLATION RESOURCES**

2.j.3. Other Personnel Support	11	80	91
2.j.4. Physical Security	64	0	64
2k. Sub-total 2a. through 2j:	529	630	1159
3. Grand Total (sum of 1c. and 2k.):	825	630	1455

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: N/A

Appropriation Amount (\$000)

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

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

**DATA CALL 66
INSTALLATION RESOURCES**

Table 1B - Base Operating Support Costs (DBOF Overhead)			
Activity Name: Pearl Harbor Naval Shipyard			UIC: N00311
Category	FY 1996 Net Cost From UC/FUND-4 (\$000)		
	Non-Labor	Labor	Total
1. Real Property Maintenance Costs:			
1a. Real Property Maintenance (> \$15K)	7,405		7,405
1b. Real Property Maintenance (< \$15K)	5,076	1,335	6,411
1c. Minor Construction (Expensed)	250	70	320
1d. Minor Construction (Capital Budget)	750		750
1c. Sub-total 1a. through 1d.	13,481	1,405	14,886
2. Other Base Operating Support Costs:			
2a. Command Office	15	41	56
2b. ADP Support	5,341	3,032	8,373
2c. Equipment Maintenance	1,690	3,417	5,107
2d. Civilian Personnel Services	1,031	4,068	5,099
2e. Accounting/Finance	35	1,909	1,944
2f. Utilities	7,883		7,883
2g. Environmental Compliance	121	471	592
2h. Police and Fire	1,556	6	1,562
2i. Safety	219	1,225	1,444
2j. Supply and Storage Operations	387	5,724	6,111
2k. Major Range Test Facility Base Costs			
2l. Other (Specify) - Sub-total	15,947	30,200	46,147
2.l.1. Military Labor		473	473

**DATA CALL 66
INSTALLATION RESOURCES**

2.1.2. Administration/Executive Support	307	2,027	2,334
2.1.3. Facility/Engineer Support	3,838	5,591	9,429
2.1.4. Base Communications	1,456	42	1,498
2.1.5. FECA	587		587
2.1.6 Security	201	1,403	1,604
2.1.7. Transportation	2,426		2,426
2.1.8. Hazardous Waste	654	955	1,609
2.1.9. Crane Division	496	4,549	5,045
2.1.10. Business and Strategic Planning	44	1,377	1,421
2.1.11. Others	5,938	13,783	19,721
2m. Sub-total 2a. through 2l.:	34,225	50,093	84,318
3. Depreciation	1,688		1,688
4. Grand Total (sum of 1c., 2m., and 3.):	49,394	51,498	100,892

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.

**DATA CALL 66
 INSTALLATION RESOURCES**

Table 2 - Services/Supplies Cost Data	
Activity Name: Pearl Harbor Naval Shipyard	UIC: N00311
Cost Category	FY 1996 Projected Costs (\$000)
Travel: <u>1/</u>	2,615
Material and Supplies (including equipment): <u>2/</u>	35,418
Industrial Fund Purchases (other DBOF purchases): <u>3/</u>	21,881
Transportation: <u>4/</u>	4,825
Other Purchases (Contract support, etc.): <u>5/</u>	40,745
Total:	105,484

1/ Plane Fare; per diem; car rental.

2/ Fuel; consumables; equipment (including ADP).

3/ Data automation support (i.e. SEAADSA, MIS, CAD/CAM, Network Operations, Communication Center, Workload Forecasting, Printing of ADP report); DPPSO Printing & requisition; DFAS Accounting; PWC Purchases (i.e. Utilities, refuse collection, real property maintenance & repair, engineering services, janitorial services, alterations)

4/ Transportation of household items; transportation costs for equipment & postage; vehicle, forklift, material handling; equipment from PWC Pearl Harbor.

5/ Purchases from private or other government agencies (i.e. Rental of eqpt, ADP eqpt, pager; Real property maintenance-PACDIV; Consulting svcs - AIM/EAIM, Honeywell support; Equipment maintenance; Training; FICA; Alterations-PACDIV; Headquarters management - NAVOTF; Police svcs; Centrally Funded program - Crane center, PESO, MSSD, Shyd Trng)

**DATA CALL 66
 INSTALLATION RESOURCES**

3. Contractor Workyears.

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

Table 3 - Contract Workyears	
Activity Name: Pearl Harbor Naval Shipyard	UIC: N00311
Contract Type	FY 1996 Estimated Number of Workyears On-Base
Construction: <u>1/</u>	43
Facilities Support: <u>2/</u>	68.4
Mission Support: <u>3/</u>	43.1
Procurement:	0
Other:*	none
Total Workyears:	154.5

1/ Private contractor doing construction, repairs, and alterations - 38.8

Private contractor doing A&E design work - 4.2

2/ Private contractor doing facilities maintenance (i.e. custodial, tree trimming, refuse disposal, grounds maintenance, elevator maintenance, landfill) - 68.4

3/ Office equipment maintenance - 4.1

Training - 2

ADP Support Services - 37

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

Pearl Harbor Naval Shipyard
Activity UIC: N00311

**DATA CALL 66
INSTALLATION RESOURCES**

**DATA CALL 66
INSTALLATION RESOURCES**

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)):

Since there are no other existing equivalent shipyard facilities in Hawaii, the shipyard could not be relocated within the state. The nearest relocation site is the West Coast of the U.S. mainland. If this were to happen, probably none of the on-base contract workyears would be transferred to the relocated site. Local contractors there would probably be used to provide those on-base services.

2) Estimated number of workyears which would be eliminated:

All on-base contract workyears (154.4 workyears) would probably be eliminated if the shipyard is relocated. As mentioned above, those on-base services can be provided by local contractors there.

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):

If the facilities are fully reutilized after relocation, construction and facilities support on-base contract workyears might remain in place. That would be a total of 111.4 workyears. If only administrative office space is reutilized and not the drydocks, piers and industrial shops, construction and facilities support workyears would be significantly less.

If Pearl Harbor Naval Shipyard were to be closed and excessed, 0 contractor workyears would remain in place. Allowances for caretaker and environmental restoration cost to the Navy pending conveyance to subsequent land owners are not included.

**DATA CALL 66
 INSTALLATION RESOURCES**

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

No. of Additional Contract Workyears Which Would Be Eliminated	General Type of Work Performed on Contract (e.g., engineering support, technical services, etc.)
0.32	0.32 of off-base training contract workyears would be eliminated locally if the shipyard is relocated out of state.

No. of Additional Contract Workyears Which Would Be Relocated	General Type of Work Performed on Contract (e.g., engineering support, technical services, etc.)
0	Local contractors operating within the area of the relocation would provide those off-base services. Based on cost local contractors here would not likely be providing those same services after relocation.

Data Being Certified: BRAC 95 Data Call Number 66, Pearl Harbor Nava. Shipyard

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

NEXT ECHELON LEVEL (if applicable)

William H. Ryzewic

NAME (Please type or print)

W. H. Ryzewic
Signature

Executive Director for Naval Shipyard
and SUPSHIP Management and Field
Activity Support Directorate

Title Date

8/4/94

Naval Sea Systems Command

Activity

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

MAJOR CLAIMANT LEVEL

G. R. STERNER

NAME (Please type or print)

G. R. Sterner
Signature

Title Date

8-15-94

Naval Sea Systems Command

Activity

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

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

W. A. EARNER

NAME (Please type or print)

W. A. Earner
Signature

Title Date

9/26/94

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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

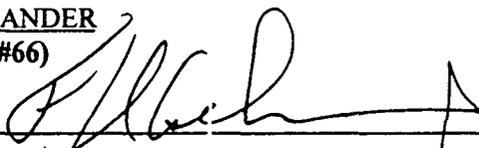
The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate

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

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

ACTIVITY COMMANDER
(DATA CALL #66)

FRED H. GEHRMAN, JR.
NAME (Please type or print)


Signature

CAPT., USN
Title

8/2/84
Date

PEARL HARBOR NAVAL SHIPYARD
Activity

Certified True Original Copy


Roger R. Coleman, NAVSEA, 07I2

24 June 1994

0116

DATA CALL WORK SHEET FOR MILITARY VALUE:
NAVAL SHIPYARDS
and
NAVAL SHIP REPAIR FACILITY

Category	.....	Industrial Activities
Type	.....	NAVAL SHIPYARDS
	.....	NAVAL SHIP REPAIR FACILITY
Claimant	.....	COMNAVSEASYSKOM (Naval Shipyards)
	.....	CINCPACFLT (Naval Ship Repair Facility)

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. "Production" equates to the number of items processed per Fiscal Year (FY), unless otherwise specified.
3. Unless otherwise specified, base your responses single shift operations of an eight hour day/five day notional normal work week (1-8-5). Report Direct Labor Man Years (DLMYs) in thousands of Man Years, to the nearest tenth, e.g. 32.2 K DLMYs.
4. Report workload performed on non-DON vessels (e.g. USCG, MSC) within the workload mission area most consistent with the work performed. Ensure that all workload performed/projected to be performed is reported.

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.

**DATA CALL for MILITARY VALUE
Naval Shipyards and Ship Repair Facility**

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Table of Acronyms

\$	Dollars
%	Percent
#	Number
ACT	American College Test
AOB	Average on Board
APPN	Appropriation
ARC	Alcohol Rehabilitation Center
Avlb	Availability
BAQ	Basic Allowance for Quarters
BEQ	Bachelor Enlisted Quarters
BOQ	Bachelor Officers Quarters
BQ	Bachelor Quarters
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
HQ	Headquarters
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
NM	Nautical Miles
NSYD	Naval Shipyard
OMN	Operations and Maintenance, Navy
POM	Program Objectives Memorandum
PN	Number of personnel accommodated
Qtr	Quarter
SAT	Scholastic Aptitude Test
SCN	Ship Construction, Navy
SF	Square Feet
SRF	Ship Repair Facility
UIC	Unit Identification Code
VHA	Variable Housing Allowance
W/O	Without
WY	Work Years
YR	Year

Table of Availability Types

Nuclear	
CVN Complex Overhaul	COH
CVN Refueling Complex Overhaul	RCOH
CVN Docking Selected Restricted Availability	DSRA
CVN Extended Docking Selected Restricted Availability	EDSR
CVN Docking Phased Incremental Availability	DPIA
CVN Selected Restricted Availability	SRA
CVN Extended Selected Restricted Availability	ESRA
CVN Phased Incremental Availability	PIA
SSBN Inactivation	INACT
SSBN Extended Refit Period	ERP
SSBN Regular Overhaul / Refueling Overhaul	ROH/RFOH
SSBN Engineered Overhaul / Engineered Refueling Overhaul	EOH/ERO
SSN Inactivations	INACT
SSN Regular Overhaul / Refueling Overhaul	ROH / RFOH
SSN Engineered Overhaul / Engineered Refueling Overhaul	EOH / ERO
SSN Docking Selected Restricted Availability	DSRA
SSN Depot Modernization Period	DMP
CGN Inactivations	INACT
CGN Complex Overhaul / Refueling Complex Overhaul	COH/RCOH
CGN Docking and Non-Docking Selected Restricted Availability	DSRA/SRA
 NonNuclear	
Regular Overhaul	ROH
Complex Overhaul	COH
Docking Phased Maintenance Availability	DPMA
Phased Maintenance Availability	PMA
Docking Selected Restricted Availability	DSRA
Selected Restricted Availability	SRA
Service Craft Overhaul	SCO
Inactivations	INACT
 Other Productive Work	
Other Productive Work	OPW
Restricted Availability/Technical Availability	RA/TA

Table of Ship Types

CVN 68	AD 41	LCC 19	MCM 1 / MCS-
CV 62	AOE 1	LCC 20	12 / MHC 51
CGN 38	AOE 6	LHA 1	AFB / AFDL /
CG 47	ARS 50	LHD 1	AFDM / ARDM
SSBN 726	AS 36/39	LPD 4	NR-1
SSN 688		LPH 2	AGF 3 / AGF 11
SSN 21		LSD 36	
DD 963		LSD 41	
DDG 51			
DDG 993			
FFG 7			

**Data Call for Military Value:
 Naval Shipyards and Naval Ship Repair Facilities**

Questions for the Activities

Primary Activity UIC: N00311

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

Mission Area

1. Production Workload

1.1 Workload Breakout by Availability. Using the Table of Availability Types, identify the work package and number of availabilities (Avlb) for the types/classes of ships which have been or will be maintained, modernized, or converted at your activity. Include all CNO and non-CNO scheduled shipwork, off-site work, and Other Production Work (OPW). Account for availabilities whose durations exceed one fiscal year by including them in all fiscal years with scheduled work from that availability. Do not include potential guarantee work in your submission.

Example: NSYD Sample executed:

- two 12month duration SSN 688 class DMPs, beginning in September 1990 and in August 1991 respectively;
- two SSN 688 class DSRAs (each of 2 month duration) beginning in December 1991 and March 1992 respectively;
- an SSN 688 class ERO of 22 month duration, beginning in June 1993; and
- two AOE1 class DPMA's, each of 6 month duration, begun in September 1990 and January 1991 respectively.

This workload would be represented as:

Class of Vessel	FY 1990		FY 1991		FY 1992		FY 1993	
	Avlb (#)							
SSN 688	DMP (1)		DMP (2)		DMP (1)	SRA (2)	ERO (1)	
AOE 1	DPMA (1)		DPMA (2)					

1. **Production Workload, continued**

Table 1.1.a: **Workload Breakout by Type of Availability**

Class of Vessel	FY 1990				FY 1991			
	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)
SSBN 726								
SSN 688	RO (2)	DMP (2)			RO (2)	DMP (2)		
SSN 21								
CVN 68								
CV 62								
AD 41								
AOE 1								
AOE 6								
ARS 50								
AS 36/39								
LCC 19								
LCC 20								
LPD 4								
LPH 2								
LSD 36								
LSD 41								
SSN 594					IA (1)			
SSN 637					IA (1)			

1. Production Workload, continued

Table 1.1.b: Workload Breakout by Type of Availability

Class of Vessel	FY 1990				FY 1991			
	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)
MCM1/MCS12/ MHC51								
AFDB/AFDL/ AFDM/ARDM					SCO (1)			
NR-1								
AGF3/AGF11	DSRA (1)							
CG 47					PSA (1)			
DD 963	DSRA (1)				DSRA (1)	SRA (1)		
DDG 51								
DDG 993								
FFG 7								
LHA 1								
LHD 1								
CGN 38								
DDG16	DPMA (2)							
FF1052	DSRA (2)				DSRA (1)			
CG16	RO (1)				RO (1)			

1. **Production Workload, continued**

Table 1.1.c: **Workload Breakout by Type of Availability**

Class of Vessel	FY 1992				FY 1993			
	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)
SSBN 726								
SSN 688	RO (1)	DMP (3)	SRA (1)		DMP (3)	SRA (2)		
SSBN 616					IA (1)			
SSN 594	IA (2)				IA (1)			
SSN 637	IA (1)	SRA (2)			SRA (2)			
SSN 21								
CVN 68								
CV 62								
AD 41								
AOE 1								
AOE 6								
ARS 50								
AS 36/39								
LCC 19								
LCC 20								
LPD 4								
LPH 2								
LSD 36								
LSD 41								

1. Production Workload, continued

Table 1.1.d: Workload Breakout by Type of Availability

Class of Vessel	FY 1992				FY 1993			
	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)
MCM1/MCS12/ MHC51								
AFDB/AFDL/ AFDM/ARDM								
NR-1								
AGF3/AGF11								
CG 47					SRA (1)			
DD 963	DSRA (1)	SRA (1)			RO (2)			
DDG 51								
DDG 993								
FFG 7	DSRA (1)	SRA (1)			DSRA (1)			
LHA 1								
LHD 1								
CGN 38								
CG 16	PMA (1)	RO (1)						

1. Production Workload, continued

Table 1.1.e: Workload Breakout by Type of Availability

Class of Vessel	FY 1994				FY 1995			
	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)
SSBN 726								
SSN 688	DMP (2)	SRA (2)			DMP (1)	SRA (3)		
SSN 21								
SSN 637	IA (2)	SRA (2)			IA (2)	SRA (3)		
CVN 68								
CV 62								
AD 41								
AOE 1								
AOE 6								
ARS 50								
AS 36/39								
LCC 19								
LCC 20								
LPD 4								
LPH 2								
LSD 36								
LSD 41								

1. Production Workload, continued

Table 1.1.f: Workload Breakout by Type of Availability

Class of Vessel	FY 1994				FY 1995			
	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)
MCM1/MCS12/ MHC51								
AFDB/AFDL/ AFDM/ARDM								
NR-1								
AGF3/AGF11								
CG 47	PSA (1)				PSA (1)	SRA (1)	DSRA (1)	
DD 963	RO (4)				RO (3)			
DDG 51					PSA (2)			
DDG 993								
FFG 7					DSRA (1)			
LHA 1								
LHD 1								
CGN 38								

1. **Production Workload, continued**

Table 1.1.g: **Workload Breakout by Type of Availability**

Class of Vessel	FY 1996				FY 1997			
	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Av b/(#)	Avlb/(#)	Avlb/(#)
SSBN 726								
SSN 688	DMP (1)	SRA (5)			SRA (7)	IA (1)		
SSN 21								
SSN 637	IA (2)	SRA (4)			IA (2)	SRA (1)		
CVN 68								
CV 62								
AD 41								
AOE 1								
AOE 6								
ARS 50								
AS 36/39								
LCC 19								
LCC 20								
LPD 4								
LPH 2								
LSD 36								
LSD 41								

1. **Production Workload, continued**

Table 1.1.h: **Workload Breakout by Type of Availability**

Class of Vessel	FY 1996				FY 1997			
	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)
MCM1/MCS12/ MHC51								
AFDB/AFDL/ AFDM/ARDM	SCO (1)				SCO (1)			
NR-1								
AGF3/AGF11								
CG 47	SRA (1)				SRA (1)	DSRA (1)		
DD 963	SRA (2)				SRA (2)	DSRA (1)		
DDG 51	PSA (1)				SRA (2)			
DDG 993								
FFG 7								
LHA 1								
LHD 1								
CGN 38								

1. **Production Workload, continued**

Table 1.1.i: **Workload Breakout by Type of Availability**

Class of Vessel	FY 1998				FY 1999			
	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)
SSBN 726								
SSN 688	DMP (2)	SRA (6)	IA (1)		DMP (2)	SRA (6)	IA(1)	
SSN 637	IA (1)	SRA (1)			IA (1)			
SSN 21								
CVN 68								
CV 62								
AD 41								
AOE 1								
AOE 6								
ARS 50								
AS 36/39								
LCC 19								
LCC 20								
LPD 4								
LPH 2								
LSD 36								
LSD 41								

1. Production Workload, continued

Table 1.1.j: Workload Breakout by Type of Availability

Class of Vessel	FY 1998				FY 1999			
	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)
MCM1/MCS12/ MHC51								
AFDB/AFDL/ AFDM/ARDM								
NR-1								
AGF3/AGF11								
CG 47	DSRA (1)				RO (1)	SRA (1)		
DD 963	DSRA (2)				DSRA (2)	SRA (2)		
DDG 51	DSRA (1)				DSRA (1)			
DDG 993								
FFG 7	DSRA (1)							
LHA 1								
LHD 1								
CGN 38								

1. **Production Workload, continued**

Table 1.1.k: **Workload Breakout by Type of Availability**

Class of Vessel	FY 2000				FY 2001			
	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)
SSBN 726								
SSN 688	DMP (1)	SRA (4)	IA(1)		DMP (2)	SRA (6)	IA(1)	
SSN 21								
CVN 68								
CV 62								
AD 41								
AOE 1								
AOE 6								
ARS 50								
AS 36/39								
LCC 19								
LCC 20								
LPD 4								
LPH 2								
LSD 36								
LSD 41								

1. Production Workload, continued

Table 1.1.1: Workload Breakout by Type of Availability

Class of Vessel	FY 2000				FY 2001			
	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)	Avlb/(#)
MCM1/MCS12/ MHC51								
AFDB/AFDL/ AFDM/ARDM	SCO (1)				SCO (1)			
NR-1								
AGF3/AGF11								
CG 47	RO (1)	SRA (1)			RO (2)	SRA (1)		
DD 963	SRA (2)				RO (2)	SRA (1)		
DDG 51	SRA (1)				SRA (1)			
DDG 993								
FFG 7	DSRA (1)							
LHA 1								
LHD 1								
CGN 38								

R

1. **Production Workload, continued**

1.2 DLMY Workload. Identify the K Direct Labor Man Years (DLMYs) expended or projected to be expended in performance of the listed work packages for the period requested.

Table 1.2.a: **Historic/Projected Work Package Performance**

EVENT	FY 1990	FY 1991	FY 1992	FY 1993
CVN COH				
CVN RCOH				
CVN DSRA				
CVN EDSR				
CVN DPIA				
CVN SRA				
CVN ESRA				
CVN PIA				
SSBN INACT				
SSBN ERP				
SSBN ROH/RFOH				
SSBN EOH/ERO				
SSN INACT	.064	.213	.298	.245
SSN ROH/RFOH	.850	.342	.060	0
SSN EOH/ERO				
SSN DSRA	0	.001	.274	.278
SSN DMP	.543	.631	.912	.878
CGN INACT				
CGN COH/RCOH				
CGN DSRA/SRA				
Table 1.2.a Total	1.457	1.187	1.544	1.401

R

R

NOTE: All results in 1000 DLMY's.

1. Production Workload, continued

1.2 DLMY Workload. Identify the K Direct Labor Man Years (DLMYs) expended or projected to be expended in performance of the listed work packages for the period requested.

Table 1.2.a: Historic/Projected Work Package Performance

EVENT	FY 1990	FY 1991	FY 1992	FY 1993
CVN COH				
CVN RCOH				
CVN DSRA				
CVN EDSR				
CVN DPIA				
CVN SRA				
CVN ESRA				
CVN PIA				
SSBN INACT				
SSBN ERP				
SSBN ROH/RFOH				
SSBN EOH/ERO				
SSN INACT	.064	.213	.298	.245
SSN ROH/RFOH	.850	.342	.060	0
SSN EOH/ERO				
SSN DSRA	0	.001	.274	.278
SSN DMP	.543	.631	.830	.868
CGN INACT				
CGN COH/RCOH				
CGN DSRA/SRA				
Table 1.2.a Total	1.457	1.187	1.462	1.391

NOTE: All results in 1000 DLMY's.

R

1. Production Workload, continued

Table 1.2.b: Historic/Projected Work Package Performance

EVENT		FY 1990	FY 1991	FY 1992	FY 1993
Non Nuclear ROH		.084	.486	.129	.355
Non Nuclear COH					
Non Nuclear DPMA		.054	0	0	0
Non Nuclear PMA		0	.014	.091	0
Non Nuclear DSRA		.309	.070	.262	.122
Non Nuclear SRA		0	.059	.124	.031
Non Nuclear SCO		.004	.234	0	0
Other INACTs					
OPW:	Nuclear	0	0	0	0
	NonNuclear	.355	.237	.200	.211
RATA:	Nuclear	.057	.006	.017	.020
	NonNuclear	.149	.162	.154	.126
Table 1.2.b Total		1.012	1.268	0.977	0.865
Table 1.2.a Total		1.457	1.187	1.544	1.401
Annual Total		2.469	2.455	2.521	2.266

NOTE: All results in 1000 DLMY's.
All OPW shown in Non Nuclear category - Nuclear data not available

R
R

1. **Production Workload, continued**

Table 1.2.b: **Historic/Projected Work Package Performance**

EVENT		FY 1990	FY 1991	FY 1992	FY 1993
Non Nuclear ROH		.084	.486	.129	.355
Non Nuclear COH					
Non Nuclear DPMA		.054	0	0	0
Non Nuclear PMA		0	.014	.091	0
Non Nuclear DSRA		.309	.070	.262	.122
Non Nuclear SRA		0	.059	.124	.031
Non Nuclear SCO		.004	.234	0	0
Other INACTs					
OPW:	Nuclear	0	0	0	0
	NonNuclear	.355	.237	.200	.211
RATA:	Nuclear	.057	.006	.017	.020
	NonNuclear	.149	.162	.154	.126
Table 1.2.b Total		1.012	1.268	0.977	0.865
Table 1.2.a Total		1.457	1.187	1.462	1.391
Annual Total		2.469	2.455	2.439	2.256

NOTE: All results in 1000 DLMY's.

All OPW shown in Non Nuclear category - Nuclear data not available

R

1. Production Workload, continued

Table 1.2.c: Historic/Projected Work Package Performance

EVENT	FY 1994	FY 1995	FY 1996	FY 1997
CVN COH				
CVN RCOH				
CVN DSRA				
CVN EDSR				
CVN DPIA				
CVN SRA				
CVN ESRA				
CVN PIA				
SSBN INACT				
SSBN ERP				
SSBN ROH/RFOH				
SSBN EOH/ERO				
R SSN INACT	.178	.263	.264	.319
SSN ROH/RFOH				
SSN EOH/ERO				
SSN DSRA	.255	.509	.540	.639
SSN DMP	.324	.213	.360	.054
CGN INACT				
CGN COH/RCOH				
CGN DSRA/SRA				
R Table 1.2.c Total	0.757	0.985	1.164	1.012

NOTE: All results in 1000 DLMY's.

1. **Production Workload, continued**

Table 1.2.c: **Historic/Projected Work Package Performance**

EVENT	FY 1994	FY 1995	FY 1996	FY 1997
CVN COH				
CVN RCOH				
CVN DSRA				
CVN EDSR				
CVN DPIA				
CVN SRA				
CVN ESRA				
CVN PIA				
SSBN INACT				
SSBN ERP				
SSBN ROH/RFOH				
SSBN EOH/ERO				
SSN INACT	.178	.289	.379	.136
SSN ROH/RFOH				
SSN EOH/ERO				
SSN DSRA	.255	.509	.540	.639
SSN DMP	.324	.213	.360	.054
CGN INACT				
CGN COH/RCOH				
CGN DSRA/SRA				
Table 1.2.c Total	0.757	1.011	1.279	0.829

NOTE: All results in 1000 DLMY's.

R

1. Production Workload, continued

Table 1.2.d: Historic/Projected Work Package Performance

EVENT		FY 19904	FY 19915	FY 19926	FY 19937
Non Nuclear ROH		.691	.613	0	0
Non Nuclear COH					
Non Nuclear DPMA					
Non Nuclear PMA					
Non Nuclear DSRA		0	.139	.003	.148
Non Nuclear SRA		.096	.245	.224	.274
Non Nuclear SCO		0	0	.059	.084
Other INACTs					
OPW:	Nuclear	.034	.032	.032	.032
	NonNuclear	.135	.130	.131	.131
RATA:	Nuclear	.010	.007	.048	.048
	NonNuclear	.060	.065	.065	.065
Table 1.2.d Total		1.026	1.231	0.562	0.782
Table 1.2.c Total		.757	.985	1.164	1.012
Annual Total		1.783	2.216	1.726	1.794

NOTE: All results in 1000 DLMY's.

R
R

1. **Production Workload, continued**

Table 1.2.d: **Historic/Projected Work Package Performance**

EVENT		FY 19904	FY 19915	FY 19926	FY 19937
Non Nuclear ROH		.691	.613	0	0
Non Nuclear COH					
Non Nuclear DPMA					
Non Nuclear PMA					
Non Nuclear DSRA		0	.139	.003	.148
Non Nuclear SRA		.096	.245	.224	.274
Non Nuclear SCO		0	0	.059	.084
Other INACTs					
OPW:	Nuclear	.034	.032	.032	.032
	NonNuclear	.135	.130	.131	.131
RATA:	Nuclear	.010	.007	.048	.048
	NonNuclear	.060	.065	.065	.065
Table 1.2.d Total		1.026	1.231	0.562	0.782
Table 1.2.c Total		.757	1.011	1.279	.829
Annual Total		1.783	2.242	1.841	1.611

NOTE: All results in 1000 DLMY's.

1. Production Workload, continued

1.3 Emergent Repair. Identify the total Direct Labor Man Years (DLMYs) expended by your activity in providing emergent repair of operational ships. Breakout the annual totals by type of work performed, (not by propulsion system of the originating platform). [For this question, and this question only, nuclear work is to be construed as repair on the reactor plant, including its associated primary systems and those portions of secondary systems whose maintenance is under the technical cognizance of NAVSEA 08.]

Table 1.3: Emergent Repairs

Type of Work	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993	FY 1994 (01 Oct-31 Mar)
Nuclear	.009	.057	.006	.017	.020	.108
Conventional	.166	.149	.162	.154	.126	.159
Total	0.175	0.206	0.168	0.171	0.146	0.267

NOTE: All results in 1000 DLMY's.

Note: Emergent Repairs included in Table 1.2 RATA Nuclear and Non-Nuclear.

1.4 Other Shipboard Work. List and describe any other nuclear and conventional ship work not reported in question 1.2 above.

Event	FY 1990	FY 1991	FY 1992	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997
Non-Nuclear PSA		.065		.062		.200	.033	
Non-Nuclear OPW (YR-46 Barge)					.006			
Total	0.000	0.065	0.000	0.062	0.006	0.200	0.033	0.000

NOTE: All results in 1000 DLMY's.

2. Operating Factors

2.1 **Special Equipment and Skills.** Identify any specialized, unique, or peculiar characteristics about the facilities, equipment, or skills at this activity. Highlight those capabilities that are one of a kind within the DON/DoD.

The Pearl Harbor Naval Shipyard is the only fully capable naval depot level maintenance facility and full service shipyard in the central and western Pacific region. The shipyard is capable of overhauling and repairing all classes of U.S. Navy Ships. It is also the forward-most located depot maintenance facility in the Pacific Rim area. Unique capabilities include:

1. Only large graving docks in the central and western Pacific region under United States control. Total of four operational drydocks capable of handling all classes of U.S Navy ships.
2. Comprehensive industrial shop facilities and plant equipment capable of supporting the most extensive overhaul, conversion or repair requirements on naval or civilian vessels.
 - a. Our structural and sheetmetal shops are the largest operations of its type in the Central and Western Pacific area. The facilities include a high bay (60 foot) shop structure which covers approximately 240000sq. ft. The shops are equipped with a variety of large scale metal forming and fabrication equipment.
 - b. The Machine Shop is the largest of its kind in the Central and Western Pacific region. The shop is a high bay (50 ft) facility that covers approximately 190,000 sq. ft. The Machine Shop is in the final phase of an \$11 million dollar capital improvement project to replace obsolete and less efficient equipment to CNC-capable machine tools.
 - c. Other unique facilities, skills and equipment include the rubber shop, forge shop and the foundry and patternmaking shop. These shops are fully equipped to provide full services and are staffed by highly skilled tradespersons.
4. Unique crane capabilities to support nuclear and non-nuclear work.
5. Full capability for nuclear repair work, including refuel or defuel various classes of nuclear powered submarines.
6. Full range of quality assurance and non-destructive testing services. Full range of engineering services, nuclear and non-nuclear.

Revised pg

Pearl Harbor Naval Shipyard
ACTIVITY: N00311

2.2 Planning Yard Mission. Identify the classes of ships (include one-of-a-kind) for which your activity serves as the planning yard.

ARS-38
ARS-50
ATS-1
FF-1052

2.3 Reactor Compartment Disposal. Does your activity remove reactor compartments from inactive nuclear powered vessels? Yes / No

No.

2.4 Non-Shipwork. Identify the work, in total Direct Labor Man Years (DLMYs), performed by your activity during FY 1993 in support of other DON industrial facilities (e.g. Naval Aviation Depots (NADEPs), Aviation Intermediate Maintenance Departments (AIMDs), Marine Corps Logistics Bases (MCLBs), Shore Intermediate Maintenance Activities (SIMAs), Fleet and Industrial Support Centers (FISCs), etc.).

Non-Shipwork DON Industrial support = .167 K DLMYs R

(NOTE: Data is reported in thousands of Direct Labor Man Years, to the nearest thousandth) R

2.5 Interservice Workload. Identify the productive work your activity provides to customers other than USN vessels (e.g. nonship work, such as repairables, calibration; non-DON vessels, such as MSC or USCG ships; work for other DoD elements, other agencies of the Federal government or the commercial sector). Specify any related specialized, unique or peculiar capabilities of your activity which support such workload. Highlight those areas where your activity is the only DON/DoD source for that workload.

.004 DLMYs.

2.2 Planning Yard Mission. Identify the classes of ships (include one-of-a-kind) for which your activity serves as the planning yard.

ARS-38
ARS-50
ATS-1
FF-1052

2.3 Reactor Compartment Disposal. Does your activity remove reactor compartments from inactive nuclear powered vessels? Yes / No

No.

2.4 Non-Shipwork. Identify the work, in total Direct Labor Man Years (DLMYs), performed by your activity during FY 1993 in support of other DON industrial facilities (e.g. Naval Aviation Depots (NADEPs), Aviation Intermediate Maintenance Departments (AIMDs), Marine Corps Logistics Bases (MCLBs), Shore Intermediate Maintenance Activities (SIMAs), Fleet and Industrial Support Centers (FISCs), etc.).

Non-Shipwork DON Industrial support = .167 DLMYs

2.5 Interservice Workload. Identify the productive work your activity provides to customers other than USN vessels (e.g. nonship work, such as repairables, calibration; non-DON vessels, such as MSC or USCG ships; work for other DoD elements, other agencies of the Federal government or the commercial sector). Specify any related specialized, unique or peculiar capabilities of your activity which support such workload. Highlight those areas where your activity is the only DON/DoD source for that workload.

.004 DLMYs.

Features and Facilities

3. Facility Measures

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). Duplicate the table as necessary to report all facilities of any tenants for whom your activity serves as host.

Table 3.1: **Facility Conditions**

Shipyard

CCN	Facility Type	Condition			Comments See Note (1)
		Adequate	Substandard	Inadequate	
131	Comm Bldg	0	0.5	0	Bldg
138*	Ship Navigation & Traffic Aids	0	0	0	Structure (2 ea)
141	Photo Bldg	4.9	3.5	0	Bldg
143	Small Craft Berth	23.9	2.3	0	Structure
151	Piers	4.4	2.2	0	KFB Structure
152	Wharf	4.8	0	0.7	KFB Structure
154	Quaywalls	0	0	0	Structure
155	Berth	0.06	0.07	0	KFB Structure
161*	Harbor Protection Fac	0	0	0	Bldg (1 ea)
163	Moorings	.46	0	0	Structure
171	Training Bldgs	34.6	0	7.3	Bldg
213	Maintenance (Bldg)	711.6	1375.4	239.0	Bldg
213	Maint Shops	1	0	0	EA Structure CCN: 213-40
214	Maint Tank/Auto	2.4	0	0	Structure
217*	Sensory Acry Site	0	0	0	1 EA A; 1 EA S EA I Structure

CCN	Facility Type	Condition			Comments See Note (1)
		Adequate	Substandard	Inadequate	
218	Maint Misc/Prod	0	31.4	4.1	Bldg

CCN	Facility Type	Condition			Comments See Note (1)
		Adequate	Substandard	Inadequate	
229	Prod Maint Repair Operation	86.7	0	0	Bldg
411	Liq Fuel Stor UM=EA	1	0	0	EA Structure
441	Covered Storage/Depot	276.9	313.1	3.8	Bldg
451	Open Storage Depot	310.1	0	0	Structure PR Change 6/21/94
610	Admin Ofc	213.9	179.6	3.4	Bldg
730	Community Facility	10.9	22.7	3.4	Bldg
740	Comm Fac MWR-Interior	16.8	0	0	Bldg
811	Elec PR - Source	16.9	0	0	Bldg
812	Elec Trans/Dist	3.1	0	0	Bldg
812	Elec Trans/Distr	0	0	0	39.1KLF Structure
821	Heat Source	.2	0	0	Bldg
831	Sewage Trt & Dsp	11.0	0	0	Bldg
833	Refuse & Garbage	.5	0	0	Bldg
845	Wtr Dist Sys-Non Stable	0	0	0	3.7KLF Structure
851	Roads	1670.6	0	0	Structure
852	Walks/Parking	22.2	1599.2	0	Structure
871	Grounds Drainage	0	0	0	8.0 KLF Structure
872	Fence/Wall/Towers	0	0	0	32.4KLF Structure
872	Fence/Wall/Tower	.1	0	0	Bldg
890	Misc Utilities	0	0	0	1.4KLF Structure

CCN	Facility Type	Condition			Comments See Note (1)
		Adequate	Substandard	Inadequate	
Activity TOTAL:		6,978.7	1,871.6	263.9	

* These buildings or structures are listed on the P-164.

NOTE: (1) A **SUBSTANDARD** facility is capable of supporting its current use, but requires modifications or repairs, which normally require approval and funding beyond the authority of the Activity Commanding Officer, to make the facility adequate for its function. (2) A facility is substandard if deterioration will result in deficiencies which will render it so within the next five years, given the current and projected maintenance levels.

Table 3.1: **Facility Conditions**

Tenant: SUBASE (N00314)

CCN	Facility Type	Condition			Comments
		Adequate	Substandard	Inadequate	
610	Admin	0	0.7	0	Bldg
Activity TOTAL:		0	0.7	0	

Tenant: FISC (N00604)

CCN	Facility Type	Condition			Comments
		Adequate	Substandard	Inadequate	
441	General Whse	61.6	163.4	0	Bldg
451	Open Storage	42.9	0	0	Structure
Activity TOTAL:		104.5	163.4	0	

Tenant: NCTAMS EASTPAC (N00950)

CCN	Facility Type	Condition			Comments
		Adequate	Substandard	Inadequate	
131	Telcom Center	2.7	0	0	Bldg
Activity TOTAL:		2.7	0	0	

Tenant: NAVSEASYSOMGTO WESTPAC (N0438A)

CCN	Facility Type	Condition			Comments
		Adequate	Substandard	Inadequate	
610	Admin Ofc	0	0.4	0	Bldg
Activity TOTAL:		0	0.4	0	

Tenant: COMNAVBASE PH (N61449)

CCN	Facility Type	Condition			Comments
		Adequate	Substandard	Inadequate	
143	Operational Strg	0	27.5	0	Bldg
610	Admin Ofc	0	16.2	0	Bldg
690	Flag Pole	0	0	0	Structure
730	Parking Bldg	.4	0	0	Bldg
740	Family Center	.5	0	0	Bldg
Activity TOTAL:		0.9	43.7	0.0	

Tenant: OICC MIDPAC PH (N62471)

CCN	Facility Type	Condition			Comments
		Adequate	Substandard	Inadequate	
610	Admin Ofc	0	8.9	0	Bldg
Activity TOTAL:		0	8.9	0	

Tenant: NISE WEST ACT PH (N62676)

CCN	Facility Type	Condition			Comments
		Adequate	Substandard	Inadequate	
217	Elec Com Maint	0	30.1	0	Bldg
610	Admin Ofc	0	30.5	0	Bldg
Activity TOTAL:		0	60.6	0	

Tenant: DPSDET PH (N62707)

CCN	Facility Type	Condition			Comments
		Adequate	Substandard	Inadequate	
229	Printing Plant	2.2	6.6	0	Bldg
Activity TOTAL:		2.2	6.6		

Tenant: PWC (N62755)

CCN	Facility Type	Condition			Comments
		Adequate	Substandard	Inadequate	
812	Elec Dist Bldg	1.8	0	0	Bldg
813	Elec Pwr Sub Sta	15.9	0	0	
Activity TOTAL:		17.7	0	0	

Tenant: NAVSTA PH (N62813)

CCN	Facility Type	Condition			Comments
		Adequate	Substandard	Inadequate	
610	Admin Ofc	.9	0	0	Bldg
852	Parking	24.0	0	0	Structure
Activity TOTAL:		24.9	0	0	

Tenant: NAVINVSERV MIDPAC PH (N63435)

CCN	Facility Type	Condition			Comments
		Adequate	Substandard	Inadequate	
610	Admin Ofc	0	3.9	0	Bldg
Activity TOTAL:		0	3.9	0	

Tenant: NAVSECGRUACT (N63901)

CCN	Facility Type	Condition			Comments
		Adequate	Substandard	Inadequate	
143	Haz Storage	0.1	0	0	Bldg
171	Training	1.4	0	0	Bldg
217	Elec Comm Maint	3.7	7.5	0	Bldg
610	Admin Ofc	16.8	0	0	Bldg
740	Rec Center	0	2.1	0	Bldg
Activity TOTAL:		22.0	9.6	0.0	

Tenant: SUPSHIP PH (N65202)

CCN	Facility Type	Condition			Comments
		Adequate	Substandard	Inadequate	
610	Admin Ofc	0	10.7	0	Bldg
Activity TOTAL:		0	10.7	0	

Note (1) The comments section list two categories; bldgs and structures. Building category covers all Navy owned buildings. Structure category includes drydocks, marine railways, wharves, piers, power substations, flag poles, antennas, towers, bridges, truck scales, etc.

3. Facility Measures, continued

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 in Table 3.1, above, where inadequate facilities are identified provide the following information:

CCN 152

O-1 Pier

- a. Facility type/code: Permanent
- b. What makes it inadequate? Deteriorated slab and pilings - beyond economical repair
- c. What use is being made of the facility? CCN 152-50 Repair Wharf
- d. What is the cost to upgrade the facility to substandard? \$1,100K
- e. What other use could be made of the facility and at what cost? No other use possible
- f. Current improvement plans and programmed funding: Planned for disposal
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

CCN 213

Bldg. 68

- a. Facility type/code: Semi-permanent
- b. What makes it inadequate? Physical deterioration of facility, plumbing, electrical
- c. What use is being made of the facility? CCN 213-41 Central Maintenance Asbestos Siding Shop 06
- d. What is the cost to upgrade the facility to substandard? \$507K
- e. What other use could be made of the facility and at what cost?
- f. Current improvement plans and programmed funding: \$1.475K (Replace lights/electrical system, repair restroom/plumbing)
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

Bldg. 8

- a. Facility type/code: Perm
- b. What makes it inadequate? Abandoned, total deterioration of facility
- c. What use is being made of the facility? CCN 213-55 Facility is abandoned
- d. What is the cost to upgrade the facility to substandard? \$1,375K
- e. What other use could be made of the facility and at what cost? N/A
- f. Current improvement plans and programmed funding: Demolition FY94
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

Bldg. 823

- a. Facility type/code: Temporary
- b. What makes it inadequate? Quonset hut facility
- c. What use is being made of the facility? CCN 213-56 SHT Warehouse Code 964-B
- d. What is the cost to upgrade the facility to substandard? \$0
- e. What other use could be made of the facility and at what cost? No other use
- f. Current improvement plans and programmed funding: None
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

Bldg. T48

- a. Facility type/code: Temporary
- b. What makes it inadequate? Quonset hut facility; deteriorated roof, electrical
- c. What use is being made of the facility? CCN: 213-57 Transducer storage
- d. What is the cost to upgrade the facility to substandard? \$0
- e. What other use could be made of the facility and at what cost? No other use
- f. Current improvement plans and programmed funding: None
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

Bldg. T47

- a. Facility type/code: Temporary
- b. What makes it inadequate? Quonset hut; deteriorated roof/side
- c. What use is being made of the facility? CCN: 213-57 Cal Lab shipping/receiving
- d. What is the cost to upgrade the facility to substandard? \$13K
- e. What other use could be made of the facility and at what cost? No other use
- f. Current improvement plans and programmed funding: Demolition FY94
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

Bldg. 1361

- a. Facility type/code: Permanent
- b. What makes it inadequate? Total deterioration of structure
- c. What use is being made of the facility? CCN 213-60 Paint Spray Booth
- d. What is the cost to upgrade the facility to substandard? \$16K
- e. What other use could be made of the facility and at what cost? None
- f. Current improvement plans and programmed funding: Connect fire sprinkler system to main \$25K
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

Bldg. 857

- a. Facility type/code: Temporary
- b. What makes it inadequate? Total deterioration of facility
- c. What use is being made of the facility? CCN 213-60 Locker Area
- d. What is the cost to upgrade the facility to substandard? Beyond economical repair \$9K
- e. What other use could be made of the facility and at what cost? None
- f. Current improvement plans and programmed funding: Demo ish FY96
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

Bldg. 4

- a. Facility type/code: Permanent
- b. What makes it inadequate? Deteriorated foundation/corrugated roof sides, fire sprinkler
- c. What use is being made of the facility? Cat Code 213-60
- d. What is the cost to upgrade the facility to substandard? \$80K
- e. What other use could be made of the facility and at what cost? Project Management Facility
- f. Current improvement plans and programmed funding: Fire sprinkler, construction office area for Project Management \$500K
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

Bldg. S17A

- a. Facility type/code: Semi-permanent
- b. What makes it inadequate? Corrugated sides deteriorated
- c. What use is being made of the facility? CCN: 213-66 Pump house storage
- d. What is the cost to upgrade the facility to substandard? \$6K
- e. What other use could be made of the facility and at what cost? No other use possible
- f. Current improvement plans and programmed funding: None
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

Bldg. T15

- a. Facility type/code: Temporary
- b. What makes it inadequate? Quonset hut facility
- c. What use is being made of the facility? CCN: 213-77 Crane spare parts storage
- d. What is the cost to upgrade the facility to substandard? \$1K
- e. What other use could be made of the facility and at what cost?
- f. Current improvement plans and programmed funding: None
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

Bldg. 385

- a. Facility type/code: Semi-permanent
- b. What makes it inadequate? Deteriorated floor slab and building structure
- c. What use is being made of the facility? CCN 213-77
- d. What is the cost to upgrade the facility to substandard? \$15K
- e. What other use could be made of the facility and at what cost? \$15K No other use
- f. Current improvement plans and programmed funding: None
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

Bldg. 72

- a. Facility type/code: Permanent
- b. What makes it inadequate? Inadequate power, deteriorated corrugated roof and siding
- c. What use is being made of the facility? CCN 213-77 Sheetmetal Shop
- d. What is the cost to upgrade the facility to substandard? \$24K
- e. What other use could be made of the facility and at what cost? \$6K No other use
- f. Current improvement plans and programmed funding: Install emergency lights, fire sprinkler \$240K
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

Bldg. T15A

- a. Facility type/code: Temporary
- b. What makes it inadequate? Quonset hut
- c. What use is being made of the facility? CCN 213-77 Crane Spare Parts Storage
- d. What is the cost to upgrade the facility to substandard? \$0
- e. What other use could be made of the facility and at what cost? \$6K No other use
- f. Current improvement plans and programmed funding: None
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

Bldg. 4A

- a. Facility type/code: Permanent
- b. What makes it inadequate? Deteriorated flooring, corrugated roof/sides, roof support trusses
- c. What use is being made of the facility? CCN 213-77 Ship Spare Storage
- d. What is the cost to upgrade the facility to substandard? \$145K
- e. What other use could be made of the facility and at what cost? \$375K Misc temporary storage
- f. Current improvement plans and programmed funding: Fire sprinkler system FY97 \$375K
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

Bldg. 3B

- a. Facility type/code: Permanent/213-77
- b. What makes it inadequate? Extensive termite damage
- c. What use is being made of the facility? CCN 213-77 Shipyard Record Storage
- d. What is the cost to upgrade the facility to substandard? \$7K
- e. What other use could be made of the facility and at what cost?
- f. Current improvement plans and programmed funding: None
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

CCN 730

S1133 - Fallout Shelter

- a. Facility type/code: Permanent
- b. What makes it inadequate? Structural Deficiencies
- c. What use is being made of the facility? Abandoned
- d. What is the cost to upgrade the facility to substandard? \$10,000
- e. What other use could be made of the facility and at what cost? none
- f. Current improvement plans and programmed funding: None
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

S1115 - Fallout Shelter

- a. Facility type/code: Permanent
- b. What makes it inadequate? Structural Deficiencies
- c. What use is being made of the facility? Abandoned
- d. What is the cost to upgrade the facility to substandard? \$10,000
- e. What other use could be made of the facility and at what cost? none
- f. Current improvement plans and programmed funding: Scheduled for Demolition
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

CCN 610

Bldg. 4

- a. Facility type/code: Permanent
- b. What makes it inadequate? Physical condition of the building and foundation
- c. What use is being made of the facility? Shipyard Special Projects Shop
- d. What is the cost to upgrade the facility to substandard? \$475.9K
- e. What other use could be made of the facility and at what cost? No other use possible
- f. Current improvement plans and programmed funding: \$173K Alt/Rpr for Waterfront Service Support Bldg.
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

CCN 171

Bldg. 92

- a. Facility type/code: Semi-permanent
- b. What makes it inadequate? Physical Condition of the building
- c. What use is being made of the facility? Welding School

- d. What is the cost to upgrade the facility to substandard? \$25.7K
- e. What other use could be made of the facility and at what cost? No other use possible
- f. Current improvement plans and programmed funding: Disposal
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

Bldg. 391

- a. Facility type/code: Semi-permanent
- b. What makes it inadequate? Physical condition of building
- c. What use is being made of the facility? Welding School Laboratory
- d. What is the cost to upgrade the facility to substandard? \$7.2K
- e. What other use could be made of the facility and at what cost? No other use possible
- f. Current improvement plans and programmed funding: Disposal
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

Bldg. 392

- a. Facility type/code: Semi-permanent
- b. What makes it inadequate? Physical Condition of Building
- c. What use is being made of the facility? Welding School Laboratory
- d. What is the cost to upgrade the facility to substandard? \$6.8K
- e. What other use could be made of the facility and at what cost? No other use possible
- f. Current improvement plans and programmed funding: Disposal
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

3.3 Identify any specialized major equipments or facilities (e.g. cranes, centrifuges, autoclaves, wind tunnels, interior and exterior aircraft storage areas) *not previously delineated*, which are unique or peculiar to your activity.

None

3. Facility Measures, continued

3.4 IPE Age. Identify the average age of Industrial Plant Equipment (IPE) at the activity as of 30 September 1994.

IPE Average Age = 24

3.5 AIS Backlog. Identify the Annual Inspection Summary (AIS) backlog at the activity in thousands of dollars (\$ K) and percent of total backlog, for the period requested.

Table 3.5: AIS Backlog

	FY 1990	FY 1991	FY 1992	FY 1993	FY 1994	Average
Backlog * (\$ K)	56845.0	79672.0	40593.0	40470.0	38997.0	51315.4.0
% Backlog Retired	11.6	18.9	4.9	11.3	16.7	10.7

* Note: Total critical and deferrable DBOF and O&MN backlog.

Features and Facilities

4. Support Services

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.

Table 4.1: Support Facilities

Support	Currently Obtained from:	Needed if Host Closes?
Police	NAVSTA Pearl	Yes
Security	NAVSTA Pearl and NAVSHIPYD Pearl	Yes
Fire	NAVSTA Pearl	Yes
Utilities	Public Workers Center Pearl	Yes
Child Care	Not Applicable	No

4.2 If your activity is relocated, what new location(s) (for your activity) most efficiently provides adequate oversight of this support?

The drydocks and deep-draft harbor are inherent to what comprises the naval shipyard. Relocation to another location is not feasible.

4.3 Other Support. Identify any services or support your activity provides to the community or to other DON/DoD activities. (Include only services to activities which employ 300 or more personnel.)

Service	Activities Served
1. Public Relations: audio/video services	COMNAVBASE PH, MSC T-AGOS Unit PAC, PWC PH, US Army 25th Infantry, US Army 703 MIB/DE
2. Calibration Laboratory services	PWC PH, NUWC, SURFPAC, SIMA PH, NISE WEST, USASCH, 1st Marine Expeditionary Brigade, SUBPAC PH, MIDPAC, NISMF, SRF YOKO, Coast Guard Sand Island, CINCPACFLT, Kaneohe Marine Corp Airstation, Board of Water Supply (City and County of Honolulu)
3. Joint Oil Analysis Program	USAF Hickam AFB, PWC PH, USASCH, Air National Guard, NCTAMS
4. TQL Training	CINCPACFLT, Hawaii Joint Military Training Board, State of Hawaii Government, Guam Naval Hospital
5. Drug Testing	NISE WEST, PWC PH, NAVSTA PH, DFAS, NISMF
6. Civilian Employee Assistance Program (CEAP) Services	NISE WEST, PWC, DFAS

5. Waterfront Support Services

5.1 Identify the source(s) of your activity's tugs and pilots, barges, and other harbor services.

Naval Station Pearl.

5.2 Does your activity provide tugs and pilots, barges, and other harbor services to other (non-NSYD/SRF) activities? Yes / No

No.

If so, please specify what services and to what activities.

Not applicable.

5.3 If the naval station, base, or other supporting activity in closest proximity is closed, identify all additional annual costs that would accrue to your activity for tugs and pilots, barges, or any other harbor services.

If Pearl Harbor Naval Station or Naval Base were to close, the additional annual costs to the shipyard for tugs, pilots, barges, and other harbor services would be approximately \$202,000.

\$122K	Pilot Services
80 K	Tug/Barge/Harbor Svcs

Features and Facilities

6. Personnel Experience

6.1 What is the total number of apprentices trained at this activity over the period FY 1990 through FY 1994?

Total # of apprentices = 197

What percentage of those apprentices are still employed at your activity? % = 91

How many apprentices are currently being trained at this activity?

Current # apprentices = 136

6.2 Using the following table, identify the average experience of personnel in the functional areas and their total longevity at your activity.

Table 6.2: **Workforce Longevity and Experience**

Functional Area	Years	
	Experience in this Position	Total Longevity
Nuclear Engineers	11	11
Conventional Engineers	15	15
Journeyman/Mechanics	13	17
RADCON Technicians	9	9
Quality Assurance Inspector	12	22
Total Shipyard	14	17

Costs

7. **Investments**

7.1 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 7.1: **Capital Improvement Expenditure**

Project	Description	Fund Year	Value (\$K)
MC01-88	Ducts-LAN: Bd 1, 167, 178, 1456	1988	24
MC02-88	Ducts-LAN: Bd 11, 11A, 1670, 58, 213, 214, 215	1988	59
MC04-88	Shipyard P.A. System	1988	22
MC05-88	CIA Fence	1988	25
MC07-88	Construct Duct Lines at DD#4	1988	5
MC08-88	Electrical Service: Bd 90, 44, 27	1988	47
MC09-88	Storage Area at Bd 72	1988	10
MC10-88	Install Chain & Post at Bd 159	1988	7
C43-87	Material Storage Building at Bd 1667	1989	82
MC1-89	Install Lathe at Bd 67	1989	35
C32-89	Transducer Powder Coating System at Bd 1447	1989	128
MC12-88	CIA Perimeter Lights	1989	24
C5-89	Construct Turnstiles at various CIA gates	1989	188
C39-89	Site Prep Defueling Complex	1989	196
C57-89	LAN Project III, Area A (DD#1-3 Area)	1990	151
MC03-90	Brushplating Shop WW Collection at Bd 67A	1990	11
MC3-89	Indus Waste Tank Sewer Line at Bd 1670	1990	56

Project	Description	Fund Year	Value (\$K)
C33-89	Latrine at DD#2	1990	200
MC01-90	CIA Fence	1990	33
MC22-91	Security Fence at Bd 209	1990	15
MC06-92	Curie Monitor at Bd 1409	1990	6
C4-91	LAN Project IV, Area B (Central shipyard)	1991	167
RC64-86	Upgrade Electrical Substation at Bd 167	1991	180
MC06-90	Water Distribution Line at Bd 1274	1991	50
MC23-91	Install Telephone Ducts at DD#4	1991	9
MC8-92	Electrical Upgrade at Bd 140	1991	23
MC7-92	Connect Latrine Trailer at Bd 1274 Compound	1991	16
C18-92	LAN Project V, Area C (DD#4 & outlying areas)	1992	139
CRMA34-89	First Floor Alterations at Bd 9	1992	127
MC09-88	Storage Shed at Bd 11	1992	39
	Drug Free Office at Bd 1C	1992	25
	Site Prep EDMICS at Bd 1	1992	53
	Modify Control Point at Bd 1274	1992	53
	Construct Walls for Code 308 at Bd 167 for storage room	1992	57
	Construct Training Rooms at Bd 215	1992	118
	Fire Escape at Bd 155	1992	29
	Welding Exhaust Vents at Bd 1409	1992	24
	Remove Walls, MTC at Bd 1G	1992	33
C13-92	Haz Waste Storage Facility at Bd 1663	1992	280
	Construct Wall at Bd 208	1992	30
C13-92	Haz Waste Transfer Facility at Bd 1683	1993	92

Project	Description	Fund Year	Value (\$K)
	Project Management Alteration at Bd 139	1993	41
	Install Walls/Receptacles/Lights at Bd 164	1993	22
	Pier Utility Holes at Bravo Pier #13	1993	19
CE8-94	Emergency Command Center Renovation, Bldg. 167	1994	25
	Alterations for Prefab Structure, Bldg. 1444	1994	2
	Alterations for Project Management, Bldg. 1470	1994	28
	Alterations/Repair Bldg. 4 Admin Space for Project Management	1994	120

The above projects are not a result of BRAC realignments or closures.

3125

7.2. 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 7.2: **Planned Capital improvements**

Project	Description	Fund Year	Value (\$K)
	A/C for Sail Loft Plastics Room at Bd 155	1995	35
	Upgrade Security Files at Bd 1	1995	25
	Service Gallery Improvements, DD#1	1995	120
	Computer Room #1 & #3, Bd 167	1995	25
	DD#4 Project Management Facility at Bd 388	1996	265
	Security Facility Alterations at Bd 207	1996	275
	Extend Utility Tunnels, DD#1	1996	35
	Project Management, 1st Flr Shop Planning Office at Bd 67	1996	65
	Room 175 Ventilation, Bd 1443	1997	75
	Service Gallery Improvements, DD#2	1997	225
P-215	Engineering/Management Building, Bd 167	1997	9,900
94205	SSN 688 Class Refueling	1995	4,290
94206	SSN 688 Class Refueling	1996	4,688
94207	SSN 688 Class Refueling	1997	188

7. **Investment, continued**

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

Table 7.3: Planned BRAC Capital improvements

Project	Description	Fund Year	Value
	None		

7. Investment, continued

7.4 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 7.1-7.3 above.

Table 7.4: Historic Investment Summary

Investment Category	\$ K
02-Communication Facilities	19
03-Waterfront Operational Facilities	2,358
04-Other Operational Facilities	363
05-Training	2,183
07-Shipyard Maintenance/Production	27,966
08-Other Maintenance/Production	316
10-Pol Supply/Storage	13
12-Other Supply/Storage	4,656
13-Medical Facility	38
14-Administrative	20,492
16-Other Personnel Support & Service	293
17-Utilities	8,015
18-Real Estate and Ground Structures	991
Other (specify) LAN	457
Equipment (other than Class 2)	0
Activity TOTAL	68,160

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

Total planned Investments = \$ 241,791 K

7. Investments, continued

7.6 Provide a list of all other documented major facility deficiencies not addressed in 7.1-7.3 (e.g. major repairs) and the estimated cost to rectify each at this activity. Identify the reduction in operating costs anticipated in relation to each deficiency correction.

Table 7.6: Facility Deficiencies

Deficiency	Cost to Correct (\$ K)	Result of Corrections (Annual \$K)
DD#3 Overhaul Caisson	1,269	38
Bldg 215 Install Fire Protection	2,500	75
Bldg 67C Consolidate Cleaning	1,500	45
DD#1 Repair Drydock Floor and Drains	1,300	39
DD#2 Overhaul Inter Caisson	1,200	36
Bldg 67 Paint Interior	3,678	110
DD#1 Overhaul Caisson	1,500	45
Rpr Struc Sonar Transducer Test Facility	1,560	47
Repair 2nd Floor	1,200	36

Note 1: Reduction in operating costs is an estimated annual savings. Reduction of operating costs was based on the planning assumption that the annual savings is 3% of correction cost.

Note 2: All facility deficiencies were obtained from the 30 September 1993 Annual Inspection Summary (AIS) and the 30 September 1994 AIS. The 1994 AIS hardcopy print has not been submitted, the database has been updated.

Costs

8. Labor Rates

8.1 Provide the following actual rates per hour, less direct materials, for your activity for the period requested. Reproduce the table as necessary to report different rate structures for different functional areas, specifying the functional areas represented in each table.

Table 8.1: Labor Rates

Functional Area: SHIPYARD

	Rate (\$/Hour)	
	FY 1993	FY 1994
Direct Labor Rate	32.10	33.09
Production Expense	25.03	33.84
Overhead (G&A)	17.26	23.33
Fully Burdened Rate	74.39	90.26

Functional Area: SCN

	Rate (\$/Hour)	
	FY 1993	FY 1994
Direct Labor Rate	35.01	29.68
Production Expense	13.41	27.29
Overhead (G&A)	9.25	18.82
Fully Burdened Rate	57.67	75.79

Functional Area: REPAIRS

	Rate (\$/Hour)	
	FY 1993	FY 1994
Direct Labor Rate	30.09	32.61
Production Expense	24.37	34.84
Overhead (G&A)	16.81	24.03
Fully Burdened Rate	71.27	91.48

Functional Area: ALTS

	Rate (\$/Hour)	
	FY 1993	FY 1994
Direct Labor Rate	30.37	32.78
Production Expense	25.26	31.72
Overhead (G&A)	17.42	21.87
Fully Burdened Rate	73.05	86.37

Functional Area: INACT

	Rate (\$/Hour)	
	FY 1993	FY 1994
Direct Labor Rate	27.10	35.17
Production Expense	30.93	44.03
Overhead (G&A)	21.33	30.36
Fully Burdened Rate	79.36	109.56

Functional Area: RA/TA

	Rate (\$/Hour)	
	FY 1993	FY 1994
Direct Labor Rate	29.84	32.79
Production Expense	27.85	31.73
Overhead (G&A)	19.20	21.88
Fully Burdened Rate	76.89	86.40

Functional Area: DESIGN/PLANNING YARD

	Rate (\$/Hour)	
	FY 1993	FY 1994
Direct Labor Rate	33.16	35.21
Production Expense	22.35	39.16
Overhead (G&A)	15.41	27.00
Fully Burdened Rate	70.92	101.37

Functional Area: REFIT/RSTRN

	Rate (\$/Hour)	
	FY 1993	FY 1994
Direct Labor Rate	26.44	29.39
Production Expense	28.20	38.10
Overhead (G&A)	19.45	26.27
Fully Burdened Rate	74.09	93.76

Functional Area: OTHER PROD WORK

	Rate (\$/Hour)	
	FY 1993	FY 1994
Direct Labor Rate	74.53	36.83
Production Expense	22.05	34.59
Overhead (G&A)	15.20	23.85
Fully Burdened Rate	111.78	95.27

Activity N00311

**DATA CALL for MILITARY VALUE
Naval Shipyards and Ship Repair Facility**

Revised pg

Amendment One

Questions for the Activities

Primary Activity UIC: N00311

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

Costs

8. Labor Rates

8.2 Provide the following actual rates per hour, less direct materials, for your activity for FY 1997. Reproduce the table as necessary to report different rate structures for different functional areas, specifying the functional areas represented in each table.

Table 8.2: Labor Rates .

Functional Area: SHIPYARD

	Rate (\$/Hour)
	FY 1997
Direct Labor Rate	32.39
Production Expense	28.53
Overhead (G&A)	27.07
Fully Burdened Rate	87.99

Functional Area: SCN

	Rate (\$/Hour)
	FY 1997
Direct Labor Rate	0.00
Production Expense	0.00
Overhead (G&A)	0.00
Fully Burdened Rate	0.00

Revised pg

Activity N00311

Functional Area: REPAIRS

	Rate (\$/Hour)
	FY 1997
Direct Labor Rate	31.99
Production Expense	30.46
Overhead (G&A)	28.12
Fully Burdened Rate	90.57

Functional Area: ALTS

	Rate (\$/Hour)
	FY 1997
Direct Labor Rate	32.16
Production Expense	27.72
Overhead (G&A)	25.58
Fully Burdened Rate	85.46

Functional Area: INAC

	Rate (\$/Hour)
	FY 1997
Direct Labor Rate	34.55
Production Expense	27.93
Overhead (G&A)	25.78
Fully Burdened Rate	88.26

Revised pg

Activity N00311

Functional Area: RA/TA

	Rate (\$/Hour)
	FY 1997
Direct Labor Rate	32.17
Production Expense	27.73
Overhead (G&A)	25.59
Fully Burdened Rate	85.49

Functional Area: DESIGN

	Rate (\$/Hour)
	FY 1997
Direct Labor Rate	34.59
Production Expense	34.27
Overhead (G&A)	31.63
Fully Burdened Rate	100.49

Functional Area: REFIT/RSTRN

	Rate (\$/Hour)
	FY 1997
Direct Labor Rate	28.75
Production Expense	33.40
Overhead (G&A)	30.83
Fully Burdened Rate	92.98

Revised pg

Activity N00311

Functional Area: OTHER PROD

	Rate (\$/Hour)
	FY 1997
Direct Labor Rate	36.22
Production Expense	29.05
Overhead (G&A)	26.82
Fully Burdened Rate	92.09

Strategic Concerns

9. Location Factors

9.1 Strategic Location. Specify any special strategic importance or military value consideration of your activity accruing from its geographical location. Include the number of major customer activities located within a 100 mile radius.

Activity	Location	Description of Strategic Importance/Military Value
<p>Pearl Harbor Naval Shipyard</p>	<p>Pearl Harbor, Hawaii Island of Oahu Central Pacific</p>	<p>Only fully capable naval depot level maintenance facility in the central Pacific area. Most forward located depot maintenance facility in the Pacific Rim area.</p> <ul style="list-style-type: none"> ◆ Capabilities include: <ul style="list-style-type: none"> - 4 operational drydocks capable of handling all naval ships. - Extensive machine shops and industrial plant equipment capable of supporting the most extensive overhaul, conversion or repair requirements on naval or civilian vessels. - Full capability for nuclear repair work, including radiological support and services. - Full range of Quality Assurance and Non-Destructive Testing services. - Full range of engineering services, nuclear and non-nuclear. ◆ Capable of providing industrial services to all other DOD and government agencies. ◆ Nearest location with equal capability is Puget Sound Naval Shipyard in Washington state on the U.S. west coast (2,500 miles to the east of Oahu). ◆ Nearest locations in the Pacific Rim with civilian contractors having similar but lesser capabilities are Japan, Korea or Singapore. ◆ For ease of support, the shipyard is located adjacent to an operating naval station (Pearl Harbor), a large military airfield (Hickam AFB), an airport (Honolulu International) and a port (Honolulu).

There are 28 customers within a 100 mile radius:

- Commander in Chief, US Pacific Fleet
- Commander, Submarine Force, US Pacific Fleet
- Commander, Surface Force, Mid-Pacific
- Defense Finance and Accounting Service
- Defense Printing Service Detachment Office
- Defense Reutilization and Marketing Office Hawaii
- Fleet and Industrial Supply Center
- Fleet Training Group
- Hickam Air Force Base
- Naval and Marine Corps Reserve Center
- Naval Base Pearl Harbor
- Naval Command, Control and Ocean Surveillance Center In Service Engineering West Activity
- Naval Computer and Telecommunications Area Master Station Eastern Pacific
- Naval Dental Center
- Naval Facilities Engineering Command Pacific Division
- Naval Investigative Service Regional Office Pacific
- Naval Magazine Lualualei
- Naval Medical Clinic
- Naval Sea Systems Command Detachment Naval Inactive Ship Maintenance Facility
- Naval Security Group Activity
- Naval Station Pearl Harbor
- Naval Undersea Warfare Engineering Station Det
- Navy Public Works Center
- Office of Civilian Personnel Management Pacific Region
- Submarine Base Pearl Harbor
- Supervisor of Shipbuilding, Conversion and Repair, USN, San Diego Detachment
- Tripler Army Medical Center
- US Postal Service

9.2 Transportation. List and indicate the distance in road-miles from your activity all Interstate Highways, airports of embarkation, seaports of embarkation, and cargo rail terminals serving your activity.

Interstate Highway (H-1)	.25 miles
Airport (Honolulu)	.25 miles
Sea Port (Honolulu Harbor)	3.0 miles

9.3 Rail Network. Is your activity serviced by rail trackage providing direct access to commercial rail network? Yes / No

No.

If not, identify the road miles separating your facility from the nearest railhead access.

Distance = _____ Miles

Not applicable.

9.4 Regional Maintenance Concept. Has your activity been chosen to be a part of the Navy's Regional Maintenance Concept? If so, provide the details as currently known, and list other DON industrial activities (both intermediate and depot level) that are located within a 25 mile range of your activity.

Pearl Harbor Naval Shipyard is a member of the Pearl Harbor Regional Maintenance Quality Management Board (PHRMQMB). This board is chartered to review maintenance capabilities in Pearl Harbor and recommend regionalization concepts for review and execution. Commands and activities participating in the PHRMQMB include:

COMSUBPAC, N4 (CHAIRMAN)
NAVSHIPYDPEARL
COMNAVSURFGRUMIDPAC
SUBASE, PH
COMSUBPAC, PH
PWC, PH
NISE WEST, PH DET
SIMA, PH
SUPSHIP, SD (PH DET)

Pearl Harbor Naval Shipyard is not in a position to provide responses to any specific regionalization action items other than our active participation in the planning process.

Navy Industrial Activities within a 25 mile radius include, SUBASE, PH and SIMA, PH.

Strategic Concerns

10. Natural Inhibitors to Operations

10.1 Identify the percent of the planned work schedule at this facility (averaged by month) that was interrupted by local weather or climatic conditions for the period FY 1990-1993 (i.e. what percent of man-days were lost annually, by month, because of hurricanes, tornado, earthquake, blizzard, below freezing temperatures, or other performance-impinging natural conditions?).

Table 10.1.a: **Impact on Operations (%)**

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

Table 10.1.b: **Impact on Operations (%)**

	July	August	September	October	November	December
Average % Schedule Interrupted	0	.019	.017	0	0	0

10.2 Identify the total number of Direct Labor Man Years (DLMYs) of planned work lost at your facility due to hurricanes, tornadoes, earthquakes, blizzards, below freezing temperatures, or other performance-impinging natural conditions.

Table 10.2: **Impact on Operations (DLMYs)**

	FY 1991	FY 1992	FY 1993	FY 1994 (01 Oct-31 Mar)
DLMYs Lost	.02	4.4	4.9	0

Strategic Concerns

11. Contingency and Mobilization Features

11.1 Identify the covered and uncovered, storage and industrial space at your activity which is currently surplus to the planned need (your current requirement), expressed in thousands of square feet (K SF).

Table 11.1: Surplus Storage

K SF	Covered	Uncovered
Storage	None	None
Industrial	None	None

11.2 Identify any additional space in these categories programmed to be available by FY 2001.

Approximately 46,200 sf of space will become available by the demolition of Buildings 8, 174, 857, and S1115. There are no current or future plans for new construction in those areas.

11.3 Identify the amount of the potentially available other DoD or commercial activity, industrial, space within a one-hour drive of your activity. Include any physical restrictions (e.g. road limitations) that might apply should those facilities be used for facility augmentation or in an emergency.

Pearl Harbor Naval Shipyard's mission is to overhaul all ships home ported in Hawaii and to accomplish emergency repairs on all ships traversing the Pacific. To accomplish this mission, PHNS has four certified drydocks capable of servicing submarines, and surface crafts, including aircraft carriers. The shipyard has a complete, fully functional industrial complex.

In the event of an emergency, the following identifies potential industrial space within a one-hour drive of the shipyard:

ARMY: Schofield Barracks has limited shop industrial space. Physical restrictions include limited capability to support transportation and material handling equipment.

NAVY: SIMA and SUBASE, located within the Pearl Harbor Complex, have surface and subsurface repair and maintenance industrial space. SUBASE has one floating drydock (AFDM) for submarine overhauls.

Limited maintenance/shop capability also exists at the following two naval air stations: Kaneohe Marine Corps Air Station, and Barber's Point Naval Air Station. Barber's Point is scheduled for closure. The air stations do not have drydocking capability. Pearl Harbor Public Works Center (PWC) has limited maintenance/shop capability. PWC has no drydocking capability.

COMMERCIAL: Two companies, Marisco Ltd. and Honolulu Shipyard Incorporated (HSI), are limited to surface craft repairs only. Both companies have floating drydocks.

Environment and Encroachment

12. Environmental Considerations

12.1 Identify all environmental restrictions to expansion at your activity.

None.

12.2 Describe the undeveloped acreage or waterfront that are available to this activity, including its size, current state, and the amount of development required to make it usable to the industrial facility. Specify any undeveloped acreage that is unique to this activity

None.

12.3 Identify any specific facilities, programs, or capabilities in regard to the handling and disposal of hazardous materials / wastes at this activity.

The shipyard has 2 primary facilities for handling and disposing of hazardous waste:

1. 90 Day Hazardous Waste Accumulation and Packaging Facility (Bldgs 1663 and 1683) is used for the consolidation and packaging of hazardous waste. This is a "less than 90 day" facility.
2. Hazardous Material Retulization Facility (Bldgs. 1657 and 1658). This facility is used for the redistribution of hazardous material.

Additionally, the shipyard has several programs to manage hazardous waste and material in the shipyard:

1. The shipyard has a Hazardous Waste Management Plan (NAVSHIPYDPEARLINST 5090.1B) for the management and handling of hazardous waste within the shipyard.

2. The Hazardous Material Control and Management (HMC&M) Program. This program controls hazardous materials from "cradle to grave". This program consists of 3 phases:

- a. Procurement and engineering. This phase reduces the waste stream by "front end engineering" - eliminating or reducing the waste stream by substitution or process changes.
- b. In-use controls. All unused portions of hazardous material is returned to central control points for re-issue.
- c. Disposal.

13. Encroachment Considerations

13.1 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 13.1: Encroachments of Record

Encroachments	Date Recorded	Current Status
ESQD Arc, Bravo Pier 21	1 Jan 1976	Active

Customer Support

14. Customer Support

14.1 Homeport Proximity. Identify the distance, by road-miles and by water, to the two closest fleet homeport concentrations.

Table 14.1: Homeport Proximity

Homeport	Distance	
	Road (Miles)	Water (NM)
Pearl Harbor	.5	
San Diego		2285

14.2 Billeting. Identify the billeting support provided to the crews of ships undergoing work at your activity. Provide the total number of individuals within each category for the period requested.

Table 14.2: Billeting Support

	FY 1991	FY 1992	FY 1993	FY 1994 (01 Oct-31 Mar)
Berthed on Barges	200	400	350	300
Retained onboard own vessel	50	--	--	--
Billeted ashore (Homeport/own quarters)	750	1275	1075	775
Billeted ashore (BQs maintained by your activity)	1100	1125	875	525
Total	2100	2800	2300	1600

Note: 1. Barges, quarters ashore and BQs are not PHNS assets. Barges are owned and operated by TYCOMs. Quarters ashore and BQs are owned and operated by NAVSTA and SUBASE.

2. All figures are approximate.

Quality of Life

Pearl Harbor Naval Shipyard cannot respond to the following questions, since these services are obtained from the Naval Base and the Naval Station and are not provided by the shipyard.

15. Military Housing - Family Housing

15.1 Do you have mandatory assignment to on-base housing? Yes / No

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

Table 15.2: Available Military Family Housing

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

15.3 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?

15. Military Housing - Family Housing, continued

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

Table 15.4: **Military Housing Waiting List**

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

15. Military Housing - Family Housing, continued

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

Table 15.5: Housing Demand Factors

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

15.6 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)?

_____ %

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

Table 15.7: Family Housing Utilization

Type of Quarters	Utilization Rate (%)
Adequate	
Substandard	
Inadequate	

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

Quality of Life

16. Military Housing - Bachelor Quarters

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

Table 16.1: BEQ Utilization

Type of Quarters	Utilization Rate
Adequate	
Substandard	
Inadequate	

16.2 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?

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

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

AOB = _____

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

Table 16.4: Reasons for Geographic Separation (BEQ)

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

16.5 How many enlisted Geographic Bachelors (GB) do not live on base?

GB Off-Base = _____

16. Military Housing - Bachelor Quarters, continued

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

Table 16.6: BOQ Utilization

Type of Quarters	Utilization Rate
Adequate	
Substandard	
Inadequate	

16.7 As of 31 March 1994, have you experienced much of a change since FY 1993? If so, why? If occupancy is under 95% (or vacancy over 5%), is there a reason?

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

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

AOB = _____

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

Table 16.9: Reasons for Geographic Separation (BOQ)

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

16.10 How many officer Geographic Bachelors do not live on base?

GB Off-Base = _____

Information not available.

Quality of Life

17. MWR Facilities

17.1 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 _____ DISTANCE _____

Table 17.1.a: **MWR Facilities Summary**

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

17. MWR Facilities, continued

Table 17.1.b: **MWR Facilities Summary**

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

17.2 Is your library part of a regional interlibrary loan program?

Yes / No

Quality of Life

18. Base Family Support Facilities and Programs

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

Table 18.1: Child Care Availability

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

18.2 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?

18. Base Family Support Facilities and Programs, continued

18.3 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.

18.4 How many "certified home care providers" are registered at your base? # = _____

18.5 Are there other military child care facilities within 30 minutes of the base? Yes / No
State owner and capacity (e.g. 60 children, 0-5 years).

18. Base Family Support Facilities and Programs, continued

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

Table 18.6: Available Services

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

19. Metropolitan Areas

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

Table 19.1: Proximate Metropolitan Areas

City	Distance (Miles)
Honolulu	5
Los Angeles	2557
San Francisco	2397

Quality of Life

20. VHA Rates

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

Table 20.1: VHA Rates

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

Quality of Life

21. Off-base Housing Rental and Purchase

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

Table 21.1: Recent Rental Rates

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

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

Table 21.2: Rental Occupancy Rate

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

21. Off-base Housing Rental and Purchase, continued

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

Table 21.3: Regional Home Costs

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

21.4 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 21.4: Housing Availability

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

21. Off-base Housing Rental and Purchase, continued

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

22. Sea-Shore Opportunities

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

Table 22.1: Sea Shore Opportunities

Rating	# Sea Billets in Local Area	# Shore Billets in Local Area

23. Commuting Distances

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

Table 23.1: Commuting Distances

Location	% Employees	Distance (Miles)	Time (Minutes)

Quality of Life

24. 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.

24.1 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 24.1: Educational Opportunities

Institution	Type	Grade Level(s)	Special Education Available	Annual Enrollment Cost/Student	SAT/ACT Score	% HS to College	Source of Info

24. Regional Educational Opportunities, continued

24.2 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 24.2: Off-Base Educational Programs

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

24. Regional Educational Opportunities, continued

24.3 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 24.3: On-Base Educational Programs

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

Quality of Life

25. **Spousal Employment Opportunities**

25.1 Provide the following data on spousal employment opportunities

Table 25.1: Spouse Employment

Skill Level	# Military Spouses Serviced by FSC Spouse Employment Assistance			Local Community Unemployment Rate (%)
	FY 1991	FY 1992	FY 1993	
Professional				
Manufacturing				
Clerical				
Service				
Other				

26. **Medical / Dental Care**

26.1 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.

26.2 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.

Quality of Life

27. Crime Rate

27.1 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 27.1.a: Local Crime Rate

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

27. Crime Rate, continued

Table 27.1.b: Local Crime Rate

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

27. Crime Rate, continued

Table 27.1.c: Local Crime Rate

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

27. Crime Rate, continued

Table 27.1.d: Local Crime Rate

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

27. Crime Rate, continued

Table 27.1.e: **Local Crime Rate**

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

27. Crime Rate, continued

Table 27.1.f: Local Crime Rate

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

24 June 1994

DATA CALL FOR MILITARY VALUE ANALYSES
for
NAVAL SHIPYARDS and NAVAL SHIP REPAIR FACILITY

Supplement

TAB A: TECHNICAL OPERATIONS
FUNCTIONAL SUPPORT AREA - LIFE CYCLE WORK AREA FORM

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

APPENDIX A:
I. FUNCTIONAL SUPPORT AREAS (PRODUCTS)
II. LIFE-CYCLE WORK AREAS

APPENDIX B:
I. FUNCTIONAL SUPPORT AREA DEFINITIONS
II. LIFE-CYCLE WORK AREA DEFINITIONS

**TAB A: TECHNICAL OPERATIONS
FUNCTIONAL SUPPORT AREA - LIFE CYCLE WORK AREA FORM**

INSTRUCTIONS FOR TAB A

1. Use Tables 1.a-1.h to identify the Functional Areas in which your facility performs work for the listed functional support areas (products). Appendices A and B define/describe the products and functional areas used in these Tables.
2. Complete the Tables for all categories and all products provided in this Tab.
3. In completing Tab A, provide Direct Labor Man Years of "work years" for DBOF activities.

TAB A: Table 1.a: TECHNICAL WORKLOAD MATRIX / FUNCTIONAL AREAS

PRODUCTS	Basic Research	Explor. Devel.	Adv. Devel.	Engr & Mnfg. Devel	RDT&E Mngt Support	Op Sys Support	Production	Acceptance Testing	Moder-nization
1. Platforms									
1.1 UnderSea									107.47
1.2 Aircraft									
1.3 Surface Ship									146.73
1.4 Space Satellites									
1.5 Ground Vehicles									
2. Weapons Systems									
2.1 Gun Systems									18.97
2.2 Guided Missiles									
2.3 Freefall Weapons & Rockets									
2.4 Torpedoes									1.31
2.5 Mines									
2.6 Directed Energy Systems									
2.7 Explosives									
2.8 Launchers									
2.9 Fire Control									40.39
2.10 Wpns Data Links									
2.11 Weapons Fuzing									
2.12 Wpns Propulsion									
2.13 Other Ordnance									
3. Combat Systems Integration									
3.1 Subsurface									
3.2 Air									
3.3 Surface									
3.4 Multiplatform									

TAB A: Table 1.b: TECHNICAL WORKLOAD MATRIX / FUNCTIONAL AREAS

PRODUCTS	Program Support	Sched. Maint.	Repair	Testing	In Serv. Engr.	Program Support	Retirement	Tmg/ Ops Spt	Sim. Model/ Anlys
1. Platforms									
1.1 UnderSea						1426.25			
1.2 Aircraft									
1.3 Surface Ship						239.43			
1.4 Space Satellites									
1.5 Ground Vehicles									
2. Weapons Systems									
2.1 Gun Systems						.61			
2.2 Guided Missiles						1.85			
2.3 Freefall Weapons & Rockets									
2.4 Torpedoes						42.21			
2.5 Mines									
2.6 Directed Energy Systems									
2.7 Explosives									
2.8 Launchers									
2.9 Fire Control						2.21			
2.10 Wpns Data Links									
2.11 Weapons Fuzing									
2.12 Wpns Propulsion									
2.13 Other Ordnance									
3. Combat Systems Integration									
3.1 Subsurface									
3.2 Air									
3.3 Surface									
3.4 Multiplatform						3.87			

TAB A: Table 1.c: TECHNICAL WORKLOAD MATRIX / FUNCTIONAL AREAS

PRODUCTS	Basic Research	Explor. Devel.	Adv. Devel.	Engr & Mnfg. Devel	RDT&E Mngt Support	Op Sys Support	Production	Acceptance Testing	Moder-nization
4. Special Ops Spt									
4.1 Landing Force Eqmt & Systems									
4.2 Coastal/Special Warfare Support									
5. Sensors & Surveillance Sys									
5.1 Sonars Systems									210.23
5.2 Radar Systems									
5.3 Special Sensors									
5.4 Space Sensor / Surveillance Sys									
5.5 Ocean Surv.									
6. Navigation									
6.1 Sub. Nav. Sys									4.52
6.2 Aircraft Nav. Sys									
6.3 Surf. Ship Nav.									
6.4 Wpns Nav. Sys									
6.5 Satellite Nav. Sys									
7. C ³ I									
7.1 Submarine									
7.2 Airborne									
7.3 Shipboard									
7.4 Land-Based									
7.5 Space Comm Sys									
7.6 Non-Tact Data									
7.7 Air Traffic Cntrl									
7.8 Intel Info Sys									

TAB A: Table 1.d: TECHNICAL WORKLOAD MATRIX / FUNCTIONAL AREAS

PRODUCTS	Program Support	Sched. Maint.	Repair	Testing	In Serv. Engr.	Program Support	Retirement	Trng/ Ops Spt	Sim. Model/ Anlys
4. Special Ops Spt									
4.1 Landing Force Eqmt & Systems									
4.2 Coastal/Special Warfare Support									
5. Sensors & Surveillance Sys									
5.1 Sonars Systems						35.87			
5.2 Radar Systems						4.05			
5.3 Special Sensors									
5.4 Space Sensor / Surveillance Sys									
5.5 Ocean Surv.									
6. Navigation									
6.1 Sub. Nav. Sys						3.03			
6.2 Aircraft Nav. Sys									
6.3 Surf. Ship Nav.									
6.4 Wpns Nav. Sys									
6.5 Satellite Nav. Sys									
7. C3I									
7.1 Submarine									
7.2 Airborne									
7.3 Shipboard									
7.4 Land-Based									
7.5 Space Comm Sys									
7.6 Non-Tact Data									
7.7 Air Traffic Cntrl									
7.8 Intel Info Sys									

TAB A: Table 1.e: TECHNICAL WORKLOAD MATRIX / FUNCTIONAL AREAS

PRODUCTS	Basic Research	Explor. Devel.	Adv. Devel.	Engr & Mnfg. Devel	RDT&E Mngt Support	Op Sys Support	Production	Acceptance Testing	Moder-nization
8. Defense Systems									
8.1 Ballistic Msl Def									
8.2 Countermeasures									29.01
8.3 Electronic Warfare									
9. Strategic Programs									
9.1 Navy Strategic Sys									
9.2 Nuc Wpns/Effects									
10. Gen Mission Spt									
10.1 Personnel/Training									
Sub related Trng Sys									
Air related Trng Sys									
Surf related Trng Sys									
Wpn related Trng Sys									
Human Resrc R&D									
10.2 Log Plng/Implem.									
10.3 Fac Engineering									
10.4 Diving, Salv, O.E.									
10.5 Env Dscrp/Pred									
10.6 Crew Eqmt/ Life Spt									
Submarine									
Aircraft									
Surface Ship									
Med Resr/Cmb Cslty									
Clothing and Textiles									
10.7 Range Dev & Ops									
10.8 Other Subsid Sys									
10.9 Miss/Func Spt									

TAB A: Table 1.f: TECHNICAL WORKLOAD MATRIX / FUNCTIONAL AREAS

PRODUCTS	Program Support	Sched. Maint.	Repair	Testing	In Serv. Engr.	Program Support	Retirement	Trng/ Ops Spt	Sim. Model/ Anlys
8. Defense Systems									
8.1 Ballistic Msl Def									
8.2 Countermeasures									
8.3 Electronic Warfare									
9. Strategic Programs									
9.1 Navy Strategic Sys									
9.2 Nuc Wpns/Effects									
10. Gen Mission Spt									
10.1 Personnel/Training									
Sub related Trng Sys									
Air related Trng Sys									
Surf related Trng Sys									
Wpn related Trng Sys									
Human Resrc R&D									
10.2 Log Plng/Implem.									
10.3 Fac Engineering									
10.4 Diving, Salv, O.E.									
10.5 Env Dscrp/Pred									
10.6 Crew Eqmt/ Life Spt									
Submarine									
Aircraft									
Surface Ship									
Med Resr/Cmb Cslty									
Clothing and Textiles									
10.7 Range Dev & Ops									
10.8 Other Subsid Sys									
10.9 Miss/Func Spt									

TAB A: Table 1.g: TECHNICAL WORKLOAD MATRIX / FUNCTIONAL AREAS

PRODUCTS	Basic Research	Explor. Devel.	Adv. Devel.	Engr & Mnfg. Devel	RDT&E Mngt Support	Op Sys Support	Production	Acceptance Testing	Moder-nization
11. Generic Tech Base									
11.1 Computers									
11.2 Software									
11.3 Comm Network									
11.4 Electronic Device									
11.5 Matl & Processes									
11.6 Energy Storage									
11.7 Propulsion and Energy Conservation									
11.8 Design Automation									
11.9 Human-System Interfaces									
11.10 Other Tech Base Programs									

TAB A: Table 1.h: TECHNICAL WORKLOAD MATRIX / FUNCTIONAL AREAS

PRODUCTS	Program Support	Sched. Maint.	Repair	Testing	In Serv. Engr.	Program Support	Retire-ment	Trng/ Ops Spt	Sim. Model/ Anlys
11. Generic Tech Base									
11.1 Computers									
11.2 Software									
11.3 Comm Network									
11.4 Electronic Device									
11.5 Matl & Processes									
11.6 Energy Storage									
11.7 Propulsion and Energy Conservation.									
11.8 Design Automation									
11.9 Human-System Interfaces									
11.10 Other Tech Base Programs									

TAB A: TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA - LIFE CYCLE WORK AREA FORM

Activity Name	Pearl Harbor Naval Shipyard
Functional Support Area	1. Platform, 1.1 Undersea
Life Cycle Work Area	Modernization

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

Note:

In-House Expenditures are comprised of the Total Obligation Authority (TOA) for direct labor, direct material, direct travel, direct equipment, direct computer support, other direct support services and all overhead.

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

1. **In-House Work Years.** Provide the total number of in-house government employee (civilian and military) Work Years (WYs) for FY 1993 that were performed by your activity in this functional support area - life cycle work area. Work Years are to be consistent with those used in the preparation of inputs to the President's Budget.

107.47 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost, in thousands of dollars (\$ K), in FY 1993 for this functional support area - life cycle work area.

\$ 17400.70 K

b. **Out-of-House Expenditures.** Provide the total funds expended, in thousands of dollars (\$ K), during FY 1993 for this functional support area - life cycle work area. Do not include direct cite funding.

\$ 6.81 K

c. **Direct Cites.** Provide total direct cite funds, in thousands of dollars (\$ K), expended on contract during FY 1993 for this functional support area - life cycle work area.

\$.74 K

**TAB A: TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA - LIFE CYCLE WORK AREA FORM**

Activity Name	Pearl Harbor Naval Shipyard
Functional Support Area	1. Platform, 1.3 Surface Ship
Life Cycle Work Area	Modernization

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

Note:

In-House Expenditures are comprised of the Total Obligation Authority (TOA) for direct labor, direct material, direct travel, direct equipment, direct computer support, other direct support services and all overhead.

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

1. **In-House Work Years.** Provide the total number of in-house government employee (civilian and military) Work Years (WYs) for FY 1993 that were performed by your activity in this functional support area - life cycle work area. Work Years are to be consistent with those used in the preparation of inputs to the President's Budget.

146.73 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost, in thousands of dollars (\$ K), in FY 1993 for this functional support area - life cycle work area.

\$ 23757.03 K

b. **Out-of-House Expenditures.** Provide the total funds expended, in thousands of dollars (\$ K), during FY 1993 for this functional support area - life cycle work area. Do not include direct cite funding.

\$ 9.30 K

c. **Direct Cites.** Provide total direct cite funds, in thousands of dollars (\$ K), expended on contract during FY 1993 for this functional support area - life cycle work area.

\$ 1.01 K

TAB A: TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA - LIFE CYCLE WORK AREA FORM

Activity Name	Pearl Harbor Naval Shipyard
Functional Support Area	2. Weapons, 2.1 Gun Systems
Life Cycle Work Area	Modernization

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

Note:

In-House Expenditures are comprised of the Total Obligation Authority (TOA) for direct labor, direct material, direct travel, direct equipment, direct computer support, other direct support services and all overhead.

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

1. **In-House Work Years.** Provide the total number of in-house government employee (civilian and military) Work Years (WYs) for FY 1993 that were performed by your activity in this functional support area - life cycle work area. Work Years are to be consistent with those used in the preparation of inputs to the President's Budget.

18.97 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost, in thousands of dollars (\$ K), in FY 1993 for this functional support area - life cycle work area.

\$ 3070.92 K

b. **Out-of-House Expenditures.** Provide the total funds expended, in thousands of dollars (\$ K), during FY 1993 for this functional support area - life cycle work area. Do not include direct cite funding.

\$ 1.20 K

c. **Direct Cites.** Provide total direct cite funds, in thousands of dollars (\$ K), expended on contract during FY 1993 for this functional support area - life cycle work area.

\$ 0.13 K

TAB A: TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA - LIFE CYCLE WORK AREA FORM

Activity Name	Pearl Harbor Naval Shipyard
Functional Support Area	2. Weapons Systems, 2.4 Torpedos
Life Cycle Work Area	Modernization

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

Note:

In-House Expenditures are comprised of the Total Obligation Authority (TOA) for direct labor, direct material, direct travel, direct equipment, direct computer support, other direct support services and all overhead.

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

1. **In-House Work Years.** Provide the total number of in-house government employee (civilian and military) Work Years (WYs) for FY 1993 that were performed by your activity in this functional support area - life cycle work area. Work Years are to be consistent with those used in the preparation of inputs to the President's Budget.

1.31 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost, in thousands of dollars (\$ K), in FY 1993 for this functional support area - life cycle work area.

\$ 211.32 K

b. **Out-of-House Expenditures.** Provide the total funds expended, in thousands of dollars (\$ K), during FY 1993 for this functional support area - life cycle work area. Do not include direct cite funding.

\$.08 K

c. **Direct Cites.** Provide total direct cite funds, in thousands of dollars (\$ K), expended on contract during FY 1993 for this functional support area - life cycle work area.

\$.01 K

TAB A: TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA - LIFE CYCLE WORK AREA FORM

Activity Name	Pearl Harbor Naval Shipyard
Functional Support Area	2. Weapon Systems, 2.9 Fire Control
Life Cycle Work Area	Modernization

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

Note:

In-House Expenditures are comprised of the Total Obligation Authority (TOA) for direct labor, direct material, direct travel, direct equipment, direct computer support, other direct support services and all overhead.

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

1. **In-House Work Years.** Provide the total number of in-house government employee (civilian and military) Work Years (WYs) for FY 1993 that were performed by your activity in this functional support area - life cycle work area. Work Years are to be consistent with those used in the preparation of inputs to the President's Budget.

40.39 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost, in thousands of dollars (\$ K), in FY 1993 for this functional support area - life cycle work area.

\$ 6540.09 K

b. **Out-of-House Expenditures.** Provide the total funds expended, in thousands of dollars (\$ K), during FY 1993 for this functional support area - life cycle work area. Do not include direct cite funding.

\$ 2.56 K

c. **Direct Cites.** Provide total direct cite funds, in thousands of dollars (\$ K), expended on contract during FY 1993 for this functional support area - life cycle work area.

\$ 0.28 K

**TAB A: TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA - LIFE CYCLE WORK AREA FORM**

Activity Name	Pearl Harbor Naval Shipyard
Functional Support Area	5. Sensors & Surveillance, 5.1 Sonar Systems
Life Cycle Work Area	Modernization

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

Note:

In-House Expenditures are comprised of the Total Obligation Authority (TOA) for direct labor, direct material, direct travel, direct equipment, direct computer support, other direct support services and all overhead.

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

1. **In-House Work Years.** Provide the total number of in-house government employee (civilian and military) Work Years (WYs) for FY 1993 that were performed by your activity in this functional support area - life cycle work area. Work Years are to be consistent with those used in the preparation of inputs to the President's Budget.

210.23 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost, in thousands of dollars (\$ K), in FY 1993 for this functional support area - life cycle work area.

\$ 34037.56 K

b. **Out-of-House Expenditures.** Provide the total funds expended, in thousands of dollars (\$ K), during FY 1993 for this functional support area - life cycle work area. Do not include direct cite funding.

\$ 13.33 K

c. **Direct Cites.** Provide total direct cite funds, in thousands of dollars (\$ K), expended on contract during FY 1993 for this functional support area - life cycle work area.

\$ 1.45 K

**TAB A: TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA - LIFE CYCLE WORK AREA FORM**

Activity Name	Pearl Harbor Naval Shipyard
Functional Support Area	6. Navigation, 6.1 Sub Nav Sys
Life Cycle Work Area	Modernization

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

Note:

In-House Expenditures are comprised of the Total Obligation Authority (TOA) for direct labor, direct material, direct travel, direct equipment, direct computer support, other direct support services and all overhead.

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

1. **In-House Work Years.** Provide the total number of in-house government employee (civilian and military) Work Years (WYs) for FY 1993 that were performed by your activity in this functional support area - life cycle work area. Work Years are to be consistent with those used in the preparation of inputs to the President's Budget.

4.52 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost, in thousands of dollars (\$ K), in FY 1993 for this functional support area - life cycle work area.

\$ 732.30 K

b. **Out-of-House Expenditures.** Provide the total funds expended, in thousands of dollars (\$ K), during FY 1993 for this functional support area - life cycle work area. Do not include direct cite funding.

\$.29 K

c. **Direct Cites.** Provide total direct cite funds, in thousands of dollars (\$ K), expended on contract during FY 1993 for this functional support area - life cycle work area.

\$.03 K

**TAB A: TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA - LIFE CYCLE WORK AREA FORM**

Activity Name	Pearl Harbor Naval Shipyard
Functional Support Area	8. Defense Systems, 8.2 Countermeasures
Life Cycle Work Area	Modernization

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

Note:

In-House Expenditures are comprised of the Total Obligation Authority (TOA) for direct labor, direct material, direct travel, direct equipment, direct computer support, other direct support services and all overhead.

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

1. **In-House Work Years.** Provide the total number of in-house government employee (civilian and military) Work Years (WYs) for FY 1993 that were performed by your activity in this functional support area - life cycle work area. Work Years are to be consistent with those used in the preparation of inputs to the President's Budget.

29.01 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost, in thousands of dollars (\$ K), in FY 1993 for this functional support area - life cycle work area.

\$ 4696.15 K

b. **Out-of-House Expenditures.** Provide the total funds expended, in thousands of dollars (\$ K), during FY 1993 for this functional support area - life cycle work area. Do not include direct cite funding.

\$ 1.84 K

c. **Direct Cites.** Provide total direct cite funds, in thousands of dollars (\$ K), expended on contract during FY 1993 for this functional support area - life cycle work area.

\$.20 K

**TAB A: TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA - LIFE CYCLE WORK AREA FORM**

Activity Name	Pearl Harbor Naval Shipyard
Functional Support Area	1. Platforms, 1.1 Undersea
Life Cycle Work Area	Program Support

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

Note:

In-House Expenditures are comprised of the Total Obligation Authority (TOA) for direct labor, direct material, direct travel, direct equipment, direct computer support, other direct support services and all overhead.

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

1. **In-House Work Years.** Provide the total number of in-house government employee (civilian and military) Work Years (WYs) for FY 1993 that were performed by your activity in this functional support area - life cycle work area. Work Years are to be consistent with those used in the preparation of inputs to the President's Budget.

1426.25 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost, in thousands of dollars (\$ K), in FY 1993 for this functional support area - life cycle work area.

\$ 230921.59 K

b. **Out-of-House Expenditures.** Provide the total funds expended, in thousands of dollars (\$ K), during FY 1993 for this functional support area - life cycle work area. Do not include direct cite funding.

\$ 90.42 K

c. **Direct Cites.** Provide total direct cite funds, in thousands of dollars (\$ K), expended on contract during FY 1993 for this functional support area - life cycle work area.

\$ 9.84 K

**TAB A: TECHNICAL FUNCTIONS
 FUNCTIONAL SUPPORT AREA - LIFE CYCLE WORK AREA FORM**

Activity Name	Pearl Harbor Naval Shipyard
Functional Support Area	1. Platform, 1.3 Surface Ship
Life Cycle Work Area	Program Support

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

Note:

In-House Expenditures are comprised of the Total Obligation Authority (TOA) for direct labor, direct material, direct travel, direct equipment, direct computer support, other direct support services and all overhead.

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

1. **In-House Work Years.** Provide the total number of in-house government employee (civilian and military) Work Years (WYs) for FY 1993 that were performed by your activity in this functional support area - life cycle work area. Work Years are to be consistent with those used in the preparation of inputs to the President's Budget.

239.43 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost, in thousands of dollars (\$ K), in FY 1993 for this functional support area - life cycle work area.

\$ 38765.96 K

b. **Out-of-House Expenditures.** Provide the total funds expended, in thousands of dollars (\$ K), during FY 1993 for this functional support area - life cycle work area. Do not include direct cite funding.

\$ 15.18 K

c. **Direct Cites.** Provide total direct cite funds, in thousands of dollars (\$ K), expended on contract during FY 1993 for this functional support area - life cycle work area.

\$ 1.65 K

**TAB A: TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA - LIFE CYCLE WORK AREA FORM**

Activity Name	Pearl Harbor Naval Shipyard
Functional Support Area	2. Weapons Systems, 2.1 Gun Systems
Life Cycle Work Area	Program Support

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

Note:

In-House Expenditures are comprised of the Total Obligation Authority (TOA) for direct labor, direct material, direct travel, direct equipment, direct computer support, other direct support services and all overhead.

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

1. **In-House Work Years.** Provide the total number of in-house government employee (civilian and military) Work Years (WYs) for FY 1993 that were performed by your activity in this functional support area - life cycle work area. Work Years are to be consistent with those used in the preparation of inputs to the President's Budget.

.61 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost, in thousands of dollars (\$ K), in FY 1993 for this functional support area - life cycle work area.

\$ 98.88 K

b. **Out-of-House Expenditures.** Provide the total funds expended, in thousands of dollars (\$ K), during FY 1993 for this functional support area - life cycle work area. Do not include direct cite funding.

\$.04 K

c. **Direct Cites.** Provide total direct cite funds, in thousands of dollars (\$ K), expended on contract during FY 1993 for this functional support area - life cycle work area.

\$ 0 K

TAB A: TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA - LIFE CYCLE WORK AREA FORM

Activity Name	Pearl Harbor Naval Shipyard
Functional Support Area	2. Weapons System, 2.2 Guided Missiles
Life Cycle Work Area	Program Support

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

Note:

In-House Expenditures are comprised of the Total Obligation Authority (TOA) for direct labor, direct material, direct travel, direct equipment, direct computer support, other direct support services and all overhead.

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

1. **In-House Work Years.** Provide the total number of in-house government employee (civilian and military) Work Years (WYs) for FY 1993 that were performed by your activity in this functional support area - life cycle work area. Work Years are to be consistent with those used in the preparation of inputs to the President's Budget.

1.85 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost, in thousands of dollars (\$ K), in FY 1993 for this functional support area - life cycle work area.

\$ 298.96 K

b. **Out-of-House Expenditures.** Provide the total funds expended, in thousands of dollars (\$ K), during FY 1993 for this functional support area - life cycle work area. Do not include direct cite funding.

\$.12 K

c. **Direct Cites.** Provide total direct cite funds, in thousands of dollars (\$ K), expended on contract during FY 1993 for this functional support area - life cycle work area.

\$.01 K

**TAB A: TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA - LIFE CYCLE WORK AREA FORM**

Activity Name	Pearl Harbor Naval Shipyard
Functional Support Area	2. Weapons Systems, 2.4 Torpedos
Life Cycle Work Area	Program Support

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

Note:

In-House Expenditures are comprised of the Total Obligation Authority (TOA) for direct labor, direct material, direct travel, direct equipment, direct computer support, other direct support services and all overhead.

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

1. **In-House Work Years.** Provide the total number of in-house government employee (civilian and military) Work Years (WYs) for FY 1993 that were performed by your activity in this functional support area - life cycle work area. Work Years are to be consistent with those used in the preparation of inputs to the President's Budget.

42.21 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost, in thousands of dollars (\$ K), in FY 1993 for this functional support area - life cycle work area.

\$ 6834.30 K

b. **Out-of-House Expenditures.** Provide the total funds expended, in thousands of dollars (\$ K), during FY 1993 for this functional support area - life cycle work area. Do not include direct cite funding.

\$ 2.68 K

c. **Direct Cites.** Provide total direct cite funds, in thousands of dollars (\$ K), expended on contract during FY 1993 for this functional support area - life cycle work area.

\$ 0.29 K

**TAB A: TECHNICAL FUNCTIONS
 FUNCTIONAL SUPPORT AREA - LIFE CYCLE WORK AREA FORM**

Activity Name	Pearl Harbor Naval Shipyard
Functional Support Area	2. Weapon Systems, 2.9 Fire Control
Life Cycle Work Area	Program Support

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

Note:

In-House Expenditures are comprised of the Total Obligation Authority (TOA) for direct labor, direct material, direct travel, direct equipment, direct computer support, other direct support services and all overhead.

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

1. **In-House Work Years.** Provide the total number of in-house government employee (civilian and military) Work Years (WYs) for FY 1993 that were performed by your activity in this functional support area - life cycle work area. Work Years are to be consistent with those used in the preparation of inputs to the President's Budget.

2.21 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost, in thousands of dollars (\$ K), in FY 1993 for this functional support area - life cycle work area

\$ 357.13 K

b. **Out-of-House Expenditures.** Provide the total funds expenditure, in thousands of dollars (\$ K), during FY 1993 for this functional support area - life cycle work area. Do not include direct cite funding.

\$.14 K

c. **Direct Cites** Provide total direct cite funds, in thousands of dollars (\$ K), expended on contract during FY 1993 for this functional support area - life cycle work area.

\$.02 K

TAB A: TECHNICAL FUNCTIONS
 FUNCTIONAL SUPPORT AREA - LIFE CYCLE WORK AREA FORM

Activity Name	Pearl Harbor Naval Shipyard
Functional Support Area	3. Combat Systems Integration, 3.4 Multi Platform
Life Cycle Work Area	Program Support

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

Note:

In-House Expenditures are comprised of the Total Obligation Authority (TOA) for direct labor, direct material, direct travel, direct equipment, direct computer support, other direct support services and all overhead.

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

1. **In-House Work Years.** Provide the total number of in-house government employee (civilian and military) Work Years (WYs) for FY 1993 that were performed by your activity in this functional support area - life cycle work area. Work Years are to be consistent with those used in the preparation of inputs to the President's Budget.

3.87 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost, in thousands of dollars (\$ K), in FY 1993 for this functional support area - life cycle work area.

\$ 625.88 K

b. **Out-of-House Expenditures.** Provide the total funds expended, in thousands of dollars (\$ K), during FY 1993 for this functional support area - life cycle work area. Do not include direct cite funding.

\$.25 K

c. **Direct Cites.** Provide total direct cite funds, in thousands of dollars (\$ K), expended on contract during FY 1993 for this functional support area - life cycle work area.

\$.03 K

**TAB A: TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA - LIFE CYCLE WORK AREA FORM**

Activity Name	Pearl Harbor Naval Shipyard
Functional Support Area	5. Sensors & Surveillance, 5.1 Sonar Systems
Life Cycle Work Area	Program Support

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

Note:

In-House Expenditures are comprised of the Total Obligation Authority (TOA) for direct labor, direct material, direct travel, direct equipment, direct computer support, other direct support services and all overhead.

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

1. **In-House Work Years.** Provide the total number of in-house government employee (civilian and military) Work Years (WYs) for FY 1993 that were performed by your activity in this functional support area - life cycle work area. Work Years are to be consistent with those used in the preparation of inputs to the President's Budget.

35.87 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost in thousands of dollars (\$ K), in FY 1993 for this functional support area - life cycle work area.

\$ 5807.66 K

b. **Out-of-House Expenditures.** Provide the total funds expended, in thousands of dollars (\$ K), during FY 1993 for this functional support area - life cycle work area. Do not include direct cite funding.

\$ 2.27 K

c. **Direct Cites.** Provide total direct cite funds, in thousands of dollars (\$ K), expended on contract during FY 1993 for this functional support area - life cycle work area.

\$.25 K

TAB A: TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA - LIFE CYCLE WORK AREA FORM

Activity Name	Pearl Harbor Naval Shipyard
Functional Support Area	5. Sensors & Surveillance Sys
Life Cycle Work Area	Program Support

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

Note:

In-House Expenditures are comprised of the Total Obligation Authority (TOA) for direct labor, direct material, direct travel, direct equipment, direct computer support, other direct support services and all overhead.

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

1. **In-House Work Years.** Provide the total number of in-house government employee (civilian and military) Work Years (WYs) for FY 1993 that were performed by your activity in this functional support area - life cycle work area. Work Years are to be consistent with those used in the preparation of inputs to the President's Budget.

4.05 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost, in thousands of dollars (\$ K), in FY 1993 for this functional support area - life cycle work area.

\$ 655.17 K

b. **Out-of-House Expenditures.** Provide the total funds expended, in thousands of dollars (\$ K), during FY 1993 for this functional support area - life cycle work area. Do not include direct cite funding.

\$ 0.26 K

c. **Direct Cites.** Provide total direct cite funds, in thousands of dollars (\$ K), expended on contract during FY 1993 for this functional support area - life cycle work area.

\$.03 K

TAB A: TECHNICAL FUNCTIONS
FUNCTIONAL SUPPORT AREA - LIFE CYCLE WORK AREA FORM

Activity Name	Pearl Harbor Naval Shipyard
Functional Support Area	6. Navigation, 6.1 Sub Nav Sys
Life Cycle Work Area	Program Support

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

Note:

In-House Expenditures are comprised of the Total Obligation Authority (TOA) for direct labor, direct material, direct travel, direct equipment, direct computer support, other direct support services and all overhead.

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

1. **In-House Work Years.** Provide the total number of in-house government employee (civilian and military) Work Years (WYs) for FY 1993 that were performed by your activity in this functional support area - life cycle work area. Work Years are to be consistent with those used in the preparation of inputs to the President's Budget.

3.03 WYs

2. **Expenditures.**

a. **In-House Expenditures.** Provide the total in-house cost, in thousands of dollars (\$ K), in FY 1993 for this functional support area - life cycle work area.

\$ 489.79 K

b. **Out-of-House Expenditures.** Provide the total funds expended, in thousands of dollars (\$ K), during FY 1993 for this functional support area - life cycle work area. Do not include direct cite funding.

\$.19 K

c. **Direct Cites.** Provide total direct cite funds, in thousands of dollars (\$ K), expended on contract during FY 1993 for this functional support area - life cycle work area.

\$ 0.02 K

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

INSTRUCTIONS FOR TAB B

A. Definitions

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

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

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

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

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

B. Instructions

1. Complete Tab B for each piece of identified conventional facilities and equipment (as defined above) supporting all Functional Support Areas (products) marked in the matrix (Tab A, Tables 1.a-1.h).
2. Where appropriate, pieces of equipment may be aggregated for the purposes of completing Tab B. For example, inside shop equipment may be consolidated as a shop facility; cranes, special hull treatment enclosures, portable test equipment, etc.
3. Do not list drydocks as a facility or an equipment.

Facility or Equipment Nomenclature or Title: CHEMISTRY AND MATERIALS
TESTING FACILITY, Building 1443, continued

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

This facility is would be impossible to relocate due to the area in which it serves.

a. Building 1443 contains industrial air compressor systems, water systems, electrical power systems, foundation systems for heavy machinery and testing, high output ventilation systems, hazardous material control handling design and systems integrated and designed to function within a single prestressed concrete structure to support quality assurance functions and sensitive equipment.

b. The full service Laboratory facilities are costly to relocate or replicate. Analytical instruments are compartmentalized to prevent cross-contamination of samples and work spaces, and to enhance worker safety. Mechanical test areas have special shock isolating concrete pits for the high capacity tension/compression force machines. Metallographic and scanning electron microscope facilities are compartmentalized to minimize particle contamination of samples.

c. A vast majority of samples submitted to the QAO Laboratory has well defined "hold times" or "turn around" times which has to comply with Federal, State, and County regulation and/or results are needed to meet critical ship/submarine repair evolutions. The existing facility is centrally located in the Pearl Harbor basin as well as centrally in the State and Pacific region. It is located adjacent to major military and commercial air and shipping ports.

d. Relocation of integrated welding, NDT, and chemistry laboratory facility/equipment at Building 1443 would be extremely costly and inefficient. There are no known comparable integrated facilities within the Pacific region or the public shipyards.

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

MILCON P-226, 15 June 1979.

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

This facility supports Pearl Harbor Naval Shipyard and any outside activity that has questions or requires tests in any of the following categories: Material, physical, chemical, oil analysis, or failure analysis.

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

29 men-per-day (1989-1993)

(continued next page)

Facility or Equipment Nomenclature or Title: CHEMISTRY AND MATERIALS
TESTING FACILITY, Building 1443, continued

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

31 men per day (FY94-97)

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

The approximate number of personnel used to operate the equipment is 31 (one analyst per instrument/test area).

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

The approximate number of personnel needed to maintain the equipment is three.

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

PHOTO BEING FORWARDED WITH SEPARATE CERTIFICATION

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

Activity Name:	N00311 Pearl Harbor Naval Shipyard
Facility or Equipment Nomenclature or Title	RADIOGRAPHIC INSPECTION FACILITY Building 315

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

Building 315 facilitates the safe and efficient accomplishment of radiographic testing (RT) inspections using x-rays or radioactive isotopes. These RT inspections are essential core capabilities needed to support the mission of PHNS.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by the definitions provided on the first page of this Tab.
Provides service to waterfront.

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

Replacement Value = approximately \$5,200,000 + \$1 Million for equipment.

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

Gross Weight = Cube = 286,730 cubic feet

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

Water, a/c (chill water), telephone.

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

special high density concrete for: calibration off Radiacs XOMAT Maintenance, X-Ray Machine (industrial film processor), Radioactive Equipment; Lead Shielding.

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

Temperature - due to industrial Radiographic Films and Film Processing Chemical Process Metal Recovery System; Film Development Solution Disposal (permit required); NRC/RASO approved safety shielded Facility for Radiation Hazards.

(continued next page)

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

Activity Name:	N003211 Pearl Harbor Naval Shipyard
Facility or Equipment Nomenclature or Title	RADIAC CALIBRATION FACILITY Building 214

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

Radiac Calibration Facility (radiation, detection, indication and computation). The facility provides repair and calibration services for Radiac instruments and performs shield surveys. Beside the shipyard, . Customers include the Army, Marine Corps, and the Tripler Army Medical Center, submarines, surface craft, and state and county agencies.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by the definitions provided on the first page of this Tab.
Fixed.

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

Replacement Value = \$21,331,000
 \$ 456,000 support equipment
 \$ 25,000 test equipment

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

Gross Weight = cube = 11,198,000 cubic feet

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

Requires automatic fire system/independent fire alarm; calibration lab require 24 hr. a/c.

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

Licensed sources, area around facility must be clear to 100 yards, shielding utilized to protect operating personnel

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

Temperature: 65-85 degrees F
 Humidity : 20-60%

(continued next page)

Facility or Equipment Nomenclature or Title: **RADIAC CALIBRATION FACILITY**
Building 214, continued

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

No commercial or DOD activities are available in our region and none are expected to become available due to excessive start up costs and regulatory issues. Submarine work could not be supported in this geographic area if the facility were lost. This facility supports ships, EOD, weapons, medical and industrial work. This facility is the only fully license activity in the State of Hawaii. Relocating this facility to mainland activities will cause logistical problems for the Navy and greatly increase the amount of time required to complete repair work.

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

P-212; June 1943; improvements 1979

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

Program support

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

Avg. Annual Workload: 8.5 man years

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

FY94: 8.5 man years (61%)	FY95: 8.2 man years (59%)
FY96: 8.0 man years (57%)	FY97: 8.0 man years (57%)

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

1 supervisor; 8 qualified personnel. An additional workload justifying an additional 4-6 qualified personnel could be accommodated.

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

1 man/year

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

PHOTO BEING FORWARDED WITH SEPARATE CERTIFICATION

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

Activity Name:	N00311 Pearl Harbor Naval Shipyard
Facility or Equipment Nomenclature or Title	SANDBLAST AND PAINTING FACILITY Building 1420

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

Sandblast and Painting Facility. This facility provides blasting and painting services for the shipyard. Naval vessels require a significant number of items be cleaned (blasted) and painted during repair availabilities.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by the definitions provided on the first page of this Tab.

Fixed.

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

Replacement Value = \$3,878,000

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

Gross Weight = Cube = 750,000 cubic feet

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

Compressed air, water.

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

Large blasting and spray booths (enclosed), dust collectors, overspray shield for walls. A large concrete slab adjacent to the bldg. for outside blasting.

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

Ventilation, humidity requirements on special jobs.

(continued next page)

Facility or Equipment Nomenclature or Title: SANDBLAST AND PAINTING FACILITY, Building 1420, continued

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

Very difficult to replace or relocate this facility. No other industrial facility in the State of Hawaii has the capabilities found here.

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

MILCON P-207, February 1976.

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

Program support

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

7 men/week (approximately 1400 man hours/year).

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

7 men/week (approximately 1400 man hours/year).

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

average 7 men/year

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

PWC maintains. Approximately 2000 man hours/year.

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

PHOTO BEING FORWARDED WITH SEPARATE CERTIFICATION

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

Activity Name:	N00311 Pearl Harbor Naval Shipyard
Facility or Equipment Nomenclature or Title	TRANSDUCER REPAIR AND TEST SUPPORT FACILITY Building 214

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

Facility for the repair and restoration of transducers and hydrophones. This facility includes work benches for repair work and pressure vessels for pressure testing of transducers and hydrophones.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by the definitions provided on the first page of this Tab.

Fixed

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

Replacement Value = \$ 1.3 Million: facility
\$ 6.2 Million: equipment

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

Gross Weight = Cube = 104,000 cubic feet

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

Compressed air; water; ventilation; air conditioning

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

Weight handling

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

Temperature: 65-85 degrees F
Humidity: 20-60%

(continued next page)

Facility or Equipment Nomenclature or Title: **TRANSDUCER REPAIR AND TEST SUPPORT FACILITY, Building 214, continued**

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

No commercial or DOD activities are available in our region and none are expected to become available due to excessive start up costs. Transducer repair and support work could not be supported in this geographic area if the facility were lost. Relocating this facility to mainland activities will cause logistical problems for the Navy and greatly increase the amount of time required to complete repair work. Nearest facility is 5000 miles away.

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

P-212 June 1943; improvements 1979

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

Program support

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

10-12 men per year

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

Projected facility utilization is not expected to exceed historical levels of FY89 - FY93.

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

10-20 men/year

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

1.5 men per year

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

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

Activity Name:	N00311 Pearl Harbor Naval Shipyard
Facility or Equipment Nomenclature or Title	SONAR TRANSDUCER REPAIR AND TEST FACILITY Building 1233

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

This facility consists of a crane and pier. Acoustic testing of any size transducers and hydrophones can be done in an ocean environment.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by the definitions provided on the first page of this Tab.

Fixed

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

Replacement Value = \$500,000

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

Gross Weight = Cube = 11,904 cubic feet

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

None

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

Water barrier must be maintained, pier members need periodic preservation.

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

None

(continued next page)

Facility or Equipment Nomenclature or Title: SONAR TRANSDUCER REPAIR AND TEST FACILITY, Building 1233, continued

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

No commercial or DOD activities are available in our region and none are expected to become available due to excessive start up costs. Transducer repair and support work could not be supported in this geographic area if the facility were lost. Relocating this facility to mainland activities will cause logistical problems for the Navy and greatly increase the amount of time required to complete repair work. Nearest facility is 5000 miles away, utilizes ocean environment for accoustical measurement testing of large transducer arrays.

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

MILCON Nov 1960

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

Program support

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

1 man/year

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

Projected facility utilization is not expected to exceed historical levels of FY89 - FY93.

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

1 man/year

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

1/2 man/year

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

PHOTO BEING FORWARDED WITH SEPARATE CERTIFICATION

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

Activity Name:	N00311 Pearl Harbor Naval Shipyard
Facility or Equipment Nomenclature or Title	SONAR TRANSDUCER REPAIR AND TEST TANK Building 1365

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

This facility consists of a fresh water tank for acoustic testing of smaller transducers and hydrophones.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by the definitions provided on the first page of this Tab.
Test tank.

Fixed.

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

Replacement Value = \$ 227,000 test tank
\$ 200,00 elevator
\$1,300,000 equipment

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

Gross Weight = Cube = 329,682 cubic feet

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

Water with filtration system.

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

Reinforced foundation required to support tank.

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

None

(continued next page)

Facility or Equipment Nomenclature or Title: SONAR TRANSDUCER REPAIR AND TEST TANK, Building 1365, continued

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

No commercial or DOD activities are available in our region and none are expected to become available due to excessive start up costs. Transducer repair and support work could not be supported in this geographic area if the facility were lost.. Relocating this facility to mainland activities will cause logistical problems for the Navy and greatly increase the amount of time required to complete repair work. Nearest facility is 5000 miles away.

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

MILCON Dec 1970

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

Program support

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

4 man years

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

Projected facility utilization is not expected to exceed historical levels of FY89 - FY93.

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

4 man/year

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

1 man/year

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

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

Activity Name:	N00311 Pearl Harbor Naval Shipyard
Facility or Equipment Nomenclature or Title	SONAR TRANSDUCER REPAIR AND TEST PIER Building 1446

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

This facility contains the accoustical test equipment (AN/FQM-12) to conduct accoustical testing of transducers and hydrophones. Used in conjunction with Building 1233.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by the definitions provided on the first page of this Tab.

Fixed

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

Replacement Value = \$1.3 million

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

Gross Weight = Cube = 4,290 cubic feet

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

Crane support

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

Underway foundation work required to support pier side structure.

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

Temperature: 65-85 degrees F
Humidity: 20-60%

(continued next page)

Facility or Equipment Nomenclature or Title: SONAR TRANSDUCER REPAIR AND TEST PIER, Building 1446, continued

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

No commercial or DOD activities are available in our region and none are expected to become available due to excessive start up costs. Transducer repair and support work could not be supported in this geographic area if the facility were lost. Relocating this facility to mainland activities will cause logistical problems for the Navy and greatly increase the amount of time required to complete repair work. No other facility within 5,000 miles

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

MILCON P-235 October 1980

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

Program support

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

1 man/year

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

Projected facility utilization is not expected to exceed historical levels of FY89 - FY93.

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

1 man/year

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

1 man/year

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

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

Activity Name:	N00311 Pearl Harbor Naval Shipyard
Facility or Equipment Nomenclature or Title	SONAR TRANSDUCER REPAIR AND TEST FACILITY Building 1447

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

Transducer Repair and Test Facility/Electrostatic Epoxy. This is the painting facility for the transducers and hydrophones. The painting is done as part of the repair process.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by the definitions provided on the first page of this Tab.
Fixed

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

Replacement Value = \$500,00 facility
\$1.7 Million equipment

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

Gross Weight = Cube = 96,278 cubic feet

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

Compressed air, air handler

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

Sand blasting equipment and cleaning equipment

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

Permit for air emissions; on scrubbers required

(continued next page)

Facility or Equipment Nomenclature or Title: SONAR TRANSDUCER REPAIR AND TEST FACILITY, Building 1447, continued

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

No commercial or DOD activities are available in our region and none are expected to become available due to excessive start up costs. Transducer repair and support work could not be supported in this geographic area if the facility were lost. Relocating this facility to mainland activities will cause logistical problems for the Navy and greatly increase the amount of time required to complete repair work.

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

NAVSEA purchased \$1.7 Million equipment; MILCON P-235 Oct 1980

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

Program support

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

1 man/year

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

Projected facility utilization is not expected to exceed historical levels of FY89 - FY93.

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

1 man/year

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

0.25 man/year

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

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

Activity Name:	N00311 Pearl Harbor Naval Shipyard
Facility or Equipment Nomenclature or Title	SONAR REPAIR AND TEST FACILITY Building 1448

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

Transducer Repair and Test Facility. This facility is used to conduct tension tests on the SQR-14 TLTA Sonar system.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by the definitions provided on the first page of this Tab.

Fixed

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

Replacement Value = \$323,000

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

Gross Weight = Cube = 104,720 cubic feet

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

None

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

None

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

None

(continued next page)

Facility or Equipment Nomenclature or Title: SONAR REPAIR AND TEST FACILITY,
Building 1448, continued

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

No commercial or DOD activities are available in our region and none are expected to become available due to excessive start up costs. Transducer repair and support work could not be supported in this geographic area if the facility were lost. Relocating this facility to mainland activities will cause logistical problems for the Navy and greatly increase the amount of time required to complete repair work.

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

MILCON P-235 October 1980

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

Program support

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

Maintained in support of FMS, no current work load.

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

Projected facility utilization is not expected to exceed historical levels of FY89 - FY93.

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

None

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

None

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

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

Activity Name:	N00311 Pearl Harbor Naval Shipyard
Facility or Equipment Nomenclature or Title	TOWED ARRAY FACILITY Building 1464

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

Transducer Repair and Test Facility - Towed Array. This is the SQR-19 TLTA repair and restoration facility. The building has workbenches for repair and testing work and pressure vessels for pressure testing.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by the definitions provided on the first page of this Tab.

Fixed

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

Replacement Value = \$230,000
\$3.7 Million equipment

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

Gross Weight = Cube = 102,500 cubic feet

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

Compressed air; water

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

Pressure vessel

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

None

(continued next page)

Facility or Equipment Nomenclature or Title: TOWED ARRAY FACILITY, Building 1464, continued

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

No commercial or DOD activities are available in our region and none are expected to become available in our region and none are expected to become available due to excessive start up costs. Towed array repair and support work could not be supported in this geographical area if the facility were lost. Relocating this facility to mainland activities will cause logistical problems for the Navy and greatly increase the amount of time required to complete repair work. Nearest facility is 5,000 miles away.

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

OTHER MIL FUNDS, June 1987

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

Program support

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

3 man/year

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

Future workload is uncertain; 3 men/year (est.)

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

3 men/year

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

1 man/year

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

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

Activity Name:	Pearl Harbor Naval Shipyard
Facility or Equipment Nomenclature or Title	TRUCK CRANE T-50

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

The primary use is in the shipyard nuclear facility applications outside the access of SPS floating and portal crane services. It's unique in that it is SPS certified.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by the definitions provided on the first page of this Tab.

Portable.

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

Replacement Value = \$550,000

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

Gross Weight = 89,680#

Cube = 6,721

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

N/A

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

N/A

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

N/A

(continued next page)

Facility or Equipment Nomenclature or Title: TRUCK CRANE, continued

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

Equipment could be relocated but replication would be extremely difficult due to high cost, long procurement time, special features and certification if similar truck cranes were not available.

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

Transported by surface craft, 1987

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

Acquisition/Production

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

500 hours per year

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

500 hours per year for each year

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

2 each

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

4 each

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

PHOTO BEING FORWARDED WITH SEPARATE CERTIFICATION

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

Activity Name:	Pearl Harbor Naval Shipyard
Facility or Equipment Nomenclature or Title	FLOATING CRANE YD-121

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

Floating Crane provides waterborne fleet support in the Pearl Harbor basin. It's lifting capacity and reach exceeds locally available commercial floating crane capacity and reach. It's also SPS certified, therefore, the only floater on island which can lift heavy special components for nuclear work.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by the definitions provided on the first page of this Tab.

Portable

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

Replacement Value = \$20,000,000

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

Gross Weight = 1,500+ Tons Cube = 1,247,400

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

Drydocks to do overhauls

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

Docking facility

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

N/A

(continued next page)

Facility or Equipment Nomenclature or Title: FLOATING CRANE, continued

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

Equipment could be relocated provided proper docking facilities are available, but replication would be difficult due to high cost, long procurement time, special features and certification if a similar floating crane were not available.

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

Equipment was shipped to Hawaii and erected in yard, 1943/44

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

Acquisition/Production

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

875 hours per year

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

875 hours per year for each year

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

7 each

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

10 each

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

PHOTO BEING FORWARDED WITH SEPARATE CERTIFICATION

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

Activity Name:	Pearl Harbor Naval Shipyard
Facility or Equipment Nomenclature or Title Portal Cranes	PORTAL CRANES (10 each)

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

Portal Cranes provide the shipyard weight handling capability at all drydocks, ship repair piers, and waterfront areas travelling on a fixed rail system. Some portal cranes are SPS certified which meets NAVSEA requirements for lifting components used in nuclear work.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by the definitions provided on the first page of this Tab.

Fixed

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

Replacement Value = \$6,000,000 x 10 each = \$60,000,000

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

Gross Weight = 1,000,000# Cube = 120,064

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

Track system

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

Track modifications

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

N/A

(continued next page)

Facility or Equipment Nomenclature or Title: PORTAL CRANES, continued

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

Equipment could be relocated provided similar tracking is available at the new site. Equipment would be extremely difficult to replicate due to its track system, size, cost, features, procurement time, and certification.

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

Shipped equipment was erected in place, 1943/45

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

Acquisition/Production

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

1,000 hours per year

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

1,000 hours per year for each year

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

3 each

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

6 each

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

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

Activity Name:	Pearl Harbor Naval Shipyard
Facility or Equipment Nomenclature or Title	SPECIAL HULL TREATMENT ENCLOSURES (12 each)

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

To provide a closed, controlled environment around the hull of submarines to allow installation of rubber acoustic tiles for noise reduction.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by the definitions provided on the first page of this Tab.

Portable

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

Replacement Value = \$600,000 ea. X 12 = \$7,200,000

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

Gross Weight = 60,000 lbs. ea. Cube = 37,500' ea.

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

Service air for sandblasting and painting.

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

N/A

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

Enclosure temperature of 65 degrees F - 95 degrees F; steel surface temperature of 65 degrees F - 85 degrees F. Change of air at least four times per hour. Protection from high winds, rain, dust, direct sunlight. All incoming air must be filtered. Steel surfaces and material at least 5 degrees F above dewpoint. Slight positive pressure maintained.

(continued next page)

Facility or Equipment Nomenclature or Title: SPECIAL HULL TREATMENT ENCLOSURES , continued

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

No commercial or DoD activities are available in our region and none are expected due to high start-up costs and decreasing workload. The enclosures can be relocated out. There are no capable drydocks in the region to do SHT work.

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

Fabricated by PHNSY during fiscal years 1985, 1986, and 1987

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

Undersea platforms - utilized for installation of Special Hull Treatment tiles

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

3 months/year

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

2 months/year for fiscal years 1995, 1996, and 1997

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

Approximately 1 person

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

4 per enclosure

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

PHOTO BEING FORWARDED WITH SEPARATE CERTIFICATION

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

Activity Name:	Pearl Harbor Naval Shipyard
Facility or Equipment Nomenclature or Title	5,000 PSI HIGH PRESSURE (HP) AIR COMPRESSOR

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

The proposed project is required to provide a continuous high pressure, clean and dry air for charging and testing of shipboard systems on both surface and underwater vessels during overhaul periods and/or produce breathable air fit for human consumption.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by the definitions provided on the first page of this Tab.
Class 3 Personal Property (Plant Equipment) that is transported by crane. (Portable)

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

Replacement Value = \$600,000

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

Gross Weight = 19,000 lbs. Cube = 2,000 cu. ft.

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

Requires constant water pressure of 120 psi and temporary 440V shore power

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

N/A

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

N/A

(continued next page)

Facility or Equipment Nomenclature or Title: 5,000 PSI HIGH PRESSURE (HP) AIR COMPRESSOR, continued

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

Equipment could be relocated but replication would be difficult due to high cost, special features and long procurement time. Similar equipment is not available commercially, but even if it were, leasing is cost prohibitive for the government in the long term.

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

Shipped by freight and forwarded to Pearl Harbor in 1985 completely assembled

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

Acquisition/Production

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

FY89-93: 1,800 hours/year for each year

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

2,500 hrs/yr

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

2 persons

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

2 persons

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

PHOTO BEING FORWARDED WITH SEPARATE CERTIFICATION

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

Activity Name:	Pearl Harbor Naval Shipyard
Facility or Equipment Nomenclature or Title	BENDING ROLL MACHINE

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

Bending roll of 1-1/16" maximum, 16' long sheetmetal

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by the definitions provided on the first page of this Tab.
Fixed to permanent foundation

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

Replacement Value = \$703,218

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

Gross Weight = 143,344# Cube = 400'

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

None, electrical power only.

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

Special foundation required

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

No requirements

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

Equipment would be difficult to replicate and relocate because of the high cost of replacement of special capabilities and requirement of special foundation. Similar equipment is not available elsewhere within our region.

(continued next page)

Facility or Equipment Nomenclature or Title: BENDING ROLL MACHINE, continued

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

Installed 1987 per contract

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

Shipfitter Shop (Production)

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

100 hrs/yr

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

160 hrs/yr for 1994, 1995, 1996, and 1997

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

3 journeyman mechanics

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

2 mechanical mechanics

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

PHOTO BEING FORWARDED WITH SEPARATE CERTIFICATION

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

Activity Name:	Pearl Harbor Naval Shipyard
Facility or Equipment Nomenclature or Title	CNC PUNCH PRESS

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

Punching and contouring of sheetmetal with special plasma cutting capability

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by the definitions provided on the first page of this Tab.

Fixed to permanent foundation

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

Replacement Value = \$554,967

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

Gross Weight = 38,000 Cube = 3,840

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

None other than electrical power

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

Special foundation required

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

No requirements

(continued next page)

Facility or Equipment Nomenclature or Title: CNC PUNCH PRESS, continued

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

Equipment would be difficult to replicate and relocate because of the high cost of replacement of special capabilities and requirement of special foundation. Similar equipment is not available elsewhere within our region.

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

Installed 1989 per contract

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

Sheetmetal and shipfitter shops (Production)

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

800 hrs/yr

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

500 hrs/yr for 1994, 1995, 1996, and 1997

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

2 journeyman mechanic

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

2 mechanical, electronic

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

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

Activity Name:	Pearl Harbor Naval Shipyard
Facility or Equipment Nomenclature or Title	HYDROPTIC MILLING MACHINE

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

Perform boring and milling operations with computer numerical control for speed and accuracy within microinches of tolerance.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by the definitions provided on the first page of this Tab. Fixed

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

Replacement Value = \$625,000

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

Gross Weight = 43,000 lbs. Cube = 3,920

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

None

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

Cut/repair roof to drop the machine into place because of its size, special foundation to meet the machine's requirements, and safety shielding.

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

None

(continued next page)

Facility or Equipment Nomenclature or Title: HYDROPTIC MILLING MACHINE,
continued

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

Extremely difficult to relocate because of its size and foundation requirements. This machine is necessary to do sizable jobs expeditiously while holding close tolerance requirements and therefore meet schedules and avoid costly rework. Similar equipment is not available elsewhere within our region.

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

Machine was shipped from the Mainland in 1988

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

Acquisition/Production

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

600 hrs/yr

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

700 hrs/yr

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

3 operators/mechanics/programmers

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

1 mechanic

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

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

Activity Name	Pearl Harbor Naval Shipyard
Facility or Equipment Nomenclature or Title	CAMPBELL GRINDER

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

Equipment is used to do internal and external grinding work on ships' parts during overhaul work.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by the definitions provided on the first page of this Tab.
 Equipment is not portable, foundation required. Fixed.

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

Replacement Value = \$870,295

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

Gross Weight = 160,000# Cube = 4,788 cu ft

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

Equipment requires compressed air, electric power must be within +/-5% of voltage

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

Foundation required

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

None

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

Due to size, cost, time frame and foundation requirements, equipment would be difficult to relocate or replicate. Similar equipment is not available elsewhere within our region.

(continued next page)

Facility or Equipment Nomenclature or Title: CAMPBELL GRINDER, continued

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

Equipment was trucked across the country, transported across the Pacific Ocean via ship and installed on a prepared foundation in 1992

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

Acquisition/Production

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

Equipment was installed in FY 1992. Based on 2,087 hours per shift per year, utilization was 417 hours in 1993.

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

Based on 2,087 hours per shift per year, the projected utilization is 417 hours for 1994, 1995, 1996, and 1997

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

2 operator/programmers

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

2 maintenance mechanics

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

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

Activity Name:	Pearl Harbor Naval Shipyard
Facility or Equipment Nomenclature or Title	5 AXIS HORIZONTAL MACHINING CENTERS

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

Equipment used to manufacture propeller and impeller blades and can do most milling and drilling work for ships' parts during overhaul work.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by the definitions provided on the first page of this Tab.
Equipment is not portable - requires a foundation.

Fixed.

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

Replacement Value = \$1,344,019

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

Gross Weight = 115,000# Cube = 11,000 cu ft

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

Equipment requires compressed air and electric power must be within +/- 5% of voltage due to CNC features

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

Foundation required

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

None

(continued next page)

Facility or Equipment Nomenclature or Title: 5 AXIS HORIZONTAL MACHINING CENTERS, continued

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

Due to the size, cost, time frame and foundation required for the equipment, it would be difficult to replace or replicate. Similar equipment is not available elsewhere within our region.

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

Equipment was trucked across the country from Ohio, transported across the Pacific Ocean via ship, and installed on a prepared foundation. Delivered in 1993.

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

Acquisition/Modernization

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

Equipment was just installed on the Shop 31 Modernization Program during FY 1994. No utilization FY89-93.

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

Based on 2,087 hours per shift per year, it is projected that utilization will be as follows:

1994: 1,460 hrs 1995: 1,670 hrs 1996: 1,670 hrs 1997: 1,670 hrs

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

2 operator/programmers

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

2 maintenance mechanics

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

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

Activity Name:	Pearl Harbor Naval Shipyard
Facility or Equipment Nomenclature or Title	CNC SHAFT LATHE

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

Equipment is primarily used to refurbish shafts using CNC features. Has ability to check shaft concentricity and balance.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by the definitions provided on the first page of this Tab.
Equipment is not portable - requires foundation.

Fixed.

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

Replacement Value = \$2,058,095

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

Gross Weight = 1,080,000# Cube = 23,000 cu ft

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

Equipment requires compressed air, electric power must be within +/-5% of voltage due to CNC features

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

Foundation required

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

None

(continued next page)

Facility or Equipment Nomenclature or Title: CNC SHAFT LATHE, continued

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

Due to size, cost, time frame and foundation required, equipment will be difficult to relocate and replicate. Similar equipment is not available elsewhere within our region.

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

Equipment was trucked across country, transported across the Pacific Ocean via ship, unloaded onto trucks using floating cranes, and installed on a prepared foundation in FY 1991.

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

Acquisition/Production

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

Equipment was installed in FY 1991. Using 2,087 hours per shift per year, utilization has been: 1992: 835 hrs 1993: 835 hrs

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

Based on the 2,087 hours per shift per year, projected utilization is:
1994: 1,670 hrs 1995: 1,670 hrs 1996: 1,670 hrs 1997: 1,670 hrs

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

2 operator/programmers

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

2 maintenance mechanics

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

PHOTO BEING FORWARDED WITH SEPARATE CERTIFICATION

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

Activity Name:	Pearl Harbor Naval Shipyard
Facility or Equipment Nomenclature or Title	VERTICAL TURNING CENTER

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

Remachining and manufacture of valve components and submarine hatch assemblies for ship overhaul work.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by the definitions provided on the first page of this Tab.
Equipment is not portable, requires a foundation. Fixed.

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

Replacement Value = \$1,069,774

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

Gross Weight = 135,000# Cube = 10,500 cu ft

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

Equipment requires compressed air. Electric power must be within +/-5% of voltage due to the CNC feature.

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

Foundation required

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

None

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

Due to size, cost, time frame and foundation required for the equipment, it would be difficult to relocate and replicate. Similar equipment is not available elsewhere within our region.

(continued next page)

Facility or Equipment Nomenclature or Title: VERTICAL TURNING CENTER,
continued

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

Equipment was trucked across the country from Wisconsin, transported across the Pacific Ocean via ship and installed on a prepared foundation. Delivered in 1993.

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

Acquisition/Modernization

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

Equipment is new, just installed on the Shop 31 Modernization Program during FY 1994. No utilization FY89-93.

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

Based on 2,087 hours per shift per year, utilization is projected to be:

1994: 1,460 hrs 1995: 1,460 hrs 1996: 1,460 hrs 1997: 1,460 hrs

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

2 operator/programmers

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

2 maintenance mechanics

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

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

Activity Name:	Pearl Harbor Naval Shipyard
Facility or Equipment Nomenclature or Title	6" BORING MILLING MACHINE

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

Equipment will be used to machine rotor housings, as well as most boring, milling work. Also as a back-up method for machining sleeves for ship overhauls.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by the definitions provided on the first page of this Tab.
Equipment is not portable - special foundation is required.

Fixed.

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

Replacement Value = \$1,465,089

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

Gross Weight = 165,000# Cube = 13,800 cu ft

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

Equipment requires compressed air, electric power must be within +/-5% of voltage due to CNC features.

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

Special foundation required

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

None

(continued next page)

Facility or Equipment Nomenclature or Title: 6" BORING MILLING MACHINE,
continued

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

Due to size, cost, time frame and special foundation requirements, equipment would be difficult to relocate or replicate. Similar equipment is not available elsewhere within our region.

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

Equipment was trucked across country from Wisconsin, transported via ship across the Pacific Ocean, and installed on a prepared foundation. Delivered in 1993.

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

Acquisition/Modernization

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

Equipment was just installed on the Shop 31 Modernization Program, during FY 1994. No utilization FY89-93.

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

Based on 2,087 hours per shift per year, utilization is projected as follows:

1994: 950 hrs 1995: 1,774 hrs 1996: 1,774 hrs 1997: 1,774 hrs

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

2 operators/programmers

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

2 maintenance mechanics

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

PHOTO BEING FORWARDED WITH SEPARATE CERTIFICATION

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

Activity Name:	Pearl Harbor Naval Shipyard
Facility or Equipment Nomenclature or Title	PUMP AND VALVE TEST FACILITY EQUIPMENT

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

Operational testing of overhauled pumps and valves prior to shipboard installation.

2. Indicate whether the facility/equipment is portable, moveable or fixed as defined by the definitions provided on the first page of this Tab.
Fixed

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

Replacement Value = \$1,940,000

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

Gross Weight = 80,000 lbs Cube = 8,100

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

Demineralized water, No. 2 fuel oil, propane

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

Fuel oil tank and fluid flow test tanks must be located in containment berm to hold potential spills.

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

Fuel oil shall have a maximum sulfur content of 0.5% by weight

(continued next page)

Facility or Equipment Nomenclature or Title: PUMP AND VALVE TEST FACILITY
EQUIPMENT, continued

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

No commercial or DoD activities are available in our region and none are expected to become available. The facility could be relocated or replicated elsewhere at high cost. The equipment includes a high pressure steam generator, deaerator, demineralized water tank, fuel tank, valve test stand, silencer, and 3 fluid flow test tanks. The Department of the Navy would lose the ability to verify operational performance of pumps and valves prior to shipboard installation in the western and central Pacific regions.

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

Installation was completed 10/5/93 under contract to Interstate Construction Company

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

Acquisition/Modernization

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

N/A, installation completed 10/5/93

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

150 hrs/yr

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

5

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

3

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

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APPENDIX A

- I. FUNCTIONAL SUPPORT AREAS (PRODUCTS)
 - 1. PLATFORMS
 - 1.1 Undersea
 - 1.2 Aircraft
 - 1.3 Surface Ship
 - 1.4 Space Satellites
 - 1.5 Ground Vehicles
 - 2. WEAPONS SYSTEMS
 - 2.1 Gun Systems
 - 2.2 Guided Missiles
 - 2.3 Free Fall Weapons and Rockets
 - 2.4 Torpedoes
 - 2.5 Mines
 - 2.6 Directed Energy Systems
 - 2.7 Explosives
 - 2.8 Launchers
 - 2.9 Fire Control
 - 2.10 Weapons Data Links
 - 2.11 Weapons Fuzing
 - 2.12 Weapons Propulsion
 - 2.13 Other Ordnance
 - 2.14 Explosive Ordnance Disposal
 - 3. COMBAT SYSTEM INTEGRATION
 - 3.1 Subsurface
 - 3.2 Air
 - 3.3 Surface
 - 3.4 Multiplatform
 - 4. SPECIAL OPERATIONS SUPPORT
 - 4.1 Landing Force Equipment and Systems
 - 4.2 Coastal/Special Warfare Support
 - 5. SENSORS & SURVEILLANCE SYSTEMS
 - 5.1 Sonar Systems
 - 5.2 Radar Systems
 - 5.3 Special Sensors
 - 5.4 Space Sensor/Surveillance Systems
 - 5.5 Ocean Surveillance

APPENDIX A, continued

- I. FUNCTIONAL SUPPORT AREAS (PRODUCTS), continued
 - 6. NAVIGATION
 - 6.1 Submarine Navigation Systems
 - 6.2 Aircraft Navigation Systems
 - 6.3 Surface Ship Navigation Systems
 - 6.4 Weapons Navigation Systems
 - 6.5 Satellite Navigation Systems
 - 7. COMMAND, CONTROL, COMMUNICATIONS AND INTELLIGENCE (C3I)
 - 7.1 Submarine
 - 7.2 Airborne
 - 7.3 Shipboard
 - 7.4 Land-Based
 - 7.5 Space Communications Systems
 - 7.6 Non-Tactical Data Systems
 - 7.7 Air Traffic Control Systems
 - 7.8 Intelligence Information Systems
 - 8. DEFENSE SYSTEMS
 - 8.1 Ballistic Missile Defense
 - 8.2 Countermeasures (CM)
 - 8.3 Electronic Warfare (EW) Systems
 - 9. STRATEGIC PROGRAMS
 - 9.1 Navy Strategic Systems
 - 9.2 Nuclear Weapons and Effects
 - 10. GENERAL MISSION SUPPORT
 - 10.1 Personnel and Training
 - 10.1.1 Submarine-Related Training Systems
 - 10.1.2 Aircraft-Related Training Systems
 - 10.1.3 Surface Ship-Related Training Systems
 - 10.1.4 Weapons-Related Training Systems
 - 10.1.5 Human Resources Research and Development
 - 10.2 Logistics Planning and Implementation
 - 10.3 Facilities Engineering
 - 10.4 Diving, Salvage and Ocean Engineering
 - 10.5 Environmental Description, Prediction, and Effects
 - 10.6 Crew Equipment and Life Support
 - 10.6.1 Submarine
 - 10.6.2 Aircraft
 - 10.6.3 Surface Ship
 - 10.6.4 Medical Research and Combat Casualty Care
 - 10.6.5 Clothing and Textiles
 - 10.7 Major Range Development and Operation
 - 10.8 Other Subsidiary Systems or Components
 - 10.9 Activity Mission and Function Support

APPENDIX A, continued

I. FUNCTIONAL SUPPORT AREAS (PRODUCTS), continued

- 11. GENERIC TECHNOLOGY BASE.
[Includes basic research and exploratory development (Budget Categories 6.1 & 6.2) projects that do not fit under the more warfare-focused functional support areas.]
 - 11.1 Computers.
 - 11.2 Software.
 - 11.3 Communications Networking.
 - 11.4 Electronic Devices.
 - 11.5 Materials and Processes.
 - 11.6 Energy Storage.
 - 11.7 Propulsion and Energy Conversion.
 - 11.8 Design Automation.
 - 11.9 Human-System Interfaces.
 - 11.10 Other Technology Base Programs.

II. LIFE-CYCLE WORK AREAS

RDT&E

- 1. BASIC RESEARCH
- 2. EXPLORATORY DEVELOPMENT
- 3. ADVANCED DEVELOPMENT
- 4. ENGINEERING AND MANUFACTURING DEVELOPMENT
- 5. RDT&E MANAGEMENT SUPPORT
- 6. OPERATIONAL SYSTEMS DEVELOPMENT

ACQUISITION

- 7. PRODUCTION
- 8. ACCEPTANCE TESTING
- 9. MODERNIZATION
- 10. PROGRAM SUPPORT

LIFE -TIME SUPPORT

- 11. MAINTENANCE
- 12. REPAIR
- 13. TESTING
- 14. IN-SERVICE ENGINEERING
- 15. PROGRAM SUPPORT
- 16. RETIREMENT

GENERAL

- 17. TRAINING/OPERATIONAL SUPPORT
- 18. SIMULATION, MODELING AND ANALYSIS

APPENDIX B

I. FUNCTIONAL SUPPORT AREA DEFINITIONS

1. PLATFORMS. Those self-propelled, boosted or towed conveyances used for the strategic and tactical deployment of forces, weapons, materials and supplies in support of naval warfare. Projects within this area are limited to those in which the principal objective is to provide technological wherewithal to develop Navy aerospace craft, ships, submarines, boats, and amphibians.

1.1 Undersea. Self-propelled, boosted, or towed conveyances for transporting a burden under the sea. The vehicle package includes the design, structures, materials, non-nuclear propulsion, power and auxiliary equipment, transmissions and propulsors, fuels and lubricants, energy conservation and pollution abatement equipment, control systems, and silencing inherent in its construction and operation, but excluding mission oriented systems. Included are submarines and other submersibles including their application as unmanned autonomous vehicles (UAV) and targets.

1.2 Aircraft. Self-propelled, boosted, or towed conveyances for transporting a burden through the air. The vehicle package includes the design, structures, materials, non-nuclear propulsion, power and auxiliary equipment, transmissions and propulsors, fuels and control systems and silencing inherent in its construction and operation, but excluding mission oriented systems. Included are all air vehicles including their application as UAVs and targets.

1.3 Surface Ship. Self-propelled, boosted, or towed conveyances for transporting a burden on land or sea. The vehicle package includes the design, structures, materials, non-nuclear propulsion, power and auxiliary equipment, transmissions and propulsors, fuels and lubricants, energy conservation and pollution abatement equipment, control systems, and silencing inherent in its construction and operation, but excluding mission oriented systems. Included are ships and craft including their application as UAVs and targets.

1.4 Space Satellites. A device or spacecraft in orbit. The vehicle package includes the design, structures, materials, non-nuclear propulsion, power and auxiliary equipment, and control systems, inherent in its construction and operation.

1.5 Ground Vehicles. Self-propelled, boosted, or towed conveyances for transporting a burden on land. The vehicle package includes the design, structures, materials, non-nuclear propulsion, power and auxiliary equipment, transmissions and propulsors, fuels and lubricants, energy conservation and pollution abatement equipment, control systems, and silencing inherent in its construction and operation, but excluding mission oriented systems.

APPENDIX B

I. FUNCTIONAL SUPPORT AREA DEFINITIONS, cont nued

2. WEAPONS SYSTEMS. A system that provides the capability to defeat naval and military targets by destructive means. Included are counter-countermeasures and other design features to reduce the susceptibility of the weapon to counter actions, but excluded are those projects in which the principal objective is to counter a weapons system or those efforts to make a system (other than weapons) less vulnerable to enemy weapons.

2.1 Gun Systems. Ordnance which fires projectiles; includes related ammunition (guided projectiles are included in "guided missiles". Included are gun systems aboard aircraft and ships, and gun systems used by personnel.

2.2 Guided Missiles. Weapons, either self-propelled, (i.e., reaction launched) or impulse driven (i.e. gun/tube impulse launched) capable of homing on, or following a beam or command signals through the air to a target (includes guided projectiles). Included are missiles that are launched by submarine, aircraft, and ship.

2.3 Free Fall Weapons and Rockets. Free fall weapons are those air-delivered weapons, including components and subsystems, which follow a ballistic trajectory after gravity launch without any guidance other than that from the initial orientation and velocity of the launching aircraft. A rocket is a self-propelled airborne vehicle whose trajectory or course, while in flight, cannot be controlled.

2.4 Torpedoes. Self-propelled, guided or unguided underwater weapons. Included are torpedoes launched by submarine, aircraft, and ship.

2.5 Mines. Self-activating standoff or contact explosive devices that are designed to destroy or damage ground vehicles, boats, ships, or aircraft, or designed to wound, kill, or otherwise incapacitate personnel.

2.6 Directed Energy Systems. Devices and techniques for generating and focusing high-intensity beams of electromagnetic energy or charged particles upon targets with lethal effects.

2.7 Explosives. Metastable compounds which can rapidly release large quantities of energy mostly in the form of hot, high-pressure gases. Explosives are used in naval munitions such as mines, torpedoes, missiles, etc., and also in other Navy products such as aircraft escape systems, fuse trains, etc.

2.8 Launchers. That group of devices, components, or subsystems needed to support, hold, and launch expendable weapons, countermeasure devices, or other stores; the control systems for managing these systems and the stores they carry.

2.9 Fire Control. Those platform-based systems which provide data for and/or control the launch platform/weapon/weapon-target interaction in all phases required by a weapons system (e.g., acquisition, track, commit-to-fire-pre-launch, post-launch, mid-course, terminal intercept, and assessment). Included are systems that are based undersea, aboard aircraft, shipboard, and on land.

2.10 Weapons Data Links. Efforts include the data links that are part of the weapon's command, control and communications systems.

APPENDIX B

I. FUNCTIONAL SUPPORT AREA DEFINITIONS, continued

2.11 Weapons Fuzing. Efforts leading to the design of systems to sense a target or the result of other prescribed conditions such as time, barometric pressure, command, etc., and initiate a train of fire. Safing and arming are primary functions performed by a fuse to preclude initiation of the ammunition before the desired position or time.

2.12 Weapons Propulsion. Included are propellants, subsystems and systems that comprise the means by which a weapons system moves through the air or sea.

2.13 Other Ordnance. Includes efforts that do not fit in the above categories (e.g., pyrotechnics, gas generators, CAD/PAD/AEPS).

2.14 Explosive Ordnance Disposal. Efforts relating to the technical support of explosive ordnance disposal technology and training.

3. COMBAT SYSTEM INTEGRATION. That effort required to introduce a new system into the operating forces. It involves the integration and evaluation of a new hardware or software subsystem installed in a Navy platform. It includes the mating, installation, and operational support of the resulting higher level system to ensure optimum operating performance.

3.1 Subsurface. The integration and evaluation of the various hardware and software subsystems that make up a higher level system, and the mating, installation, and operational support of this higher level system, including its operational software and training systems into undersea platforms.

3.2 Air. The integration and evaluation of the various hardware and software subsystems that make up a higher level system, and the mating, installation, and operational support of this higher level system, including its operational software and training systems into air platforms.

3.3 Surface. The integration and evaluation of the various hardware and software subsystems that make up a higher level system, and the mating, installation, and operational support of this higher level system, including its operational software and training systems into surface platforms.

3.4 Multiplatform. The integration of multiplatform hardware and software subsystems to make up a higher level system, including the mating, installation, and operational support (including training systems) of this higher level system.

APPENDIX B

I. FUNCTIONAL SUPPORT AREA DEFINITIONS, continued

4. SPECIAL OPERATIONS SUPPORT. Those efforts which are in support of amphibious landing, Marine Corps operations, special warfare and other unique operations. It includes weapons, countermeasures, surveillance and a command support which are developed specifically for the projection of forces ashore and that do not have an application by the Navy general forces in the role of sea control.

4.1 Landing Force Equipment and Systems. Involved is that RDT&E effort which is not functionally a part of the amphibious platform. Specifically, this includes reconnaissance of amphibious objective areas, environmental support of amphibious operations, amphibious logistics and the integration of the amphibious and Marine Corps systems required to land amphibious forces on a hostile shore and establish a beachhead. (Contingency facilities in support of forces ashore are included in "facilities".)

4.2 Coastal/Special Warfare Support. Techniques and systems required to defend coastal, inshore and harbor facilities as well as those needed to conduct operations such as reconnaissance, deception, coastal or offshore interdiction and assault, counterinsurgency, intelligence gathering, remote sensor operation and waterborne intrusion detection. Special warfare systems include systems, techniques, and concepts utilized by specifically cross-trained personnel in unconventional warfare and coastal/riverine operations.

5. SENSORS & SURVEILLANCE SYSTEMS. Those systems used to systematically observe air, space, surface and subsurface areas to detect, classify, localize and identify real or potential military targets. Excluded are those projects in which the principal objective is navigation, weapon fire control or broadbased investigation of the properties of the media or the propagation of energy therein.

5.1 Sonar Systems. Those sonar systems and devices used to conduct search, reconnaissance, and surveillance operations to detect, classify, locate, and/or track targets. Included are those systems and devices that are mobile aboard undersea, air, and surface platforms, and those that are fixed.

5.2 Radar Systems. Those radar systems and devices used to conduct search, reconnaissance, or surveillance operations to detect, classify, locate, and/or track targets. Included are those systems and devices that are mobile aboard undersea, air, and surface platforms, and those that are fixed.

5.3 Special Sensors. Those systems and devices which utilize unique phenomena or methods or combinations of methods to conduct search, reconnaissance, or surveillance operations to detect, classify, locate, and/or track targets. Included are active sensors, passive sensors (e.g., thermal imagers, low light level TV, and infrared search and track systems), and the associated signal and image processing.

5.4 Space Sensor/Surveillance Systems. Those devices and systems in Earth orbit that are used to conduct search, reconnaissance, or surveillance operations to detect, classify, locate and/or track targets.

5.5 Ocean Surveillance. Systems and equipment for systematic observation of ocean areas for identification and localization of ships, submarines, and aircraft from fixed

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and mobile platforms including operational software development, and integration of multi-sensor, coordinated detection data and its display at appropriate sites.

APPENDIX B

I. FUNCTIONAL SUPPORT AREA DEFINITIONS, cont nued

6. NAVIGATION. Those systems which utilize electromagnetic, acoustic, or inertial means to guide or navigate surface, subsurface, or aerospace platforms. Included are those systems deployed aboard submarines, aircraft, surface ships and satellites, as well as those used in weapons systems.

6.1 Submarine Navigation Systems. Navigation systems deployed aboard submarines, or other undersea vehicles.

6.2 Aircraft Navigation Systems. Navigation systems deployed aboard aircraft.

6.3 Surface Ship Navigation Systems. Navigation systems deployed aboard surface ships.

6.4 Weapons Navigation Systems. Navigation systems installed within weapon systems, such as guided missiles.

6.5 Satellite Navigation Systems. Navigation systems deployed aboard satellites.

7. COMMAND, CONTROL, COMMUNICATIONS AND INTELLIGENCE (C3I). The acquisition, processing and dissemination of information required to plan, direct, and control operations. Included are those projects in command and control, communications and intelligence. Excluded are surveillance systems, and guidance and control of vehicles and weapons. These C3 systems may be internal or external to submarine, airborne, surface, and land-based platforms.

7.1 Submarine. C3 systems deployed aboard submarines, or other undersea vehicles.

7.2 Airborne. C3 systems deployed aboard aircraft.

7.3 Shipboard. C3 systems deployed aboard surface ships.

7.4 Land-Based. C3 systems deployed at shore facilities.

7.5 Space Communications. Communications systems in Earth orbit used to convey information.

7.6 Non-Tactical Data Systems. Data systems utilized aboard the Navy's operating forces and at shore sites that support ship, submarine and aircraft maintenance, configuration and asset management, supply, inventory, finance, medical, dental, manpower management, administration, food services (ship's mess) and resale operations (ship's stores).

7.7 Air Traffic Control Systems. Systems used to promote the safe, orderly, and expeditious movement of air traffic.

7.8 Intelligence Information Systems. The systems necessary to conduct the

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naval warfare task of intelligence. This task involves the assessment and management of information obtained via surveillance, reconnaissance, and other means to produce timely indications and warning, location, identification, intentions, technical capabilities, and tactics of potential enemies and other countries of interest.

APPENDIX B

I. FUNCTIONAL SUPPORT AREA DEFINITIONS, continued

8. DEFENSE SYSTEMS. Those systems that are principally designed to defeat a particular weapon system; those systems that are designed to reduce the effectiveness of an enemy's surveillance, communications, navigation and command and control; as well as those efforts directed toward gathering information on the emissions of enemy systems. It does not include those projects in which the principal objective is to incorporate design features in vehicles, surveillance, communication, navigation and other support systems which reduce their vulnerability to enemy action. It also does not include chemical/biological defense for personnel.

8.1 Ballistic Missile Defense. Systems designed to protect civilian population centers, military forces, and territory from ballistic missile attack.

8.2 Countermeasures (CM). Those systems that are principally designed to defeat a particular weapon system; reduce the effectiveness of an enemy's surveillance, communications, navigation and command and control; as well as gather information on the emissions of enemy systems. Included are those projects to develop systems deployed aboard submarine, aircraft, and surface ship, and those for countering enemy mine warfare through the destruction or neutralization of minefields.

8.3 Electronic Warfare (EW) Systems. Those systems, techniques, and devices utilized to determine, exploit, reduce, or prevent hostile use of the electromagnetic spectrum. Included are those projects to develop systems deployed aboard submarine, aircraft, and surface ship, as well as those to develop EW simulators.

9. STRATEGIC PROGRAMS. Programs conducted to support the deployment and use of the Navy's strategic deterrence force, as well as those programs conducted on nuclear weapons and effects.

9.1 Navy Strategic Systems. Those ships and weapon systems, subsystems, devices, techniques, trainers and facilities required specifically for the deployment and use of the Navy's strategic deterrence force.

9.2 Nuclear Weapons and Effects. Nuclear weapons effects and countermeasures, including thermal and nuclear radiation effects and the hardening of components and of weapons systems both nuclear and non-nuclear.

APPENDIX B

I. FUNCTIONAL SUPPORT AREA DEFINITIONS, continued

10. GENERAL MISSION SUPPORT. Those major areas of support required by Navy general forces that are not included under platforms, weapons systems, combat system integration, special operations support, sensors and surveillance systems, navigation, C3I, defense systems, strategic programs, and technology base programs.

10.1 Personnel and Training. Human resources research and development for the areas of manpower, personnel, education, and training and its support and service functions for human factors effort in system design, development and acquisition. Included are those systems related to submarine, aircraft, surface ship and weapons training, as well as human resources research.

- 10.1.1 Submarine-Related Training Systems
- 10.1.2 Aircraft-Related Training Systems
- 10.1.3 Surface Ship-Related Training Systems
- 10.1.4 Weapons-Related Training Systems
- 10.1.5 Human Resources Research and Development

10.2 Logistics Planning and Implementation. Projects for those aspects of military operations which deal with the movement, maintenance, supply, and support of Naval forces afloat and ashore, including underway replenishment, warehousing and mobile logistics maintenance and repair activities; material acquisition, control, handling, distribution and disposal processes; and logistics planning, control, and information processing functions.

10.3 Facilities Engineering. Products for (a) ocean facilities including the siting, design, construction/implant, and maintenance of facilities attached to the sea floor such as cable structures, pipelines, communications/power cables and Fleet moorings; (b) contingency facilities and equipment to support Navy and Marine Corps forces ashore in amphibious objective areas and at advanced naval bases; (c) permanent shore facilities such as buildings, piers, drydocks, airfields, POL and weapons storage, and utilities; (d) energy systems ashore including conservation, synthetic fuels, energy self-sufficiency; and (e) environmental protection systems ashore such as industrial waste water treatment plants, air and noise pollution control devices, and solid waste management systems.

10.4 Diving, Salvage and Ocean Engineering. Those support systems and equipment that are required by the Navy in the performance of ocean bottom search, diving, rescue, recovery, salvage operations, and siting, design, construction/implantment, inspection, maintenance and recovery of underwater facilities and associated systems.

10.5 Environmental Description, Prediction, and Effects. The study, modeling, and simulation of atmospheric, oceanic, terrestrial, and space environmental effects, both natural and man-made, including the interaction of a weapon system with its operating medium and man-produced phenomena such as obscurants found on the battlefield.

10.6 Crew Equipment and Life Support. Techniques, equipment and devices to provide protection for and support of Navy operating personnel, including chemical/biological defense. Included are systems aboard submarines, aircraft, and surface ships, as well as medical research and combat casualty care, and clothing and textiles.

- 10.6.1 Submarine
- 10.6.2 Aircraft

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- 10.6.3 Surface Ship
- 10.6.4 Medical Research and Combat Casualty Care
- 10.6.5 Clothing and Textiles

APPENDIX B

I. FUNCTIONAL SUPPORT AREA DEFINITIONS, continued

10. GENERAL MISSION SUPPORT, continued

10.7 Major Range Development and Operation. The design, equipping, and operation of ranges offering diverse and accurate measurement and reconstruction capabilities to establish performance profile data on newly designed, as well as existing, naval vehicles and systems operating in a realistic environment.

10.8 Other Subsidiary Systems or Components. Subsidiary systems or components that do not fit within the above product areas (e.g., batteries).

10.9 Activity Mission and Function Support. Efforts that clearly support the Activity's responsibilities but which cannot be uniquely assigned to a specific functional area.

11. GENERIC TECHNOLOGY BASE. Includes basic research and exploratory development (Budget Categories 6.1 & 6.2) projects that do not fit under the more warfare-focused functional support areas. These areas include computers, software, communications networking, electronic devices, materials and processes, energy storage, propulsion and energy conversion, design automation, human-system interfaces, and other technology base areas.

11.1 Computers. High performance computing systems (and their software operating systems) providing orders-of-magnitude improvements in computational and communications capabilities as a result of improvements in hardware, architectural designs, networking, and computational methods.

11.2 Software. The tools and techniques that facilitate the timely generation, maintenance, and enhancement of affordable and reliable applications software, including software for distributed systems, data base software, artificial intelligence, and neural nets.

11.3 Communications Networking. The timely, reliable, and secure production and worldwide dissemination of information, using shared communications media and common hardware and applications software from originators to DoD consumers, in support of joint-Service mission planning, simulation, rehearsal, and execution.

11.4 Electronic Devices. Ultra-small (nanoscale) electronic and optoelectronic devices, combined with electronic packaging and photonics, for high speed computers, data storage modules, communications systems, advanced sensors, signal processing, radar, imaging systems, and automatic control.

11.5 Materials and Processes. Development of man-made materials (e.g., composites, electronic and photonic materials, smart materials) for improved structures, higher temperature engines, signature reduction, and electronics, and the synthesis and processing required for their application.

11.6 Energy Storage. The safe, compact storage of electrical or chemical energy, including energetic materials for military systems.

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11.7 Propulsion and Energy Conversion. The efficient conversion of stored energy into usable forms, as in fuel efficient aircraft turbine engines and hypersonic systems.

APPENDIX B

I. FUNCTIONAL SUPPORT AREA DEFINITIONS, continued

11. GENERIC TECHNOLOGY BASE, continued.

11.8 Design Automation. Computer-aided design, concurrent engineering, simulation, and modeling; including the computational aspects of fluid dynamics, electromagnetics, advanced structures, structural dynamics, and other automated design processes.

11.9 Human-System Interfaces. The machine integration and interpretation of data and its presentation in a form convenient to the human operator; displays; human intelligence emulated in computational devices; and simulation and synthetic environments.

11.10 Other Technology Base Programs. All technology base programs (Budget Categories 6.1 and 6.2 only) that do not fit into the above warfare-focused functional support areas (#1 - #10), or within the above generic technology base areas (#11.1 - #11.9).

II. LIFE-CYCLE WORK AREA DEFINITIONS

RDT&E

1. BASIC RESEARCH. (Budget Category 6.1 only) This area includes scientific study and experimentation to increase knowledge and understanding in the physical, engineering, environmental and life sciences related to long-term national security needs.

2. EXPLORATORY DEVELOPMENT. (Budget Category 6.2 only) This area includes efforts to solve specific military problems, short of major development. Exploratory development may vary from fairly fundamental applied research to sophisticated breadboard hardware, study programming and planning efforts.

3. ADVANCED DEVELOPMENT. (Budget Category 6.3 only) This area includes efforts on projects which have moved into the development of hardware for test. The prime objective is proof of design concept rather than the development of hardware for service use.

4. ENGINEERING AND MANUFACTURING DEVELOPMENT. (Budget Category 6.4 only) This area includes programs in full scale development, but which have not received approval for production or had production funds included in the DoD budget submission for the budget or subsequent fiscal year.

5. RDT&E MANAGEMENT SUPPORT. (Budget Category 6.5 only) This area includes support of installations or operations required for general research and development use. Included would be test ranges, military construction, maintenance support of laboratories, operations and maintenance of test aircraft and ships, and studies and analyses in support of the R&D program.

6. OPERATIONAL SYSTEMS DEVELOPMENT. (Budget Category 6.6 only) This

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ACTIVITY: N00311

area includes projects still in full-scale development, but which have received approval for production through Defense Acquisition Board or other action, or for which production funds have been included in the DoD budget submission for the budget or subsequent fiscal year. All work in this area is identified by major line item projects that appear as "RDT&E Costs of Weapon System Elements" in other programs.

APPENDIX B

II. LIFE-CYCLE WORK AREA DEFINITIONS, continued

ACQUISITION

7. **PRODUCTION.** During this phase, the system, including training equipment, spares, etc., is produced for operational use.
8. **ACCEPTANCE TESTING.** This phase involves the test and evaluation of production items to demonstrate that the items procured fulfill the requirements and specifications of the procuring contract on agreement.
9. **MODERNIZATION.** This phase of the work involves the modification, upgrade, or improvement of a system or subsystem.
10. **PROGRAM SUPPORT.** This phase involves all work not fully under the category of production (#7), acceptance testing (#8), or modernization (#9), that occurs during the acquisition of new systems or subsystems.

LIFE-TIME SUPPORT

11. **MAINTENANCE.** This phase of work involves the maintenance of systems and subsystems.
12. **REPAIR.** This phase of work involves the repair of systems or subsystems.
13. **TESTING.** This phase is typically funded from Budget Category 6.5 or procurement program elements. Work in this area supports developmental and/or operational testing and focuses on the evaluation of system safety, technical performance, environmental (climatic, electromagnetic, etc.) effects, sustainability and operational suitability, maturity of production processes, and compliance with the specifications and quality standards.
14. **IN-SERVICE ENGINEERING.** This phase is typically funded from Budget Category 6.6 or operations and maintenance (O&M) program elements. In-service engineering tends to focus on system peculiar capabilities in order to conduct check-out of the system and/or subsystem after they have undergone a modification, upgrade or improvement.
15. **PROGRAM SUPPORT.** This phase involves all work not falling under the categories of maintenance (#11), repair (#12), testing (#13), in-service engineering (#14) and retirement (#16) that occur during the life-time support of new systems and/or subsystems.
16. **RETIREMENT.** This phase includes the retirement and disposal of obsolete systems and/or subsystems.

APPENDIX B

II. LIFE-CYCLE WORK AREA DEFINITIONS, continued

GENERAL

17. TRAINING/OPERATIONAL SUPPORT. Efforts in this area, involve the training of operational forces in the use of new techniques, equipment and systems, tactics or doctrine. Training and operational support is typically funded from O&M program elements.

18. SIMULATION, MODELING AND ANALYSIS. This phase of work provides a simulated test environment or representation of systems, components and platforms. This work can be carried out throughout the development and test process as analytical tools, as well as tools to drive or control electronic and other environmental stimuli.

Data Being Certified: BRAC 95 Data Call Number 42, Pearl Harbor Naval Shipyard

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

NEXT ECHELON LEVEL (if applicable)

William H. Ryzewic

NAME (Please type or print)

W. H. Ryzewic
Signature

Executive Director for Naval Shipyard
and SUPSHIP Management and Field
Activity Support Directorate

Title

Date

6/27/94

Naval Sea Systems Command

Activity

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

MAJOR CLAIMANT LEVEL

G. R. STERNER

NAME (Please type or print)

Signature

G. R. Sterner

Title

Date

7-5-94

Naval Sea Systems Command

Activity

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

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

W. A. EARNER

NAME (Please type or print)

Signature

W. A. Earner

Title

Date

8/10/94

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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

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

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

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

ACTIVITY COMMANDER

Fred H. Gehrman, CAPT, USN
NAME (Please type or print)

Signature



Commander
Title

Date

24 June 1994

Pearl Harbor Naval Shipyard
Activity

BRAC 95 Data Call #42, Military Value Data Call (Less Photographs)

116

UIC N00311

Data Being Certified: BRAC 95 Data Call Number 42, Revision, Pearl Harbor Naval Shipyard pg 24

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

NEXT ECHELON LEVEL (if applicable)

Edward L. Shelton

E. Shelton

NAME (Please type or print)

Signature

Deputy Commander for Naval Shipyard
and SUPSHIP Management and Field
Activity Support Directorate
(Acting)

9/15/94

Title

Date

Naval Sea Systems Command

Activity

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

MAJOR CLAIMANT LEVEL

S. L. Sterner

NAME (Please type or print)

Signature

~~W. A. STERNER~~
Commander
Naval Sea Systems Command

9/15/94

Title

Date

Activity

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

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

W. A. EARNER

W. A. Earner

NAME (Please type or print)

Signature

9/21/94

Title

Date

BRAC-95 CERTIFICATION

pg 24

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ACTIVITY COMMANDER

Fred H. Gehrman, Jr., CAPT, USN
NAME (Please type or print)


Signature

Commander
Title

14 September 1994
Date

Pearl Harbor Naval Shipyard
Activity

Data Call Number 42, Military Value, Mission Area Section 2, Operating Factors, paragraph 2.4

116

UIC N00311

Data Being Certified: BRAC 95 Data Call Number 42 Amendment 1. Pearl Harbor Naval Shipyard

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

Edward L. Shelton

NEXT ECHELON LEVEL (if applicable)

Table 8.2
(14 pages)

NAME (Please type or print)

Signature

Deputy Commander for Naval Shipyard
and SUPSHIP Management and Field
Activity Support Directorate
(Acting)

9/15/94

Title

Date

Naval Sea Systems Command

Activity

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

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

Signature

G. R. STERNER
Commander

9/15/94

Title Naval Sea Systems Command Date

Activity

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

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

~~W. A. EARNER~~

NAME (Please type or print)

Signature

W. A. Earner

9/20/94

Title

Date

table 8.2 (4 pages)

BRAC-95 CERTIFICATION

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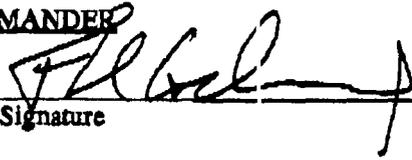
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ACTIVITY COMMANDER

Fred H. Gehrman, Jr., CAPT, USN
NAME (Please type or print)


Signature

Commander
Title

14 September 1994
Date

Pearl Harbor Naval Shipyard
Activity

Data Call Number 42, Military Value, Amendment 1

116

UIC N00311

Data Being Certified: BRAC 95 Data Call Number 42, Revisions, Pearl Harbor Naval Shipyard

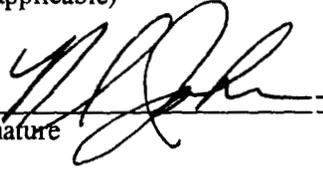
I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

Robert S. Johnson

NAME (Please type or print)

Signature



Director, Field Activity Support Group
Naval Shipyard and SUPSHIP Management
and Field Activity Support Directorate

Title

Date

10/2/94

Naval Sea Systems Command

Activity

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

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

Signature



G. R. STERNER

Commander
Naval Sea Systems Command

Date

10-4-94

Activity

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

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

J. B. GREENE, JR.

NAME (Please type or print)

Signature



ACTING

Title

Date

13 OCT 1994

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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

ACTIVITY COMMANDER

Reginald J. Erman, CAPT, USN
NAME (Please type or print)

Signature

Acting Commander
Title

Pearl Harbor Naval Shipyard
Activity

Data being certified:

Data Call Number Forty-two Tables 1.2a, 1.2b, 1.2c, 1.2d (revision of
30 Sep 1994)

PHOTO BEING FORWARDED WITH SEPARATE CERTIFICATION

116

7 September, 1994

**CAPACITY ANALYSIS:
DATA CALL WORK SHEET FOR
NAVAL SHIPYARDS
AND
NAVAL SHIP REPAIR FACILITIES**

Category **INDUSTRIAL ACTIVITIES**
Type **NAVAL SHIPYARDS**

Claimants **COMNAVSEASYSKOM (Shipyards)**
 CINCPACFLT (Ship Repair Facility)

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. Unless otherwise specified, for questions addressing maximum workload within the Mission Area of the Data Call, base your response on an eight hour day/five day notional normal work week (1-8-5). Please identify any processes which, under normal operations, operate on a different schedule in item 40.

3. Report Direct Labor Man Years (DLMYs) in thousands of Man Years, to the nearest tenth, e.g. 32.2 K DLMYs.

4. Core workloads are to be calculated in accordance with the Office of the Under Secretary of Defense (Logistics) (OUSD(L)) Memorandum dated 15 November 1993 (subject: "Policy for Maintaining Core Depot Maintenance Capability"). Core workload includes all Core work performed for other Military Departments.

5. Report workload performed on non-DON vessels (e.g. MSC, USCG) within the workload mission area most consistent with the work performed, specifying the vessel type in the first column. Ensure that all workload performed and projected to be performed is reported.

6. Maximum Potential Workload calculations based on a workforce of 2550, although the facilities can accommodate 4000.

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

Note: The Box below breaks out Defense Department Depot Maintenance and Industrial activities by Commodity Groups for further assessment. The highlighted items have been incorporated into this Data Call. If your activity performs work in any other area, please include such workload and so annotate your Data Call response.

JCSG-DM: Maintenance and Industrial Activities

Commodity Groups List	
<p>1. Aircraft Airframes: Rotary VSTOL Fixed Wing Transport / Tanker / Bomber / Command and Control Light Combat Admin / Training Other</p>	<p>7. Ground and Shipboard Communications and Electronic Equipment Radar Radio Communications Wire Communications Electronic Warfare Navigational Aids Electro-Optics / Night Vision Satellite Control / Space Sensors</p>
<p>2. Aircraft Components Dynamic Components Aircraft Structures Hydraulic/Pneumatic Instruments Landing Gear Aviation Ordnance Avionics/Electronics APUs Other</p>	<p>8. Automotive / Construction Equipment</p> <p>9. Tactical Vehicles Tactical Automotive Vehicles Components</p>
<p>3. Engines (Gas Turbine) Aircraft Ship Tank Blades / Vanes (Type 2)</p>	<p>10. Ground General Purpose Items Ground Support Equipment (except aircraft) Small Arms / Personal Weapons Munitions / Ordnance Ground Generators Other</p>
<p>4. Missiles and Missile Components Strategic Tactical / MLRS</p>	<p>11. Sea Systems Ships Weapons Systems</p>
<p>5. Amphibians Vehicles Components (less GTE)</p>	<p>12. Software Tactical Systems Support Equipment</p>
<p>6. Ground Combat Vehicles Self-propelled Tanks Towed Combat Vehicles Components (less GTE)</p>	<p>13. Special Interest Items Bearings Refurbishment Calibration (Type I) TMDE</p> <p>14. Other</p>

CAPACITY ANALYSIS DATA CALL NAVAL SHIPYARDS

Questions for the Activities

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Table of Acronyms

ADMIN	Administration; administrative	N / A	Nct Applicable
AICUZ	Air Installations Compatible Use Zone	NAVAID	Aid to Navigation
CCN	Category Code Number	NDT	?
CGN	Cruiser (nuclear propulsion)	NSYD	Naval Shipyard
CHT	Collection, Holding & Transfer	Nuc	Nuclear (Propulsion)
CIA	Controlled Industrial Area	OOS	Out of Service
COH	Complex Overhaul	OPW	Other Productive Work
Conv	Conventional (Propulsion)	PIA	Phased Incremental Availability
CV	Aircraft Carrier (conventional propulsion)	PM	Phased Maintenance
CVN	Aircraft Carrier (nuclear propulsion)	PMA	Phased Maintenance Availability
DLMY	Direct Labor Man Years	POM	Program Objective Memorandum
DMP	Depot Modernization Period	PSI	Pounds per square inch
DPIA	Docking Phased Incremental Availability	QA	Quality Assurance
DPMA	Drydocking Phased Maintenance Availability	RADCON	Radiological Control
DSRA	Drydocking Selected Restricted Availability	RATA	Restricted Availability / Technical Availability
E-O/NV	Electro-Optics / Night Vision	RCOH	Refueling Complex Overhaul
EDSR	Engineered Docking Selected Restricted Availability	RFOH	Refueling Regular Overhaul
EOH	Engineered Overhaul	ROH	Regular Overhaul
ERO	Engineered Refueling Overhaul	RO/RO	Roll On / Roll Off
ERP	Extended Refit Period	SCO	Service Craft Overhaul
ESQD	Explosive Safety Quantity Distance	SC/SS	Satellite Control / Space Systems
ESRA	Engineered Selected Restricted Availability	SF	Square Feet
EW	Electronic Warfare	SRA	Selected Restricted Availability
FY	Fiscal Years	SRF	Ship Repair Facility
GP	General Purpose	SSBN	Ballistic Missile Submarine (nuclear propulsion)
GPD	Gallons per Day	SSN	Attack Submarine (nuclear propulsion)
HERF	Hazardous Electronic Radiation - Fuel	Svc	Services
HERO	Hazardous Electronic Radiation - Ordnance	UIC	Unit Identification Code
HERP	Hazardous Electronic Radiation - Personnel		
INACT	Inactivation		
IPE	Industrial Plant Equipment		
KSF	Thousands of Square Feet		
KVA	Kilo Volts Amperes		
Mech	Mechanical		
MILCON	Military Construction		
MLLW	Mean Low Low Water		

**DATA CALL FOR CAPACITY ANALYSES
Naval Shipyards and Naval Ship Repair Facilities**

Primary UIC: N00311

(Use this number as Activity identification at top of every page)

Mission Area

1. Shipwork (Nuclear - CVN COH)

1.1. Given the current configuration of the shipyard, provide the Direct Labor Man Years (DLMYs) for the CVN Complex Overhauls (COH) by ship hull number that were realized or are projected for this type of work through the period requested in the Tables.

Table 1.1a Historic / Predicted Work - CVN COH

(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Total								

Table 1.1b Historic / Predicted Work - CVN COH

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total								

1. Shipwork (Nuclear - CVN COH), continued

Answer the remaining CVN COH questions (Section 1.) only if your shipyard has some CVN workload scheduled, as reflected in Table 1.1.

1.2. Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the CVN COH capability at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to CVN COHs without a significant increase in overhead costs and/or rates, assuming that you also have to execute the above workload and meet that cost schedule commitment to your customers.

Table 1.2 Maximum Potential Workload - CVN COH

CVN COH	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total							

1.3. What plant modifications, infrastructure, IPE and/or other facility improvements could be performed that would significantly open up additional CVN COH capability at this shipyard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period and return on investment?

1.4 Are there any environmental, legal, or otherwise limiting factors that inhibit this shipyard's CVN COH present operations and/or development (encroachments, pollutant discharge, etc.)?

2. Shipwork (Nuclear - CVN RCOH)

2.1. Given the current configuration of the shipyard, provide the DLMYs for the CVN Refuelling Complex Overhauls (RCOH) by ship hull number that were realized or are projected for this type of work through the period requested in the Tables.

Table 2.1a Historic / Predicted Work - CVN RCOH

(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Total								

Table 2.1b: Historic / Predicted Work - CVN RCOH

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total								

2. Shipwork (Nuclear - CVN RCOH), continued

Answer the remaining CVN RCOH questions (Section 2.) only if your shipyard has some CVN workload scheduled, as reflected in Table 2.1.

2.2. Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the CVN RCOH capability at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to CVN RCOHs without a significant increase in overhead costs and/or rates, assuming that you also have to execute the above workload and meet your cost schedule commitment to your customers.

Table 2.2 Maximum Potential Workload - CVN RCOH

CVN RCOH	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total							

2.3. What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional CVN RCOH capability at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

2.4. Are there any environmental, legal, or otherwise limiting factors that inhibit your CVN RCOH present operations and/or development (encroachments, pollutant discharge, etc.)?

3. Shipwork (Nuclear - CVN DSRA)

3.1. Given the current configuration of the yard, provide DLMYs for the CVN Docking Selected Restricted Availability (DSRA) that were realized or are projected for this type of work through the period requested in the Tables. Report Engineered Docking Selected Restricted Availability (EDSR) and Docking Phased Incremental Availability (DPIA) in the following section.

Table 3.1.a Historic / Predicted Work - CVN DSRA

(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Total								

Table 3.1.b Historic / Predicted Work - CVN DSRA

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total								

3. Shipwork (Nuclear - CVN DSRA), continued

Answer the remaining CVN DSRA questions (Section 3.) only if your shipyard has some CVN workload scheduled, as reflected in Tables 3.1, 4.1 or 5.1.

3.2. Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the CVN DSRA capability at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to CVN docking availabilities without a significant increase in overhead cost/rates, assuming that you also have to execute the above workload and meet your cost schedule commitment to your customer.

Table 3.2 **Maximum Potential Workload - CVN DSRA**

CVN DSRA	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total							

3.3. What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional CVN DSRA capability at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

3.4. Are there any environmental, legal, or otherwise limiting factors that inhibit your CVN DSRA present operations and/or development (encroachments, pollutant discharge, etc.)?

4. Shipwork (Nuclear - CVN EDSR)

4.1. Given the current configuration of the yard, provide DLMYs for the CVN Engineered Docking Selected Restricted Availability (EDSR) that were realized or are projected for this type of work through the period requested in the Tables. Report Docking Selected Restricted Availability (DSRA) in the section previous; report Docking Phased Incremental Availability (DPIA) in the section following.

Table 4.1.a Historic / Predicted Work - CVN EDSR

(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Total								

Table 4.1.b Historic / Predicted Work - CVN EDSR

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total								

4. Shipwork (Nuclear - CVN EDSR), continued

Answer the remaining CVN EDSR questions (Section 4.) only if your shipyard has some CVN workload scheduled, as reflected in Tables 3.1, 4.1 or 5.1.

4.2. Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the CVN EDSR capability at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to CVN docking availabilities without a significant increase in overhead cost/rates, assuming that you also have to execute the above workload and meet your cost schedule commitment to your customer.

Table 4.2 Maximum Potential Workload - CVN EDSR

CVN DSRA	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total							

4.3. What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional CVN EDSR capability at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

4.4. Are there any environmental, legal, or otherwise limiting factors that inhibit your CVN EDSR present operations and/or development (encroachments, pollutant discharge, etc.)?

5. Shipwork (Nuclear - CVN DPIA)

5.1. Given the current configuration of the yard, provide DLMYs for the CVN Docking Phased Incremental Availability (DPIA) that were realized or are projected for this type of work through the period requested in the Tables. Report Docking Selected Restricted Availability (DSRA) and Engineered Docking Selected Restricted Availability (EDSR) in the previous sections.

Table 5.1.a Historic / Predicted Work - CVN DPIA

(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Total								

Table 5.1.b Historic / Predicted Work - CVN DPIA

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total								

5. Shipwork (Nuclear - CVN DPIA), continued

Answer the remaining CVN DPIA questions (Section 5.) only if your shipyard has some CVN workload scheduled, as reflected in Tables 3.1, 4.1 or 5.1.

5.2. Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the CVN DPIA capability at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to CVN docking availabilities without a significant increase in overhead cost/rates, assuming that you also have to execute the above workload and meet your cost schedule commitment to your customer.

Table 5.2 **Maximum Potential Workload - CVN DPIA**

CVN DSRA	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total							

5.3. What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional CVN DPIA capability at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

5.4. Are there any environmental, legal, or otherwise limiting factors that inhibit your CVN DPIA present operations and/or development (encroachments, pollutant discharge, etc.)?

6. Shipwork (Nuclear - CVN SRA)

6.1 Given the current configuration of the shipyard, provide by ship hull number the DLMYs for the CVN Selected Restricted Availability (SRA) that were realized or are projected for this type of work through the period requested in the Tables. Report Engineered Selected Restricted Availabilities (ESRA) and Phased Incremental Availabilities (PIA) in the sections following.

Table 6.1.a: Historic / Predicted Work - CVN SRA

(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Total								

Table 6.1.b: Historic / Predicted Work - CVN SRA

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total								

6. Shipwork (Nuclear - CVN SRA), continued

Answer the remaining CVN SRA questions (Section 6.) only if your shipyard has some CVN workload scheduled, as reflected in Tables 6.1, 7.1 or 8.1.

6.2 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed what is the maximum extent to which the CVN SRA capability at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to CVN non-docking availabilities without a significant increase in overhead cost/rates, assuming that you also have to execute the above workload and meet your cost schedule commitment to your customers.

Table 6.2 Maximum Potential Workload - CVN SRA

CVN SRA	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total							

6.3 What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional CVN SRA capacity at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

6.4. Are there any environmental, legal, or otherwise limiting factors that inhibit your CVN SRA present operations and/or development (encroachments, pollutant discharge, etc.)?

7. Shipwork (Nuclear - CVN ESRA)

7.1 Given the current configuration of the shipyard, provide by ship hull number the DLMYs for the CVN Engineered Selected Restricted Availability (ESRA) that were realized or are projected for this type of work through the period requested in the Tables. Report Selected Restricted Availability (SRA) in the previous section; report Phased Incremental Availability (PIA) in the following section.

Table 7.1.a: Historic / Predicted Work - CVN ESRA

(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Total								

Table 7.1.b: Historic / Predicted Work - CVN ESRA

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total								

7. Shipwork (Nuclear - CVN ESRA), continued

Answer the remaining CVN ESRA questions (Section 7.) only if your shipyard has some CVN workload scheduled, as reflected in Tables 6.1, 7.1 or 8.1.

7.2 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed what is the maximum extent to which the CVN ESRA capability at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to CVN non-docking availabilities without a significant increase in overhead cost/rates, assuming that you also have to execute the above workload and meet your cost schedule commitment to your customers.

Table 7.2 Maximum Potential Workload - CVN ESRA

CVN SRA	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total							

7.3 What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional CVN ESRA capability at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

7.4. Are there any environmental, legal, or otherwise limiting factors that inhibit your CVN ESRA present operations and/or development (encroachments, pollutant discharge, etc.)?

8. Shipwork (Nuclear - CVN PIA)

8.1 Given the current configuration of the shipyard, provide by ship hull number the DLMYs for the CVN Phased Incremental Availability (PIA) that were realized or are projected for this type of work through the period requested in the Tables. Report Selected Restricted Availabilities (SRA) and Engineered Selected Restricted Availabilities (ESRA) in the previous sections.

Table 8.1.a: Historic / Predicted Work - CVN PIA

(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Total								

Table 8.1.b: Historic / Predicted Work - CVN PIA

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total								

8. Shipwork (Nuclear - CVN PIA), continued

Answer the remaining CVN PIA questions (Section 8.) only if your shipyard has some CVN workload scheduled, as reflected in Tables 6.1, 7.1 or 3.1.

8.2 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed what is the maximum extent to which the CVN PIA capability at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to CVN non-docking availabilities without a significant increase in overhead cost/rates, assuming that you also have to execute the above workload and meet your cost schedule commitment to your customers.

Table 8.2 Maximum Potential Workload - CVN PIA

CVN SRA	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total							

8.3 What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional CVN PIA capability at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

8.4. Are there any environmental, legal, or otherwise limiting factors that inhibit your CVN PIA present operations and/or development (encroachments, pollutant discharge, etc.)?

9. Shipwork (Nuclear - SSBN Inactivation)

9.1 Given the current configuration of the yard, provide by ship's hull number DLMYs for the SSBN inactivations that were realized or are projected for this type of work through the period requested in the Tables.

Table 9.1.a: Historic/ Predicted Work - SSBN Inactivations

(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Total								

Table 9.1.b: Historic/ Predicted Work - SSBN Inactivations

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total								

9. Shipwork (Nuclear - SSBN Inactivation), continued

Answer the remaining SSBN Inactivation questions (Section 9.) only if your shipyard has some SSBN workload scheduled, as reflected in Table 9.1.

9.2 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the SSBN inactivation capability at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to SSBN inactivations without a significant increase in overhead costs and/or rates, assuming that you also have to execute the above workload and meet your cost schedule commitment to your customers.

Table 9.2: Maximum Potential Workload - SSBN Inactivations

SSBN HULL#	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total							

9.3 What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional SSBN inactivation capability at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

9.4 Are there any environmental, legal, or otherwise limiting factors that inhibit your SSBN inactivation present operations and/or development (encroachments, pollutant discharge, etc.)?

10. Shipwork (Nuclear - SSBN ERP)

10.1 Given the current configuration of the yard, provide by ship's hull number DLMYs for the SSBN Extended Refit Period (ERP) that were realized or are projected for this type of work for SSBN 726 class (TRIDENT) through the period requested in the Tables.

Table 10.1.a: Historic/ Predicted Work - SSBN ERP

(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Total								

Table 10.1.b: Historic/ Predicted Work - SSBN ERP

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total								

10. Shipwork (Nuclear - SSBN ERPs), continued

Answer the remaining SSBN ERP questions (Section 10.) only if your shipyard has some SSBN workload scheduled, as reflected in Table 10.1. Provide these answers in terms of additional SSBN 726 (TRIDENT) class workload only.

10.2 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the SSBN Extended Refit Period capability at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to SSBN refits without a significant increase in overhead cost/rates assuming that you also have to execute the above workload and meet your cost schedule commitment to your customer.

Table 10.2 Maximum Potential Workload - SSBN ERPs

SSBN	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total							

10.3 What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional SSBN ERP capability at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

10.4. Are there any environmental, legal, or otherwise limiting factors that inhibit your SSBN ERP present operations and/or development (encroachments, pollutant discharge, etc.)?

11. Shipwork (Nuclear - SSBN ROH/RFOH)

11.1 Given the current configuration of the yard, provide by ship's hull number DLMYs for the SSBN Regular and Refuelling Overhauls (ROH/RFOH) that were realized or are projected for this type of work through the period requested in the Tables. Report SSBN Engineered and Engineered Refueling Overhauls (EOH/ERO) in the next section.

Table 11.1.a: Historic/ Predicted Work - SSBN ROH/RFOH

(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Total								

Table 11.1.b: Historic/ Predicted Work - SSBN ROH/RFOH

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total								

11. Shipwork (Nuclear - SSBN ROH / RFOH), continued

Answer the remaining SSBN ROH/RFOH questions (Section 11.) only if your shipyard has some SSBN workload scheduled, as reflected in Tables 11.1 or 12.1. Provide answers in terms of additional SSBN 726 (TRIDENT) class workload only.

11.2 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the SSBN overhaul capability at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to SSBN overhauls without a significant increase in overhead costs and/or rates, assuming that you also have to execute the above workload and meet your cost schedule commitment to your customers.

Table 11.2: Maximum Potential Workload - SSBN ROH/RFOH

SSBN	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total							

11.3 What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional SSBN ROH/RFOH capability at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

11.4 Are there any environmental, legal, or otherwise limiting factors that inhibit your SSBN ROH/RFOH present operations and/or development (encroachments, pollutant discharge, etc.)?

12. Shipwork (Nuclear - SSBN EOH / ERO)

12.1 Given the current configuration of the yard, provide by ship's hull number DLMYs for the SSBN Engineered and Engineered Refueling Overhauls (EOH/ERO) that were realized or are projected for this type of work through the period requested in the Tables. Report SSBN Regular and Refuelling Overhauls (ROH/RFOH) in the previous section.

Table 12.1.a: Historic/ Predicted Work - SSBN ECH/ERO

(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Total								

Table 12.1.b: Historic/ Predicted Work - SSBN EOH/ERO

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total								

12. Shipwork (Nuclear - SSBN EOH / ERO), continued

Answer the remaining SSBN EOH/ERO questions (Section 12.) only if your shipyard has some SSBN workload scheduled, as reflected in Tables 11.1 or 12.1. Provide answers in terms of additional SSBN 726 (TRIDENT) class workload only.

12.2 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the SSBN overhaul capability at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to SSBN overhauls without a significant increase in overhead costs and/or rates, assuming that you also have to execute the above workload and meet your cost schedule commitment to your customers.

Table 12.2: Maximum Potential Workload - SSBN EOH/ERO

SSBN	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total							

12.3 What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional SSBN EOH/ERO capability at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

12.4. Are there any environmental, legal, or otherwise limiting factors that inhibit your SSBN EOH/ERO present operations and/or development (encroachments, pollutant discharge, etc.)?

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13. Shipwork (Nuclear - SSN Inactivations)

13.1 Given the current configuration of the yard, provide by ship's hull number DLMYs for the SSN inactivations that were realized or are projected for this type of work through the period requested in the Tables.

Table 13.1.a: Historic/ Predicted Work - SSN Inactivations

(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
578	.180	.006						
579		.008	.116	.106				
583	.024	.159	.078					
613						.035	.144	
621						.002	.128	.099
594				.004	.023			
651					.041	.176	.021	
657							.005	.138
679								.008
Total	0.204	0.173	0.194	0.110	0.064	0.213	0.298	0.245

Table 13.1.b: Historic/ Predicted Work - SSN Inactivations

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
679	.139							
648	.028	.124						
657	.001							
677	.004	.107	.057					
FY96-1		.013	.155					

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13. Shipwork (Nuclear - SSN Inactivations)

13.1 Given the current configuration of the yard, provide by ship's hull number DLMYs for the SSN inactivations that were realized or are projected for this type of work through the period requested in the Tables.

Table 13.1.a: Historic/ Predicted Work - SSN Inactivations

(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
578	.180	.006						
579		.008	.116	.106				
583	.024	.159	.078					
613						.035	.144	
621						.002	.128	.099
594				.004	.023			
651					.041	.176	.021	
657							.005	.138
679								.008
Total	0.204	0.173	0.194	0.110	0.064	0.213	0.298	0.245

Table 13.1.b: Historic/ Predicted Work - SSN Inactivations

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
679	.139							
648	.028	.124						
657	.001							
677	.004	.107	.057					
FY96-1		.013	.155					
FY97-1			.027	.142				
FY97-3	.006	.019	.025	.132	.093			

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FY97-1			.027	.142				
FY97-3	.006	.019	.025	.132	.093			
FY97-2				.045	.124			
FY99-1					.027	.141		
FY00-1					.001	.042	.232	
FY99-2					.014	.180	.081	
Total	0.178	0.263	0.264	0.319	0.259	0.363	0.313	0.000

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FY97-2				.045	.124			
FY99-1					.027	.141		
FY00-1					.001	.042	.232	
FY99-2					.014	.180	.081	
Total	0.178	0.263	0.264	0.187	0.259	0.363	0.313	0.000

*red*Activity N00311**13. Shipwork (Nuclear - SSN Inactivations), continued**

Answer the remaining SSN Inactivation questions (Section 13.) only if your shipyard has some SSN workload scheduled, as reflected in Table 13.1.

13.2 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the SSN inactivation capability at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to SSN inactivations without a significant increase in overhead costs and/or rates assuming that you also have to execute the above workload and meet your cost schedule commitment to your customers.

Table 13.2: Maximum Potential Workload - SSN Inactivations

SSN	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
From Table 13.1.b	.263	.264	.319	.259	.363	.313	.000
X1	.124						
X8	.082						
X19	.108	.058					
X9	.102	.034					
X20	.013	.156					
X10	.055	.109					
X21		.027	.143				
X11	.013	.071	.086				
X22	.019	.026	.133	.094			
X16	.001	.081	.088	.056			
X23			.045	.125			
X12	.006	.019	.069	.075			
X2		.010	.078	.158	.031		

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13. Shipwork (Nuclear - SSN Inactivations), continued

Answer the remaining SSN Inactivation questions (Section 13.) only if your shipyard has some SSN workload scheduled, as reflected in Table 13.1.

13.2 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the SSN inactivation capability at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to SSN inactivations without a significant increase in overhead costs and/or rates assuming that you also have to execute the above workload and meet your cost schedule commitment to your customers.

Table 13.2: Maximum Potential Workload - SSN Inactivations

SSN	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
From Table 13.1.b	.263	.264	.187	.259	.363	.313	.000
X1	.124						
X8	.082						
X19	.108	.058					
X9	.102	.034					
X20	.013	.156					
X10	.055	.109					
X21		.027	.143				
X11	.013	.071	.086				
X22	.019	.026	.133	.094			
X16	.001	.081	.088	.056			
X23			.045	.125			
X12	.006	.019	.069	.075			
X2		.010	.078	.158	.031		
X3			.019	.205	.054		
X13		.001	.032	.132	.005		

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X3			.019	.205	.054		
X13		.001	.032	.132	.005		
X14			.007	.153	.010		
X24				.028	.142		
X15			.007	.072	.091		
X25				.015	.161	.082	
X4			.011	.100	.117	.051	
X26				.002	.043	.234	
X17	.006	.015	.064	.043	.003	.141	
X5				.007	.089	.150	.031
X18					.036	.211	.031
X6					.013	.100	.162
X7						.040	.231
Total	0.792	0.871	1.101	1.524	1.178	1.322	0.455

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13.3 What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional SSN inactivation capability at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

(1) **Tandem Dockings.** Up to now, the Shipyard has done single-docking 637 Class SSN Inactivations in Dry Dock No. 2. A proposal was recently submitted to propose the Shipyard's capability to double-dock SSNs, for a tandem inactivation set up in Dry Dock No. 2. This would allow for two simultaneous inactivations during the drydock evolution. The following modifications would be required to the existing refueling complex to provide optimum efficiency to minimize the docking period:

(a) An additional Reactor Access Enclosure (RAE - Environmental Enclosure) is required for maximum efficiency. The Shipyard can conduct tandem Inactivations with only one RAE (current configuration), however, this would add an additional month to the dry dock duration because of the series operations associated with the transfer of the

X14			.007	.153	.010		
X24				.028	.142		
X15			.007	.072	.091		
X25				.015	.181	.082	
X4			.011	.100	.117	.051	
X26				.002	.043	.234	
X17	.006	.015	.064	.043	.003	.141	
X5				.007	.089	.150	.031
X18					.036	.211	.031
X6					.013	.100	.162
X7						.040	.231
Total	0.792	0.871	0.969	1.524	1.178	1.322	0.455

13.3 What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional SSN inactivation capability at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

(1) **Tandem Dockings.** Up to now, the Shipyard has done single-docking 637 Class SSN Inactivations in Dry Dock No. 2. A proposal was recently submitted to propose the Shipyard's capability to double-dock SSNs, for a tandem inactivation set up in Dry Dock No. 2. This would allow for two simultaneous inactivations during the drydock evolution. The following modifications would be required to the existing refueling complex to provide optimum efficiency to minimize the docking period:

- (a) An additional Reactor Access Enclosure (RAE - Environmental Enclosure) is required for maximum efficiency. The Shipyard can conduct tandem Inactivations with only one RAE (current configuration), however, this would add an additional month to the dry dock duration because of the series operations associated with the transfer of the existing RAE to the second SSN.

The Shipyard has identified the source of a RAE available at a Shipyard slated for closure. This would accommodate tandem inactivations at no additional cost other than the cost for shipment, and fabrication of additional miscellaneous support foundations and passageway sections needed to support the additional RAE. The total cost for these

modifications is approximately \$2M, with a pay-back period of 1 tandem inactivation to obtain return on this investment. During the next 4 years there are 6 single-docking inactivations planned for accomplishment.

(b) Tandem Inactivations in lieu of single-docking Inactivations would produce a cost savings of approximately \$3.3M per docking or a total of \$20M for 6 double dockings.

(2) **Dry Dock No. 3.** Bouyancy Assistance Modules (BAMs) are a pontoon like arrangement used to reduce the draft of a vessel during a drydocking evolution. Currently DD#3 cannot accept SSN's due the shallow draft (23.0', 21.0') of the drydock. BAM's will enable PHNSY to dry dock and inactivate SSN 637 and SSN 688 class ships in DD#3. Since BAM's are available at another shipyard scheduled for closure, this would be a no cost option and no payback period is incurred. The cost of new BAMs is \$8.5M. The modifications to the DD2 refueling complex stated in paragraph (1) above will also accomodate inactivations in DD #3. This option would not cause direct savings to an SSN Inactivation, but would increase the Shipyard's capability and allow the Navy to accelerate the SSN inactivation program.

(3) **Dry Dock No. 1.** PHNSY has recently been approved to prepare DD#1 to inactivate and/or refuel SSN688 class vessels. Capital equipment cost is \$17.5M by reutilization of equipment from closing shipyards. Maximum capacity of DD #1 is 4 tandem inactivations of SSN 637, SSN 688, and SSBN 640 Class or combinations.

(4) **Dry Dock No. 4.** The same improvements to Dry Dock No. 1, can be applied with the same investment to utilize DD #4 for SSN Inactivation capability.

13.4. Are there any environmental, legal, or otherwise limiting factors that inhibit your SSN inactivation present operations and/or development (encroachments, pollutant discharge, etc.)?

There are no environmental, legal, or other limiting factors that inhibit capacity development.

14.Shipwork (Nuclear - SSN ROH / RFOH)

14.1 Given the current configuration of the shipyard, provide by ship's hull number the DLMYs for the SSN Refuelling and Regular Overhauls (RFOH/ROH) that were realized or are projected for this type of work through the period requested in the Tables. Report SSN Engineered Refueling and Engineered Overhauls (ERO/EOH) in the section following.

Table 14.1.a: Historic / Predicted Work - SSN ROH/RFOH
(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
688	.007							
692	.475	.102						
695	.262	.734	.402	.159				
696	.748	.549	.076					
697	.012	.230	.851	.499	.266	.031		
698		.010	.254	.577	.584	.311	.060	
Total	1.504	1.625	1.583	1.235	0.850	0.342	0.060	0.000

14. Shipwork (Nuclear - SSN ROH / RFOH), continued

Table 14.1.b: Historic/ Predicted Work - SSN ROH/RFOH

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total								

14. Shipwork (Nuclear - SSN ROH / RFOH), continued

Answer the remaining SSN ROH/RFOH questions (Section 14.) only if your shipyard has some SSN workload scheduled, as reflected in Tables 14.1 or 15.1. Please answer in terms of additional SSN 688 (LOS ANGELES) class workload only.

14.2 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the SSN ROH/RFOH capability at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to SSN ROH/RFOHs without a significant increase in overhead costs and/or rates assuming that you also have to execute the above workload and meet your cost schedule commitment to your customers.

Table 14.2: Maximum Potential Workload - SSN ROH/RFOH

SSN	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total							

14. Shipwork (Nuclear - SSN ROH / RFOH), continued

14.3 What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional SSN overhaul capability at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

- (1) **Dry Dock No. 1.** The shipyard has recently been approved to prepare DD#1 for SSN688 Class Refueling Overhauls. The capital equipment cost is \$17.5M by utilizing equipment from closing shipyards as compared with new construction cost of \$40M. The maximum capacity of DD#1 is 4 simultaneous RFOH's.
- (2) **Dry Dock No. 2.** This dry dock is currently used to inactivate SSN637 and 640 class submarines. DD#2 can be utilized for SSN 688 Class RFOH's. The capital equipment cost is the same as it would be for DD#1 to upgrade the existing refueling complex to service SSN 688 class ships. The maximum capacity of DD#2 is 4 simultaneous RFOH's
- (3) **Dry Dock No. 3.** The draft of DD#3 is insufficient to dock SSN 688 class submarines. However, with the acquisition of Bouyancy Assist Modules (BAM's), this dry dock can be utilized for SSN 688 RFOH's. Due to the close proximity of the refueling complex at DD2, a new refueling complex for DD3 would not be required if the DD2 refueling complex is upgraded. A new complex will require the same capital investment as DD1. This dry dock will be able to dock one ship at a time.
- (4) **Dry Dock No. 4.** Same as DD#1.

14.4 Are there any environmental, legal, or otherwise limiting factors that inhibit your SSN overhaul present operations and/or development (encroachments, pollutant discharge, etc.)?

There are no environmental, legal, or other limiting factors that inhibit capacity development.

15. Shipwork (Nuclear - SSN EOH / ERO)

15.1 Given the current configuration of the shipyard, provide by ship's hull number the DLMYs for the SSN Engineered Refueling and Engineered Overhauls (ERO/EOH) that were realized or are projected for this type of work through the period requested in the Tables. Report Refuelling and Regular Overhauls (RFOH/ROH) in the previous section.

Table 15.1.a: Historic/ Predicted Work - SSN EOH/ERO
(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Total								

15. Shipwork (Nuclear - SSN EOH / ERO), continued

Table 15.1.b: Historic/ Predicted Work - SSN EOH/ERO

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
XXX							Note 1	Note 1
Total								

Note 1: The shipyard anticipates doing an availability sometime early in the next century and anticipates advance planning workload during these years.

15. Shipwork (Nuclear - SSN EOH / ERO), continued

Answer the remaining SSN EOH/ERO questions (Section 15.) only if your shipyard has some SSN workload scheduled, as reflected in Tables 14.1 or 15.1. Please answer in terms of additional SSN 688 (LOS ANGELES) class workload only.

15.2 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the SSN EOH/ERO capability at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to SSN EOH/EROs without a significant increase in overhead costs and/or rates assuming that you also have to execute the above workload and meet your cost schedule commitment to your customers.

Table 15.2: Maximum Potential Workload - SSN EOH/ERO

SSN	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total							

15. Shipwork (Nuclear - SSN EOH / ERO), continued

15.3 What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional SSN overhaul capability at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

15.4 Are there any environmental, legal, or otherwise limiting factors that inhibit your SSN overhaul present operations and/or development (encroachments, pollutant discharge, etc.)?

16. Shipwork (Nuclear - SSN DSRA)

16.1 Given the current configuration of the shipyard, provide the DLMYs by ship's hull number for the SSN Docking Selected Restricted Availabilities (DSRA) that were realized or are projected for this type of work through the period requested in the Tables.

Table 16.1.a: **Historic/ Predicted Work - SSN DSRA**
(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
609		.002	.063	.001				
648							.079	
651		.022	.060					
666	.002	.086						
672								
680								.006
682	.093							.040
684							.031	.033
688	.009		.084					
692				.095				
695							.160	
696							.004	.094
711	.057							.104
715	.040		.062					
717		.077						
718			.067					
639								.001
725								
Total	0.201	0.187	0.336	0.096	0.000	0.000	0.274	0.278

16. Shipwork (Nuclear - SSN DSRA), continuedTable 16.1.b: **Historic/ Predicted Work - SSN DSRA**

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
697	.074		.008	.086				
639	.037							
695	.016	.084						
672	.002	.049						
698	.003	.121				.087		
666		.053		.015	.063			
684		.052						
715		.129	.004		.010	.113		
682		.012	.040					
642		.009	.078					
647			.052					
711	.006		.109					
725	.082		.069	.025				.083
717			.033	.089	.060	.036	.003	.092
713				.101				
718				.106		.103		.084
762				.089		.013	.065	
672				.053				
688				.075	.020		.074	
754			.095					
766					.092		.003	.076
724					.093	.027		.095
771						.080	.004	.014

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770						.102		.002
772						.056	.037	
773						.006	.073	
680	.035		.052					
721								.108
Total	0.255	0.509	0.540	0.639	0.338	0.623	0.259	0.554

16. Shipwork (Nuclear - SSN DSRA), continued

Answer the remaining SSN DSRA questions (Section 16.) only if your shipyard has some SSN workload scheduled, as reflected in Table 16.1. Please answer in terms of additional SSN 688 (LOS ANGELES) class workload only.

16.2 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the SSN DSRA capability at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to SSN availabilities without a significant increase in overhead costs and/or rates assuming that you also have to execute the above workload and meet your cost schedule commitment to your customers.

Table 16.2: Maximum Potential Workload - SSN DSRA

SSN	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
From Table 16.1.b	.509	.540	.639	.338	.523	.259	.554
D2F-1	.016						
D2F-2	.016						
D2F-3	.076						
D2F-4	.076						
D2F-5	.012	.067					
D2F-6	.012	.067					
D1-1	.005	.075					
D1-2	.005	.075					
D1-3	.005	.075					
D1-4	.005	.075					
D1-5		.080					
D1-6		.080					
D1-7		.080					

D1-8		.080					
D1-9		.080					
D1-10		.080					
D1-11		.080					
D1-12		.080					
D2F-7		.080					
D2F-8		.080					
D1-13		.012	.068				
D1-14		.012	.068				
D1-15		.012	.068				
D1-16		.012	.068				
D1-17		.005	.075				
D1-18		.005	.075				
D1-19		.005	.075				
D1-20		.005	.075				
D2F-9		.003	.077				
D2F-10		.003	.077				
D2F-11			.080				
D2F-12			.080				
D2F-13			.005	.075			
D2F-14			.005	.075			
D2F-15				.080			
D2F-16				.080			
D1-21				.080			
D1-22				.080			
D1-23				.080			
D1-24				.080			
D1-25				.080			

D1-26				.080			
D1-27				.080			
D1-28				.080			
D1-29					.080		
D1-30					.080		
D1-31					.080		
D1-32					.080		
D1-33					.080		
D1-34					.080		
D1-35					.080		
D1-36					.080		
D2F-17					.080		
D2F-18					.080		
D1-37					.064	.016	
D1-38					.064	.016	
D1-39					.064	.016	
D1-40					.064	.016	
D2F-19					.036	.044	
D2F-20					.036	.044	
D2F-21					.013	.067	
D2F-22					.013	.067	
D2F-23					.008	.072	
D2F-24					.008	.072	
D2F-25					.003	.077	
D2F-26					.003	.077	
D2F-27						.080	
D2F-28						.080	
D1-41						.080	

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D1-42						.080	
D1-43						.080	
D1-44						.080	
D1-45						.037	.043
D1-46						.037	.043
D1-47						.037	.043
D1-48						.037	.043
D2F-29					.004	.011	.066
D2F-30					.004	.011	.066
D1-49						.013	.067
D1-50						.013	.067
D1-51						.013	.067
D1-52						.013	.067
D2F-31						.008	.071
D2F-32						.008	.071
D2F-33						.003	.076
D2F-34						.003	.076
D2F-35							.080
D2F-36							.080
D2F-37							.080
D2F-38							.080
D2A-3	.016						
D2A-4	.016						
D2A-5	.064						
D2A-6	.064						
D2A-7	.070						
D2A-8	.070						
D4-1	.065						

D4-2	.065						
D4-3	.065						
D4-4	.065						
D2A-9	.075						
D2A-10	.075						
D4-5	.072						
D4-6	.072						
D4-7	.072						
D4-8	.072						
D2A-11	.080						
D2A-12	.080						
D4-9	.080						
D4-10	.080						
D4-11	.080						
D4-12	.080						
D4-13	.080						
D4-15	.080						
D4-16	.080						
D2A-13	.080						
D2A-14	.080						
D4-17	.062	.017					
D4-18	.062	.017					
D4-19	.062	.017					
D4-20	.062	.017					
D2A-15	.062	.018					
D2A-16	.062	.018					
D4-21	.017	.063					
D4-22	.017	.063					

D4-23	.017	.063					
D4-24	.017	.063					
D2A-17	.016	.064					
D2A-18	.016	.064					
D4-25	.011	.069					
D4-26	.011	.069					
D4-27	.011	.069					
D4-28	.011	.069					
D2A-19	.011	.069					
D2A-20	.011	.069					
D4-29	.005	.075					
D4-30	.005	.075					
D4-31	.005	.075					
D4-32	.005	.075					
D2A-21	.005	.075					
D2A-22	.005	.075					
D4-33		.080					
D4-34		.080					
D4-35		.080					
D4-36		.080					
D2A-23		.080					
D2A-24		.080					
D4-37		.080					
D4-38		.080					
D4-39		.080					
D4-40		.080					
D2A-25		.080					
D2A-26		.080					

D2A-27		.061	.018				
D2A-28		.061	.018				
D2A-29		.016	.064				
D2A-30		.016	.064				
D2A-31		.010	.070				
D2A-32		.010	.070				
D2A-33		.004	.075				
D2A-34		.004	.075				
D4-41		.002	.078				
D4-42		.002	.078				
D4-43		.002	.078				
D4-44		.002	.078				
D2A-35			.080				
D2A-36			.080				
D4-45			.080				
D4-46			.080				
D4-47			.080				
D4-48			.080				
D2A-37			.080				
D2A-38			.080				
D2A-39			.051	.030			
D2A-40			.051	.030			
D2A-41			.015	.064			
D2A-42			.015	.064			
D2A-43			.009	.071			
D2A-44			.009	.071			
D2A-45			.002	.077			
D2A-46			.002	.077			

D4-49				.080			
D4-50				.080			
D4-51				.080			
D4-52				.080			
D4-53				.080			
D4-54				.080			
D4-55				.080			
D4-56				.080			
D4-57				.061	.019		
D4-58				.061	.019		
D4-59				.061	.019		
D4-60				.061	.019		
D4-61					.080		
D4-62					.080		
D4-63					.080		
D4-64					.080		
D4-65					.080		
D4-66					.080		
D4-67					.080		
D4-68					.080		
D2A-47					.080		
D2A-48					.080		
D4-69					.062	.017	
D4-70					.062	.017	
D4-71					.062	.017	
D4-72					.062	.017	
D2A-49					.037	.043	
D2A-50					.037	.043	

D4-73					.016	.063	
D4-74					.016	.063	
D4-75					.016	.063	
D4-76					.016	.063	
D2A-51					.013	.056	
D2-52					.013	.056	
D4-77					.010	.070	
D4-78					.010	.070	
D4-79					.010	.070	
D4-80					.010	.070	
D2A-59					.004	.011	.065
D2A-60					.004	.011	.065
D2A-61						.008	.072
D2A-62						.008	.072
D2A-53						.003	.077
D2A-54						.003	.077
D2A-63						.003	.077
D2A-64						.003	.077
D2A-55						.003	.077
D2A-56						.003	.077
D2A-65							.080
D2A-66							.080
D2A-57							.080
D2A-58							.080
D2A-67							.080
D2A-68							.080
D3-1	.080						
D3-2	.080						

D3-3	.080						
D3-4	.080						
D3-5	.080						
D3-6	.080						
D3-7			.080				
D3-8			.080				
D3-9			.080				
D3-10			.080				
D3-11			.080				
D3-12			.080				
D3-13				.080			
D3-14				.080			
D3-15				.080			
D3-16				.080			
D3-17				.080			
D3-18				.080			
D3-19					.080		
D3-20					.080		
D3-21					.080		
D3-22					.080		
D3-23					.080		
D3-24					.080		
D3-25						.080	
D3-26						.080	
D3-27						.080	
D3-28						.080	
D3-29						.080	
D3-30						.080	

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D3-31							.080
D3-32							.080
D3-33							.080
D3-34							.080
D3-35							.080
D3-36							.080
Total	3.663	4.346	3.575	3.136	3.623	2.901	3.436

16. Shipwork (Nuclear - SSN DSRA), continued

16.3 What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional SSN availability capability at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

(1) **Dry Dock No. 3.** Bouyancy Assistance Modules (BAMs) are a pontoon like arrangement used to reduce the draft of a vessel during a drydocking evolution. Currently DD#3 cannot accept SSN's due to the shallow draft (23.0', 21.0') of the drydock. BAM's will enable PHNSY to dry dock and accomplish SSN DSRA's in DD#3. Since BAM's are available at another shipyard scheduled for closure, this would be a no cost option and no payback period is incurred. The cost of new BAMs is \$8.5M. This option would not cause direct savings to an SSN DSRA, but would increase the Shipyard's docking capability.

16.4 Are there any environmental, legal, or otherwise limiting factors that inhibit your SSN DSRA present operations and/or development (encroachments, pollutant discharge, etc.)?

There are no environmental, legal, or other limiting factors that inhibit capacity development.

17. Shipwork (Nuclear - SSN DMP)

17.1 Given the current configuration of the shipyard, provide by ship's hull number the DLMYs for the SSN Depot Modernization Periods (DMP) that were realized or are projected for this type of work through the period requested in the Tables.

Table 17.1.a: **Historic/ Predicted Work - SSN DMP**

(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
711			.012	.598	.190			
713				.006	.349	.275		
715					.004	.341	.533	.049
717						.015	.271	.372
717							.078	.094
718							.030	.363
Total	0.000	0.000	0.012	0.604	0.543	0.631	0.912	0.878

17. Shipwork (Nuclear - SSN DMP), continued

Table 17.1.b: Historic/ Predicted Work - SSN DMP

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
717	.004							
717	.002							
718	.308							
724	.010	.213	.360					
721				.054	.548	.013		
725					.065	.514		
752						.018	.392	.060
758								.004
754							.016	.331
Total	0.324	0.213	0.360	0.054	0.613	0.545	0.408	0.395

17. Shipwork (Nuclear - SSN DMP), continued

Answer the remaining SSN DMP questions (Section 17.) only if your shipyard has some SSN workload scheduled, as reflected in Table 17.1. Please answer in terms of additional SSN 688 (LOS ANGELES) class workload only.

17.2 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the SSN DMP capability at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to SSN DMPs without a significant increase in overhead costs and/or rates assuming that you also have to execute the above workload and meet your cost schedule commitment to your customers.

Table 17.2: Maximum Potential Workload - SSN DMP

SSN	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
From Table 17.1.b	.213	.360	.054	.613	.545	.408	.395
SSN724	.213	.360					
SSN688	.027	.480	.077				
SSN688	.016	.347	.221				
SSN688	.016	.347	.221				
SSN688		.016	.348	.220			
SSN721			.054	.551	.013		
SSN688			.030	.507	.048		
SSN688			.030	.507	.048		
SSN725				.066	.516		
SSN688				.016	.378	.190	
SSN688				.013	.285	.286	
SSN752					.019	.393	.061
SSN688					.008	.149	.427
SSN688						.055	.518
SSN688						.055	.518

SSN754						.016	.331
SSN758							.004
Total	.4853	1.911	1.036	2.493	1.859	1.554	2.255

17.3 What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional SSN DMP capability at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

(1) **Dry Dock No. 3.** Bouyancy Assistance Modules (BAMs) are a pontoon like arrangement used to reduce the draft of a vessel during a drydocking evolution. Currently DD#3 cannot accept SSN's due to the shallow draft (23.0', 21.0') of the drydock. BAM's will enable PHNSY to dry dock and accomplish SSN DMP's in DD#3. Since BAM's are available at another shipyard scheduled for closure, this would be a no cost option and no payback period is incurred. The cost of new BAMs is \$8.5M. This option would not cause direct savings to a SSN DMP, but would increase the Shipyard's docking capability.

17.4. Are there any environmental, legal, or otherwise limiting factors that inhibit your SSN DMP present operations and/or development (encroachments, pollutant discharge, etc.)?

There are no environmental, legal, or other limiting factors that inhibit capacity development.

18. Shipwork (Nuclear - CGN Inactivations)

18.1 Given the current configuration of the shipyard, provide by ship's hull number the DLMYs for the CGN inactivations that were realized or are projected for this type of work through the period requested in the Tables.

Table 18.1.a: Historic/ Predicted Work - CGN Inactivations

(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Total								

Table 18.1.b: Historic/ Predicted Work - CGN Inactivations

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total								

18. Shipwork (Nuclear - CGN Inactivations), continued

Answer the remaining CGN Inactivation questions (Section 18.) only if your shipyard has some CGN workload scheduled, as reflected in Table 18.1.

18.2 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the CGN inactivation capability at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to CGN inactivations without a significant increase in overhead costs and/or rates assuming that you also have to execute the above workload and meet your cost schedule commitment to your customers.

Table 18.2: Maximum Potential Workload - CGN Inactivations

CGN	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total							

18.3 What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional CGN inactivation capability at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

18.4 Are there any environmental, legal, or otherwise limiting factors that inhibit your CGN inactivation present operations and/or development (encroachments, pollutant discharge, etc.)?

19. Shipwork (Nuclear - CGN COH / RCOH)

19.1 Given the current configuration of the yard, provide by ship's hull number DLMYs for the CGN Complex Overhauls (COH) and Refuelling Complex Overhauls (RCOH) that were realized or are projected for this type of work through the period requested in the Tables.

Table 19.1.a: Historic/ Predicted Work - CGN COH / RCOH
(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Total								

Table 19.1.b: Historic/ Predicted Work - CGN COH / RCOH

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total								

19. Shipwork (Nuclear - CGN COH / RCOH), continued

Answer the remaining CGN COH/RCOH questions (Section 19.) only if your shipyard has some CGN workload scheduled, as reflected in Table 19.1.

19.2 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the CGN COH/RCOH capability at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to CGN overhauls without a significant increase in overhead costs and/or rates assuming that you also have to execute the above workload and meet your cost schedule commitment to your customers.

Table 19.2: Maximum Potential Workload - CGN COH / RCOH

CGN	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total							

19.3 What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional CGN COH/RCOH capability at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

19.4. Are there any environmental, legal, or otherwise limiting factors that inhibit your CGN COH/RCOH present operations and/or development (encroachments, pollutant discharge, etc.)?

20. Shipwork (Nuclear - CGN DSRA / SRA)

20.1 Given the current configuration of the shipyard, provide by ship's hull number the DLMYs for the CGN Docking Selected Restricted Availabilities (DSRA) and Selected Restricted Availabilities (SRA) that were realized or are projected for this type of work through the period requested in the Tables.

Table 20.1.a: **Historic/ Predicted Work - CGN DSRA / SRA**
prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Total								

Table 20.1.b: **Historic/ Predicted Work - CGN DSRA / SRA**

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total								

20. Shipwork (Nuclear - CGN DSRA / SRA), continued

Answer the remaining CGN DSRA/SRA questions (Section 20.) only if your shipyard has some CGN workload scheduled, as reflected in Table 20.1.

20.2 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the CGN DSRA/SRA capability at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to CGN availabilities without a significant increase in overhead costs and/or rates assuming that you also have to execute the above workload and meet your cost schedule commitment to your customers.

Table 20.2: Maximum Potential Workload - CGN DSRA / SRA

CGN	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total							

20.3 What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional CGN DSRA/SRA capability at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

20.4 Are there any environmental, legal, or otherwise limiting factors that inhibit your CGN DSRA/SRA present operations and/or development (encroachments pollutant discharge, etc.)?

21. Shipwork (NonNuclear - ROH)

21.1 Given the current configuration of the shipyard, provide by ship's hull number the DLMYs for the Regular Overhauls (ROH) of nonnuclear ships that were realized or are projected for this type of work through the period requested in the Tables.

Table 21.1.a: **Historic/ Predicted Work - NonNuclear ROH**
(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
AFDM6	.047							
ATS2	.077							
ATS3	.113	.016						
CG18		.	.021	.397	.078			
CG24					.006	.486	.113	
DD984	.195							.004
DD985								.040
DD990							.016	.311
FF1045	.003	.138	.073					
FF1077	.021							
Total	0.456	0.154	0.094	0.397	0.084	0.486	0.129	0.355

21. Shipwork (NonNuclear ROH), continuedTable 21.1.b: **Historic/ Predicted Work - NonNuclear ROH**

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
DD990	.173						.003	.225
DD985	.375	.089					.002	.141
DD984	.118	.208						
DD992	.025	.316						
CG65					.001	.312		
CG70							.146	.103
DDG56								.007
DDG60								.002
CG73							.002	.116
Total	0.691	0.613	0.000	0.000	0.001	0.312	0.153	0.594

21. Shipwork (NonNuclear - ROH), continued

21.2 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the capability to overhaul non-nuclear ships at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to non-nuclear ROHs without a significant increase in overhead costs and/or rates assuming that you also have to execute the above workload and meet your cost schedule commitment to your customers.

Table 21.2: Maximum Potential Workload - NonNuclear ROH

Ship Hull #	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
From Table 21.1.b	.613	.000	.000	.001	.312	.153	.594
DD985	.089						
DD984	.209						
DD992	.317						
DD9	.006	.253					
D1	.005	.249	.006				
DD2	.004	.038	.218				
CG3			.016	.243			
DD10			.007	.253			
DD4			.007	.253	.041		
CG65				.001	.312		
D11				.004	.067	.188	
CG7					.010	.249	
CG70						.147	.103
CG14					.004	.073	.183
DD5					.004	.073	.183
DD8						.007	.253
DD990						.003	.225

DD13						.005	.225
DD985						.002	.142
CG73						.003	.116
DDG56							.007
DDG60							.002
Total	1.242	0.539	0.251	0.718	0.751	0.906	2.063

21.3 What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional overhaul capability for nonnuclear ships at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

(1) **Dry Dock No. 3.** Bouyancy Assistance Modules (BAMs) are a pontoon like arrangement used to reduce the draft of a vessel during a drydocking evolution. Currently DD#3 cannot accept SSN's due to the shallow draft (23.0', 21.0') of the drydock. BAM's will enable PHNSY to dry dock SSN's in DD#3 thereby freeing up the larger docks for Non Nuclear ROH's. Since BAM's are available at another shipyard scheduled for closure, this would be a no cost option and no payback period incurred. The cost of new BAMs is \$8.5M. This option would not cause direct savings to the Non Nuclear ROHs, but would increase the Shipyard's non nuclear surface ship docking capability.

21.4. Are there any environmental, legal, or otherwise limiting factors that inhibit non-nuclear ship ROH present operations and/or development (encroachments, pollutant discharge, etc.)?

There are no environmental, legal, or other limiting factors that inhibit capacity development.

22. Shipwork (NonNuclear - COH)

22.1 Given the current configuration of the shipyard, provide by ship's hull number the DLMYs for the Complex Overhauls (COH) of nonnuclear ships that were realized or are projected for this type of work through the period requested in the Tables.

Table 22.1.a: Historic / Predicted Work - NonNuclear COH
(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Total								

22. Shipwork (NonNuclear - COH), continued

Table 22.1.b: **Historic / Predicted Work - NonNuclear COH**

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total								

22. Shipwork (NonNuclear - COH), continued

22.2 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the capability to overhaul nonnuclear ships at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to nonnuclear COHs without a significant increase in overhead costs and/or rates assuming that you also have to execute the above workload and meet your cost schedule commitment to your customers.

Table 22.2: Maximum Potential Workload - NonNuclear COH

Ship Hull #	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total							

22.3 What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional overhaul capability for nonnuclear ships at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

22.4. Are there any environmental, legal, or otherwise limiting factors that inhibit non-nuclear ship COH present operations and/or development (encroachments, pollutant discharge, etc.)?

23. Shipwork (NonNuclear - DPMA)

23.1 Given the current configuration of the shipyard, provide by ship's hull number the DLMYs for the Docking Phased Maintenance Availability (DPMA) of nonnuclear ships that were realized or are projected for this type of work through the period requested in the Tables.

Table 23.1.a: Historic / Predicted Work - NonNuclear DPMA
(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
DDG16			.014	.047				
DDG20				.045	.011			
DDG22				.001	.043			
Total	0.000	0.000	0.014	0.093	0.054	0.000	0.000	0.000

23. Shipwork (NonNuclear - DPMA), continued

Table 23.1.b: **Historic / Predicted Work - NonNuclear DPMA**

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total								

23. Shipwork (NonNuclear - DPMA), continued

23.2 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the capability to provide docking PMAs for nonnuclear ships at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to nonnuclear DPMA without a significant increase in overhead costs and/or rates assuming that you also have to execute the above workload and meet your cost schedule commitment to your customers.

Table 23.2: Maximum Potential Workload - NonNuclear DPMA

Ship Hull #	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total							

23.3 What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional docking PMA capability for nonnuclear ships at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

23.4. Are there any environmental, legal, or otherwise limiting factors that inhibit non-nuclear ship DPMA present operations and/or development (encroachments, pollutant discharge, etc.)?

24. Shipwork (NonNuclear - PMA)

24.1 Given the current configuration of the shipyard, provide by ship's hull number the DLMYs for the Phased Maintenance Availability (PMA) of nonnuclear ships that were realized or are projected for this type of work through the period requested in the Tables.

Table 24.1.a: Historic/ Predicted Work - NonNuclear PMA
(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
CG18							.091	
DDG20						.014		
Total	0.000	0.000	0.000	0.000	0.000	0.014	0.091	0.000

24. Shipwork (NonNuclear - PMA), continued

Table 24.1.b: Historic/ Predicted Work - NonNuclear PMA

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total								

24. Shipwork (NonNuclear - PMA), continued

24.2 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the capability to provide PMAs for nonnuclear ships at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to non-nuclear PMAs without a significant increase in overhead costs and/or rates assuming that you also have to execute the above workload and meet your cost schedule commitment to your customers.

Table 24.2: **Maximum Potential Workload - NonNuclear PMA**

Ship Hull #	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total							

24.3 What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional PMA capability for nonnuclear ships at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

24.4. Are there any environmental, legal, or otherwise limiting factors that inhibit non-nuclear ship PMA present operations and/or development (encroachments, pollutant discharge, etc.)?

25. Shipwork (NonNuclear - DSRA)

25.1 Given the current configuration of the shipyard, provide by ship's hull number the DLMYs for the Docking Selected Restricted Availability (DSRA) of non-nuclear ships that were realized or are projected for this type of work through the period requested in the Tables.

Table 25.1.a: Historic/ Predicted Work - NonNuclear DSRA
(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
AGF11					.154			
DD984							.153	
DD990					.008	.061		
DD992						.005	.076	
FF1057			.001	.077				
FF1071		.054						
FF1073		.035			.064	.004		
FF1074		.033			.083			
FFG57							.033	.122
FF1086		.043						
Total	0.000	0.165	0.001	0.077	0.309	0.070	0.262	0.122

25. Shipwork (NonNuclear - DSRA), continued

Table 25.1.b: Historic/ Predicted Work - NonNuclear DSRA

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
FFG37		.062				.001	.070	
CG65		.077						
CG70			.003	.091				
DD990				.052	.012			
DD985				.003	.065			
CG73				.001	.079			
FFG57				.001	.062			
DDG56					.080			
DD984					.007	.057		
DD992					.002	.066		
DDG60					.001	.078		
Total	0.000	0.139	0.003	0.148	0.308	0.202	0.070	0.000

25. Shipwork (NonNuclear - DSRA), continued

25.2 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the capability to provide DSRA's for nonnuclear ships at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to non-nuclear DSRA's without a significant increase in overhead costs and/or rates assuming that you also have to execute the above workload and meet your cost schedule commitment to your customers.

Table 25.2: Maximum Potential Workload - NonNuclear DSRA

Ship Hull #	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
From Table 25.1.b	.139	.003	.148	.308	.202	.070	.000
DD2-1	.059						
FFG37	.062						
DD4-1	.040	.020					
DD4-2	.003	.056					
DD4-3	.003	.057					
DD1-1	.001	.058					
DD4-4	.001	.059					
DD4-5	.001	.059					
DD1-2		.059					
DD4-6		.060					
DD4-7		.060					
DD1-3		.060					
DD2-2		.042	.018				
DD1-4		.041	.019				
DD1-5		.003	.056				
CG70		.003	.091				
DD4-8		.002	.058				

DD1-6		.002	.058				
DD4-9		.001	.059				
DD4-10		.001	.059				
DD2-3			.060				
DD4-11			.050				
DD4-12			.060				
DD2-4			.054	.006			
DD990			.053	.013			
DD4-13			.042	.018			
DD985			.003	.066			
DD4-14			.003	.056			
DD1-8			.003	.057			
FFG57			.001	.063			
CG73			.001	.079			
DD1-9			.001	.058			
DD2-5			.001	.059			
DD4-15				.060			
DD4-16				.060			
DD1-10				.060			
DD2-6				.060			
DDG56				.081			
DD1-11				.054	.006		
DD4-17				.041	.019		
DD984				.007	.058		
DD4-18				.005	.055		
DD992				.002	.067		
DD4-19				.002	.058		
DDG60				.002	.079		

DD4-20				.002	.058		
DD1-12					.060		
DD2-10					.054	.005	
DD1-7					.054	.005	
DD4-21					.040	.020	
DD4-22					.040	.020	
DD4-23					.006	.054	
DD4-24					.006	.054	
FFG37					.001	.070	
DD4-25					.001	.058	
DD2-12					.001	.059	
DD2-13						.059	
DD4-26						.059	
DD1-13						.053	.007
DD1-14						.008	.051
DD1-15						.003	.057
DD2-15					.001	.003	.056
DD2-16						.001	.058
Total	0.387	0.645	0.906	1.220	0.868	0.661	0.230

25.3 What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional DSRA capability for nonnuclear ships at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

(1) **Dry Dock No. 3.** Bouyancy Assistance Modules (BAMs) are a pontoon like arrangement used to reduce the draft of a vessel during a drydocking evolution. Currently DD#3 cannot accept SSN's due to the shallow draft (23.0', 21.0') of the drydock. BAM's will enable PHNSY to dry dock SSN's in DD#3 thereby freeing up the larger docks for Non Nuclear surface ship

availabilities. Since BAM's are available at another shipyard scheduled for closure, this would be a no cost option and no payback period incurred. The cost of new BAMs is \$8.5M. This option would not cause direct savings to an availability, but would increase the Shipyard's non nuclear surface ship docking capability.

25.4. Are there any environmental, legal, or otherwise limiting factors that inhibit non-nuclear ship DSRA present operations and/or development (encroachments, pollutant discharge, etc.)?

There are no environmental, legal, or other limiting factors that inhibit capacity development.

26. Shipwork (NonNuclear - SRA)

26.1 Given the current configuration of the shipyard, provide by ship's hull number the DLMYs for the Selected Restricted Availability (SRA) of nonnuclear ships that were realized or are projected for this type of work through the period requested in the Tables.

Table 26.1.a: **Historic/ Predicted Work - NonNuclear SRAs**
prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
AR8	.059							
CG18	.074							
CG65						.059		.027
DD984			.028					
DDG16		.031						
DDG20		.038	.011					
DDG22			.032					
FF1057	.014	.015						
FF1062		.020						
CG70								.004
FFG37							.124	
Total	0.147	0.104	0.071	0.000	0.000	0.059	0.124	0.031

26. Shipwork (NonNuclear - SRA), continued

Table 26.1.b: Historic/ Predicted Work - NonNuclear SRA

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
CG70	.091	.056			.007	.055		
DD990		.001	.038			.040		
DD985			.047			.035	.003	
CG73	.001	.045	.099			.002	.045	
DDG56	.004	.092	.007	.062			.051	
DD984			.001	.052			.040	
CG65				.049				.049
DD992				.050			.002	.024
DDG60		.051	.032	.061			.002	.045
Total	0.096	0.245	0.224	0.274	0.007	0.133	0.143	0.118

26. Shipwork (NonNuclear - SRA), continued

26.2 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the capability to provide SRAs for nonnuclear ships at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to nonnuclear SRAs without a significant increase in overhead costs and/or rates assuming that you also have to execute the above workload and meet your cost schedule commitment to your customers.

Table 26.2: Maximum Potential Workload - NonNuclear SRA

Ship Hull #	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
From Table 26.1.b	.245	.224	.274	.007	.133	.143	.118
CG68	.056						
CG49	.052						
CG58	.050						
DD979	.028						
DDG993	.042						
FFG8	.044						
CG50		.054					
CG52		.132					
DD963		.033					
DDG53		.066					
DDG54		.061					
CG48			.060				

CG54			.064				
DD977			.047				
CG49				.056			
CG57				.064			
DD965				.041			
DD967				.042			
DD972				.042			
DD989				.043			
DDG52				.056			
DDG62				.062			
DD966					.159		
CG60						.056	
CG72						.056	
CG53						.132	
DD963						.042	
DDG57						.056	
CG54							.064
CG58							.056
DD965							.042
DD964							.042
DDG63							.060

Unprogrammed Availabilities	3.483	3.430	3.555	3.587	3.708	3.515	3.618
Total	4.000						

26.3 What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional SRA capability for nonnuclear ships at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

PHNSY currently has the capacity, to accomodate additional workload from this type of availability, without any significant investments.

26.4. Are there any environmental, legal, or otherwise limiting factors that inhibit non-nuclear ship SRA present operations and/or development (encroachments, pollutant discharge, etc.)?

There are no environmental, legal, or other limiting factors that inhibit capacity development.

27. Shipwork (NonNuclear - SCOs)

27.1 Given the current configuration of the shipyard, provide by ship's hull number the DLMYs for the depot maintenance of floating dry-docks Service Craft Overhauls (SCO) that were realized or are projected for this type of work through the period requested in the Tables.

Table 27.1.a: **Historic / Predicted Work - SCOs**
(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
AFDM6					.004	.234		
Total	0.000	0.000	0.000	0.000	0.004	0.234	0.000	0.000

Table 27.1.b: **Historic / Predicted Work - SCOs**

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
AFDM6			.059	.084		.002	.058	.082
Total	0.000	0.000	0.059	0.084	0.000	0.002	0.058	0.082

27. Shipwork (NonNuclear - SCOs), continued

27.2 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the SCO capability at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to SCOs without a significant increase in overhead costs and/or rates assuming that you also have to execute the above workload and meet your cost schedule commitment to your customers.

Table 27.2: Maximum Potential Workload - SCOs

AFDM Hull#	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
From Table 27.1.b	0.000	0.059	0.084	0.000	0.002	0.058	0.082
SCO-5	.003	.127					
AFDM-6		.054	.076				
SCO-6		.001	.129				
SCO-7				.130			
SCO-8					.013		
SCO-1					.055	.075	
SCO-9					.028	.102	
SCO-2					.003	.127	
AFDM-6					.003	.059	.082
SCO-3						.003	.127
SCO-4						.001	.129
Total	0.003	0.240	0.289	0.130	0.220	0.424	0.459

27.3 What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional SCO capability at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that

would be realized. What would be the payback period or return on investment?

There are no additional plant modifications, infrastructure, IPE and/or facility improvements required in order to increase SCO capability.

27.4. Are there any environmental, legal, or otherwise limiting factors that inhibit your SCO present operations and/or development (encroachments, pollutant discharge, etc.)?

There are no environmental, legal, or other limiting factors that inhibit capacity development.

28. Shipwork (NonNuclear - Inactivations)

28.1 Given the current configuration of the shipyard, provide by ship's hull number the DLMYs for the inactivation of nonnuclear ships (including conversion to RRF or RRT status) that were realized or are projected for this type of work through the period requested in the Tables.

Table 28.1.a: Historic/ Predicted Work - NonNuclear Inactivations
(1986-1992: prior to costing change)

Ship Hull #	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Total								

28. Shipwork (NonNuclear - Inactivations), continued

Table 28.1.b: Historic/ Predicted Work - NonNuclear Inactivations

Ship Hull #	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total								

28. Shipwork (NonNuclear - Inactivations), continued

28.2 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the inactivation assistance capability for nonnuclear ships, at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to inactivations without a significant increase in overhead costs and/or rates; assuming that you also have to execute the above workload and meet your cost schedule commitment to your customers.

Table 28.2: Maximum Potential Workload - NonNuclear Inactivations

Ship Hull #	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total							

28.3 What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional inactivation assistance capability at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

28.4. Are there any environmental, legal, or otherwise limiting factors that inhibit inactivation assistance present operations and/or development (encroachments, pollutant discharge, etc.)?

29. Other Productive Work

29.1 Given the current configuration of the yard, provide the DLMYs for the production work, other than shipwork, that were realized or are projected for this type of work through the period requested in the Tables. Provide separate entries for Nuclear and NonNuclear OPW.

Table 29.1.a: Historic/ Predicted Work - Other Productive Work
(1986-1992: prior to costing change)

OPW	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Nuclear								
NonNuclear	.395	.401	.390	.312	.355	.237	.200	.211
Total	0.395	0.401	0.390	0.312	0.355	0.237	0.200	0.211

Note: All OPW shown in NonNuclear Category - data not available for Nuclear OPW

Table 29.1.b: Historic/ Predicted Work - Other Productive Work

OPW	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Nuclear	.034	.032	.032	.032	.032	.032	.032	.032
NonNuclear	.135	.130	.131	.131	.131	.131	.131	.131
Total	0.169	0.162	0.163	0.163	0.163	0.163	0.163	0.163

29. Shipwork (Other Productive Work), continued

29.2 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the production work other than shipwork capability at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to other production work without a significant increase in overhead costs and/or rates assuming that you also have to execute the above shipwork and other workload and meet your cost schedule commitment to your customers. Enter separate line items for Nuclear and NonNuclear OPW.

Table 29.2: **Maximum Potential Workload - Other Productive Work**

OPW	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
From Table 29.1.b (Nuclear)	.032	.032	.032	.032	.032	.032	.032
Nuclear	.960	.960	.960	.960	.960	.960	.960
From Table 29.1.b (Non Nuclear)	.130	.131	.131	.131	.131	.131	.131
NonNuclear	2.878	2.877	2.877	2.877	2.877	2.877	2.877
Total	4.000	4.000	4.000	4.000	4.000	4.000	4.000

29.3 What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional other production work capability at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

PHNSY currently has the capacity, to accommodate additional OPW workload.

29.4. Are there any environmental, legal, or otherwise limiting factors that inhibit development of productive work capability other than shipwork (encroachments, pollutant discharge, etc.)?

(1) Reduce or Eliminate Government Restrictions on Civilian Ships Utilizing Drydock No. 4 (DD#4). Large civilian merchant and cruise ships do not have access to a central Pacific emergency drydock. During those periods when PHNSY's DD#4 is idle, it could be made available to local civilian contractors to perform short duration voyage repair availabilities on civilian ships. This would require relaxing the current government restrictions on using government facilities to support private contractors. No physical modifications would be required to DD#4 to support this initiative. This initiative would employ PHNSY workers to support the docking evolution and provide a source of additional revenue to the shipyard.

29. Shipwork (Other Productive Work), continued

29.5 Break out the total DLMYs reported in Table 29.1.b into the following functional categories. Using the Commodity Groups listing provided in the Notes at the beginning of this Data Call, identify other applicable workload performed, if necessary.

Table 29.5: Historic & Predicted OPW Functional Workload

All OPW		FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Ground & Shipboard Comm & Electronic Eqmt	Radar	.001	.001	.001	.001	.001	.001	.001	.001	.001
	Radio Comm	.004	.004	.004	.004	.004	.004	.004	.004	.004
	Wire Comm									
	EW									
	NAVAIDs	.003	.003	.003	.003	.003	.003	.003	.003	.003
	E-O/NV									
	SC / SS									
Software	Tactical Systems									
	Support Eqmt									
Calibration Type I										
Calibration Type II&III		.021	.021	.021	.021	.021	.021	.021	.021	.021
Electroplating		.010	.010	.010	.010	.010	.010	.010	.010	.010
Casting Mfrg		.005	.005	.005	.005	.005	.005	.005	.005	.005
Other Machining / Manufacturing		.005	.005	.005	.005	.005	.005	.005	.005	.005
All Other OPW										
ShoreComm		.015	.015	.015	.015	.015	.015	.015	.015	.015
Computer Rprs		.031	.011	.005	.005	.005	.005	.005	.005	.005
Xducer Resor.		.002	.002	.002	.002	.002	.002	.002	.002	.002
Crypto		.002	.002	.002	.002	.002	.002	.002	.002	.002
Building Fac's		.040	.028	.027	.028	.028	.028	.028	.028	.028
Barges		.008	.008	.008	.008	.008	.008	.008	.008	.008
Power Plnt & PPG		.001	.001	.001	.001	.001	.001	.001	.001	.001

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All OPW	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Crating	.010	.005	.005	.005	.005	.005	.005	.005	.005
Fabric Work	.002	.002	.002	.002	.002	.002	.002	.002	.002
Hydroblast	.004	.001	.001	.001	.001	.001	.001	.001	.001
Temp Utilities	.003	.001	.001	.001	.001	.001	.001	.001	.001
Army LSV	.008	.008	.008	.008	.008	.008	.008	.008	.008
Joint Oil Analysis Program	.002	.002	.002	.002	.002	.002	.002	.002	.002
Nuclear Work -OPW	.020	.020	.020	.020	.020	.020	.020	.020	.020
Insulation (IMA)	.002	.002	.002	.002	.002	.002	.002	.002	.002
Refueling Facility	.010	.010	.010	.010	.010	.010	.010	.010	.010
Nuclear Pipe (IMA)	.002	.002	.002	.002	.002	.002	.002	.002	.002
Total	0.211	0.169	0.162	0.163	0.163	0.163	0.163	0.163	0.163

30. Restricted Availability/Technical Availability

30.1 Given the current configuration of the yard, provide DLMYs for Restricted Availabilities and Technical Availabilities (RATA), other than shipwork reported above, that were realized for or are projected for this type of work through the period requested in the Tables. Provide separate entries for Nuclear and NonNuclear RATA.

Table 30.1.a: **Historic/ Predicted Work - RATA**
(1986-1992: prior to costing change)

RATA	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Nuclear						.006	.017	.020
NonNuclear	.199	.155	.176	.175	.205	.162	.154	.126
Total	0.199	0.155	0.176	0.175	0.205	0.168	0.171	0.146

Table 30.1.b: **Historic/ Predicted Work - RATA**

RATA	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Nuclear	.010	.007	.048	.048	.048	.048	.048	.048
NonNuclear	.060	.065	.065	.065	.065	.065	.065	.065
Total	0.070	0.072	0.113	0.113	0.113	0.113	0.113	0.113

30. RATA, continued

30.2 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, maximum apprentice training, optimum (repeat order manufacturing lead times) procurement, and maximum equipment support; and (c) no major MILCON additional to that already programmed: what is the maximum extent to which the production work other than shipwork capability at this NSYD could be expanded? Please provide the response in absolute number of DLMYs that could be applied to RATA without a significant increase in overhead costs and/or rates assuming that you also have to execute the above shipwork and other workload and meet your cost schedule commitment to your customers. Enter separate line items for Nuclear and NonNuclear RATA.

Table 30.2: **Maximum Potential Workload - RATA**

RATA	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
From Table 30.1.b (Nuclear)	.007	.048	.048	.048	.048	.048	.048
Nuclear	.0985	0.944	0.944	0.944	0.944	0.944	0.944
From Table 30.1.b (NonNuclear)	.065	.065	.065	.065	.065	.065	.065
NonNuclear	2.943	2.943	2.943	2.943	2.943	2.943	2.943
Total	4.000	4.000	4.000	4.000	4.000	4.000	4.000

30.3 What plant modifications, infrastructure, IPE and/or facility improvements could be performed that would significantly open up additional RATA capability at this yard? Assume an environment unconstrained by funds or manning, but do not assume major MILCON on the order of additional drydocks. Please provide description, cost, and additional capability that would be realized. What would be the payback period or return on investment?

PHNSY already has sufficient capability to handle any potential increase in this type of availability without needing additional resources.

30.4. Are there any environmental, legal, or otherwise limiting factors that inhibit development of RATA capability other than shipwork (encroachments, pollutant discharge, etc.)?

There are no environmental, legal, or other limiting factors that inhibit capacity development.

31. Mission Area Workload Summary

In the following tables bring the information from the tables in Section 1-30 forward into the tables that follow and calculate workload variance for FY 1995-2001.

The total values for Maximum Potential Workload shown on the prior tables (those labeled #.2 in the preceding 30 sections) may not always transcribe directly to the Potential Workload column on the seven Predicted Workload Variance Tables that follow.

Provide responses in an absolute number of DLMYs that could be applied, without a significant increase in overhead cost/rates, assuming that you also have to (a) execute the projected workload and (b) meet your cost schedule commitments to your customer.

Remember that Potential Workload for these latter tables should be predicted within the framework of the total Navy corporate mix of depot events at durations/intervals consistent with: OPNAVNOTE 4700 (latest) (subj: "Notional Durations, Intervals, and Repair Mandays for Depot Level Availabilities of United States Navy Ships") and OPNAVINST 4700.7 (series) (subj: "Policies and Procedures for Maintenance of Ships").

Appropriately tabulated, the Potential Workload column should reflect the total potential workload for your yard with no remaining surplus capability for either emergency repair of battle damage, or depot repairs of other emergent damage.

31. Mission Area Workload Summary, continued**Table 31.1.a: PREDICTED WORKLOAD VARIANCE OF NSYD FOR FY 1995
(Normal Shift Structure)**

EVENT	FY 1995	Predicted Work	Potential Workload	Variance
CVN COH				0.000
CVN RCOH				0.000
CVN DSRA				0.000
CVN EDSR				0.000
CVN DPIA				0.000
CVN SRA				0.000
CVN ESRA				0.000
CVN PIA				0.000
SSBN INACT				0.000
SSBN ERP				0.000
SSBN ROH/RFOH				0.000
SSBN EOH/ERO				0.000
SSN INACT		.263	.490	0.227
SSN ROH/RFOH				0.000
SSN EOH/ERO				0.000
SSN DSRA		.509	.720	0.211
SSN DMP		.213	.426	0.213
CGN INACT				0.000
CGN COH/RCOH				0.000
CGN DSRA/SRA				0.000
Table 31.1.a Total		0.985	1.636	0.651

31. Mission Area Workload Summary, continued**Table 31.1.b: PREDICTED WORKLOAD VARIANCE OF NSYD FOR FY 1995
(Normal Shift Structure)**

EVENT	FY 1995	Predicted Work	Potential Workload	Variance
Non Nuclear ROH		.613	1.139	0.526
Non Nuclear COH				0.000
Non Nuclear DPMA				0.000
Non Nuclear PMA				0.000
Non Nuclear DSRA		.139	.139	0.000
Non Nuclear SRA		.245	.515	0.270
Non Nuclear SCO				0.000
Other INACTs				0.000
OPW:	Nuclear	.032	082	0.050
	NonNuclear	.130	267	0.137
RATA:	Nuclear	.007	027	0.020
	NonNuclear	.065	.195	0.130
Table 31.1.b Total		1.231	2.364	1.133
Table 31.1.a Total		0.985	1.636	0.651
FY 1995 Total		2.216	4.000	1.784

31. Mission Area Workload Summary, continuedTable 31.1.c: **PREDICTED WORKLOAD VARIANCE OF NSYD FOR FY 1996**
(Normal Shift Structure)

EVENT	FY 1996	Predicted Work	Potential Workload	Variance
CVN COH				0.000
CVN RCOH				0.000
CVN DSRA				0.000
CVN EDSR				0.000
CVN DPIA				0.000
CVN SRA				0.000
CVN ESRA				0.000
CVN PIA				0.000
SSBN INACT				0.000
SSBN ERP				0.000
SSBN ROH/RFOH				0.000
SSBN EOH/ERO				0.000
SSN INACT		.264	.662	0.398
SSN ROH/RFOH				0.000
SSN EOH/ERO				0.000
SSN DSRA		.540	.830	0.290
SSN DMP		.360	1.446	1.086
CGN INACT				0.000
CGN COH/RCOH				0.000
CGN DSRA/SRA				0.000
Table 31.1.c Total		1.164	2.938	1.774

31. Mission Area Workload Summary, continued

**Table 31.1.d: PREDICTED WORKLOAD VARIANCE OF NSYD FOR FY 1996
(Normal Shift Structure)**

EVENT	FY 1996	Predicted Work	Potential Workload	Variance
Non Nuclear ROH			500	0.500
Non Nuclear COH				0.000
Non Nuclear DPMA				0.000
Non Nuclear PMA				0.000
Non Nuclear DSRA		.003	.003	0.000
Non Nuclear SRA		.224	.224	0.000
Non Nuclear SCO		.059	.059	0.000
Other INACTs				0.000
OPW:	Nuclear	.032	.032	0.000
	NonNuclear	.131	.131	0.000
RATA:	Nuclear	.048	.048	0.000
	NonNuclear	.065	.065	0.000
Table 31.1.d Total		0.562	1.062	0.500
Table 31.1.c Total		1.164	2.938	1.774
FY 1996 Total		1.726	4.000	2.274

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31. Mission Area Workload Summary, continued

Table 31.1.e: PREDICTED WORKLOAD VARIANCE OF NSYD FOR FY 1997
(Normal Shift Structure)

EVENT	FY 1997	Predicted Work	Potential Workload	Variance
CVN COH				0.000
CVN RCOH				0.000
CVN DSRA				0.000
CVN EDSR				0.000
CVN DPIA				0.000
CVN SRA				0.000
CVN ESRA				0.000
CVN PIA				0.000
SSBN INACT				0.000
SSBN ERP				0.000
SSBN ROH/RFOH				0.000
SSBN EOH/ERO				0.000
SSN INACT		.319	.527	0.340
SSN ROH/RFOH				0.000
SSN EOH/ERO				0.000
SSN DSRA		.639	1.519	0.880
SSN DMP		.054	.550	0.496
CGN INACT				0.000
CGN COH/RCOH				0.000
CGN DSRA/SRA				0.000
Table 31.1.e Total		1.012	2.595	1.716

31. Mission Area Workload Summary, continued**Table 31.1.e: PREDICTED WORKLOAD VARIANCE OF NS'YD FOR FY 1997
(Normal Shift Structure)**

EVENT	FY 1997	Predicted Work	Potential Workload	Variance
CVN COH				0.000
CVN RCOH				0.000
CVN DSRA				0.000
CVN EDSR				0.000
CVN DPIA				0.000
CVN SRA				0.000
CVN ESRA				0.000
CVN PIA				0.000
SSBN INACT				0.000
SSBN ERP				0.000
SSBN ROH/RFOH				0.000
SSBN EOH/ERO				0.000
SSN INACT		.187	.527	0.340
SSN ROH/RFOH				0.000
SSN EOH/ERO				0.000
SSN DSRA		.639	1.519	0.880
SSN DMP		.054	.550	0.496
CGN INACT				0.000
CGN COH/RCOH				0.000
CGN DSRA/SRA				0.000
Table 31.1.e Total		0.880	2.596	1.716

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31. Mission Area Workload Summary, continued

Table 31.1.f: PREDICTED WORKLOAD VARIANCE OF NSYD FOR FY 1997
(Normal Shift Structure)

EVENT	FY 1997	Predicted Work	Potential Workload	Variance
Non Nuclear ROH			.266	0.266
Non Nuclear COH				0.000
Non Nuclear DPMA				0.000
Non Nuclear PMA				0.000
Non Nuclear DSRA		.148	.148	0.000
Non Nuclear SRA		.274	.474	0.200
Non Nuclear SCO		.084	.084	0.000
Other INACTs				0.000
OPW:	Nuclear	.032	.032	0.020
	NonNuclear	.131	.220	0.089
RATA:	Nuclear	.048	.049	0.001
	NonNuclear	.065	.111	0.046
Table 31.1.f Total		0.782	1.404	0.622
Table 31.1.e Total		1.012	2.596	1.584
FY 1997 Total		1.794	4.000	2.206

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31. Mission Area Workload Summary, continued

Table 31.1.f: PREDICTED WORKLOAD VARIANCE OF NSYD FOR FY 1997
(Normal Shift Structure)

EVENT	FY 1997	Predicted Work	Potential Workload	Variance
Non Nuclear ROH			.266	0.266
Non Nuclear COH				0.000
Non Nuclear DPMA				0.000
Non Nuclear PMA				0.000
Non Nuclear DSRA		.148	.148	0.000
Non Nuclear SRA		.274	.474	0.200
Non Nuclear SCO		.084	.084	0.000
Other INACTs				0.000
OPW:	Nuclear	.032	.052	0.020
	NonNuclear	.131	.220	0.089
RATA:	Nuclear	.048	.049	0.001
	NonNuclear	.065	.111	0.046
Table 31.1.f Total		0.782	1.404	0.622
Table 31.1.e Total		0.880	2.596	1.716
FY 1997 Total		1.662	4.000	2.338

31. Mission Area Workload Summary, continued

Table 31.1.g: PREDICTED WORKLOAD VARIANCE OF NSYD FOR FY 1998
(Normal Shift Structure)

EVENT	FY 1998	Predicted Work	Potential Workload	Variance
CVN COH				0.000
CVN RCOH				0.000
CVN DSRA				0.000
CVN EDSR				0.000
CVN DPIA				0.000
CVN SRA				0.000
CVN ESRA				0.000
CVN PIA				0.000
SSBN INACT				0.000
SSBN ERP				0.000
SSBN ROH/RFOH				0.000
SSBN EOH/ERO				0.000
SSN INACT		.259	.259	0.000
SSN ROH/RFOH				0.000
SSN EOH/ERO				0.000
SSN DSRA		.338	.351	0.013
SSN DMP		.613	2.78	1.565
CGN INACT				0.000
CGN COH/RCOH				0.000
CGN DSRA/SRA				0.000
Table 31.1.g Total		1.210	2.788	1.578

31. Mission Area Workload Summary, continuedTable 31.1.h: **PREDICTED WORKLOAD VARIANCE OF NSYD FOR FY 1998**
(Normal Shift Structure)

EVENT	FY 1998	Predicted Work	Potential Workload	Variance
Non Nuclear ROH		.001	.507	0.506
Non Nuclear COH				0.000
Non Nuclear DPMA				0.000
Non Nuclear PMA				0.000
Non Nuclear DSRA		.308	342	0.034
Non Nuclear SRA		.007	.007	0.000
Non Nuclear SCO				0.000
Other INACTs				0.000
OPW:	Nuclear	.032	.042	0.010
	NonNuclear	.131	.191	0.060
RATA:	Nuclear	.048	.058	0.010
	NonNuclear	.065	.065	0.000
Table 31.1.h Total		0.592	1.212	0.620
Table 31.1.g Total		1.210	2.788	1.578
FY 1998 Total		1.802	4.000	2.198

31. Mission Area Workload Summary, continued

Table 31.1.i: PREDICTED WORKLOAD VARIANCE OF NSYD FOR FY 1999
(Normal Shift Structure)

EVENT	FY 1999	Predicted Work	Potential Workload	Variance
CVN COH				0.000
CVN RCOH				0.000
CVN DSRA				0.000
CVN EDSR				0.000
CVN DPIA				0.000
CVN SRA				0.000
CVN ESRA				0.000
CVN PIA				0.000
SSBN INACT				0.000
SSBN ERP				0.000
SSBN ROH/RFOH				0.000
SSBN EOH/ERO				0.000
SSN INACT		.363	.429	0.066
SSN ROH/RFOH				0.000
SSN EOH/ERO				0.000
SSN DSRA		.623	1.423	0.800
SSN DMP		.545	1.223	0.678
CGN INACT				0.000
CGN COH/RCOH				0.000
CGN DSRA/SRA				0.000
Table 31.1.i Total		1.531	3.075	1.544

31. Mission Area Workload Summary, continued

Table 31.1.j: PREDICTED WORKLOAD VARIANCE OF NSYD FOR FY 1999
(Normal Shift Structure)

EVENT	FY 1999	Predicted Work	Potential Workload	Variance
Non Nuclear ROH		.312	.312	0.000
Non Nuclear COH				0.000
Non Nuclear DPMA				0.000
Non Nuclear PMA				0.000
Non Nuclear DSRA		.202	.202	0.000
Non Nuclear SRA		.133	.133	0.000
Non Nuclear SCO		.002	.002	0.000
Other INACTs				0.000
OPW:	Nuclear	.032	.032	0.000
	NonNuclear	.131	.131	0.000
RATA:	Nuclear	.048	.048	0.000
	NonNuclear	.065	.065	0.000
Table 31.1.j Total		0.925	0.925	0.000
Table 31.1.i Total		1.531	3.075	1.544
FY 1999 Total		2.456	4.000	1.544

31. Mission Area Workload Summary, continued**Table 31.1.k: PREDICTED WORKLOAD VARIANCE OF NSYD FOR FY 2000
(Normal Shift Structure)**

EVENT	FY 2000	Predicted Work	Potential Workload	Variance
CVN COH				0.000
CVN RCOH				0.000
CVN DSRA				0.000
CVN EDSR				0.000
CVN DPIA				0.000
CVN SRA				0.000
CVN ESRA				0.000
CVN PIA				0.000
SSBN INACT				0.000
SSBN ERP				0.000
SSBN ROH/RFOH				0.000
SSBN EOH/ERO				0.000
SSN INACT		.313	.673	0.360
SSN ROH/RFOH				0.000
SSN EOH/ERO				0.000
SSN DSRA		.259	1.219	0.960
SSN DMP		.408	.518	0.110
CGN INACT				0.000
CGN COH/RCOH				0.000
CGN DSRA/SRA				0.000
Table 31.1.k Total		0.980	2.410	1.430

31. Mission Area Workload Summary, continued**Table 31.1.1: PREDICTED WORKLOAD VARIANCE OF NSYD FOR FY 2000
(Normal Shift Structure)**

EVENT	FY 2000	Predicted Work	Potential Workload	Variance
Non Nuclear ROH		.153	.881	0.728
Non Nuclear COH				0.000
Non Nuclear DPMA				0.000
Non Nuclear PMA				0.000
Non Nuclear DSRA		.070	.070	0.000
Non Nuclear SRA		.143	.303	0.160
Non Nuclear SCO		.058	.058	0.000
Other INACTs				0.000
OPW:	Nuclear	.032	.034	0.002
	NonNuclear	.131	.131	0.000
RATA:	Nuclear	.048	.048	0.000
	NonNuclear	.065	.065	0.000
Table 31.1.l Total		0.700	1.590	0.890
Table 31.1.k Total		.980	2.410	1.430
FY 2000 Total		1.680	4.000	2.320

31. Mission Area Workload Summary, continued**Table 31.1.m: PREDICTED WORKLOAD VARIANCE OF NSYD FOR FY 2001
(Normal Shift Structure)**

EVENT	FY 2001	Predicted Work	Potential Workload	Variance
CVN COH				0.000
CVN RCOH				0.000
CVN DSRA				0.000
CVN EDSR				0.000
CVN DPIA				0.000
CVN SRA				0.000
CVN ESRA				0.000
CVN PIA				0.000
SSBN INACT				0.000
SSBN ERP				0.000
SSBN ROH/RFOH				0.000
SSBN EOH/ERO				0.000
SSN INACT			.145	0.145
SSN ROH/RFOH				0.000
SSN EOH/ERO				0.000
SSN DSRA		.554	1.354	0.800
SSN DMP		.395	1.431	1.036
CGN INACT				0.000
CGN COH/RCOH				0.000
CGN DSRA/SRA				0.000
Table 31.1.m Total		0.949	2.930	1.981

31. Mission Area Workload Summary, continuedTable 31.1.n: **PREDICTED WORKLOAD VARIANCE OF NSYD FOR FY 2001**
(Normal Shift Structure)

EVENT	FY 2001	Predicted Work	Potential Workload	Variance
Non Nuclear ROH		.594	.594	0.000
Non Nuclear COH				0.000
Non Nuclear DPMA				0.000
Non Nuclear PMA				0.000
Non Nuclear DSRA				0.000
Non Nuclear SRA		.118	.118	0.000
Non Nuclear SCO		.082	.082	0.000
Other INACTs				0.000
OPW:	Nuclear	.032	.032	0.000
	NonNuclear	.131	.131	0.000
RATA:	Nuclear	.048	.048	0.000
	NonNuclear	.065	.065	0.000
Table 31.1.n Total		1.070	1.070	0.000
Table 31.1.m Total		.949	2.930	1.981
FY 2001 Total		2.019	4.000	1.981

Features and Capabilities**32. Manpower Factors**

32.1 For the following Shops provide your most current work force summary broken out in the categories below. Add other critical Shops or Work Stations and their workforce make-up as appropriate, in Table 32.2, following the listed facility types. Comment in the space following the Tables for any work effort not otherwise reported.

Table 32.1.a: **Manpower Factors**

Shop Type	Management	First Line Supervisors	Journeymen	Apprentices	Other Direct Labor
Central Tool Shop (06)	1	5	26	1	18
Shipfitting Shop (11)	12	23	115	9	44
Sheet Metal (17)	7	10	69	5	16
Forge and Heat Treatment (23)	0	1	6	0	0
Welding (26)	5	14	132	9	30
Q.A. Office	3	6	116	0	0
Optical Shop	See Note (1)				
Weapons Shop (36)	See Note (2)				
Inside Machine (31)	9	12	155	6	0
Marine Machine (38)	20	30	264	7	4
Boilermaker Shop (41)	3	5	28	6	11
Electrical Shop (51)	8	13	123	5	12
Pipefitter (56)	10	23	204	9	7
Woodworking (64)					
Electronics Shop (67)	7	18	124	12	9
Boat Shop					
Abrasive Blast Facility					
Paint & Blasting (74) (64)	4	11	87	2	17

Note (1): Included in Marine Machine (38) figures.

Note (2): Included in Marine Machine (38) and Electronics Shop (67) figures.

32. Manpower Factors, continued

Table 32.1.b: Manpower Factors, continued

Shop Type / Work Station	Management	First Line Supervisors	Journeymen	Apprentices	Other Direct Labor
Rigging Shop (72)	6	7	52	24	10
Sail Loft					
Foundry (81)	0	1	3	0	1
Pattern Maker (94)	0	0	8	0	0
Nuclear Repair					
Temporary Svcs (99)	9	8	79	13	6
Drydocks					
Drydock Pumphouse	0	1	11	0	1
Divers Change House					
Ship Svcs Support					
Ships/Spares Storage					
Marine Railway					
Fixed Crane Structures					
Calibration (52)	1	4	38	5	4
Refit / Restoration (66)					
Services (72)					
Public Works (07)					
Utilities (99)	1	2	9	0	1
Shipwright/Boatbuilder/ Fabricworker (64)	11	18	122	10	60
Insulator (57) (64)	1	3	30	3	6
Nuclear Log Rm (950)					

32. Manpower Factors, continued

32.2 Enter all other critical Shops or Work Stations and their work force composition into the following table.

Table 32.2: Other Manpower Factors

Shop Type / Work Station	Management	First Line Supervisors	Journeymen	Apprentices	Other Direct Labor
Toolmaker (31)	0	2	18	0	0
Crane Division	5	14	120	5	0
Diver (72)	0	1	6	0	0
Equipment Cleaner (64)	0	2	8	0	0
Equipment Cleaner (72)	1	5	0	0	8
Environment/Safety	0	1	6	0	0
Nuclear Engineer	0	0	55	0	0
Planning/Engineer	0	72	326	0	0
RADCON	0	6	35	0	3

33. Physical Space for Industrial Support

33.1 Identify the area in thousands of square feet (KSF) (or other appropriate unit) (specify) and the condition of each of the following work centers and shops.

Table 33.1.a: **Work Centers/Facilities Conditions**

CCN	Shop Type / Work Stations	Unit	Condition (See Note (1))			Comments/ Deficiency Codes
			Adequate	Inadequate	Substandard	
213-41	Central Tool (06)	KSF	15.980	69.750	0	A27, A30, A10, B26, C10, D30
213-42	Shipfitting Shop (11)	KSF	143.916	0	0	A12, A05, B26, B38, C10, C38, C26
213-43	Sheet Metal (17)	KSF	1.288	0	45.2	A30, B26, C11, C10, D30
213-44	Forge & Heat Treatment (23)	KSF	38.200	0	0	A26, A27, A30, A52, E05
213-45	Welding (26)	KSF	31.304	0	0	A05, A21, B30, B26, C02, C30
213-48	Q.A.	KSF	90.068	0	0	A30, A04, A03, A27, A23
213-50	Optical Shop					N/A to PHNS
213-51	Weapons Shop (36)					N/A to PHNS
213-49	Inside Machine (31)	KSF	197.077	0	0	A30, A27, A21, B30, E05
213-52	Marine Machine (38)	KSF	107.261	0	0	A52, A39, A02, A30, A03, C05
213-53	Boilermaker (41)	KSF	47.036	0	0	A05, A21, C10
213-54	Electrical (51)	KSF	156.630	0	0	A03, A30, C23, D30, E05
213-55	Pipefitter (56)	KSF	72.953	7.807	0	A30, A27, A04, A02, B26, C30, C39, C03
213-56	Woodworking (64)	KSF	100.356	8.200	0	A08, A30, A02, A27, B26, C32, D30, E48
213-57	Electronics (67)	KSF	151.336	10.300	0	A08, A30, A27, C23, C10, D30, D26, E05
213-58	Boat Shop					N/A to PHNS
213-59 / 60	Abrasive Blast / Paint Facility (71)	KSF	35.287	40.652	0	A20, A30, B30, B26, D30, F30

Note: (1) The table's Adequate, Inadequate, and Substandard Condition rating reflects an operational usage condition and not a "dollars to repair" condition as defined in NAVFACINST 11010.44, Section 5.7. For this data call, an adequate facility condition is defined as a facility being fully operational for basic mission requirements.

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33. Physical Space for Industrial Support , continued

Table 33.1.b: Work Centers/Facilities Conditions

CCN	Shop Type / Work Stations	Unit	Condition (See Note (1))			Comments/ Deficiency Codes
			Adequate	Inadequate	Substandard	
213-61	Rigging Shop (72)	KSF	68.988	0	0	None
213-62	Sail Loft	KSF	46.948	0	0	A21, A27, C10
213-63	Foundry (81)	KSF	0	0	53.508	A02, A30, C30, C38
213-64	Pattern Maker (94)	KSF	31.785	0	0	A02, D30
213-65	Nuclear Repair	KSF	36.267	0	0	None
213-66	Temporary Svc (99)	KSF	63.894	.501	0	B26, C30, D30
213-10	Drydocks	KSF	506.010	0	0	See Note (2); A04, A05, A21, A23, C30, C32
213-67	Drydock Pumpouse	KSF	38.430	0	0	None
213-68	Divers Change House					N/A to PHNS
213-70	Ship Svc Support	KSF	13.322	0	0	None
213-77	Ships/Spares Storage	KSF	103.011	50.733	0	A21, A24, A30, A27, B26, C30, C11, C10, C05, C51, C53, D30, E05
213-20	Marine Railway					N/A to PHNS
213-40	Fixed Crane Structures	KEA	.001	0	0	None
151-20	GP Berth Pier					N/A to PHNS
151-50	GP Repair Pier	KFB	6.556	0	0	A05, A30, A25, A21, A42, E30, E21
152-20	Berth Wharf					N/A to PHNS
152-50	Repair Wharf	KFB	4.835	.762	0	A05, A21, A25, E05, F30
154-20	Quaywalls					N/A to PHNS
155-10	Fleet Landing					N/A to PHNS
155-20	Small Craft Berthing	KFB	.128	0	0	C30
860-10	Railroad Trackage					N/A to PHNS

Note: (1) The table's Adequate, Inadequate, and Substandard Condition rating reflects an operational usage condition and not a "dollars to repair" condition as defined in NAVFACINST 11010.44, Section 5.7. For this data call, an adequate facility condition is defined as a facility being fully operational for basic mission requirements.

(2) Drydocks 1, 2 and 4 have modernization MILCONs to upgrade electrical systems. Existing electrical system is fully capable for current use.

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33. Physical Space for Industrial Support , continued

Table 33.1.b: Work Centers/Facilities Conditions

CCN	Shop Type / Work Stations	Unit	Condition (See Note (1))			Comments/ Efficiency Codes
			Adequate	Inadequate	Substandard	
213-61	Rigging Shop (72)	KSF	68.988	0	0	None
213-62	Sail Loft	KSF	46.948	0	0	A21, A27, C10
213-63	Foundry (81)	KSF	0	0	53.808	A02, A30, C30, C38
213-64	Pattern Maker (94)	KSF	31.785	0	0	A02, D30
213-65	Nuclear Repair	KSF	36.267	0	0	None
213-66	Temporary Svc (99)	KSF	63.894	.581	0	B26, C30, D30
213-10	Drydocks	KSF	506.010	0	0	See Note (2); A94, A05, A21, A23, C30, C32
213-67	Drydock Pumpouse	KSF	38.430	0	0	None
213-68	Divers Change House					N/A to PHNS
213-70	Ship Svc Support	KSF	13.322	0	0	None
213-77	Ships/Spares Storage	KSF	103.011	50.733	0	A21, A24, A30, A27, B26, C30, C11, C10, C05, C51, C53, D30, E05
213-20	Marine Railway					N/A to PHNS
213-40	Fixed Crane Structures	EA	.001	0	0	None
151-20	GP Berth Pier					N/A to PHNS
151-60	GP Repair Pier	FB	6.356	0	0	A05, A30, A25, A21, A42, B30, B21
152-20	Berth Wharf					N/A to PHNS
152-60	Repair Wharf	KFB	4.935	.762	0	A05, A21, A25, E05, F30
154-20	Quaywalks					N/A to PHNS
155-10	Fleet Landing					N/A to PHNS
155-20	Small Craft Berthing	KFB	.128	0	0	C30
860-10	Railroad Trackage					N/A to PHNS

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Note: (1) The table's Adequate, Inadequate, and Substandard Condition rating reflects an operational usage condition and not a "dollars to repair" condition as defined in NAVFACINST 11010 44, Section 5.7. For this data call, an adequate facility condition is defined as a facility being fully operational for basic mission requirements.

(2) Drydocks 1, 2 and 4 have modernization MILCONs to upgrade electrical systems. Existing electrical system is fully capable for current use.

33. Physical Space for Industrial Support , continued

Table 33.1.b: Work Centers/Facilities Conditions

CCN	Shop Type / Work Stations	Unit	Condition (See Note (1))			Comments/ Deficiency Codes
			Adequate	Inadequate	Substandard	
213-61	Rigging Shop (72)	KSF	68.988	0	0	None
213-62	Sail Loft	KSF	46.948	0	0	A21, A27, C10
213-63	Foundry (81)	KSF	0	0	53.508	A02, A30, C30, C38
213-64	Pattern Maker (94)	KSF	31.785	0	0	A02, D30
213-65	Nuclear Repair	KSF	36.267	0	0	None
213-66	Temporary Svc (99)	KSF	63.894	.501	0	B26, C30, D30
213-10	Drydocks	KSF	506.010	0	0	See Note (2); A04, A05, A21, A23, C30, C32
213-67	Drydock Pumphouse	KSF	38.430	0	0	None
213-68	Divers Change House					N/A to PHNS
213-70	Ship Svc Support	KSF	13.322	0	0	None
213-77	Ships/Spares Storage	KSF	103.011	50.733	0	A21, A24, A30, A27, B26, C30, C11, C10, C05, C51, C53, D30, E05
213-20	Marine Railway					N/A to PHNS
213-40	Fixed Crane Structures	EA	.001	0	0	None
151-20	GP Berth Pier					N/A to PHNS
151-50	GP Repair Pier	FB	6.556	0	0	A05, A30, A25, A21, A42, B30, B21
152-20	Berth Wharf					N/A to PHNS
152-50	Repair Wharf	KFB	4.835	.762	0	A05, A21, A25, E05, F30
154-20	Quaywalls					N/A to PHNS
155-10	Fleet Landing					N/A to PHNS
155-20	Small Craft Berthing	KFB	1.268	0	0	C30
860-10	Railroad Trackage					N/A to PHNS

Note: (1) The table's Adequate, Inadequate, and Substandard Condition rating reflects an operational usage condition and not a "dollars to repair" condition as defined in NAVFACINST 11010.44, Section 5.7. For this data call, an adequate facility condition is defined as a facility being fully operational for basic mission requirements.

(2) Drydocks 1, 2 and 4 have modernization MILCONs to upgrade electrical systems. Existing electrical system is fully capable for current use.

Deficiency Codes from NAVFACINST 11010.44E

First Character - Deficient because of:

- | | | | |
|----|------------------------------|----|-------------------------------------|
| A. | Physical Condition | E. | Nonexistent |
| B. | Functional or Space Criteria | F. | Total Obsolescence or Deterioration |
| C. | Design Criteria | G. | Inadequate Capacity Coverage |
| D. | Location or Siting Criteria | | |

Second and third Characters: Area of Deficiency

- | | | | |
|-----|--|-----|---------------------------|
| 01. | Heating System | 42. | Fender Systems |
| 02. | Ventilation/Exhaust | 43. | Rails/Tracks |
| 03. | Air Cond./Environmental Control | 44. | Cold Iron |
| 04. | Plumbing/Piping/Fixtures | 45. | Seismic Design |
| 05. | Fire Deterrent Systems | 46. | Depth of Water |
| 06. | Fuel Systems/Piping | 47. | Facility Characteristics |
| 07. | Refrigeration Systems | 48. | Ceiling Height |
| 08. | Elevators/Escalators/People Movers | 49. | Energy Efficiency |
| 09. | Sewerage/Wastes | 50. | Facility Components |
| 10. | Lighting/Fixtures | 51. | Ceiling |
| 11. | Power Capacity | 52. | Doors |
| 12. | Wiring/Feeders | 53. | Interior Partitions |
| 13. | Alarm Systems | 54. | Stairs/Stairwells |
| 14. | Communications | 55. | Windows |
| 15. | Facility Location | 56. | Safety Standards |
| 16. | Plain/Environmental
Incompatibility | 57. | Explosive Hazard |
| 17. | Hazardous Material | 58. | Fire Codes |
| 18. | Site Characteristics | 59. | Hazardous Waste |
| 19. | Accessibility | 60. | Radiation Hazard |
| 20. | Foundation | 61. | Lightning Protection |
| 21. | Slab/Floor Decking | 62. | Environmental Systems |
| 22. | Column/Support System | 63. | Electrical Systems |
| 23. | Walls-Exterior | 64. | Standby Power Supply |
| 24. | Roof Support/trusses | 65. | Piping Systems |
| 25. | Piling | 66. | Support Systems |
| 26. | Building Interior/Configuration | 67. | Energy Monitoring/Control |
| 27. | Roof | 68. | Security/Intrusion |
| 28. | Soundproofing | 69. | Telephone |
| 29. | Waterproofing | 70. | Conveying Systems |
| 30. | Building or Structure (Total) | 71. | Material Handling Systems |
| 31. | Fencing | 72. | Physical Security |
| 32. | Drainage | | |
| 33. | Landscaping | | |
| 34. | Stabilization | | |
| 35. | Paved Surfacing | | |
| 36. | Explosives Quantity Distance Arc | | |
| 37. | Airfield Safety Clearance | | |
| 38. | Pollution Abatement | | |
| 39. | Excessive Noise | | |
| 40. | OSHA Deficiency | | |
| 41. | Toilets (Bachelor Housing) | | |

Activity N00311

33. Physical Space for Industrial Support , continued

33.2 In accordance with NAVFACINST 11010.44E, an inadequate facility cannot be made adequate for its present use through "economically justifiable means". For all shops and work centers in Tables 33.1.a and 33.1.b above where inadequate facilities are identified, provide the following information:

CCN 213-41

Bldg. 68

- a. Facility type/code: Semi-permanent
- b. What makes it inadequate? Physical deterioration of facility, plumbing, electrical
- c. What use is being made of the facility? CCN 213-41 Central Maintenance Asbestos Siding Shop 06
- d. What is the cost to upgrade the facility to substandard? \$507K
- e. What other use could be made of the facility and at what cost?
- f. Current improvement plans and programmed funding: \$1.475K (Replace lights/electrical system, repair restroom/plumbing
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

CCN 213-55

Bldg. 8

- a. Facility type/code: Perm
- b. What makes it inadequate? Abandoned, total deterioration of facility
- c. What use is being made of the facility? CCN 213-55 Facility is abandoned
- d. What is the cost to upgrade the facility to substandard? \$1,375K
- e. What other use could be made of the facility and at what cost?N/A
- f. Current improvement plans and programmed funding:Demoliton FY94
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

CCN 213-56

Bldg. 823

- a. Facility type/code: Temporary
- b. What makes it inadequate? Quonset hut facility
- c. What use is being made of the facility? CCN 213-56 SHT Warehouse Code 964-B
- d. What is the cost to upgrade the facility to substandard? \$0
- 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

CCN213-57

Bldg. T48

- a. Facility type/code: Temporary
- b. What makes it inadequate? Quonset hut facility; deteriorated roof, electrical
- c. What use is being made of the facility? CCN: 213-57 Transducer storage
- d. What is the cost to upgrade the facility to substandard? \$0
- e. What other use could be made of the facility and at what cost?
- f. Current improvement plans and programmed funding: None
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

Bldg. T47

- a. Facility type/code: Temporary
- b. What makes it inadequate? Quonset hut; deteriorated roof/side
- c. What use is being made of the facility? CCN: 213-57 Cal Lab shipping/receiving
- d. What is the cost to upgrade the facility to substandard? \$13K
- e. What other use could be made of the facility and at what cost?
- f. Current improvement plans and programmed funding: Demolition FY94
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREI? No

CCN 213-60

Bldg. 1361

- a. Facility type/code: Permanent
- b. What makes it inadequate? Total deterioration of structure
- c. What use is being made of the facility? CCN 213-60 Paint Spray Booth
- d. What is the cost to upgrade the facility to substandard? \$16K
- e. What other use could be made of the facility and at what cost? None
- f. Current improvement plans and programmed funding: Connect fire sprinkler system to main \$25K
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREI? No

Bldg. 857

- a. Facility type/code: Temporary
- b. What makes it inadequate? Total deterioration of facility
- c. What use is being made of the facility? CCN 213-60 Locker Area
- d. What is the cost to upgrade the facility to substandard? Beyond economical repair \$9K
- e. What other use could be made of the facility and at what cost? None
- f. Current improvement plans and programmed funding: Demolish FY96
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREI? No

Bldg. 4

- a. Facility type/code: Permanent
- b. What makes it inadequate? Deteriorated foundation/corrugated roof sides, fire sprinkler
- c. What use is being made of the facility? Cat Code 213-60
- d. What is the cost to upgrade the facility to substandard? \$80K
- e. What other use could be made of the facility and at what cost? Project Management Facility
- f. Current improvement plans and programmed funding: Fire sprinkler, construction office area for Project Management \$500K
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREI? No

CCN 213-66

Bldg. S17A

- a. Facility type/code: Semi-permanent
- b. What makes it inadequate? Corrugated sides deteriorated
- c. What use is being made of the facility? CCN: 213-66 Pump house storage
- d. What is the cost to upgrade the facility to substandard? \$6K
- e. What other use could be made of the facility and at what cost? No other use
- f. Current improvement plans and programmed funding: None
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREI? No

CCN 213-77

Bldg. T15

- a. Facility type/code: Temporary
- b. What makes it inadequate? Quonset hut facility
- c. What use is being made of the facility? CCN: 213-77 Crane spare parts storage
- d. What is the cost to upgrade the facility to substandard? \$1K
- e. What other use could be made of the facility and at what cost?
- f. Current improvement plans and programmed funding: None
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

Bldg. 385

- a. Facility type/code: Semi-permanent
- b. What makes it inadequate? Deteriorated floor slab and building structure
- c. What use is being made of the facility? CCN 213-77
- d. What is the cost to upgrade the facility to substandard? \$15K
- e. What other use could be made of the facility and at what cost?
- f. Current improvement plans and programmed funding: None
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

Bldg. 72

- a. Facility type/code: Permanent
- b. What makes it inadequate? Inadequate power, deteriorated corrugated roof and siding
- c. What use is being made of the facility? CCN 213-77 Sheetmetal Shop
- d. What is the cost to upgrade the facility to substandard? \$24K
- e. What other use could be made of the facility and at what cost?
- f. Current improvement plans and programmed funding: Install emergency lights, fire sprinkler \$240K
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

Bldg. 15A

- a. Facility type/code: Temporary
- b. What makes it inadequate? Quonset hut
- c. What use is being made of the facility? CCN 213-77 Crane Spare Parts Storage
- d. What is the cost to upgrade the facility to substandard? \$0
- e. What other use could be made of the facility and at what cost?
- f. Current improvement plans and programmed funding: None
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

Bldg. 4A

- a. Facility type/code: Permanent
- b. What makes it inadequate? Deteriorated flooring, corrugated roof/sides, roof support trusses
- c. What use is being made of the facility? CCN 213-77 Ship Spare Storage
- d. What is the cost to upgrade the facility to substandard? \$145K
- e. What other use could be made of the facility and at what cost?
- f. Current improvement plans and programmed funding: Fire sprinkler system FY97 \$375K
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

Bldg. 3B

- a. Facility type/code: Permanent/213-77
- b. What makes it inadequate? Extensive termite damage
- c. What use is being made of the facility? CCN 213-77 Shipyard Record Storage
- d. What is the cost to upgrade the facility to substandard? \$7K
- e. What other use could be made of the facility and at what cost?
- f. Current improvement plans and programmed funding: None
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

CCN 152-50

O-1 Pier

- a. Facility type/code: Permanent
- b. What makes it inadequate? Deteriorated slab and pilings - beyond economical repair
- c. What use is being made of the facility? CCN 152-50 Repair Wharf
- d. What is the cost to upgrade the facility to substandard? \$1,100K
- e. What other use could be made of the facility and at what cost? No other use possible
- f. Current improvement plans and programmed funding: Planned for disposal
- g. Has this facility condition resulted in C3 or C4 designation on your BASEREP? No

33. Physical Space for Industrial Support , continued

33.3 What is the actual useable area in total KSF of applicable floor space in appropriate structures for facilities to perform industrial support functions?

33.4 What is the planned requirement (to support planned ship maintenance and modification over the next five years) in total KSF of applicable floor space in appropriate structures for facilities to perform industrial support functions?

33.5 Given the foregoing, what is the surplus area in total KSF of applicable floor space in appropriate structures for facilities to perform industrial support functions?

Table 33.3 : Industrial Support Physical Space

Categories of Space	Actual Area (KSF)	Required Area (KSF)	Surplus Area (KSF)
Office, warehouse, & external storage for procurement, storage, security, issue, packaging, and shipment, etc.	1613.2	1613.2	0
Office space for command, management, & administrative, etc.	393.1	393.1	0
Office space for drafting, work planning, & computer aided design, etc.	122.9	138.6	0
Storage for technical manuals & drawings of equipment/components for life-cycle management, etc.	12.7	12.7	0

33. Physical Space for Industrial Support, continued

33.6 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 air fields, 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 33.6: Real Estate Resources

Site Location: Main Base

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted	Unrestricted
Maintenance	131	131	0	0
Operational	0	0	0	0
Training	1.6	1.6	0	0
R & D	0	0	0	0
Supply & Storage	17	11	0	0
Admin	10	10	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 -tenant activities	148.7	148.7	0	0
Total:	308.30	302.30	0	0

34. Facility and Equipment Values

34.1 Identify the facility and equipment values for your activity in the Table below, as executed/budgeted for the period requested. As applied herein:

- 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 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.

Table 34.1: Expenditures and Equipment Values

FY	MRP (\$ K)	CPV (\$ K)	ACE (\$ K)
1986	11,008	1,021,665	11,704.2
1987	13,034	1,063,372	14,272
1988	14,897	1,140,504	9,692
1989	15,625	1,158,246	11,330
1990	15,133	1,179,779	14,079
1991	13,929	1,194,683	5,454
1992	18,243	1,218,922	4,280
1993	16,800	1,267,247	19,595
1994	21,592	1,320,579	6,793
1995	24,729	1,373,977	4,956
1996	20,447	1,429,341	8,770
1997	22,745	1,487,185	8,395

35. Facility Limitations

35.1 Provide the maximum number of ship types and depot events that can be simultaneously worked under normal single shift operations in the present shipyard facilities (without improvements to the yard). Given the assumptions applied in the Mission Area portion of this Data Call (question #.2 of sections 1 through 30), provide the maximum number of ship types and depot events that could be simultaneously worked in the shipyard if it were expanded to maximum production capability (with the most reasonable set of practical improvements to the yard). As limiting factors, include any ship berthing, drydock, crane, shop space, assembly area, tools/equipment, technical documentation, replacement parts storage/issue or pre-processing, etc., which physically restrict your industrial plant.

Table 35.1: Facility Limitations

Ship Type / Depot Event	Number of Depot Events that can be Simultaneously Worked		
	Present Configuration	Maximum Production	Limiting Factors
SSN ROH/RFOH	2	4	DDs, refueling equipment SSN688 Refueling Facility avail FY97
SSN DMP	1	3	DDs,BAMs
SSN INACT	1	2	DDs,BAMs
SSN DSRA/SRA	1	1	DDs,BAMs
NON-NUC ROH	2	2	DDs
NON-NUC DSRA/SRA	18	18	DDs/pier space

36. Productive Output Factors

36.1 For the following Shops provide your productive output estimates in DLMYs. Add other critical Shops or Work Stations as appropriate and their planned productive output below the listed facility types.

Table 36.1.a: Productive Output Factors (DLMYs)

Shop Type	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Central Tool Shop (06)	.006	.008	.009	.009	.009	.008	.007	.008
Shipfitter (11)	.130	.191	.097	.111	.123	.145	.109	.142
Sheetmetal (17)	.059	.078	.046	.053	.058	.072	.050	.070
Foundry/Forge/Heat Trmt (81)	.006	.006	.005	.005	.005	.005	.005	.005
Welding (26)	.101	.140	.080	.089	.097	.118	.092	.125
Inside Machine (31)	.038	.063	.052	.057	.061	.063	.051	.062
Outside Marine Machine (38)	.121	.165	.175	.170	.180	.186	.140	.157
Boilermaker (41)	.024	.044	.021	.024	.023	.026	.019	.022
Electrical (51)	.095	.124	.067	.086	.085	.117	.083	.122
Pipefitting (56)	.124	.143	.098	.100	.115	.141	.105	.124
Wood/Plastics/Insulators (64)	.131	.171	.116	.118	.135	.166	.119	.162
Electronics (67)	.095	.093	.078	.069	.085	.111	.079	.108
Paint/Blasting (71)	.069	.095	.063	.063	.073	.090	.064	.087
Rigging (72)	.151	.237	.194	.218	.215	.225	.183	.198
Temporary Svc (99)	.052	.073	.059	.067	.067	.074	.062	.057
Radiological Controls (105)	.027	.031	.036	.029	.030	.037	.032	.015
Calibration (52)	.014	.015	.015	.015	.015	.015	.015	.015
Total	1.243	1.677	1.211	1.283	1.376	1.599	1.215	1.479

36. Productive Output Factors, continued

Table 36.1.b: Productive Output Factors (DLMYs)

Shop Type	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Occupational Health & Safety (106)	.004	.006	.005	.006	.006	.006	.005	.005
Environmental Affairs (106/120)	.000	.001	.001	.001	.001	.001	.001	.001
Quality Assurance (130)	.043	.048	.050	.039	.055	.054	.037	.051
Engineering & Planning (200)	.216	.216	.172	.180	.220	.225	.147	.211
Operations Dept (300 & Project Mgrs)	.079	.093	.073	.075	.088	.086	.069	.073
Supply Dept (500)	.011	.018	.014	.018	.017	.022	.015	.024
Business & Strategic Planning (1200)	.006	.005	.004	.003	.005	.005	.004	.002
Nuc Quality Assurance (1300)	.012	.016	.020	.013	.014	.013	.014	.006
Nuc Engineering & Planning (2300)	.073	.084	.088	.050	.054	.069	.051	.026
Engineers - Conv (240)								
Engineers - Nuc (2300)								
RADCON (105)	.016	.021	.018	.017	.018	.018	.017	.014
Resources (900)								
Crane (980)	.016	.014	.011	.009	.005	.003	.006	.003
Table 36.1.b Total:	.476	.522	.456	.411	.483	.503	.366	.416
Table 36.1.a Total:	1.243	1.677	1.211	1.283	1.376	1.593	1.215	1.479
Activity Total	1.719	2.199	1.677	1.694	1.859	2.107	1.581	1.895

37. Berthing Capability

37.1 Identify the age and structural characteristics for each pier and wharf at your facility or under your cognizance by NAVFAC P-80 Category Code Number (CCN), and dimensions as requested. If unable to maintain the stated design dredge depth, provide explanatory comment following the Table. Identify water distance between adjacent piers, in lieu of slip width, where appropriate. Indicate if the pier is inside a Controlled Industrial Area or High Security Area and the Net Explosive Weight (NEW) ESQD limits, if applicable. Identify any additional controls required in the space following this Table. Identify the average number of days per year over the last eight years (the period FY 1987-1994) that the pier or wharf was out of service (OOS) for maintenance (including dredging of the associated slip).

Table 37.1: Pier and Wharf Characteristics

Pier or Wharf	Age	CCN	Moor Length (FT)	Design Dredge Depth (FT)(MLLW)	Slip Width (FT)	Pier Width (FT)	CIA / Security Area? (Y / N)	ESQD NEW Limit	Average Annual Days OOS
B1	73	15250	348	40	N/A	79	Y	NONE	3
B2	58	15250	1011	40	N/A	39	Y	NONE	3
B3	66	15150	704	40	N/A	89	Y	NONE	3
B4	66	15150	704	35	150	89	Y	NONE	3
B5	62	15250	285	35	N/A	33	Y	NONE	3
B6	62	15150	554	35	150	40	Y	NONE	3
B7	51	15150	721	35	150	50	Y	NONE	3
B8	51	15150	721	35	150	50	Y	NONE	3
B9	51	15250	293	35	N/A	43	Y	NONE	3
B10	51	15150	724	35	150	100	Y	NONE	3
B11	58	15150	724	35	150	100	Y	NONE	3
B12	58	15150	724	40	150	100	Y	NONE	3
B13	58	15250	533	40	150	65	Y	NONE	3
B14	58	15250	700	40	N/A	65	Y	NONE	3
B15	58	15150	1524	40	150	100	Y	NONE	3
B16	58	15150	1524	40	150	100	Y	NONE	3
B17	58	15150	1524	40	150	100	Y	NONE	13

Pier or Wharf	Age	CCN	Moor Length (FT)	Design Dredge Depth (FT)(MLLW)	Slip Width (FT)	Pier Width (FT)	CIA / Security Area" (Y / N)	ESQD NEW Limit	Average Annual Days OOS
B18	58	15150	1524	40	150	100	Y	NONE	13
B19	58	15250	144	40	N/A	65	Y	NONE	13
B20	58	15250	920	40	150	42	Y	NONE	13
N1	73	15250	131	40	N/A	45	Y	NONE	NONE
N2	73	15250	69	40	N/A	43	Y	NONE	NONE
GD-1	52	15150	282	40	200	51	Y	NONE	NONE
GD-2	52	15150	227	40	N/A	48	Y	NONE	NONE
B21	52	15250	920	40	150	42	Y	PARTIAL NAVSTA	13

Additional comments: Identify any piers or wharves already serving as dedicated berths (e.g. in support of inactive ships).

1. Number of days OOS is estimated at 3 days/year for pier/pile replacement.
2. Piers B17-B21 were repaired in 1992.

37. Berthing Capability, continued

37.2 Identify all MILCON improvements executed in the period FY 1986-1994 for each pier or wharf identified in Table 37.1.

There were no MILCONs executed for piers in FY86-FY94.

Table 37.2: Pier and Wharf MILCON

Pier or Wharf	Year MILCON Executed	Nature of Improvement

37.3 List all ESQD waivers currently in effect, with expiration dates, for all applicable piers and wharves identified in Table 37.1.

Table 37.3: ESQD Waivers In Effect

Pier or Wharf	Nature of Waiver	Date Waiver Expires
None		

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37. Berthing Capability, continued

37.4 For all piers and wharves at your facility or under your cognizance, indicate which, if any, are RO/RO and/or aircraft accessible, and conditions which apply.

None of our piers or wharves are RO/RO or aircraft accessible.

Table 37.4: Pier and Wharf Access

Pier or Wharf	RO/RO Access?	Aircraft Access?

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

An estimated 2000 feet of pier space is required to berth and support ancillary craft consisting of 10 barges and 3 floating cranes. No pier is uniquely suited to support these craft in that these craft can dock at any pier.

37. Berthing Capability, continued

37.6 Identify the ship support characteristics for each Pier and Wharf under your activity's cognizance. Indicate if the pier or wharf is listed in OPNAVINST 3000.3. For Compressed Air and Oily Waste disposal, list only permanently installed facilities. For steam, indicate below the Table if any piers or wharves provide certified steam. If any permanent fendering arrangement limits apply, identify them in the space following the Table.

Table 37.6: Pier and Wharf Ship Support Characteristics

Pier/ Wharf	NPW Berth? (Y/N)	KVA		Comp. Air Pressure & Max Capability	Potable Water (GPD)	CHT (GPD)	Oily Waste (GPD)	Steam (LBM/HR & PSI)	Fendering Limits (Y/N)
		Shore Power	4160V						
B1/B2	Include answer in separate annex	13750	NA	100/10,000	288,000	696,000	0	10,000/100	N
B3/B4		9375	NA	100/10,000	288,000	417,600	0	10,000/100	N
B5		332	NA	100/10,000	288,000	NA	0	N/100	N
B6		1660	NA	100/2500	288,000	192,000	0	N/100	N
B7/B8		13000	NA	100/3600	288,000	235,200	0	10,000/100	N
B9		664	NA	100/3600	288,000	NA	0	10,000/100	N
B10/B11 /B12		11250	NA	100/3600	288,000	696,000	0	10,000/100	N
B13		6250	NA	100/3600	288,000	696,000	0	10,000/100	N
B14		332	NA	NA	NA	696,000	0	N/100	N
B15/B16 /B17/ B18/B19		20000	NA	100/10,000	288,000	696,000	0	10,000/100	N
B20/B21		3750	NA	100/2500	288,000	849,600	0	10,000/100	N

1. Public Works Center, Pearl own and operate Pearl Harbor Naval Shipyard's Utility Systems.

37. Berthing Capability, continued

37.7 For each pier and wharf listed above, state today's normal loading by ship class with current facility ship loading, the maximum berthing, maximum berthing for weapons handling evolutions, and maximum berthing to conduct maintenance. For ordnance handling capability, identify the maximum number of ships that can be moored at each pier or wharf to conduct ordnance handling evolutions, without necessitating berth shifts. Incorporate all applicable safety, ESQD, and access limitations. Include comments below the Table if necessary. For berthing in support of maintenance, list the maximum number of ships that can be serviced in maintenance availabilities at each pier or wharf without necessitating berth shifts to accommodate crane, laydown or access limitations. Provide any additional comments in the space following the Table.

Table 37.7: Pier and Wharf Normal Loading

Pier or Wharf	Typical Steady State Loading	Maximum Ship Berthing	Ordnance Handling Pierside?	Perform Maintenance Pierside?
B-1	SSN/DD	1	NONE	Y(1)
B-2	SSN/DD	1	NONE	Y(1)
B-3	SSN/DD	1	NONE	Y(1)
B-4	Aux Craft	2-3	NONE	Y(2-3)
B-5	--	--	NONE	N
B-6	Aux Craft	2-3	NONE	Y(2-3)
B-7	Aux Craft	2-3	NONE	Y(2-3)
B-8	Aux Craft	2-3	NONE	Y(2-3)
B-9	--	--	NONE	N
B-10	DD	1	NONE	Y(1)
B-11	DD	1	NONE	Y(1)
B-12	DD, CG	1	NONE	Y(1)
B-13	DD, CG	1	NONE	Y(1)
B-14	Aux Craft	1	NONE	Y(1)
B-15	DD,CG	1	NONE	Y(1)
B-16	DD,CG	1	NONE	Y(1)
B-17	DD,CG	1	NONE	Y(1)

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B-18	DD,CG	1	NONE	Y(1)
B-19	DD,CG	1	NONE	Y(1)
B-20	DD,CG	1	NONE	Y(1)
B-21	DD,CG	1	NONE	Y(1)
N-1	Caisson	1	NONE	Y(0)
N-2	Caisson	1	NONE	N(0)
GD-1	Caisson	1	NONE	N(0)
GD-2	Caisson	1	NONE	N(0)

- Note: 1. No crane service B-5, B-6 and half of B-12.
2. B-15 to B-21 are used by Naval Station Pearl Harbor under an ISSA.

37. Berthing Capability, continued

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

An estimated 2000 feet of pier space is required to berth and support ancillary craft consisting of 10 barges and 3 floating cranes. No pier is uniquely suited to support these craft in that these craft can dock at any pier.

37.9 What is the average pier loading in ships per day due to visiting ships at your facility/piers or wharves under your cognizance? Indicate if this varies significantly by season.

About four (4) is the average and does not vary by season. Pier loading usually increases in the port of Pearl Harbor in the month of December but not normally in the shipyard. Our pier loading is not seasonal.

37.10 Given no funding or manning limits, what modifications or improvements would you make to the waterfront infrastructure to increase the cold iron ship berthing capability of your installation/under your cognizance. Provide a description, cost estimates, and additional capability gained.

P-266 SHORE POWER IMPROVEMENTS FOR DRYDOCKS NO. 4

This project will provide dedicated transformers for hotel outlets and upgrade the industrial outlet capability to serve U.S. naval ships at Drydock No. 4

The existing electrical system serves both hotel outlets and industrial outlets. Modern submarines and surface ships require upgrounded hotel power. Industrial loads presently interconnected to the shorepower system reduce the system resistance to ground to unacceptable levels and may create safety hazards to personnel and cause damage to vital shipboard equipment systems.

Shorepower outlets continue to be insufficient to serve scheduled ship availabilities, and this often causes schedule delays .

Repair Cost - \$6,600,000

P-312 WATERFRONT UTILITIES IMPROVEMENTS

This project will upgrade all utilities in designated waterfront work areas to meet service requirements for ships to be repaired and overhauled. Utilities to be improved include steam, compressed air, potable water, saltwater, telecommunication, sewage, industrial waste and electricity.

The following waterfront areas will be upgraded: Drydocks 1 through 4, Berths N-1 and

N-2, Berths GD-1 through GD-5, Berths B-1 through B-21, and 10-10 Slip.

The following classes of ships will be berthed at the above mentioned piers for repairs and overhaul: FF, SSN, DDG, CG, BB, AO, LST, ATS, LSD and other ships as assigned to Pearl Harbor. \$9,500,000

P-454 ALTERNATE ELECTRICAL SERVICE

This project will provide alternate electrical service to the Shipyard. This will increase reliability of electrical service for essential Shipyard electrical loads. Distribution lines, switching station equipment, and Supervisory Control and Data Acquisition (SCADA) will also be provided.

Because of the Shipyard's dual role of supporting both naval ships homeported at Pearl Harbor and those ships transiting the Pacific, the Shipyard must maintain the capability of accommodating and providing a backup power supply for reliability in case of power supply failure through present transmission lines. \$19,000,000

P-455 EMERGENCY POWER SYSTEM, INCREMENT I

This project will provide emergency electrical power capability by installing engine driven generators, power circuit breakers, electrical distribution system, and Supervisory Control and Data Acquisition (SCADA) equipment for the Shipyard.

This project will provide an emergency power and distribution system for the critical loads in the Shipyard with the capability to meet current, projected and mobilization workloads without significant interruption in operations.

The 10MW of power generation and upgrade of the electrical distribution lines are needed to provide the minimum levels of utility support and redundancy required by NAVSEAINST 11310.1, Utility Support Systems Reliability in Naval Shipyards.

\$22,300,000

P-465 EMERGENCY POWER SYSTEM, INCREMENT II

This project will provide additional standby engine generator, 11.5KV primary switchgear and distribution lines, Supervisory Control and Data Acquisition equipment and replace 11.5KV primary distribution lines.

A sufficient and reliable system is needed to support the essential Shipyard operations for repair. The 2.5MW of power generation and upgrade of the electrical distribution lines are needed to provide the minimum levels of utility support and redundancy.

\$15,600,000

P-474 SHORE POWER IMPROVEMENTS FOR MODERN SUBMARINES, DD NO. 1 & DD NO. 2

This project will provide dedicated transformers for hotel outlets and upgrade the industrial capability to serve modern submarines at Drydock Nos. 1 and 2.

The existing electrical system serves both hotel and industrial outlets. Modern submarines and surface ships require ungrounded hotel power. Industrial loads presently interconnected to the shorepower system reduce the system resistance to ground to unacceptable levels and may create safety hazards to personnel and cause damage to vital shipboard equipment systems.

Shorepower outlets will continue to be unacceptable and insufficient to serve the submarines scheduled to be overhauled and repaired causing repair delays.

\$6,600,000

37.11 Describe any unique limits or enhancements on the berthing of ships at specific piers or wharves under your cognizance.

Berths B-7, B-8, B-10, and B-11 have unique limitations in that these berths are not capable of berthing CG-47 class ships because the depth required to berth these class ships exceed the actual depths of these berths. Also, a minor limitation is that the portal cranes cannot run the full length of berth B-12 because the crane tracks do not extend to the end of the B-12 pier.

38. Quarters and Messing

38.1 Housing and Messing. Provide data on the BOQs and BEQs assigned to your current plant account. The unit of measure for this capability is number of people housed. Use CCN to differentiate between pay grades (i.e., E1-E4, E5-E6, E7-E9, CWO-C02, O3 and above).

Table 38.1: Current Housing Facilities

Facility Type, Bldg. #, & CCN	Total # Beds	Total # Rooms	Adequate		Substandard		Inadequate	
			# Beds	SF	# Beds	SF	# Beds	SF
None								

38.2 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?

38. Quarters and Messing, continued

38.3 Provide data on the BOQs and BEQs projected to be assigned to your plant account in FY 1997. The desired unit of measure for this capacity is people housed. Use CCN to differentiate between pay grades, i.e., E1-E4, E5-E6, E7-E9, CWO-O2, O3 and above.

Table 38.3: Projected Berthing Facilities

Facility Type, Bldg. # & CCN	Total No. of Beds	Total No. of Rooms	Adequate		Substandard		Inadequate	
			Beds	SF	Beds	SF	Beds	SF
None								

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

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

38. Housing and Messing, continued

38.5 Provide data on the messing facilities assigned to your current plant account.

There are no messing facilities assigned to our current plant account.

Table 38.5: Current Messing Facilities

Facility Type, Bldg. #, & CCN	Total SF	Adequate		Substandard		Inadequate		Avg # Noon Meals Served
		Seats	SF	Seats	SF	Seats	SF	

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

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

38. Housing and Messing, continued

38.7 Provide data on the messing facilities projected to be assigned to your plant account in FY 1997.

There are no projected messing facilities to be assigned to our plant account in FY 97.

Table 38.7: Projected Messing Facilities

Facility Type, Bldg. #, & CCN	Total SF	Adequate		Substandard		Inadequate		Avg # Noon Meals Served
		Seats	SF	Seats	SF	Seats	SF	

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

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

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38. Quarters and Messing, continued

38.9 Provide the following information on base infrastructure utility and support services.

Table 38.9: Base Utilities and Support Services

	On Base Capacity	Off Base Long Term Contract	Normal Steady State Load	Peak Demand
Electrical Supply	NA	66,000 KVA	22,000 KWH	39,500 KW
Natural Gas (CFH)	NA	NA	NA	NA
Sewage (GPD)	2,000,000	NA		
Potable Water (GPD)	20,300,000	NA		
Steam (PSI & lbm/Hr)	250/120,000	NA	10,000	100/60,000
Long Term Parking	6000+	-	3000	3000
Short Term Parking	6000+	--	3000	3000

1. Information provided by Public Works Center, Pearl.
2. Public Works Center, Pearl own and operate Pearl Harbor Naval Shipyard's Utility Systems.

38. Quarters and Messing, continued

38.9 Provide the following information on base infrastructure utility and support services.

Table 38.9: Base Utilities and Support Services

	On Base Capacity	Off Base Long Term Contract	Normal Steady State Load	Peak Demand
Electrical Supply (KWH)	NA	66,000	22,000	39,500
Natural Gas (CFH)	NA	NA	NA	NA
Sewage (GPD)	2,000,000	NA		
Potable Water (GPD)	20,300,000	NA		
Steam (PSI & lbm/Hr)	250/120,000	NA	10,000	100/60,000
Long Term Parking	6000+	--	3000	3000
Short Term Parking	6000+	--	3000	3000

1. Information provided by Public Works Center, Pearl.
2. Public Works Center, Pearl own and operate Pearl Harbor Naval Shipyard's Utility Systems.

39. Regional Maintenance Concept

39.1 If applicable, describe your activity's role, relationships, and functions under the Regional Maintenance Concept (RMC). Based on your current workload mix and capabilities, provide details on anticipated annual throughput associated with the RMC (workload transfers both in and away from your activity). For gained workload, report only workload projected in addition to workload identified previously in this Data Call. Utilize the applicable Joint Cross Service Group-Depot Maintenance Commodities Group List (provided at the beginning of this Data Call) as a base line for grouping workload. Add additional categories/commodity areas as required. Provide your answer by Units Throughput (as applicable) and Direct Labor Man Hours in the tables below. Identify the activity from which or into which the workload is expected to transfer in the last column.

Table 39.1: Workload Transfers Resulting From RMC

Commodity Group	Workload (Units Throughput)							Losing / Gaining Activity
	FY 1995	FY 1996	FY 199 7	FY 1998	FY 1999	FY 2000	FY 200 1	
11. Ships:								
Upkeep - SSN 637	24	24	21	16	7	0	0	SUBASE IMA/PHNSY
Upkeep - SSN 688	39	44	58	70	68	65	68	SUBASE IMA/PHNSY
DSRA - SSN 637	2	2	0	0	0	0	0	SUBASE IMA/PHNSY
DSRA - SSN 688	3	4	5	6	6	5	6	SUBASE IMA/PHNSY
DMP - SSN 688	0	0	0	1	2	1	0	SUBASE IMA/PHNSY
Total Submarine Availabilities	68	74	84	93	83	71	74	SUBASE IMA/PHNSY

Table 39.1: Workload Transfers Resulting From RMC

Commodity Group	Workload (Units Throughput)							Losing / Gaining Activity
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
11. Ships:								
IMAV - CG-47	12	15	15	15	15	15	15	SIMA PH/PHNSY
IMAV - DD-963	14	14	14	14	14	14	14	SIMA PH/PHNSY
IMAV - DDG	7	15	15	15	15	15	15	SIMA PH/PHNSY
IMAV - FFG-7	12	12	12	12	12	12	12	SIMA PH/PHNSY
Total Surface Availabilities	45	56	56	56	56	56	56	SIMA PH/PHNSY

Table 39.2: Workload Transfers Resulting From RMC

Commodity Group	Workload (DLMHs)							Losing / Gaining Activity
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
11. Ships:								
Upkeep - SSN 637	228.0	228.0	199.5	152.0	66.5	0.0	0.0	SUBASE IMA/ PHNSY
Upkeep - SSN 688	370.5	418.0	551.0	665.0	646.0	617.5	646.0	SUBASE IMA/ PHNSY
DSRA - SSN 637	47.0	47.0	0.0	0.0	0.0	0.0	0.0	SUBASE IMA/ PHNSY
DSRA - SSN 688	70.5	94.0	117.5	141.0	141.0	117.5	141.0	SUBASE IMA/ PHNSY
DMP - SSN 688	0.0	0.0	0.0	12.0	24.0	12.0	0.0	SUBASE IMA/ PHNSY
Total Submarine Availabilities	716.0	787.0	668.0	970.0	877.5	747.0	787.0	SUBASE IMA/PHNSY

Note: All results in 1000 DLHM's

Table 39.2: Workload Transfers Resulting From RMC

Commodity Group	Workload (DLMHs)							Losing / Gaining Activity
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
11. Ships:								
IMAV CG-47	21.2	25.5	25.5	25.5	25.5	25.5	25.5	SIMA PH/PHNSY
IMAV DD-963	70.0	70.0	70.0	70.0	70.0	70.0	70.0	SIMA PH/PHNSY
IMAV DDG	12.8	25.5	25.5	25.5	25.5	25.5	25.5	SIMA PH/PHNSY
IMAV FFG-7	82.5	82.5	82.5	82.5	82.5	82.5	32.5	SIMA PH/PHNSY
Total Surface Availabilities	219.0	236.0	236.0	236.0	236.0	236.0	236.0	SIMA PH/PHNSY

Note: All results in 1000 DLHM's

Additional Regional Area reviews for potential industrial consolidations are in progress. Pearl Harbor Naval Shipyard cannot identify additional changes in workload based on the Regional Maintenance Concept at this time.

40. Other Issues

40.1 What recruiting, staffing, hiring limits, apprenticeship training, industrial work standards, promotion policies, personnel support facilities, etc., constrain the productive output of the facility?

The disruptions caused by downsizing and the current hiring freeze has constrained the productive output of the facility. These constraints result in uncontrollable loss of skilled people in critical areas, and our inability to hire replacements when training and reassignments of employees are not practical. Additionally, the hiring freeze has severely restrained apprenticeship training.

ACTIVITY LISTING:

Type	Title	Location
Naval Shipyard	NSYD LONG BEACH	Long Beach CA
Naval Shipyard	NSYD NORFOLK	Portsmouth VA
Naval Shipyard	NSYD PEARL HARBOR	Pearl Harbor HI
Naval Shipyard	NSYD PORTSMOUTH	Kittery ME
Naval Shipyard	NSYD PUGET SOUND	Bremerton WA
Naval Ship Repair Facility	SRF GUAM	Guam

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DATA CALL SUPPLEMENT FOR JOINT CROSS SERVICE GROUP - DEPOT MAINTENANCE

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**DATA CALL SUPPLEMENT
FOR
JOINT CROSS SERVICE GROUP - DEPOT MAINTENANCE**

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DATA CALL SUPPLEMENT FOR JOINT CROSS SERVICE GROUP-DEPOT MAINTENANCE

This supplement is designed to facilitate the cross service analysis required of the 1995 Base Realignment and Closure (BRAC-95) process. It requests data in a standardized format that will be used by the Joint Cross Service Group-Depot Maintenance (JCSG-DM) to develop closure and realignment alternatives to be given to the Military Departments for their analysis and final recommendations. The JCSG-DM Data Call consists of two sections, one for capacity measurements and a second measuring "measures of merit". This Data Call has been formatted to assist the preparer in providing the required information with the minimum amount of effort. If questions arise, contact your Military Department BRAC-95 office for clarification.

Notes in the context of this data call:

1. Base your responses on workload as programmed for your activity. Unless otherwise specified, use workload mixes as programmed in the FYDP.
2. Direct Labor Hours (DLH) is the common unit of measure unless specifically noted otherwise in the question.
3. Information requested in this supplement may duplicate data requested by BRAC 95 data calls from the individual Military Departments. If this occurs, read both questions carefully to ensure that they are in fact asking for identical information, and if that is the case, transfer information from one data call to the other.
4. These questions should be passed up and down the chain of command without editing or rewriting. This standardized data call is designed to support an auditable process by having each activity (regardless of Military Department assigned) respond to the same question.
5. "Core" capability calculations are to be performed in accordance with Office of the Under Secretary of Defense (Logistics) Memorandum dated November 15, 1993 (Subject: Policy for Maintaining Core Depot Maintenance Capability).
6. Capacity and utilization index calculations will be performed in accordance with the Defense Depot Maintenance Council approved update to DoD 4151.15H (Depot Maintenance Capacity/Utilization Index Measurement) dated December 5, 1990.
7. All calculations will assume a one shift, 40 hour work week.
8. Workload, capabilities, and capacities will be measured by commodity groups. A detailed breakout of the JCSG-DM commodity groups is contained in the following box. Insert the commodity groups applicable to your depot maintenance activity into the tables whenever a specific break out is requested by the question. Individual Military Departments in their Service specific data calls, may measure data in different commodity groups or categories, but for the Joint Cross Service analysis, these commodity groups must be utilized.
9. Data will be amounts as of the end of the applicable fiscal year.

JOINT CROSS SERVICE - DEPOT MAINTENANCE

Commodity Groups List

- | | |
|---|--|
| <p>1. Aircraft Airframes:</p> <ul style="list-style-type: none">a. Rotaryb. VSTOLc. Fixed Wing<ul style="list-style-type: none">(1) Transport / Tanker / Bomber /(2) Command and Control(3) Light Combat(4) Admin / Trainingd. Other <p>2. Aircraft Components</p> <ul style="list-style-type: none">Dynamic ComponentsAircraft StructuresHydraulic/PneumaticInstrumentsLanding GearAviation OrdnanceAvionics/ElectronicsAPUsOther <p>3. Engines (Gas Turbine)</p> <ul style="list-style-type: none">AircraftShipTankBlades / Vanes (Type 2) <p>4. Missiles and Missile Components</p> <ul style="list-style-type: none">StrategicTactical / MLRS <p>5. Amphibians</p> <ul style="list-style-type: none">VehiclesComponents (less GTE) <p>6. Ground Combat Vehicles</p> <ul style="list-style-type: none">Self-propelledTanksTowed Combat VehiclesComponents (less GTE) | <p>7. Ground and Shipboard Communications and Electronic Equipment</p> <ul style="list-style-type: none">RadarRadio CommunicationsWire CommunicationsElectronic WarfareNavigational AidsElectro-Optics / Night VisionSatellite Control / Space Sensors <p>8. Automotive / Construction Equipment</p> <p>9. Tactical Vehicles</p> <ul style="list-style-type: none">Tactical Automotive VehiclesComponents <p>10. Ground General Purpose Items</p> <ul style="list-style-type: none">Ground Support Equipment (except aircraft)Small Arms / Personal WeaponsMunitions / OrdnanceGround GeneratorsOther <p>11. Sea Systems</p> <ul style="list-style-type: none">ShipsWeapons Systems <p>12. Software</p> <ul style="list-style-type: none">Tactical SystemsSupport Equipment <p>13. Special Interest Items</p> <ul style="list-style-type: none">Bearings RefurbishmentCalibration (Type I)TMDE <p>14. Other</p> |
|---|--|

Table of Acronyms

\$/DLH	Cost per Direct Labor Hour
\$K	Thousands of Dollars
ADMIN	Administrative; administration
AICUZ	Air Installations Compatible Use Zone
AOC\$	Annual Operating Cost (dollars)
CCN	Category Code Number
DBOF	Defense Business Operating Fund
DLH	Direct Labor Hour
DoD	Department of Defense
ESQD	Explosive Safety Quantity Distance
FMS	Foreign Military Sales
FY	Fiscal Year
FYDP	Future Year Defense Plan
GTE	Gas Turbine Engines
HERF	Hazardous Electronic Radiation - Fuels
HERO	Hazardous Electronic Radiation - Ordnance
HERP	Hazardous Electronic Radiation - Personnel
JCSG-DM	Joint Cross Service Group - Depot Maintenance
KSF	Thousands of Square Feet
PRV	Plant Replacement Value
R&D	Research and Development
RPM	Real Property Maintenance
SF	Square Feet
WG	Wage Grade

DATA CALL SUPPLEMENT

FOR
JOINT CROSS SERVICE GROUP - DEPOT MAINTENANCE

CAPACITY

1. Capacity Utilization

1.1 Calculate the capacity index for the commodity groups applicable to depot maintenance work at your activity. Provide your answers expressed in direct labor hours (DLHs) in Table 1.1.a by commodity groups for the Fiscal Years requested.

Table 1.1.a: Capacity Index

COMMODITY GROUP	INDEX (DLHs)				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
7.1 Radar	12897	12897	12897	12897	12897
7.2 Radio Comm.	18061	18061	18061	18061	18061
11.1 Ships	4615923	4615923	4615923	4615923	4615923
11.2 Weapon Systems	222579	222579	222579	222579	222579
11.3 Ship/Shipboard Support	185124	185124	185124	185124	185124
11.4 Shipyard Support	329611	329611	329611	329611	329611
13.3 TMDE	94820	94820	94820	94820	94820
15.0 Manufacturing	54184	54184	54184	54184	54184
TOTAL	5533198	5533198	5533198	5533198	5533198

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Activity: N00311

DATA CALL SUPPLEMENT

**FOR
JOINT CROSS SERVICE GROUP - DEPOT MAINTENANCE**

CAPACITY

1. Capacity Utilization

1.1 Calculate the capacity index for the commodity groups applicable to depot maintenance work at your activity. Provide your answers expressed in direct labor hours (DLHs) in Table 1.1.a by commodity groups for the Fiscal Years requested.

Table 1.1.a: Capacity Index

COMMODITY GROUP	INDEX (DLHs)				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
7.1 Radar	12897	12897	12897	12897	12897
7.2 Radio Comm.	18061	18061	18061	18061	18061
7.4 Electronic Warfare	586391	586391	586391	586391	586391
7.5 Navigational Aids	29171	29171	29171	29171	29171
11.1 Ships	4000361	4000361	4000361	4000361	4000361
11.2 Weapon Systems	222579	222579	222579	222579	222579
11.3 Ship/Shipboard Support	185124	185124	185124	185124	185124
11.4 Shipyard Support	329611	329611	329611	329611	329611
13.3 TMDE	94820	94820	94820	94820	94820
15.0 Manufacturing	54184	54184	54184	54184	54184
TOTAL	5533198	5533198	5533198	5533198	5533198

DATA CALL SUPPLEMENT

FOR
JOINT CROSS SERVICE GROUP - DEPOT MAINTENANCE*rev*

CAPACITY

1. Capacity Utilization

1.1 Calculate the capacity index for the commodity groups applicable to depot maintenance work at your activity. Provide your answers expressed in direct labor hours (DLHs) in Table 1.1.a by commodity groups for the Fiscal Years requested.

Table 1.1.a: Capacity Index

COMMODITY GROUP	INDEX (DLHs)					
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	
7 Radar	8382	8382	8382	8382	8382	R
7 Electronic Warfare	577360	577360	577360	577360	577360	R
7 Navigational Aids	15625	15625	15625	15625	15625	R
11 Ships	3973269	3973269	3973269	3973269	3973269	R
11 Weapon Systems	222579	222579	222579	222579	222579	R
14 Other	735984	735984	735984	735984	735984	R
TOTAL	5533199	5533199	5533199	5533199	5533199	R

Table 1.1.a data provided by NAVSEA Headquarters.

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**DATA CALL SUPPLEMENT
FOR
JOINT CROSS SERVICE GROUP - DEPOT MAINTENANCE**

CAPACITY**1. Capacity Utilization**

1.1 Calculate the capacity index for the commodity groups applicable to depot maintenance work at your activity. Provide your answers expressed in direct labor hours (DLHs) in Table 1.1.a by commodity groups for the Fiscal Years requested.

Table 1.1.a: Capacity Index

COMMODITY GROUP	INDEX (DLHs)				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
7.0 Ground and Shipboard Communications and Electronic Equipment					
7.1 Radar	12167	12167	12167	12167	12167
7.4 Electronic Warfare	838097	838097	838097	838097	838097
7.5 Navigational Aids	22681	22681	22681	22681	22681
11.0 Sea Systems					
11.1 Ships	5767604	5767604	5767604	5767604	5767604
11.2 Weapons Systems	323096	323096	323096	323096	323096
13.0 Special Interest Items					
13.1 Calibration	239576	239576	239576	239576	239576
14.0 Other (OPW)	828779	828779	828779	828779	828779
TOTAL	8,032,000	8,032,000	8,032,000	8,032,000	8,032,000

**DATA CALL SUPPLEMENT
FOR
JOINT CROSS SERVICE GROUP - DEPOT MAINTENANCE**

CAPACITY

1. Capacity Utilization

1.1 Calculate the capacity index for the commodity groups applicable to depot maintenance work at your activity. Provide your answers expressed in direct labor hours (DLHs) in Table 1.1.a by commodity groups for the Fiscal Years requested.

Table 1.1.a: Capacity Index

COMMODITY GROUP	INDEX (DLHs)				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
7. Ground and Shipboard Communications and Electronic Equipment	1,170,633	1,170,633	1,170,633	1,170,633	1,170,633
11. Sea Systems	4,966,367	4,966,367	4,966,367	4,966,367	4,966,367
TOTAL	6,137,000	6,137,000	6,137,000	6,137,000	6,137,000

Assumptions: (1) Total direct workforce of 4000 manyears at maximum facility capacity.
(2) Direct/indirect worker ratio of 44%/56%.

1. Capacity Utilization, continued

1.2 Calculate the utilization index for the commodity groups applicable to depot maintenance work at your activity. Provide your answers expressed as a percentage (%) in Table 1.2.a by commodity groups for the Fiscal Years requested.

Table 1.2.a: Utilization Index

COMMODITY GROUP	INDEX (%)				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
7.1 Radar	80	63	65	65	89
7.2 Radio Comm.	80	63	65	65	89
11.1 Ships	95	69	44	51	53
11.2 Weapon Systems	80	63	65	65	89
11.3 Ship/Shipboard Support	80	63	65	65	89
11.4 Shipyard Support	80	63	65	65	89
13.3 TMDE	80	63	65	65	89
15.0 Manufacturing	80	63	65	65	89
Total (ships)drydock)	95	69	44	51	53
Total (all others)	80	63	65	65	89

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1. Capacity Utilization, continued

1.2 Calculate the utilization index for the commodity groups applicable to depot maintenance work at your activity. Provide your answers expressed as a percentage (%) in Table 1.2.a by commodity groups for the Fiscal Years requested.

Table 1.2.a: Utilization Index

COMMODITY GROUP	INDEX (%)				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
7.1 Radar	80	63	65	65	89
7.2 Radio Comm.	80	63	65	65	89
7.4 Electronic Warfare	80	63	65	65	89
7.5 Navigational Aids	80	63	65	65	89
11.1 Ships	95	69	44	51	53
11.2 Weapon Systems	80	63	65	65	89
11.3 Ship/Shipboard Support	80	63	65	65	89
11.4 Shipyard Support	80	63	65	65	89
13.3 TMDE	80	63	65	65	89
15.0 Manufacturing	80	63	65	65	89
Total (ships)drydock)	95	69	44	51	53
Total (all others)	80	63	65	65	89

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Activity: N00311

1. Capacity Utilization, continued

1.2 Calculate the utilization index for the commodity groups applicable to depot maintenance work at your activity. Provide your answers expressed as a percentage (%) in Table 1.2.a by commodity groups for the Fiscal Years requested.

Table 1.2.a: Utilization Index

COMMODITY GROUP	INDEX (%)				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
7. Radar	80	63	60	65	89
7. Elec. Warfare	80	63	60	65	89
7. Nav Aids	80	63	60	65	89
11 Ships	95	69	44	51	53
11. Weapon Systems	80	63	60	65	89
14. Other	80	63	60	65	89
11 Ships (Drydock) (Total)	95	69	44	51	53
7, 11 (weapons), 14 (Total)	80	63	60	65	89

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Activity: N00311

1. Capacity Utilization, continued

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1.2 Calculate the utilization index for the commodity groups applicable to depot maintenance work at your activity. Provide your answers expressed as a percentage (%) in Table 1.2.a by commodity groups for the Fiscal Years requested.

Table 1.2.a: Utilization Index

COMMODITY GROUP	INDEX (%)					
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	
7. Radar	80	63	60	65	89	R
7. Elec. Warfare	80	63	60	65	89	R
7. Nav Aids	80	63	60	65	89	R
11 Ships	95	69	44	51	53	R
11. Weapon Systems	80	63	60	65	89	R
14. Other	80	63	60	65	89	R

Table 1.2.a data provided by NAVSEA Headquarters.

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1. Capacity Utilization, continued

1.2 Calculate the utilization index for the commodity groups applicable to depot maintenance work at your activity. Provide your answers expressed as a percentage (%) in Table 1.2.a by commodity groups for the Fiscal Years requested.

Table 1.2.a: Utilization Index

COMMODITY GROUP	INDEX (%)				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
R 7.0 Ground and Shipboard Communications and Electronic Equipment					
R 7.1 Radar	0.59	0.46	0.46	0.51	0.58
R 7.4 Electronic Warfare	0.59	0.46	0.46	0.51	0.58
R 7.5 Navigational Aids	0.59	0.46	0.46	0.51	0.58
R 11.0 Sea Systems					
R 11.1 Ships	0.59	0.46	0.46	0.51	0.58
R 11.2 Weapons Systems	0.59	0.46	0.46	0.51	0.58
R 13.0 Special Interest Items					
R 13.1 Calibration (Type 1)	0.59	0.46	0.46	0.51	0.58
R 14.0 Other (OPW)	0.59	0.46	0.46	0.51	0.58
R TOTAL	0.59	0.46	0.46	0.51	0.58

1. Capacity Utilization, continued

1.2 Calculate the utilization index for the commodity groups applicable to depot maintenance work at your activity. Provide your answers expressed as a percentage (%) in Table 1.2.a by commodity groups for the Fiscal Years requested.

Table 1.2.a: Utilization Index

COMMODITY GROUP	INDEX (%)				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
7. Ground and Shipboard Communications and Electronic Equipment	41	28	30	33	43
11. Sea Systems	90	71	71	78	87
TOTAL	75	60	61	67	75

1. Capacity Utilization, continued

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1.3 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, with no significant investment in capital equipment; and (c) no major Military Construction additional to that already approved and funded: what is the maximum extent to which operations, by commodity group, could be expanded for depot maintenance work at your activity, based on the current and future planned workload mixes? Please provide your response in the absolute maximum number of direct labor hours (DLHs).

Table 1.3.a: Maximum Potential Capacity

COMMODITY GROUP	INDEX (DLHs)				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
7.0 Ground and Shipboard Communications and Electronic Equipment					
7.1 Radar	18722	18722	18722	18722	18722
7.2 Radio Communications	26217	26217	26217	26217	26217
11.0 Sea Systems					
11.1 Ships	6700481	6700481	6700481	6700481	6700481
11.2 Weapons Systems	323096	323096	323096	323096	323096
11.3 Ship/Shipboard Support	268726	268726	268726	268726	268726
11.4 Shipyard Support	478464	478464	478464	478464	478464
13.0 Special Interest Items					
13.3 TMDE	137641	137641	137641	137641	137641
15.0 Manufacturing	78653	78653	78653	78653	78653
TOTAL	8,032,000	8,032,000	8,032,000	8,032,000	8,032,000

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Note: (1) Total direct workforce of 4000 manyears (8,032,000 DLHs) at maximum facility capacity.

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1.3 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, with no significant investment in capital equipment; and (c) no major Military Construction additional to that already approved and funded: what is the maximum extent to which operations, by commodity group, could be expanded for depot maintenance work at your activity, based on the current and future planned workload mixes? Please provide your response in the absolute maximum number of direct labor hours (DLHs).

Table 1.3.a: Maximum Potential Capacity

COMMODITY GROUP	INDEX (DLHs)				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
7.0 Ground and Shipboard Communications and Electronic Equipment					
7.1 Radar	18722	18722	18722	18722	18722
7.2 Radio Communications	26217	26217	26217	26217	26217
7.4 Electronic Warfare	851206	851206	851206	851206	851206
7.5 Navigational Aids	42345	42345	42345	42345	42345
11.0 Sea Systems					
11.1 Ships	5806930	5806930	5806930	5806930	5806930
11.2 Weapons Systems	323096	323096	323096	323096	323096
11.3 Ship/Shipboard Support	268726	268726	268726	268726	268726
11.4 Shipyard Support	478464	478464	478464	478464	478464
13.0 Special Interest Items					
13.3 TMDE	137641	137641	137641	137641	137641
15.0 Manufacturing	78653	78653	78653	78653	78653
TOTAL	8,032,000	8,032,000	8,032,000	8,032,000	8,032,000

Note: (1) Total direct workforce of 4000 manyears (8,032,000 DLHs) at maximum facility capacity.

1. Capacity Utilization, continued *rev*

1.3 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, with no significant investment in capital equipment; and (c) no major Military Construction additional to that already approved and funded: what is the maximum extent to which operations, by commodity group, could be expanded for depot maintenance work at your activity, based on the current and future planned workload mixes? Please provide your response in the absolute maximum number of direct labor hours (DLHs).

Table 1.3.a: Maximum Potential Capacity

COMMODITY GROUP	INDEX (DLHs)				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
7.0 Ground and Shipboard Communications and Electronic Equipment					
7.1 Radar	12167	12167	12167	12167	12167
7.4 Electronic Warfare	838097	838097	838097	838097	838097
7.5 Navigational Aids	22681	22681	22681	22681	22681
11.0 Sea Systems					
11.1 Ships	5767604	5767604	5767604	5767604	5767604
11.2 Weapons Systems	323096	323096	323096	323096	323096
13.0 Special Interest Items					
14.0 Other (OPW)	1068355	1068355	1068355	1068355	1068355
TOTAL	8,032,000	8,032,000	8,032,000	8,032,000	8,032,000

Note: (1) Total direct workforce of 4000 manyears (8,320,000 DLHs) at maximum facility capacity.

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Activity N00311

1. Capacity Utilization, continued

1.3 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, with no significant investment in capital equipment; and (c) no major Military Construction additional to that already approved and funded: what is the maximum extent to which operations, by commodity group, could be expanded for depot maintenance work at your activity, based on the current and future planned workload mixes? Please provide your response in the absolute maximum number of direct labor hours (DLHs).

Table 1.3.a: Maximum Potential Capacity

COMMODITY GROUP	INDEX (DLHs)				
	FY 1995	FY 1996	FY/1997	FY 1998	FY 1999
R 7.0 Ground and Shipboard Communications and Electronic Equipment					
R 7.1 Radar	12167	12167	12167	12167	12167
R 7.4 Electronic Warfare	838097	838097	838097	838097	838097
R 7.5 Navigational Aids	22681	22681	22681	22681	22681
R 11.0 Sea Systems					
R 11.1 Ships	5767604	5767604	5767604	5767604	5767604
R 11.2 Weapons Systems	323096	323096	323096	323096	323096
R 13.0 Special Interest Items					
R 13.1 Calibration (Type 1)	239576	239576	239576	239576	239576
R 14.0 Other (OPW)	828779	828779	828779	828779	828779
R TOTAL	8,032,000	8,032,000	8,032,000	8,032,000	8,032,000

1. Capacity Utilization, continued

1.3 Assuming (a) the current projected total workload remains as assigned; (b) that sufficient production demand is available to justify maximum hiring, with no significant investment in capital equipment; and (c) no major Military Construction additional to that already approved and funded: what is the maximum extent to which operations, by commodity group, could be expanded for depot maintenance work at your activity, based on the current and future planned workload mixes? Please provide your response in the absolute maximum number of direct labor hours (DLHs).

Table 1.3.a: Maximum Potential Capacity

COMMODITY GROUP	INDEX (DLHs)				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
7. Ground & Shipboard Communications and Electronic Equipment	165,443	165,443	165,443	165,443	165,443
11. Sea Systems	7,047,895	7,047,895	7,047,895	7,047,895	7,047,895
13. Special Interest Items	248,166	248,166	248,166	248,166	248,166
14. Other	858,496	858,496	858,496	858,496	858,496
TOTAL	8,320,000	8,320,000	8,320,000	8,320,000	8,320,000

Note: (1) Total direct workforce of 4000 manyears (8,320,000 DLHs) at amximum facility capacity.

CAPACITY

2. Plant Replacement Value

2.1 What is the estimated Plant Replacement Value (PRV) as of the end of each Fiscal Year of your depot maintenance activity expressed in thousands of dollars (\$K) as a function of the facilities and equipment? Provide your answer in Table 2.1.

Table 2.1: Expenditures and Equipment Values

PRV	\$ K				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
Facilities	1,391,005	1,433,140	1,476,804	1,521,659	1,567,859
Equipments	179,664	185,054	190,606	196,324	202,214
TOTAL	1,570,669	1,618,194	1,667,410	1,717,983	1,770,073

Note: Totals do not include all equipment items <\$25K acquisition cost and all totally depreciated plant equipment items.

*Rev.***CAPACITY****2. Plant Replacement Value**

2.1 What is the estimated Plant Replacement Value (PRV) as of the end of each Fiscal Year of your depot maintenance activity expressed in thousands of dollars (\$K) as a function of the facilities and equipment? Provide your answer in Table 2.1.

Table 2.1: Expenditures and Equipment Values

PRV	\$ K				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
Facilities	1,391,005	1,433,140	1,476,804	1,521,659	1,567,859
Equipments	179,664	185,054	190,606	196,324	202,214
TOTAL	1,570,669	1,618,194	1,667,410	1,717,983	1,770,073

Note: Totals do not include all equipment items <\$25K acquisition cost and all totally depreciated plant equipment items.

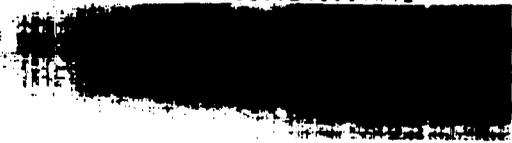
CAPACITY**3. Programmed Workload**

3.1 Given the current configuration and operation of your activity, provide the programmed depot level workload by commodity group in Tables 3.1.a and 3.1.b. Express your answer in both dollars (\$K) and direct labor hours (DLH) for the Fiscal Years requested.

Table 3.1.a: Programmed Workload

COMMODITY GROUP	\$ K				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
7.0 Ground and Shipboard Communications and Electronic Equipment					
7.1 Radar	\$1,037	\$824	\$873	\$894	\$1,241
7.2 Radio/Communications	\$1,453	\$1,154	\$1,223	\$1,252	\$1,739
7.4 Electronic Warfare	\$47,157	\$37,464	\$39,704	\$40,648	\$56,445

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CAPACITY

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2. Plant Replacement Value

2.1 What is the estimated Plant Replacement Value (PRV) as of the end of each Fiscal Year of your depot maintenance activity expressed in thousands of dollars (\$K) as a function of the facilities and equipment? Provide your answer in Table 2.1.

Table 2.1: Expenditures and Equipment Values

PRV	S K				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
Facilities	1,391,005	1,433,140	1,476,804	1,521,659	1,567,859
Equipments	179,664	185,054	190,606	196,324	202,214
TOTAL	1,570,669	1,618,194	1,667,410	1,717,983	1,770,073

Note: Totals do not include all equipment items <\$25K acquisition cost and all totally depreciated plant equipment items.

CAPACITY

3. Programmed Workload

3.1 Given the current configuration and operation of your activity, provide the programmed depot level workload by commodity group in Tables 3.1.a and 3.1.b. Express your answer in both dollars (\$K) and direct labor hours (DLH) for the Fiscal Years requested.

Table 3.1.a: Programmed Workload

COMMODITY GROUP	S K				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
7.0 Ground and Shipboard Communications and Electronic Equipment					
7.1 Radar	\$674	\$536	\$567	\$581	\$807
7.4 Electronic Warfare	\$46,431	\$36,887	\$39,092	\$40,022	\$55,576
7.5 Navigational Aids	\$1,257	\$998	\$1,058	\$1,083	\$1,504

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CAPACITY

2. Plant Replacement Value

2.1 What is the estimated Plant Replacement Value (PRV) as of the end of each Fiscal Year of your depot maintenance activity expressed in thousands of dollars (\$K) as a function of the facilities and equipment? Provide your answer in Table 2.1.

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Equipments	179,664	185,054	190,606	196,324	202,214
TOTAL	1,570,669	1,618,194	1,667,410	1,717,983	1,770,073

Note: Totals do not include all equipment items <\$25K acquisition cost and all totally depreciated plant equipment items.

CAPACITY

3. Programmed Workload

3.1 Given the current configuration and operation of your activity, provide the programmed depot level workload by commodity group in Tables 3.1.a and 3.1.b. Express your answer in both dollars (\$K) and direct labor hours (DLH) for the Fiscal Years requested.

Table 3.1.a: Programmed Workload

COMMODITY GROUP	\$ K				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
7.0 Ground and Shipboard Communications and Electronic Equipment					
7.1 Radar	\$674	\$536	\$526	\$581	\$807
7.4 Electronic Warfare	\$46,431	\$36,887	\$36,216	\$40,022	\$55,576
7.5 Navigational Aids	\$1,257	\$998	\$980	\$1,083	\$1,504
11.0 Sea Systems					

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CAPACITY

2. Plant Replacement Value

2.1 What is the estimated Plant Replacement Value (PRV) as of the end of each Fiscal Year of your depot maintenance activity expressed in thousands of dollars (\$K) as a function of the facilities and equipment? Provide your answer in Table 2.1.

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PRV	\$ K				
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Equipments	179,664	185,054	190,606	196,324	202,214
TOTAL	1,570,669	1,618,194	1,667,410	1,717,983	1,770,073

Note: Totals do not include all equipment items <\$25K acquisition cost and all totally depreciated plant equipment items.

CAPACITY

3. Programmed Workload

3.1 Given the current configuration and operation of your activity, provide the programmed depot level workload by commodity group in Tables 3.1.a and 3.1.b. Express your answer in both dollars (\$K) and direct labor hours (DLH) for the Fiscal Years requested.

Table 3.1.a: Programmed Workload

COMMODITY GROUP	\$ K				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
7.0 Ground and Shipboard Communications and Electronic Equipment					
7.1 Radar	\$1,037	\$824	\$873	\$894	\$1,241
7.2 Radio Communications	\$1,453	\$1,154	\$1,223	\$1,252	\$1,739
7.4 Electronic Warfare	\$0	\$0	\$0	\$0	\$0
7.5 Navigational Aids	\$0	\$0	\$0	\$0	\$0
11.0 Sea Systems					
11.1 Ships	\$371,207	\$294,908	\$312,538	\$319,968	\$444,322
11.2 Weapons Systems	\$17,900	\$14,220	\$15,070	\$15,429	\$21,425
11.3 Ship/Shipboard Support	\$14,887	\$11,827	\$12,534	\$12,832	\$17,820
11.4 Shipyard Support	\$26,507	\$21,059	\$22,218	\$22,848	\$31,728
13.0 Special Interest Items					
13.3 TMDE	\$7,625	\$6,058	\$6,420	\$6,573	\$9,127
15.0 Manufacturing	\$4,357	\$3,462	\$3,669	\$3,756	\$5,216
TOTAL	\$444,973	\$353,512	\$374,645	\$383,552	\$532,618

Note: Table 3.1.a. figures assume no significant labor rate increases are needed to cover or recover unforeseen operational expenses. The figures also include an annual 2% labor rate increase.

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	COMMODITY GROUP	\$ K				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
R	7.5 Navigational Aids	\$2,346	\$1,864	\$1,975	\$2,022	\$2,808
	11.0 Sea Systems					
R	11.1 Ships	\$321,704	\$255,580	\$270,859	\$277,298	\$385,069
	11.2 Weapons Systems	\$17,900	\$14,220	\$15,070	\$15,429	\$21,425
R	11.3 Ship/Shipboard Support	\$14,887	\$11,827	\$12,534	\$12,832	\$17,820
R	11.4 Shipyard Support	\$26,507	\$21,059	\$22,318	\$22,848	\$31,728
	13.0 Special Interest Items					
R	13.3 TMDE	\$7,625	\$6,058	\$6,420	\$6,573	\$9,127
R	15.0 Manufacturing	\$4,357	\$3,462	\$3,669	\$3,756	\$5,216
	TOTAL	\$444,973	\$353,512	\$374,645	\$383,552	\$532,618

Note: Table 3.1.a. figures assume no significant labor rate increases are needed to cover or recover unforeseen operational expenses. The figures also include an annual 2% labor rate increase.

Table 3.1.b: Programmed Workload

	COMMODITY GROUP	DLHs				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
	7.0 Ground and Shipboard Communications and Electronic Equipment					
R	7.1 Radar	10372	8078	8395	8433	11495
R	7.2 Radio/Communications	14524	11312	11758	11811	16097
R	7.4 Electronic Warfare	471568	367296	381766	383469	522641
R	7.5 Navigational Aids	23459	18272	18991	19076	26000
	11.0 Sea Systems					
R	11.1 Ships	3217040	2505689	2604411	2616023	3565455
	11.2 Weapons Systems	178995	139416	144908	145555	198381

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COMMODITY GROUP	DLHs				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
R 11.3 Ship/Shipboard Support	148874	115956	120524	121061	164998
R 11.4 Shipyard Support	265069	206458	214591	215548	293777
13.0 Special Interest Items					
R 13.3 TMDE	76253	59392	61732	62007	84511
R 15.0 Manufacturing	43574	33939	35276	35433	48293
R TOTAL	4,449,728	3,465,808	3,602,352	3,618,416	4,931,648

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COMMODITY GROUP	\$ K				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
11.0 Sea Systems					
11.1 Ships	\$319,525	\$253,850	\$269,025	\$275,420	\$382,461
11.2 Weapons Systems	\$17,900	\$14,220	\$15,070	\$15,429	\$21,425
14.0 Other (OPW)	\$59,187	\$47,021	\$49,833	\$51,017	\$70,845
TOTAL	\$444,973	\$353,512	\$374,645	\$383,552	\$532,618

Note: Table 3.1.a. figures assume no significant labor rate increases are needed to cover or recover unforeseen operational expenses. The figures also include an annual 2% labor rate increase.

Table 3.1.b: Programmed Workload

COMMODITY GROUP	DLHs				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
7.0 Ground and Shipboard Communications and Electronic Equipment					
7.1 Radar	6741	5250	5456	5481	7471
7.4 Electronic Warfare	464306	361639	375887	377563	514592
7.5 Navigational Aids	12566	9787	10172	10218	13927
11.0 Sea Systems					
11.1 Ships	3195253	2488721	2586772	2598306	3541309
11.2 Weapons Systems	178995	139416	144908	145555	198381
14.0 Other (OPW)	591868	460995	479157	481293	655969
TOTAL	4,449,728	3,465,808	3,6023,352	3,618,416	4,931,648

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COMMODITY GROUP	\$ K				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
11.1 Ships	\$319,525	\$253,850	\$249,230	\$275,420	\$382,461
11.2 Weapons Systems	\$17,900	\$14,220	\$13,962	\$15,429	\$21,425
14.0 Other (OPW)	\$59,187	\$47,021	\$46,166	\$51,017	\$70,845
TOTAL	\$444,973	\$353,512	\$347,079	\$383,552	\$532,618

Note: Table 3.1.a. figures assume no significant labor rate increases are needed to cover or recover unforeseen operational expenses. The figures also include an annual 2% labor rate increase.

Table 3.1.b: Programmed Workload

COMMODITY GROUP	DLHs				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
7.0 Ground and Shipboard Communications and Electronic Equipment					
7.1 Radar	6741	5250	5055	5481	7471
7.4 Electronic Warfare	484306	361639	348229	377563	514592
7.5 Navigational Aids	12566	9787	9424	10218	13927
11.0 Sea Systems					
11.1 Ships	3195253	2488721	2396439	2598306	3541309
11.2 Weapons Systems	178995	139416	134246	145555	198381
14.0 Other (OPW)	591868	460995	443901	481293	655969
TOTAL	4,449,728	3,465,808	3,337,296	3,618,416	4,931,648

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COMMODITY GROUP	S K				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
11.1 Ships	\$341,611	\$271,650	\$279,185	\$313,273	\$360,315
11.2 Weapons Systems	\$19,137	\$15,218	\$15,640	\$17,549	\$20,185
13.0 Special Interest Items					
13.1 Calibration (Type 1)	\$14,190	\$11,284	\$11,597	\$13,013	\$14,967
14.0 Other (OPW)	\$49,087	\$39,034	\$40,117	\$45,016	\$51,777
TOTAL	\$475,729	\$378,301	\$388,795	\$436,266	\$501,777

Note: Table 3.1.a. figures assume no significant labor rate increases are needed to cover or recover unforeseen operational expenses. The figures also include an annual 2% labor rate increase.

Table 3.1.b: Programmed Workload

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COMMODITY GROUP	DLHs				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
7.0 Ground and Shipboard Communications and Electronic Equipment					
7.1 Radar	7195	5605	5650	6215	7015
7.4 Electronic Warfare	495647	386128	389179	428099	483239
7.5 Navigational Aids	13414	10450	10532	11586	13078
11.0 Sea Systems					
11.1 Ships	3410935	2657351	2678248	2946085	3325546
11.2 Weapons Systems	191078	148857	150033	165037	186294
13.0 Special Interest Items					
13.1 Calibration (Type 1)	141684	110377	111249	122375	138137
14.0 Other (OPW)	490135	381834	384851	423339	477865
TOTAL	4,750,088	3,700,504	3,729,744	4,102,736	4,631,176

CAPACITY

3. Programmed Workload

3.1 Given the current configuration and operation of your activity, provide the programmed depot level workload by commodity group in Tables 3.1.a and 3.1.b. Express your answer in both dollars (\$K) and direct labor hours (DLH) for the Fiscal Years requested.

Table 3.1.a: Programmed Workload

COMMODITY GROUP	\$ K				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
7.Ground and Shipboard Communications and Electronics Equipment	\$43,477	\$30,582	\$33,143	\$36,789	\$49,290
11.Sea Systems	\$432,252	\$347,719	\$355,652	\$399,477	\$452,487
TOTAL	\$475,729	\$378,301	\$388,795	\$436,266	\$501,777

Note: Table 3.1.a. figures assume no significant labor rate increases are needed to cover or recover unforeseen operational expenses. The figures also include an annual 2% labor rate increase.

Table 3.1.b: Programmed Workload

COMMODITY GROUP	DLHs				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
7.Ground and Shipboard Communications and Electronics Equipment	464,000	320,000	340,000	370,000	486,000
11.Sea Systems	4,286,088	3,380,504	3,389,744	3,732,736	4,145,176
TOTAL	4,750,088	3,700,504	3,729,744	4,102,736	4,631,176

Table 3.1.b: Programmed Workload

COMMODITY GROUP	DLHs				
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
7.0 Ground and Shipboard Communications and Electronic Equipment					
7.1 Radar	10372	8078	8395	8433	11495
7.2 Radio Communications	14524	11312	11758	11811	16097
7.4 Electronic Warfare	0	0	0	0	0
7.5 Navigational Aids	0	0	0	0	0
11.0 Sea Systems					
11.1 Ships	3,712,067	2,891,257	3,005,168	3,018,568	4,114,096
11.2 Weapons Systems	178,995	139,416	144,908	145,555	198,381
11.3 Ship/Shipboard Support	148,874	115,956	120,524	121,061	164,998
11.4 Shipyard Support	265,069	206,458	214,591	215,548	293,777
13.0 Special Interest Items					
13.3 TMDE	76253	59392	61732	62007	84511
15.0 Manufacturing	43574	33939	35276	35433	48293
TOTAL	4,449,728	3,465,808	3,602,352	3,618,416	4,931,648

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CAPACITY

4. Service Centers of Excellence

4.1 If your activity has been designated as a Service Center of Excellence for any of the commodity groups, please identify them below.

Although we are not the Center of Excellence for any one commodity type group, we report the following capabilities that are providing cross-services support:

1. **Joint Oil Analysis Program (Comm. grp 13).** Our Chemistry Laboratory has the Joint Oil Analysis Program (JOAP) for the Central Pacific region. The certified group supports all services (Army, Air Force, Navy, Marine Corps) by conducting analysis of oil from aircraft, ground equipment, and ships.

2. **Rebuild and test SSN 688 Class submarine signal ejector impulse cylinders (Comm. grp 11).**

3. **Calibration and Metrology Laboratory (Comm. grp. 13).** The Navy Calibration Center (Shop 52) provides a wide range of calibration services to many customers from the entire Pacific region. Personnel expertise and facilities are not normally available in the Pacific area. Major customers are the Army (including the Tripler Army Medical Center), Air Force, Marine Corps, NCTAMS Eastpac, SUBASE Pearl Harbor, SIMA Pearl Harbor, SRF Yokosuka, SRF Guam, etc.

4. **Chemistry Laboratory (Comm. grp. 13).** The Chemistry Laboratory in our Quality Assurance Office, besides providing comprehensive, all-purpose chemistry laboratory services, has unique expertise and capability in paint research, development and testing, especially where tropical environments are concerned. The laboratory also has the expertise and equipment to conduct major failure analysis investigations. Major customers include Hickam Air Force Base, SUBASE Pearl Harbor, Navy Ocean Science Center Kaneohe, and NAVSEA.

5. **Total Quality Leadership (TQL) Training (Comm. grp. 13).** The shipyard provides TQL training and support services for not only its employees but to many other government activities as well. Services include strategic planning session facilitation, TQL classroom training, TQL instructor training, presentations, and general TQL support as requested. The shipyard facilitated about 30 strategic planning sessions both here and abroad (Washington, DC, Japan, and Guam). We have also assisted the Hawaii State Government implement TQL in their operations.

6. **Designated Overhaul Point (DOP) (Comm. grp. 11).** The shipyard is the DOP for the following: Transducers, Antennas, Towed Array (TLA), Propellers, and Shafts.

**DATA CALL SUPPLEMENT
FOR
JOINT CROSS SERVICE GROUP - DEPOT MAINTENANCE**

MEASURES OF MERIT

Geographic

1. Location

1.1 Specify any special strategic importance or military value consideration of your activity accruing from its geographical location.

<u>Activity</u>	<u>Location</u>	<u>Description of Strategic Importance/Military Value</u>
Pearl Harbor Naval Shipyard	Pearl Harbor, Hawaii Island of Oahu Central Pacific	<ul style="list-style-type: none"> ◆ Only fully capable naval depot level maintenance facility in the central Pacific area. Most forward located depot maintenance facility in the Pacific Rim area. ◆ Capabilities include: <ul style="list-style-type: none"> - 4 operational drydocks capable of handling all naval ships. - Extensive machine shops and industrial plant equipment capable of supporting the most extensive overhaul, conversion or repair requirements on naval or civilian vessels. - Full capability for nuclear repair work, including radiological support and services. - Full range of Quality Assurance and Non-Destructive Testing services. - Full range of engineering services, nuclear and non-nuclear. ◆ Capable of providing industrial services to all other DOD and government agencies. ◆ Nearest location with equal capability is Puget Sound Naval Shipyard in Washington state on the U.S. west coast (2,500 miles to the east of Oahu). ◆ Nearest locations in the Pacific Rim with civilian contractors having similar but lesser capabilities are Japan, Korea or Singapore. ◆ For ease of support, the shipyard is located adjacent to an operating naval station (Pearl Harbor), a large military airfield (Hickam AFB), an airport (Honolulu International) and a port (Honolulu).

Geographic, continued

2. Environmental Compliance

Answers to the following questions need to reflect the particular workloads or processes affected by the environmental restrictions/compliance.

2.1 Is your activity in full compliance with all Federal, state, and local environmental regulations? If not in full compliance, provide a comprehensive list of individual regulations that require actions to be taken. What compliance waivers have been granted? When must the activity come into compliance?

Type Regulation Waiver (Date Expires) Date Must be in Compliance

Pearl Harbor Naval Shipyard is in full compliance with all Federal, state, and local environmental regulations.

2.2 Has any actual or programmed work at this installation been restricted or delayed because of environmental considerations, such as air or water quality? If so, provide the details of the impact of the restrictions or delays.

Programmed Work Restriction/Delay Describe Impact

No work has been restricted or delayed.

Geographic, continued

3. Environmental Restrictions

Answers to the following questions need to reflect the particular workloads or processes affected by the environmental restrictions/compliance.

3.1 Are there any special programs relating to environmental or industrial waste considerations for your activity? If so, provide the details.

<u>Special Program</u>	<u>Environmental/Industrial Waste</u>	<u>Describe</u>
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None.

3.2 Within what provisions must the activity operate with regard to disposal of hazardous wastes and radioactive materials?

<u>Type</u>	<u>Provisions</u>	<u>Describe</u>
Hazardous Waste	40 CFR	PHNS operates under the requirements of a "Less than 90 day" Storage Area. The State of Hawaii does not have additional HW regulations outside of those required by RCRA.
PCB material/ waste	40 CFR	The Shipyard uses the EPA guidelines for disposal of PCBs. However, the City and County of Honolulu has decided to impose stricter environmental controls on acceptable materials/waste at landfills and H-Power. They are not accepting PCB materials with less than 50 ppm. H-Power is the city's energy generating trash incinerator.
Radioactive waste	NAVSEA 389-0288	Solid and liquid radioactive wastes are disposed of per NAVSEA 389-0288.

Geographic, continued

4. Other Collocated Activities

4.1 Are there any collocated activities that directly benefit or relate to the depot maintenance activity? If yes, list and describe the impact of each. Include benefits derived from being collocated.

<u>Collocated Activity</u>	<u>Benefit/Relationship</u>	<u>Describe Impact</u>
Commander, Submarine Force, US Pacific Fleet	Collocation improves coordination and responsiveness of repairs. Facility duplication is avoided.	PHNSY provides drydocking, overhaul, alterations, and repairs of submarines assigned to the US Pacific Fleet. PHNSY also provides facility and office support for SUBPAC rep.
Commander, Surface Force, Mid-Pacific	Collocation improves coordination and responsiveness of repairs. Facility duplication is avoided.	PHNSY provides drydocking, overhaul, alterations, and repairs of submarines assigned to the US Pacific Fleet.
Defense Finance and Accounting Service	Building and service duplication is avoided.	PHNSY provides office spaces and administrative services. DFAS provides accounting services.
Defense Printing Service Detachment Office	Building and service duplication is avoided.	PHNSY provides office and storage spaces. Defense Printing Service provides printing services.
Defense Reutilization and Marketing Office Hawaii	Facility duplication is avoided. Shipyard scrap material is properly disposed of.	PHNSY provides facility support and salvage scrap yard space. Defense Reutilization and Marketing Service provides for disposal of PHNSY scrap material.
Fleet and Industrial Supply Center	Facility and service duplication is avoided.	PHNSY provides buildings and performs administrative, transportation, and warehouse support services. Fleet and Industrial Supply Center provides data processing services and NRFI processing into RFI stock
Fleet Training Group	Additional training facilities are available to the Pacific Fleet.	PHNSY provides fire fighting school facilities, GASCO facilities, and volatile and waste oil incinerator facilities.

Hickam Air Force Base	Large equipment needed to support ship overhauls or repairs can be transported quickly.	Hickam AFB provides a secure high capacity airlift capability for large equipment to support ship overhauls and repairs.
Naval and Marine Corps Reserve Center	Facility duplication is avoided.	NAVMARCORESCEN provides training facilities.
Naval Base Pearl Harbor	Facility duplication is avoided.	PHNSY provides office spaces and recycle collection spaces.
Naval Command, Control and Ocean Surveillance Center In Service Engineering West Activity	Facility and service duplication is avoided.	PHNSY provides buildings and performs calibration, industrial, storage, CEAP, and drug testing services.
Naval Computer and Telecommunications Area Master Station Eastern Pacific	Facility and service duplication is avoided.	PHNSY provides office spaces. Naval Computer and Telecommunications Area Master Station provides defense message center services.
Naval Dental Center	Dental support is available to support PHNSY activities.	Naval Dental Center provides emergency and routine dental care for shipyard personnel.
Naval Facilities Engineering Command Pacific Division	Building and facility support duplication is avoided.	NAVFACENGCOCM provides facilities support to PHNSY.
Naval Investigative Service Regional Office Pacific	Building duplication is avoided.	PHNSY provides office spaces.
Naval Magazine Lualualei	Ships are able to offload ammunition immediately before entering the shipyard and to load ammunition immediately after leaving the shipyard.	Naval Magazine Lualualei receives ammunition offloaded from ships entering overhauls at PHNSY and issues ammunition to ships completing overhauls at PHNSY.
Naval Medical Clinic	Facility duplication is avoided. Medical support is available to support	PHNSY provides facility support. Naval Medical Clinic provides emergency and routine medical services for shipyard

	PHNSY activities.	personnel.
Naval Sea Systems Command Detachment Naval Inactive Ship Maintenance Facility	Facility and service duplication is avoided. Activation of NISMF ships and craft would be expedited.	PHNSY provides personnel and drug testing support. NISMF provides a office space and facilities. PHNSY would also provide for activation of NISMF ships and craft upon mobilization.
Naval Security Group Activity	Building and facility support duplication is avoided.	PHNSY provides facility support and van storage space.
Naval Station Pearl Harbor	Ships are repaired without relocation, providing increased operational availability. Building and service duplication is avoided.	PHNSY provides drydocking, overhaul, alterations, and repairs of ships berthed at NAVSTA. PHNSY also provides buildings and performs facility support and drug testing services for NAVSTA. NAVSTA provides guard and security services; tug, fuel, and boat services; and billeting services.
Naval Undersea Warfare Engineering Station Det	Facility duplication is avoided.	PHNSY provides facility support for FORACS towers and control station.
Navy Public Works Center	Building and service duplication is avoided.	PHNSY provides buildings and performs facility support, drug testing, CEAP, and storage services for Navy Public Works Center. Navy Public Works Center provides utilities, facility maintenance, transportation services, truck cranes, and material handling equipment for PHNSY.
Office of Civilian Personnel Management Pacific Region	Building duplication is avoided.	PHNSY provides office spaces.
Submarine Base Pearl Harbor	Submarines are repaired without relocation, providing increased operational availability.	PHNSY provides drydocking, overhaul, alterations, and repairs of submarines berthed at SUBASE. PHNSY also provides foundry services to SUBASE.

Supervisor of Shipbuilding, Conversion and Repair, USN, San Diego Detachment	Facility and service duplication is avoided.	PHNSY provides buildings and ship berthing facilities and performs administrative, industrial, warehousing, and support services.
US Postal Service	Facility and service duplication is avoided.	PHNSY provides facilities and custodial services. US Postal Service provides postal services.

4.2 Do collocated activities support, or are they supported by, the depot maintenance activity?

<u>Collocated Activity</u>	<u>Describe Relationship</u>
Commander, Submarine Force, US Pacific Fleet	Is supported by PHNSY.
Defense Finance and Accounting Service	Both supports and is supported by PHNSY.
Defense Printing Service Detachment Office	Both supports and is supported by PHNSY.
Defense Reutilization and Marketing Office Hawaii	Both supports and is supported by PHNSY.
Fleet and Industrial Supply Center	Both supports and is supported by PHNSY.
Fleet Training Group	Is supported by PHNSY.
Hickam Air Force Base	Supports PHNSY.
Naval and Marine Corps Reserve Center	Supports PHNSY.
Naval Base Pearl Harbor	Is supported by PHNSY.
Naval Command, Control and Ocean Surveillance Center In Service Engineering West Activity	Is supported by PHNSY.
Naval Computer and	Both supports and is supported by PHNSY.

Telecommunications Area
Master Station Eastern
Pacific

Naval Dental Center	Supports PHNSY.
Naval Facilities Engineering Command Pacific Division	Both supports and is supported by PHNSY.
Naval Investigative Service Regional Office Pacific	Is supported by PHNSY.
Naval Magazine Lualualei	Supports PHNSY.
Naval Medical Clinic	Both supports and is supported by PHNSY.
Naval Sea Systems Command Detachment Naval Inactive Ship Maintenance Facility	Both supports and is supported by PHNSY.
Naval Security Group Activity	Is supported by PHNSY.
Naval Station Pearl Harbor	Both supports and is supported by PHNSY.
Naval Undersea Warfare Engineering Station Det	Is supported by PHNSY.
Navy Public Works Center	Both supports and is supported by PHNSY.
Office of Civilian Personnel Management Pacific Region	Is supported by PHNSY.
Submarine Base Pearl Harbor	Is supported by PHNSY.
Supervisor of Shipbuilding, Conversion and Repair, USN, San Diego Detachment	Is supported by PHNSY.
US Postal Service	Both supports and is supported by PHNSY.

Geographic, continued

4. Other Collocated Activities, continued

4.3 How would these activities and the depot maintenance activity function if they were not collocated?

<u>Collocated Activity</u>	<u>Describe Impact if not Collocated</u>
Commander, Submarine Force, US Pacific Fleet	Additional travel and communications would be required for coordination of repairs. COMSUBPAC would have to provide its own facility and office support.
Defense Finance and Accounting Service	DFAS would have to provide its own office spaces and administrative services. PHNSY would have to use less responsive remote accounting services.
Defense Printing Service Detachment Office	Defense Printing Service would have to provide its own office and storage spaces. PHNSY would have to ship masters to a remote Defense Printing Service office and Defense Printing Service would have to ship completed documents back.
Defense Reutilization and Marketing Office Hawaii	Defense Reutilization and Marketing Office would have to provide its own facility support and yard space. PHNSY would have to ship scrap material to a remote location for disposal, and often this could not be economically done.
Fleet and Industrial Supply Center	Fleet and Industrial Supply Center would have to provide its own buildings and perform its own administrative, transportation, and warehouse support services. PHNSY would have to provide its own data processing services. PHNSY would either have to provide its own NRFI processing into RFI stock or ship NRFI stock to another location for processing and return.
Fleet Training Group	Additional facilities would be needed to provide fire fighting and GASCO training to the Pacific Fleet, or Fleet personnel would have to travel to CONUS for training.
Hickam Air Force Base	PHNSY would have to arrange alternate means of transportation for large equipment needed to support overhauls and repairs, and less efficient transportation would result in delays in completing ship overhauls and repairs.
Naval and Marine Corps Reserve Center	PHNSY would have to provide additional training facilities.

Naval Base Pearl Harbor	Naval Base would have to provide its own office spaces.
Naval Command, Control and Ocean Surveillance Center In Service Engineering West Activity	NISE West Activity would have to maintain its own buildings and perform its own calibration, industrial, storage, and drug testing services.
Naval Computer and Telecommunications Area Master Station Eastern Pacific	Naval Computer and Telecommunications Area Master Station would have to provide its own office space. PHNSY would have to provide its own defense message center.
Naval Dental Center	PHNSY would have to arrange for another source of emergency and routine dental care for shipyard personnel.
Naval Facilities Engineering Command Pacific Division	NAVFACECOM would have to provide its own office spaces. PHNSY would have to provide its own facilities support.
Naval Investigative Service Regional Office Pacific	NIS Regional Office would have to provide its own office spaces.
Naval Magazine Lualualei	Ships would have to offload and load ammunition using either a remote magazine or ammunition supply ships.
Naval Medical Clinic	Naval Medical Clinic would have to provide its own facility support. PHNSY would have to arrange for another source of emergency and routine medical care for shipyard personnel.
Naval Sea Systems Command Detachment Naval Inactive Ship Maintenance Facility	NISMF would have to provide its own personnel and drug testing support. PHNSY would have to provide additional office space and facilities. NISMF ships and craft would have to be shipped elsewhere for activation upon mobilization.
Naval Security Group Activity	Naval Security Group Activity would have to provide its own facility support and van storage space.
Naval Station Pearl Harbor	Ships would have to be moved to a remote facility for drydocking, overhaul, alterations, or repairs, resulting in decreased operational availability. NAVSTA would have to maintain its own buildings and provide its own facility support and drug testing services. PHNSY would have to provide its own guard and security services and tug, fuel, and boat services. PHNSY would have to provide its own billeting services for personnel of uninhabitable ships under overhaul.

Naval Undersea Warfare Engineering Station Det	Naval Undersea Warfare Engineering Station would have to provide its own facility support for FORACS towers and control station.
Navy Public Works Center	Navy Public Works Center would have to maintain its own buildings and perform its own facility support, drug testing, CEAP, and storage services. PHNSY would have to provide its own utilities, facility maintenance, transportation services, truck cranes, and material handling equipment.
Office of Civilian Personnel Management Pacific Region	Office of Civilian Personnel Management would have to provide its own office spaces.
Submarine Base Pearl Harbor	Submarines would have to be moved to a remote facility for drydocking, overhaul, alterations, or repairs, resulting in decreased operational availability.
Supervisor of Shipbuilding, Conversion and Repair, USN, San Diego Detachment	SUPSHIP San Diego would have to maintain its own buildings and ship berthing facilities and perform its own administrative, industrial, warehousing, and support services.
US Postal Service	US Postal Service would have to provide its own facilities and custodial services. Postal services would be provided to PHNSY less efficiently at a remote location.

Geographic, continued

5. Encroachment

5.1 Have operations at this activity been at all constrained to accommodate requests of the local communities?

<u>Type of Encroachment</u>	<u>Operation Impacted</u>	<u>Describe</u>
Environmental Safety	All industrial operations	see description below.

Description. The southwest boundary of the shipyard is adjacent to Hickam Air Force Base Elementary School. Although there are no official environmental or legal restrictions against the shipyard, there is a local community sensitivity to hazardous waste storage within 850 feet of the school. This voluntary 850-foot zone does not apply to other types of industrial facilities, but long range planning of any kind of industrial development within the zone is normally not considered.

5.2 Indicate any encroachment constraints on current or future operations that would restrict future expansion.

<u>Type of Encroachment</u>	<u>Constraint on Expansion</u>	<u>Describe</u>
None	except the voluntary 850-foot clear zone from Hickam Elementary School described above.	

MEASURES OF MERIT

Facilities and Equipage

6. Unique or Peculiar Facilities

6.1 List unique or peculiar testing facilities, excluding equipment (e. g. runways, railheads, ports, tracks, ponds, etc.).

Test Facility	Describe Uniqueness/Peculiarity
Chemistry and Materials Testing Laboratory	<p>The Laboratory is a comprehensive, controlled climate test and inspection facility that conducts a full range of mechanical tests, metallurgical failure analyses and examinations, oil analyses and analytical chemistry tests. The facility provides on-site, direct support for depot level projects that require chemical or metallurgical/materials engineering testing and technical expertise. The facility is complete with its own dedicated machining section for test specimen and test fixture manufacture. The Laboratory information management system minicomputer tracks samples being worked on by Laboratory personnel. The facility provides comprehensive test capability for testing and analysis for the shipyard as well as other DoD commands in the central and western Pacific Ocean areas. Some of the laboratory services provided include:</p> <ul style="list-style-type: none"> - Energy Dispersive X-Ray Fluorescence analysis - Vacuum emission spectrography - Wet chemistry - Nuclear water chemistry - Environmental testing - Mechanical testing (tensile, H\hardness, bend, impact) - Paint/coatings testing - Scanning electron microscope (SEM) - Trace metal analysis
Joint Oil Analysis Program (JOAP) facility	<p>Centrally located in the Pacific Ocean, the Naval Sea Systems Command (NAVSEA) designated, independently funded oil analysis laboratory facility directly supports all services (e.g., Army, Air Force, Navy, Marine). The facility is certified to perform analysis on oil from aircraft, ground equipment, and ships. The facility conducts petroleum product testing in support of ship repair/overhauls.</p>
Radiographic Inspection Facility	<p>Facility specifically designed and constructed for radiographic inspection. Facility includes thick walls, lead lining, interconnected electrical circuits and heavy doors to ensure personnel safety when conducting radiographic inspections. Facility certified by Nuclear Regulatory Commission and Navy Radiation Area Safety Office for the conduct of radiography.</p>
Welding Laboratory	<p>Facility specifically designed and equipped for welding research and welder qualification. Facility specifically designed and located adjacent to nondestructive inspection facility, machine shop, chemistry laboratory and materials testing laboratory to ensure efficient conduct and surveillance of welding research, and qualification of welding procedures, welding equipment and welder qualifications</p>

<p>RADIAC Calibration Facility (Radiation, Detection, Indication and Computation)</p>	<p>This facility is capable of:</p> <ul style="list-style-type: none"> -Calibrating gamma radiation instrument up to 400 Roentgen per hour. -Calibrating alpha radiation instrument up to 619 thousand counts per minute. -Calibrating m\neutron radiation instrument up to 600 milli-Roentgen per hour. -Measuring beta activity up to 4505 micro-micro-Curie. <p>The facility is the only fully licensed one in the State of Hawaii.</p>
<p>Calibration Lab</p>	<p>The Calibration Lab performs calibration services to support ship repair and overhaul. This facility also supports other Navy customers in addition to supporting the shipyard. This facility is the largest of its type in this region. Some of the unique features include:</p> <ul style="list-style-type: none"> -Oxygen calibration facility is a room where the cleanliness level is less than 100,000 particles per cubic foot of size 0.5 to 5.0 micro-meters. The level of hydrocarbons in trichlorotrifluoroethane is less than 0.5 parts per million. The facility is fully NAVSEA certified. -Mercury calibration room is to handle mercury operation including the performance testing of Jerome mercury vapor analyzer.
<p>Transducer Repair and Test Facility</p>	<p>Facility contains 3 each hydro pressure test tanks (maximum 3000 psi) and 1 each mobile hydro pressure test tank (maximum 1000 psi). Hydro pressure test certification, requirement needs are provided for shop and other shipyard departments. Floor space equipment and test equipment for restoration of various transducers/hydrophones are housed within the Transducer Repair Facility. Rubber vulcanizing equipment and services are available in this facility. Unique features of the facility include:</p> <ul style="list-style-type: none"> -200,000 gallon freshwater tank used for acoustic measurement testing using the FQM-12 computer controlled test set and is adjacent to the transducer restoration area. -Ocean environment test range for acoustic measurement testing of large transducer arrays. An FQM-12 computer controlled test set is on site. This facility is in the vicinity of the shipyard's transducer repair facility is thus logistically ideal.

6.2 Indicate the reasons that these facilities are required by the depot maintenance function.

Test Facility	Reasons Required for Maintenance
Chemistry and Materials Testing Laboratory	The on-site facility provides testing and analysis that is required to support submarine, surface ship and other depot level work. In addition, the Laboratory facilities have capabilities that cannot be found elsewhere in the central and western Pacific Ocean.
Joint Oil Analysis Program (JOAP) Facility	Supports Army, Air Force, Navy and Marine Corp.
Radiographic Inspection Facility	The on-site facility provides the required support to conduct radiographic inspections of materials in the shop and in the field. Radiographic inspections are required to be conducted in a specifically designed and certified radiographic inspection facility.
Welding Laboratory	Depot functions require a welding engineering facility and ready access to a welding laboratory, machine shop, nondestructive testing facilities, a chemistry laboratory and a material testing laboratory.
RADIAC Calibration Facility (Radiation Detection, Indication and Computation)	Nuclear work requires the measurement of radiation to document the exposure levels.
Calibration Lab	Ship repair and overhaul work require quick turn-around of calibration for gauges, tools and equipment. Calibration is also performed shipboard.
Transducer Repair and Test Facility	Facility is a designated overhaul point for repair/restoration and testing of various transducers and hydrophones in the Pacific region.

6.3 How could the depot maintenance functions be performed without these specialized facilities?

Test Facility	Describe Testing Alternatives
Chemistry and Materials Testing Laboratory	No acceptable alternatives -Samples would have to be sent to another facility -Specialized on-site testing and analysis would have to be performed by another activity -This would cause unacceptable delays in depot work
Joint Oil Analysis Program (JOAP) Facility	No acceptable alternatives -A duplicate facility would have to be built and staffed -This would cause unacceptable delays
Radiographic Inspection Facility	No acceptable alternatives -Functions cannot be performed without this specialized facility on-site -This would cause unacceptable delays in depot work.

Welding Laboratory	<p>No acceptable alternatives</p> <ul style="list-style-type: none"> -Weld specimens would have to be sent to certified industrial testing laboratories in the Continental U.S. -Qualifications for nuclear welders performed at another facility in the Continental U.S. -This would cause unacceptable delays in depot work and excessive cost.
RADIAC Calibration Facility (Radiation Detection, Indication and Computation)	<p>No acceptable alternatives</p> <ul style="list-style-type: none"> -Instruments sent to another activity for calibration (Continental U.S) -This would cause unacceptable delays in the shipyard's depot work, and for the Army, Marine Corp, and the City and County of Honolulu
Calibration Lab	<p>No acceptable alternatives</p> <ul style="list-style-type: none"> -On-site support required otherwise unacceptable delays would occur.
Transducer Repair and Test Facility	<p>No acceptable alternatives</p> <p>Functions cannot be performed without this specialized facility.</p>

Activity N00311*rev*

Facilities and Equipage, continued

7. Buildings and Their Condition

7.1 List the buildings used to perform the depot maintenance functions by category code numbers (five or six digit CCNs), identifying their current condition (adequate, substandard, and inadequate) in Table 7.1 in thousands of square feet (KSF).

Table 7.1: Facility Conditions

CCN	Facility Type	Condition / Area (# KSF) See Note (1)			Comments/ Deficiency Codes See Note 2
		Adequate	Substandard	Inadequate	
213-41	Central Tool (06)	15.98	0	69.75	A27, A30, A10, B26, C10, D30
213-42	Shipfitting Shop (11)	143.916	0	0	A12, A05, B26, B38, C10, C38, C26
213-43	Sheet Metal (17)	1.288	0	45.2	A30, B26, C11, C10, D30
213-44	Forge & Heat Treatment (23)	38.2	0	0	A26, A27, A30, A52, E05
213-45	Welding (26)	31.304	0	0	A05, A21, B30, B26, C02, C30
213-48	Q.A.	90.068	0	0	A30, A04, A03, A27, A23
213-50	Optical Shop	0	0	0	N/A to PHNS
213-51	Weapons Shop (36)	0	0	0	N/A to PHNS
213-49	Inside Machine (31)	197.077	0	0	A30, A27, A21, B30, E05
213-52	Marine Machine (38)	107.261	0	0	A52, A39, A02, A30, A03, C05
213-53	Boilermaker (41)	47.036	0	0	A05, A21, C10
213-54	Electrical (51)	156.63	0	0	A03, A30, C23, D30, E05
213-55	Pipefitter (56)	72.953	0	7.807	A30, A27, A04, A02, B26, C30, C39, C03

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Facilities and Equipage, continued

7. Buildings and Their Condition

7.1 List the buildings used to perform the depot maintenance functions by category code numbers (five or six digit CCNs), identifying their current condition (adequate, substandard, and inadequate) in Table 7.1 in thousands of square feet (KSF).

Table 7.1: Facility Conditions

CCN	Facility Type	Condition / Area (# KSF) See Note (1)			Comments/ Deficiency Codes See Note 2
		Adequate	Substandard	Inadequate	
213-41	Central Tool (06)	15.98	0	69.75	A27, A30, A10, B26, C10, D30
213-42	Shipfitting Shop (11)	143.916	0	0	A12, A05, B26, B38, C10, C38, C26
213-43	Sheet Metal (17)	1.288	0	51.139	A30, B26, C11, C10, D30
213-44	Forge & Heat Treatment (23)	38.2	0	0	A26, A27, A30, A52, E05
213-45	Welding (26)	31.304	0	0	A05, A21, B30, B26, C02, C30
213-48	Q.A.	90.068	0	0	A30, A04, A03, A27, A23
213-50	Optical Shop	0	0	0	N/A to PHNS
213-51	Weapons Shop (36)	0	0	0	N/A to PHNS
213-49	Inside Machine (31)	197.097	0	0	A30, A27, A21, B30, E05
213-52	Marine Machine (38)	107.261	0	0	A52, A39, A02, A30, A03, C05
213-53	Boilermaker (41)	47.036	0	0	A05, A21, C10
213-54	Electrical (51)	156.63	0	0	A03, A30, C23, D30, E05
213-55	Pipefitter (56)	72.953	0	7.807	A30, A27, A04, A02, B26, C30, C39, C03

CCN	Facility Type	Condition / Area (# KSF) See Note (1)			Comments/ Deficiency Codes See Note 2
		Adequate	Substandard	Inadequate	
213-56	Woodworking (64)	100.356	0	8.200	A08, A30, A02, A27, B26, C32, D30, E48
213-57	Electronics (67)	151.336	0	10.300	A08, A30, A27, C23, C10, D30, D26, E05
213-58	Boat Shop	0	0	0	N/A to PHNS
213-59 / 60	Abrasive Blast / Paint Facility (71)	35.287	0	40.652	A20, A30, B30, B26, D30, F30
213-61	Rigging Shop (72)	68.988	0	0	None
213-62	Sail Loft	46.948	0	0	A21, A27, C10
213-63	Foundry (81)	0	53.508	0	A02, A30, C30, C38
213-64	Pattern Maker (94)	31.785	0	0	A02, D30
213-65	Nuclear Repair	36.267	0	0	None
213-66	Temporary Svc (99)	63.894	0	.501	B26, C30, D30
213-10	Drydocks	506.01	0	0	See Note (3); A04, A05, A21, A23, C30, C32
213-67	Drydock Pumphouse	38.430	0	0	None
213-68	Divers Change House	0	0	0	N/A to PHNS
213-70	Ship Svc Support	13.322	0	0	None
213-77	Ships/Spares Storage	103.011	0	50.733	A21, A24, A30, A27, B26, C30, C11, C10, C05, C51, C53, D30, E05
213-20	Marine Railway	0	0	0	N/A to PHNS
213-40	Fixed Crane Structures	1 ea.	0	0	None
151-20	GP Berth Pier	0	0	0	N/A to PHNS
151-50	GP Repair Pier	6.556 KFB	0	0	A05, A30, A25, A21, A42, B30, E21

CCN	Facility Type	Condition / Area (# KSF) See Note (1)			Comments/ Deficiency Codes See Note 2
		Adequate	Substandard	Inadequate	
152-20	Berth Wharf	0	0	0	N/A to PHNS
152-50	Repair Wharf	4.835 KFB	0	.762 KFE	A05, A21, A25, E05, F30
154-20	Quaywalls	0	0	0	N/A to PHNS
155-10	Fleet Landing	0	0	0	N/A to PHNS
155-20	Small Craft Berthing	.128 KFB	0	0	C30
860-10	Railroad Trackage	0	0	0	N/A to PHNS
Total		2097.37	53.508	249.44	

Note: (1) The table's Adequate, Inadequate, and Substandard condition rating reflects an operational usage condition and not a "dollars to repair" condition as defined in NAVFACINST 11010.44, Sec. 5.7. For this data call, an adequate facility condition is defined as a facility being fully operational for basic mission requirements.

Note: (2) Drydocks 1, 2 and 4 have modernization MILCONs to upgrade electrical systems. Existing electrical system is fully capable for current use.

Note: (3) See deficiency code list in table 33.1.b.

Facilities and Equipage, continued

7.2 In Table 7.2.a, identify space available for expansion by building type for those facility category code numbers (five or six digit CCNs) that are most important to your mission. An activity's expansion capability is a function of its ability to reconfigure/rehabilitate existing underutilized facilities to accept new or increased requirements.

Table 7.2.a: Space Available for Expansion

Building ID / Type	CCN	Installation Space (KSF)			Total
		Adequate	Substandard	Inadequate	
Central Tool (06)	213-41	7.99	0	34.88	42.87
Shipfitting Shop (11)	213-42	71.96	0	0	71.96
Sheet Metal (17)	213-43	.64	25.57	0	26.21
Forge & Heat Treatment (23)	213-44	19.12	0	0	19.12
Welding (26)	213-45	15.65	0	0	15.65
Q.A.	213-48	45.03	0	0	45.03
Optical Shop	213-50	0	0	0	0.00
Weapons Shop (36)	213-51	0	0	0	0.00
Inside Machine (31)	213-49	98.55	0	0	98.55
Marine Machine (38)	213-52	53.63	0	0	53.63
Boilermaker (41)	213-53	23.52	0	0	23.52
Electrical (51)	213-54	78.32	0	0	78.32
Pipefitter (56)	213-55	36.48	0	3.90	40.38
Woodworking (64)	213-56	50.18	0	4.10	54.28
Electronics (67)	213-57	75.67	0	5.15	80.82
Boat Shop	213-58	0	0	0	0.00
Abrasive Blast / Paint Facility (71)	213-59 / 60	17.64	0	20.33	37.97
Rigging Shop (72)	213-61	34.49	0	5.18	39.67
Sail Loft	213-62	23.47	0	0	23.47
Foundry (81)	213-63	0	26.75	0	26.75
Pattern Maker (94)	213-64	15.89	0	0	15.89

	CCN	Installation Space (KSF)			Total
		Adequate	Substandard	Inadequate	
Nuclear Repair	213-65	19.13	0	0	19.13
Temporary Svc (99)	213-66	31.95	0	.25	32.20
Drydocks	213-10	0	0	0	0.00
Drydock Pumphouse	213-67	19.22	0	0	19.22
Divers Change House	213-68	0	0	0	0.00
Ship Svc Support	213-70	6.66	0	0	6.66
Ships/Spares Storage	213-77	51.51	0	0	51.51
Marine Railway	213-20	0	0	0	0.00
Fixed Crane Structures	213-40	1 ea.	0	0	1 ea.
GP Berth Pier	151-20	0	0	0	0.00
GP Repair Pier	151-50	3.28 KFB	0	0	3.28 KFB
Berth Wharf	152-20	0	0	0	0.00
Repair Wharf	152-50	2.42 KFB	0	.38 KFB	2.80 KFB
Quaywalls	154-20	0	0	0	0.00
Fleet Landing	155-10	0	0	0	0.00
Small Craft Berthing	155-20	.64	0	0	0.64
Railroad Package	860-10	0	0	0	0.00
TOTAL:		797.34	26.75	99.36	923.45

Facilities and Equipage, continued

8. Unique and/or Peculiar Capabilities and Capacities

8.1 What unique and/or peculiar capabilities and capacities does the depot maintenance activity possess?

◆ Only fully capable naval depot level maintenance facility in the central Pacific area. Most forward located depot maintenance facility in the Pacific Rim area.

◆ Capabilities include:

- 4 operational drydocks capable of handling all naval ships.
- Extensive machine shops and industrial plant equipment capable of supporting the most extensive overhaul, conversion or repair requirements on naval or civilian vessels.
- Full capability for nuclear repair work, including radiological support and services.
- Full range of Quality Assurance and Non-Destructive Testing services.
- Full range of engineering services, nuclear and non-nuclear.

8.2 Separately list the depot maintenance facilities and equipment which are one of a kind within the Service and/or DoD.

<u>Facility/Equipment</u>	<u>Describe Why It is One of a Kind</u>
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None

Facilities and Equipage, continued

9. Acreage Available for Building

9.1 What acreage on the installation does the government own in the proximity of the depot maintenance area that could be used for future expansion? 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. Developed area is defined as land currently with buildings, roads, and utilities where further development is not possible without demolition of existing improvements. Report 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.

Table 9.1: Real Estate Resources

Land Use	Total Acres	Developed Acreage	Available for Development	
			Restricted *	Unrestricted
Maintenance	131	131	0	0
Operational	0	0	0	0
Training	1.6	1.6	0	0
R & D	0	0	0	0
Supply & Storage	17	11	0	0
Admin	10	10	0	0
Housing	0	0	0	0
Recreational	0	0	0	0
Forestry Program	0	0	0	0
Agricultural Outlease Program	0	0	0	0
Hunting/Fishing Programs	0	0	0	0
Other	148.7	148.7	0	0
Total:	308.3	302.3	0	0

* The 1.4 acres of restricted development area is located within the voluntary 850-foot clear zone that buffers Hickam Elementary School from industrial operations (see Sec. 5, Encroachments). The restrictions is self-imposed by the shipyard.

Facilities and Equipage, continued

10. Administrative Space

10.1 What amount in square feet of administrative space could be made available to the depot maintenance function?

<u>Current Use</u>	<u>Square Feet</u>	<u>Potential Use (Be Specific)</u>
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Approximately 196,000 square feet of existing office could be made available. This is approximately one-half of the total shipyard administrative office space area. The shipyard currently has a total of 393,060 square feet of administrative office space for management, business, financial, engineering, production, and staff offices spread among the various departments and shops. To make this space available however, shipyard offices need to be consolidated into a lesser number of buildings. A plan to consolidate shipyard command management, business, financial, engineering and planning, and supply offices is underway. In addition to consolidations existing space-inefficient furniture need to be replaced with space-saving modular furniture to optimize floor space. Modular furniture has already been installed in a few offices within the shipyard.

The 196,000 square feet includes substandard office space that the shipyard plans to vacate and demolish, approximately 136,000 square feet. After demolition, there would be approximately 60,000 square feet that could be made available.

11. Industrial Waste

11.1 Are there any inhibiting factors that would limit future expansion on the base? Provide the details if applicable.

<u>Inhibiting Factor</u>	<u>Provide Detailed Description</u>
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None.

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12. Core Capabilities (DoD)

12.1 What is the amount of core capability required to support your own Service? Provide your answers in Table 12.1.a by commodity group for the Fiscal Years requested.

Table 12.1.a: Service Required Core

COMMODITY GROUP	Capability (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7.1 Radar	7486	7486	7486	7486
7.2 Radio Comm	10483	10483	10483	10483
11.1 Ships	2679353	2679353	2679353	2679353
11.2 Weapons Sys	129198	129198	129198	129198
11.3 Ship/S.board	107457	107457	107457	107457
11.4 Shipyard Supp	191326	191326	191326	191326
13.3 TMDE	55039	55039	55039	55039
15.0 Manufacturing	31451	31451	31451	31451
TOTAL	3211792	3211792	3211792	3211792

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NOTE: Table 12.1.a: Service Required Core
Provided by NAVSEA Headquarters

MEASURES OF MERIT

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Primary UIC: 00311

Workload and Capabilities

Answers to the following questions are to reflect programmed amounts by commodity group, by activity in direct labor hours by Fiscal Year for FY 1996 through FY 1999.

12. Core Capabilities (DoD)

12.1 What is the amount of core capability required to support your own Service? Provide your answers in Table 12.1.a by commodity group for the Fiscal Years requested.

Table 12.1.a: Service Required Core

COMMODITY GROUP	C a p a b i l i t y (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7.1 Radar	7486	7486	7486	7486
7.2 Radio Comm	10483	10483	10483	10483
7.4 Elec Warfare	340376	340376	340376	340376
7.5 Nav Aids	16933	16933	16933	16933
11.1 Ships	2322044	2322044	2322044	2322044
11.2 Weapons Sys	129198	129198	129198	129198
11.3 Ship/S.board S	107457	107457	107457	107457
11.4 Shipyard Supp	191326	191326	191326	191326
13.3 TMDE	55039	55039	55039	55039
15.0 Manufacturing	31451	31451	31451	31451
TOTAL	3211792	3211792	3211792	3211792

NOTE: Table 12.1.a: Service Required Core
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MEASURES OF MERIT

Primary UIC: 00311

Workload and Capabilities

Answers to the following questions are to reflect programmed amounts by commodity group, by activity in direct labor hours by Fiscal Year for FY 1996 through FY 1999.

12. Core Capabilities (DoD)

12.1 What is the amount of core capability required to support your own Service? Provide your answers in Table 12.1.a by commodity group for the Fiscal Years requested.

Table 12.1.a: **Service Required Core**

COMMODITY GROUP	C a p a b i l i t y (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7.1 Radar	7486	7486	7486	7486
7.2 Radio Comm	10484	10484	10484	10484
7.4 Elec Warfare	340376	340376	340376	340376
7.5 Nav Aids	16932	16932	16932	16932
11.1 Ships	2322043	2322043	2322043	2322043
11.2 Weapons Sys	129198	129198	129198	129198
11.3 Ship/S.board S	107457	107457	107457	107457
11.4 Shipyard Supp	191326	191326	191326	191326
13.3 TMDE	55039	55039	55039	55039
15.0 Manufacturing	31451	31451	31451	31451
TOTAL	3211792	3211792	3211792	3211792

NOTE: Table 12.1.a: **Service Required Core**
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MEASURES OF MERIT

Primary UIC: 00311

Workload and Capabilities

Answers to the following questions are to reflect programmed amounts by commodity group, by activity in direct labor hours by Fiscal Year for FY 1996 through FY 1999.

12. Core Capabilities (DoD)

12.1 What is the amount of core capability required to support your own Service? Provide your answers in Table 12.1.a by commodity group for the Fiscal Years requested.

Table 12.1.a: **Service Required Core**

COMMODITY GROUP	C a p a b i l i t y (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7	349069	349069	349069	349069
Radar	4865	4865	4865	4865
Electronic Warfare	335134	335134	335134	335134
Navigational Aids	9070	9070	9070	9070
11	2435515	2435515	2435515	2435515
Ships	2306318	2306318	2306318	2306318
Weapons Sys	129197	129197	129197	129197
14 Other	427208	427208	427208	427208
TOTAL	3211792	3211792	3211792	3211792

NOTE: Table 12.1.a: **Service Required Core**
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MEASURES OF MERIT

Primary UIC: 00311

Workload and Capabilities

Answers to the following questions are to reflect programmed amounts by commodity group, by activity in direct labor hours by Fiscal Year for FY 1996 through FY 1999.

12. Core Capabilities (DoD)

12.1 What is the amount of core capability required to support your own Service? Provide your answers in Table 12.1.a by commodity group for the Fiscal Years requested.

Table 12.1.a: **Service Required Core**

COMMODITY GROUP	C a p a b i l i t y (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7	349735	349735	349735	349735
Radar	4875	4875	4875	4875
Electronic Warfare	335773	335773	335773	335773
Navigational Aids	9087	9087	9087	9087
11	2440162	2440162	2440162	2440162
Ships	2310718	2310718	2310718	2310718
Weapons Sys	129444	129444	129444	129444
13 Calibration	95983	95983	95983	95983
14 Other	332040	332040	332040	332040
TOTAL	3217920	3217920	3217920	3217920

NOTE: Table 12.1.a: **Service Required Core**
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MEASURES OF MERIT

Workload and Capabilities

Answers to the following questions are to reflect programmed amounts by commodity group, by activity in direct labor hours by Fiscal Year for FY 1996 through FY 1999.

12. Core Capabilities (DoD)

12.1 What is the amount of core capability required to support your own Service? Provide your answers in Table 12.1.a by commodity group for the Fiscal Years requested.

Table 12.1.a: Service Required Core

COMMODITY GROUP	Capability (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
TOTAL				

Workload and Capabilities, continued

12. Core Capabilities (DoD), continued

12.2 What is the amount of capability retained for the performance of other Services core? Provide your answers in Table 12.2.a by commodity group for the Fiscal Years requested.

Table 12.2.a: Core Capability Retained for Other Services

COMMODITY TYPE	Capability (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
TOTAL				

Workload and Capabilities, continued

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12. Core Capabilities (DoD), continued

12.3 What portion of the Service Core capability identified in the 12.1a above is identified as Service-Controlled Core (Title 10 responsibility)? Provide your answer in Table 12.3.a by commodity group for the Fiscal Years requested.

Table 12.3.a: Service-Controlled Core (Title 10)

COMMODITY GROUP	Capability (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7.1 Radar	7486	7486	7486	7486
7.2 Radio Comm	10483	10483	10483	10483
11.1 Ships	2679353	2679353	2679353	2679353
11.2 Weapons Sys	129198	129198	129198	129198
11.3 Ship/S.board S	107457	107457	107457	107457
11.4 Shipyard Supp	191326	191326	191326	191326
13.3 TMDE	55039	55039	55039	55039
15.0 Manufacturing	31451	31451	31451	31451
TOTAL	3211792	3211792	3211792	3211792

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NOTE: Table 12.3.a: Service-Controlled Core (Title 10)
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Workload and Capabilities, continued

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Primary UIC: 00311

12. Core Capabilities (DoD), continued

12.3 What portion of the Service Core capability identified in the 12.1a above is identified as Service-Controlled Core (Title 10 responsibility)? Provide your answer in Table 12.3.a by commodity group for the Fiscal Years requested.

Table 12.3.a: Service-Controlled Core (Title 10)

COMMODITY GROUP	Capability (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7.1 Radar	7486	7486	7486	7486
7.2 Radio Comm	10483	10483	10483	10483
7.4 Elec Warfare	340376	340376	340376	340376
7.5 Nav Aids	16933	16933	16933	16933
11.1 Ships	2322044	2322044	2322044	2322044
11.2 Weapons Sys	129198	129198	129198	129198
11.3 Ship/S.board S	107457	107457	107457	107457
11.4 Shipyard Supp	191326	191326	191326	191326
13.3 TMDE	55039	55039	55039	55039
15.0 Manufacturing	31451	31451	31451	31451
TOTAL	3211792	3211792	3211792	3211792

NOTE: Table 12.3.a: Service-Controlled Core (Title 10)

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Workload and Capabilities, continued

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12. Core Capabilities (DoD), continued

12.3. What portion of the Service Core capability identified in the 12. .a above is identified as Service-Controlled Core (Title 10 responsibility)? Provide your answer in Table 12.3.a by commodity group for the Fiscal Years requested.

Table 12.3.a: **Service-Controlled Core (Title 10)**

COMMODITY GROUP	C a p a b i l i t y (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7.1 Radar	7486	7486	7486	7486
7.2 Radio Comm	10484	10484	10484	10484
7.4 Elec Warfare	340376	340376	340376	340376
7.5 Nav Aids	16932	16932	16932	16932
11.1 Ships	2322043	2322043	2322043	2322043
11.2 Weapons Sys	129198	129198	129198	129198
11.3 Ship/S.board S	107457	107457	107457	107457
11.4 Shipyard Supp	191326	191326	191326	191326
13.3 TMDE	55039	55039	55039	55039
15.0 Manufacturing	31451	31451	31451	31451
TOTAL	3211792	3211792	3211792	3211792

NOTE: Table 12.3.a: **Service-Controlled Core (Title 10)**

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Workload and Capabilities, continued

Primary UIC: 00311

12. Core Capabilities (DoD), continued

12.3 What portion of the Service Core capability identified in the 12.1 a above is identified as Service-Controlled Core (Title 10 responsibility)? Provide your answer in Table 12.3.a by commodity group for the Fiscal Years requested.

Table 12.3.a: Service-Controlled Core (Title 10)

COMMODITY GROUP	C a p a b i l i t y (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7	349069	349069	349069	349069
Radar	4865	4865	4865	4865
Electronic Warfare	335134	335134	335134	335134
Navigational Aids	9070	9070	9070	9070
11	2435515	2435515	2435515	2435515
Ships	2306318	2306318	2306318	2306318
Weapons Sys	129197	129197	129197	129197
14 Other	427208	427208	427208	427208
TOTAL	3211792	3211792	3211792	3211792

NOTE: Table 12.3.a: **Service-Controlled Core (Title 10)**

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Workload and Capabilities, continued

12. Core Capabilities (DoD), continued

12.3 What portion of the Service Core capability identified in the 12.1a above is identified as Service-Controlled Core (Title 10 responsibility)? Provide your answer in Table 12.3.a by commodity group for the Fiscal Years requested.

Table 12.3.a: Service-Controlled Core (Title 10)

COMMODITY GROUP	Capability (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
TOTAL				

Workload and Capacities, continued

Primary UIC: 00311

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13. Core Workloads

13.1 What are your total Core Workloads to be applied against capabilities identified in Tables 12.1a and 12.2a)? Provide your answer (DLH) in Table 13.1.a by commodity group for the Fiscal Year requested.

Table 13.1a Total Core Workloads

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7.1 Radar	7486	7486	7486	7486
7.2 Radio Comm	10483	10483	10483	10483
11.1 Ships	2679353	2679353	2679353	2679353
11.2 Weapons Sys	129198	129198	129198	129198
11.3 Ship/S.board S	107457	107457	107457	107457
11.4 Shipyard Supp	191326	191326	191326	191326
13.3 TMDE	55039	55039	55039	55039
15.0 Manufacturing	31451	31451	31451	31451
TOTAL	3211792	3211792	3211792	3211792

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NOTE: Table 13.1a Total Core Workloads
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Workload and Capacities, continued

Primary UIC: 00311

13. Core Workloads

13.1 What are your total Core Workloads to be applied against capabilities identified in Tables 12.1a and 12.2a)? Provide your answer (DLH) in Table 13.1.a by commodity group for the Fiscal Year requested.

Table 13.1a Total Core Workloads

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7.1 Radar	7486	7486	7486	7486
7.2 Radio Comm	10483	10483	10483	10483
7.4 Elec Warfare	340376	340376	340376	340376
7.5 Nav Aids	16933	16933	16933	16933
11.1 Ships	2322044	2322044	2322044	2322044
11.2 Weapons Sys	129198	129198	129198	129198
11.3 Ship/S.board S	107457	107457	107457	107457
11.4 Shipyard Supp	191326	191326	191326	191326
13.3 TMDE	55039	55039	55039	55039
15.0 Manufacturing	31451	31451	31451	31451
TOTAL	3211792	3211792	3211792	3211792

NOTE: Table 13.1a Total Core Workloads

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Workload and Capacities, continued

Primary UIC: 00311

13. Core Workloads

13.1 What are your total Core Workloads to be applied against capabilities identified in Tables 12.1a and 12.2a)? Provide your answer (DLH) in Table 13.1.a by commodity group for the Fiscal Year requested.

Table 13.1a Total Core Workloads

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7.1 Radar	7486	7486	7486	7486
7.2 Radio Comm	10484	10484	10484	10484
7.4 Elec Warfare	340376	340376	340376	340376
7.5 Nav Aids	16932	16932	16932	16932
11.1 Ships	2322043	2322043	2322043	2322043
11.2 Weapons Sys	129198	129198	129198	129198
11.3 Ship/S.board S	107457	107457	107457	107457
11.4 Shipyard Supp	191326	191326	191326	191326
13.3 TMDE	55039	55039	55039	55039
15.0 Manufacturing	31451	31451	31451	31451
TOTAL	3211792	3211792	3211792	3211792

NOTE: Table 13.1a Total Core Workloads
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Workload and Capacities, continued

Primary UIC: 00311

13. Core Workloads

13.1 What are your total Core Workloads to be applied against capabilities identified in Tables 12.1a and 12.2a)? Provide your answer (DLH) in Table 13.1.a by commodity group for the Fiscal Year requested.

Table 13.1a Total Core Workloads

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7	349069	349069	349069	349069
Radar	4865	4865	4865	4865
Electronic Warfare	335134	335134	335134	335134
Navigational Aids	9070	9070	9070	9070
11	2435515	2435515	2435515	2435515
Ships	2306318	2306318	2306318	2306318
Weapons Sys	129197	129197	129197	129197
14 Other	427208	427208	427208	427208
TOTAL	3211792	3211792	3211792	3211792

NOTE: Table 13.1a Total Core Workloads
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Workload and Capacities, continued

Primary UIC: 00311

13. Core Workloads

13.1 What are your total Core Workloads to be applied against capabilities identified in Tables 12.1a and 12.2a)? Provide your answer (DLH) in Table 13.1.a by commodity group for the Fiscal Year requested.

Table 13.1a Total Core Workloads

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7	349735	349735	349735	349735
Radar	4875	4875	4875	4875
Electronic Warfare	335773	335773	335773	335773
Navigational Aids	9087	9087	9087	9087
11	2440162	2440162	2440162	2440162
Ships	2310718	2310718	2310718	2310718
Weapons Sys	129444	129444	129444	129444
13 Calibration	95983	95983	95983	95983
14 Other	332040	332040	332040	332040
TOTAL	3217920	3217920	3217920	3217920

NOTE: Table 13.1a Total Core Workloads
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Workload and Capacities, continued

13. Core Workloads

13.1 What are your total Core Workloads to be applied against capabilities identified in Tables 12.1a and 12.2a)? Provide your answer (DLH) in Table 13.1.a by commodity group for the Fiscal Year requested.

Table 13.1a Total Core Workloads

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
TOTAL				

Workload and Capabilities, continued

14. Other Workloads (Above Core)

14.1 What above core workloads do you perform by these source categories? Use the most appropriate category, but do not duplicate workload on more than one table. Provide answers in Tables 14.1.a through 14.1.g by commodity group for the Fiscal Years requested.

Table 14.1.a: FMS Above Core Workload

COMMODITY GROUP	Workload (DLHS)			
	FY 1996	FY 1997	FY 1998	FY 1999
TOTAL				

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Workload and Capabilities, continued

Primary UIC: 00311

14. Other Workloads (Above Core), continued

Table 14.1.b: Interservice Above Core Workload

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
See Note, Table 14.1.a				
TOTAL				

Table 14.1.c: Other Agency Above Core Workload

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
See Note, Table 14.1.a				
TOTAL				

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Workload and Capabilities, continued

14. Other Workloads (Above Core), continued

Table 14.1.b: Interservice Above Core Workload

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
TOTAL				

Table 14.1.c: Other Agency Above Core Workload

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
TOTAL				

Workload and Capabilities, continued

Primary UIC: 00311



14. Other Workloads (Above Core), continued

Table 14.1.d: Last Source of Repair Workload

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7.1 Radar	592	910	948	4008
7.2 Radio Comm	829	1275	1327	5614
11.1 Ships	211906	325814	339214	1434744
11.2 Weapons Sys	10218	15711	16357	69183
11.3 Ship/S.board S	8499	13067	13604	57541
11.4 Shipyard Supp	15132	23265	24223	102452
13.3 TMDE	4353	6693	6968	29472
15.0 Manufacturing	2487	3825	3982	16824
TOTAL	254016	390560	406624	1719856

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NOTE: Table 14.1.d: Last Source of Repair Workload
Provided by NAVSEA Headquarters

Workload and Capabilities, continued

Primary UIC: 00311

14. Other Workloads (Above Core), continued

Table 14.1.d: Last Source of Repair Workload

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7.1 Radar	592	910	948	4008
7.2 Radio Comm	829	1275	1327	5614
7.4 Elec Warfare	26920	41390	43093	182265
7.5 Nav Aids	1339	2059	2143	9067
11.1 Ships	183647	282365	293979	1243412
11.2 Weapons Sys	10218	15711	16357	69183
11.3 Ship/S.board S	8499	13067	13604	57541
11.4 Shipyard Supp	15132	23265	24223	102452
13.3 TMDE	4353	6693	6968	29472
15.0 Manufacturing	2487	3825	3982	16824
TOTAL	254016	390560	406624	1719856

NOTE: Table 14.1.d: Last Source of Repair Workload
 Provided by NAVSEA Headquarters

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Workload and Capabilities, continued

Primary UIC: 00311

14. Other Workloads (Above Core), continued

Table 14.1.d: **Last Source of Repair Workload**

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7.1 Radar	4430	4430	4430	4430
7.2 Radio Comm	6203	6203	6203	6203
7.4 Elec Warfare	201406	201406	201406	201406
7.5 Nav Aids	10019	10019	10019	10019
11.1 Ships	1373993	1373993	1373993	1373993
11.2 Weapons Sys	76449	76449	76449	76449
11.3 Ship/S.board S	63584	63584	63584	63584
11.4 Shipyard Supp	113210	113210	113210	113210
13.3 TMDE	32568	32568	32568	32568
15.0 Manufacturing	18610	18610	18610	18610
TOTAL	1900472	1900472	1900472	1900472

NOTE: Table 14.1.d: **Last Source of Repair Workload**
Provided by NAVSEA Headquarters

Workload and Capabilities, continued

14. Other Workloads (Above Core), continued

Table 14.1.d: Last Source of Repair Workload

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
TOTAL				

Workload and Capabilities, continued

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Primary UIC: 00311

14. Other Workloads (Above Core), continued

Table 14.1.e: Within Service Above Core Workload

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
See Note, Table 14.1.a				

**NOTE: Table 14.1.e: Within Service Above Core Workload
Provided by NAVSEA Headquarters**

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Workload and Capabilities, continued

Primary UIC: 00311

14. Other Workloads (Above Core), continued

Table 14.1.e: Within Service Above Core Workload

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7.1 Radar	6806	6806	6805	6806
7.2 Radio Comm	9530	9530	9530	9530
7.4 Elec Warfare	309424	309424	309424	309424
7.5 Nav Aids	15394	15394	15394	15394
11.1 Ships	2110894	2110894	2110894	2110894
11.2 Weapons Sys	117450	117450	117450	117450
11.3 Ship/S.board S	97685	97685	97685	97685
11.4 Shipyard Supp	173928	173928	173928	173928
13.3 TMDE	50034	50034	50034	50034
15.0 Manufacturing	28594	28594	28594	28594
TOTAL	2919739	2919739	2919739	2919739

NOTE: Table 14.1.e: Within Service Above Core Workload
Provided by NAVSEA Headquarters

Workload and Capabilities, continued

14. Other Workloads (Above Core), continued

Table 14.1.e: Within Service Above Core Workload

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
TOTAL				

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14. Other Workloads (Above Core), continued

Table 14.1.h: Total Above Core Workload
(Sum of Tables 14.1.a through 14.1.g)

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7.1 Radar	592	910	948	4008
7.2 Radio Comm	829	1275	1327	5614
11.1 Ships	211906	325814	339214	1434744
11.2 Weapons Sys	10218	15711	16357	69183
11.3 Ship/S.board S	8499	13067	13604	57541
11.4 Shipyard Supp	15132	23265	24223	102452
13.3 TMDE	4353	6693	6968	29472
15.0 Manufacturing	2487	3825	3982	16824
TOTAL	254016	390560	406624	1719856

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NOTE: Table 14.1.h: Total Above Core Workload
Provided by NAVSEA Headquarters

Workloads and Capabilities, continued

R Primary UIC: 00311

14. Other Workloads (Above Core), continued

**Table 14.1.h: Total Above Core Workload
(Sum of Tables 14.1.a through 14.1.g)**

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7.1 Radar	592	910	948	4008
7.2 Radio Comm	829	1275	1327	5614
7.4 Elec Warfare	26920	41390	43093	182265
7.5 Nav Aids	1339	2059	2143	9067
11.1 Ships	183647	282365	293979	1243412
11.2 Weapons Sys	10218	15711	16357	69183
11.3 Ship/S.board S	8499	13067	13604	57541
11.4 Shipyard Supp	15132	23265	24223	102452
13.3 TMDE	4353	6693	6968	29472
15.0 Manufacturing	2487	3825	3982	16824
TOTAL	254016	390560	406624	1719856

NOTE: Table 14.1.h: **Total Above Core Workload**
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Workloads and Capabilities, continued

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14. Other Workloads (Above Core), continued

Table 14.1.h: **Total Above Core Workload**
(Sum of Tables 14.1.a through 14.1.g)

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7.1 Radar	11236	11236	11236	11236
7.2 Radio Comm	15733	15733	15733	15733
7.4 Elec Warfare	510830	510830	510830	510830
7.5 Nav Aids	25413	25413	25413	25413
11.1 Ships	3484887	3484887	3484887	3484887
11.2 Weapons Sys	193899	193899	193899	193899
11.3 Ship/S.board S	161269	161269	161269	161269
11.4 Shipyard Supp	287138	287138	287138	287138
13.3 TMDE	82602	82602	82602	82602
15.0 Manufacturing	47204	47204	47204	47204
TOTAL	4820211	4820211	4820211	4820211

NOTE: Table 14.1.h: **Total Above Core Workload**
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15. Unique and/or Peculiar Workloads (Refer to Question 8.1)

15.1 What amount of the workload reported in question 8.1 is Core? Provide your answer in Table 15.1 by commodity groups for the Fiscal Years requested.

Table 15.1: Unique and/or Peculiar Total Core Workload

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7.1 Radar	7486	7486	7486	7486
7.2 Radio Comm	10483	10483	10483	10483
11.1 Ships	2679353	2679353	2679353	2679353
11.2 Weapons Sys	129198	129198	129198	129198
11.3 Ship/S.board S	107457	107457	107457	107457
11.4 Shipyard Supp	191326	191326	191326	191326
13.3 TMDE	55039	55039	55039	55039
15.0 Manufacturing	31451	31451	31451	31451
TOTAL	3211792	3211792	3211792	3211792

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NOTE: All designated CORE ship work is unique to NSYS
Provided by NAVSEA Headquarters

R

Workload and Capabilities, continued

Primary UIC: 00311

15. Unique and/or Peculiar Workloads (Refer to Question 8.1)

15.1 What amount of the workload reported in question 8.1 is Core? Provide your answer in Table 15.1 by commodity groups for the Fiscal Years requested.

Table 15.1: Unique and/or Peculiar Total Core Workload

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7.1 Radar	7486	7486	7486	7486
7.2 Radio Comm	10483	10483	10483	10483
7.4 Elec Warfare	340376	340376	340376	340376
7.5 Nav Aids	16933	16933	16933	16933
11.1 Ships	2322044	2322044	2322044	2322044
11.2 Weapons Sys	129198	129198	129198	129198
11.3 Ship/S.board S	107457	107457	107457	107457
11.4 Shipyard Supp	191326	191326	191326	191326
13.3 TMDE	55039	55039	55039	55039
15.0 Manufacturing	31451	31451	31451	31451
TOTAL	3211792	3211792	3211792	3211792

NOTE: All designated CORE ship work is unique to NSYs
Provided by NAVSEA Headquarters

Rev.

Workload and Capabilities, continued

Primary UIC: 00311

15. Unique and/or Peculiar Workloads (Refer to Question 8.1)

15.1 What amount of the workload reported in question 8.1 is Core? Provide your answer in Table 15.1 by commodity groups for the Fiscal Years requested.

Table 15.1: Unique and/or Peculiar Total Core Workload

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7.1 Radar	7486	7486	7486	7486
7.2 Radio Comm	10484	10484	10484	10484
7.4 Elec Warfare	340376	340376	340376	340376
7.5 Nav Aids	16932	16932	16932	16932
11.1 Ships	2322043	2322043	2322043	2322043
11.2 Weapons Sys	129198	129198	129198	129198
11.3 Ship/S.board S	107457	107457	107457	107457
11.4 Shipyard Supp	191326	191326	191326	191326
13.3 TMDE	55039	55039	55039	55039
15.0 Manufacturing	31451	31451	31451	31451
TOTAL	3211792	3211792	3211792	3211792

NOTE: All designated CORE is unique to NSYS
Provided by NAVSEA Headquarters

Revised pg

Workload and Capabilities, continued

Primary UIC: 00311

15. Unique and/or Peculiar Workloads (Refer to Question 8.1)

15.1 What amount of the workload reported in question 8.1 is Core? Provide your answer in Table 15.1 by commodity groups for the Fiscal Years requested.

Table 15.1: Unique and/or Peculiar Total Core Workload

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
See Note, Table 14.1.a				
TOTAL				

Workload and Capabilities, continued

15. Unique and/or Peculiar Workloads (Refer to Question 8.1)

15.1 What amount of the workload reported in question 8.1 is Core? Provide your answer in Table 15.1 by commodity groups for the Fiscal Years requested.

Table 15.1: Unique and/or Peculiar Total Core Workload

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
TOTAL				



15. Unique and/or Peculiar Workloads (Refer to Question 8.1), continued

15.2 What amount of the workload reported in question 8.1 is non-Core? Provide your answer in table 15.2 by commodity group for the Fiscal Years requested.

Table 15.2: Non-Core Unique and/or Peculiar Workload

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7.1 Radar	592	910	948	4008
7.2 Radio Comm	829	1275	1327	5614
11.1 Ships	211906	325814	339214	1434744
11.2 Weapons Sys	10218	15711	16357	69183
11.3 Ship/S.board S	8499	13067	13604	57541
11.4 Shipyard Supp	15132	23265	24223	102452
13.3 TMDE	4353	6693	6963	29472
15.0 Manufacturing	2487	3825	3982	16824
TOTAL	254016	390560	406624	1719856

R
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R

NOTE: All Non-CORE ship work is unique to NSYs
 Provided by NAVSEA Headquarters

R

Workload and Capabilities, continued

Primary UIC: 00311

15. Unique and/or Peculiar Workloads (Refer to Question 8.1), continued

15.2 What amount of the workload reported in question 8.1 is non-Core? Provide your answer in table 15.2 by commodity group for the Fiscal Years requested.

Table 15.2: Non-Core Unique and/or Peculiar Workload

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7.1 Radar	592	910	928	4008
7.2 Radio Comm	829	1275	1327	5614
7.4 Elec Warfare	26920	41390	43093	182265
7.5 Nav Aids	1339	2059	2143	9067
11.1 Ships	183647	282365	293979	1243412
11.2 Weapons Sys	10218	15711	16357	69183
11.3 Ship/S.board S	8499	13067	13604	57541
11.4 Shipyard Supp	15132	23265	24223	102452
13.3 TMDE	4353	6693	6968	29472
15.0 Manufacturing	2487	3825	3982	16824
TOTAL	254016	390560	406624	1719856

NOTE: All Non-CORE ship work is unique to NSYs
Provided by NAVSEA Headquarters

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Workload and Capabilities, continued

Primary UIC: 00311

15. Unique and/or Peculiar Workloads (Refer to Question 8.1), continued

15.2 What amount of the workload reported in question 8.1 is non-Core? Provide your answer in table 15.2 by commodity group for the Fiscal Years requested.

Table 15.2: Non-Core Unique and/or Peculiar Workload

COMMODITY GROUP	Workload (DLHs)			
	FY 1996	FY 1997	FY 1998	FY 1999
7.1 Radar	11236	11236	11236	11236
7.2 Radio Comm	15733	15733	15733	15733
7.4 Elec Warfare	510830	510830	510830	510830
7.5 Nav Aids	25413	25413	25413	25413
11.1 Ships	3484887	3484887	3484887	3484887
11.2 Weapons Sys	193899	193899	193899	193899
11.3 Ship/S.board S	161269	161269	161269	161269
11.4 Shipyard Supp	287138	287138	287138	287138
13.3 TMDE	82602	82602	82602	82602
15.0 Manufacturing	47204	47204	47204	47204
TOTAL	4820211	4820211	4820211	4820211

NOTE: All Non-CORE ship work is unique to NS Ys
Provided by NAVSEA Headquarters

Workload and Capabilities, continued

16. Scope of Work Performed

16.1 Indicate the services/functions performed at this activity that are associated with depot maintenance, but not generally classified or considered as integral to the depot maintenance functions.

<u>Service/Function</u>	<u>Description</u>
-------------------------	--------------------

None

16.2 Describe how these services/functions are related to accomplishment of the depot maintenance mission, and the benefits of these relationships.

<u>Service/Function</u>	<u>Describe Relationship and Benefit to Maintenance Mission</u>
-------------------------	---

Workload and Capabilities, continued

17. Interface with Customers

17.1 Indicate any special functions that the depot maintenance function performs that require close interface with customers, such as on-site workloads (e.g. technical assistance, crash/battle damage repairs, modification/upgrade installations).

<u>Service/Function</u>	<u>Describe Required Interface/Relationship/Benefit</u>
Ship Availabilities	<ul style="list-style-type: none">◆ As a DBOF activity the customer (Type Commander, NAVSEA, etc.) must normally interface closely with the shipyard to define the work package, negotiate the price, transfer funds and resolve any growth or new work items as the availability progresses.◆ Due to the size (10,000 to 250,000 mandays), duration (2 to 24 months) and cost (\$10M to \$300M) of ship availabilities, the shipyard and customers must coordinate closely on a continuous basis.◆ Allows for good cost control, tailoring of the work package to the customer's needs and rapid resolution of problems that could cause significant cost or scheduled impact.
Emergency Radiological Support	<ul style="list-style-type: none">◆ As a fully capable nuclear repair and support depot, the shipyard maintains the capability to provide trained personnel, equipment and supplies on short notice to support control and recovery actions at remote sites in the event of a radiological emergency.◆ The shipyard would work closely with the Area Commander and technical authorities to ensure a rapid and coordinated response to better enable the involved activity to control and recover from the incident.
Voyage Repairs	<ul style="list-style-type: none">◆ Short notice repair work involving significant equipment or structural damage, normally small in scope, to operational vessels that must be repaired quickly.◆ As there is little or no advance planning and the response time frame is short, the shipyard must work closely with the customer (Type Commander) to determine the exact damage, obtain drawings and material, make the vessel available for repairs, establish support equipment, conduct the repair and resolve payment.◆ May require transporting shipyard personnel, equipment and repair materials to a remote repair site.

- ◆ May involve short notice drydocking requirement to accomplish repairs.
 - ◆ Benefit is rapid turnaround of a vessel required to meet operational commitments.
- Collision Damage
- ◆ A special category of "voyage repairs", normally involving extensive repairs.
- Battle Damage
- ◆ A special category of "voyage repairs", with the potential for a wide range of significance and scope.
- Other Productive Work (OPW)
- ◆ Also known as "Non-Traditional Work"
 - ◆ Work not normally considered as directly supporting naval vessels.
 - ◆ Wide range of non-traditional customers (Navy, Marines, Air Force, Army, State of Hawaii).
 - ◆ Large number of small jobs.
 - ◆ Unusual or infrequently performed work.
 - ◆ Requires closer coordination between shipyard and customer.
 - ◆ Used to level load the shipyard's workforce when there is insufficient naval work to fully load the available workforce.
 - ◆ Reduces shipyard revenue losses, helps hold down the stabilized manday rate, provides an additional source of revenue.

MEASURES OF MERIT

Costs ¹

18. Real Property Maintenance (RPM)

18.1 What is your activity's backlog of real property maintenance for facilities performing depot maintenance as of 30 September 1993 (express in \$K)?

Pearl Harbor Naval Shipyard's backlog of real property maintenance is \$40,470K.

18.2 What were your activity's annual RPM expenses (in \$K) for Fiscal Years 1990-1993? Provide your answers in Table 18.2.

Table 18.2: Real Property Maintenance Expenses

	FY 1990	FY 1991	FY 1992	FY 1993
RPM Expenses (\$K)	\$15,133	\$13,929	\$18,243	\$16,800

19. Annual Operating Costs (Excludes Materials used in Depot Maintenance Workloads)

19.1 What were the total depot maintenance actual annual operating costs for your activity (AOC/\$K), excluding materials, used in depot maintenance workloads for Fiscal Years 1990-1993? What was the cost per direct labor hour (\$DLH) for actual executed hours reported in the DBOF? Provide your answers in Table 19.1.a.

Table 19.1: Annual Operating Costs

EXPENSE	FY 1990	FY 1991	FY 1992	FY 1993
AOC (\$ K)	\$328,160	\$334,809	\$333,504	\$330,115
\$ / DLH	\$65.66	\$69.94	\$65.00	\$71.90

Costs, continued

20. Environmental Compliance

20.1 What were your total depot maintenance actual and programmed environmental compliance costs (expressed in \$K) for Fiscal Years 1990-1997? Provide your answers in Table 20.1.

Table 20.1: Environmental Compliance Costs

COST(\$K)	FY 1990	FY 1991	FY 1992	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997
Actual	2,139 K	2,139K	2,139 K	2,139K				
Programmed					2,756 K	2,519K	2,384K	2,383K

20.2 If spending is accomplished as programmed above, what will be the remaining costs (backlog at the end of Fiscal Year 1997 expressed in \$K) to bring existing facilities/equipment into environmental compliance?

\$0 at this time.

21. Local Wage Rate

21.1 What were your Department of Labor local wage rates for a WG-11, step 3 for Fiscal Years 1991 through 1994?

Table 21.1: Wage Rate

Wage Rate	FY 1991	FY 1992	FY 1993	FY 1994
WG-11 / Step3	\$16.93	\$17.62	\$18.36	\$19.03

Costs, continued

22. Programmed Capital Investments

22.1 How much is programmed for new mission equipment for Fiscal Years 1996 through 1999? Provide your answer (in \$K) in Table 22.1.

22.2 How much is programmed for replacement equipment for Fiscal Years 1996 through 1999? Provide your answer (in \$K) in Table 22.1.

Table 22.1: Programmed Capital Investments

TYPE	FY 1996	FY 1997	FY 1998*	FY 1999*
NEW MISSION (\$K)	\$0	\$0	\$0	\$0
REPLACEMENT (\$K)	\$19,025	\$7,300	\$2680	\$1800

* Programmed but not funded

¹There are inherent differences in organizational structure and accounting systems across the Services. Consequently, cost accumulations vary considerably. This severely limits the comparability of the cost per direct labor hour (\$/DLH) rates across Service lines.

Data Being Certified: BRAC 95 Data Call Number 9, Pearl Harbor Naval Shipyard

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

NEXT ECHELON LEVEL (if applicable)

Edward L. Shelton

Edward L. Shelton
Signature

NAME (Please type or print)

Deputy Commander for Naval Shipyard
and SUPSHIP Management and Field
Activity Support Directorate
(Acting)

Title Date

9/8/94

Naval Sea Systems Command

Activity

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

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

Signature

G. R. Sterner

G. R. STERNER
Commander

Title Date

9/8/94

Naval Sea Systems Command

Activity

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

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

W. A. EARNER

NAME (Please type or print)

Signature

W. A. Earner

Title

Date

9/9/94

BRAC-95 CERTIFICATION

CAPACITY ANALYSIS DATA CALL #9 - INCLUDING JOINT CROSS SERVICES SUPP.

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."

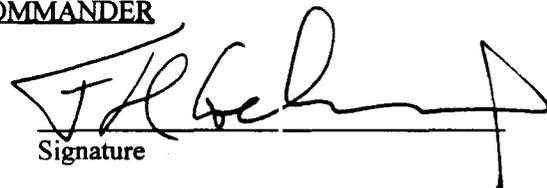
The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

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

Fred H. Gehrman, Jr., Capt., USN
NAME (Please type or print)



Signature

Shipyard Commander
Title

07 September 1994
Date

Pearl Harbor Naval Shipyard
Activity

UIC N00311

Data Being Certified: BRAC 95 Data Call Number 9. Pearl Harbor Naval Shipyard, Revisions

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

NEXT ECHELON LEVEL (if applicable)

William H. Ryzewic

W. H. Ryzewic

NAME (Please type or print)

Signature

Executive Director for Naval Shipyard
and SUPSHIP Management and Field
Activity Support Directorate

9/13/94

Title

Date

Naval Sea Systems Command

Activity

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

MAJOR CLAIMANT LEVEL

S. R. Sturn

NAME (Please type or print)

Signature

STERNER
Commander
Naval Sea Systems Command

9/13/94

Title

Date

Activity

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

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

J. B. GREENE, JR.

J. B. Greene Jr

NAME (Please type or print)

Signature

ACTING

14 SEP 1994

Title

Date 14 SEP 1994

BRAC-95 CERTIFICATION

REVISION 9/12/94 TO JOINT CROSS SERVICES SUPPLEMENT: Table of Contents, pages 5R-9R
CAPACITY ANALYSIS DATA CALL #9 - INCLUDING JOINT CROSS SERVICES SUPP.

Reference: SECNAVNOTE 11000 of 08 December 1993

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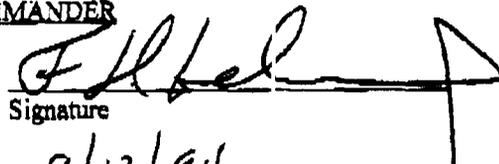
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ACTIVITY COMMANDER

Fred H. Gehrman, Jr., Capt., USN
NAME (Please type or print)


Signature

Shipyard Commander
Title

9/12/94
Date

Pearl Harbor Naval Shipyard
Activity

116

Data Being Certified: BRAC 95 Data Call Number 9, Supplemental, Joint Cross Service Group - Depot Maintenance Tables 12-15, Pearl Harbor Naval Shipyard.

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

MAJOR CLAIMANT LEVEL

NAME (Please type or print)
G. R. STERNER
Commander
Naval Sea Systems Command
Title

Signature *G.R. Sterner*
9/13/94
Date

Activity

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

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

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

ACTING

Title

Signature *J.B. Greene Jr*
14 SEP 1994
Date

114

UIC N00311

Data Being Certified: BRAC 95 Data Call Number 9, Pearl Harbor Naval Shipyard, Revision

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

NEXT ECHELON LEVEL (if applicable)

William H. Ryzewic

NAME (Please type or print)

Signature W. H. Ryzewic

Executive Director for Naval Shipyard and SUPSHIP Management and Field Activity Support Directorate

9/21/94

Title

Date

Naval Sea Systems Command

Activity

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

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

Signature G. R. Sterner

G. R. STERNER
Commander

9/21/94

Naval Sea Systems Command

Title

Date

Activity

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

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

NAME (Please type or print)

Signature W. Eamer

10/5/94

Title

Date

BRAC-95 CERTIFICATION

JOINT CROSS SERVICE SUPPLEMENT, Tables ~~1.1.a, 1.2.a~~ 1.3.a, 3.1.a, 3.1.b, and 7.1

Reference: SECNAVNOTE 11000 of 08 December 1993

*TO BE PROVIDED BY NAUSEA
J.H. Gehrman 9/21/94*

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

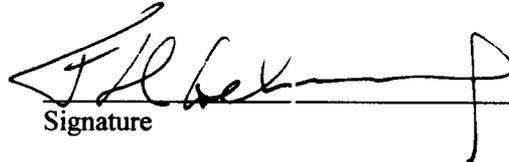
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I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

Fred H. Gehrman, Jr., Capt., USN
NAME (Please type or print)


Signature

Shipyard Commander
Title

20 September 1994
Date

Pearl Harbor Naval Shipyard
Activity

Data Being Certified: BRAC 95 Data Call Number 9, Table 33.1.b, Pearl Harbor Naval Shipyard, Revision

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

NEXT ECHELON LEVEL (if applicable)

William H. Ryzewic

NAME (Please type or print)

Signature

W. H. Ryzewic

Executive Director for Naval Shipyard
and SUPSHIP Management and Field
Activity Support Directorate

9/21/94

Title

Date

Naval Sea Systems Command

Activity

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

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

Signature

G. R. STERNER

Commander

Naval Sea Systems Command

G. R. Sterner

9/21/94

Title

Date

Activity

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

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

NAME (Please type or print)

Signature

W. Eamer

10/5/94

Title

Date

BRAC-95 CERTIFICATION

Capacity Analysis Data Call #9, Table 33.1.b

Reference: SECNAVNOTE 11000 of 08 December 1993

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

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

ACTIVITY COMMANDER

Fred H. Gehrman, Jr., Capt., USN
NAME (Please type or print)


Signature

Shipyard Commander
Title

20 September 1994
Date

Pearl Harbor Naval Shipyard
Activity

UIC N00311

Data Being Certified: BRAC 95 Data Call Number 9, Supplemental, Joint Cross Service Group - Depot Maintenance Tables 1.1a and 1.2a, Pearl Harbor Naval Shipyard.

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

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

G. R. STERNER
Commander

Naval Sea Systems Command Title Date

Signature



9/29/94

Activity

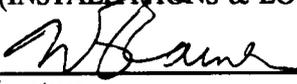
I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

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

W. A. EARNER

NAME (Please type or print)

Signature



9/30/94

Title

Date

UIC N00311

Data Being Certified: BRAC 95 Data Call Number 9, Supplemental, Joint Cross Service Group - Depot Maintenance Tables 12-15, Pearl Harbor Naval Shipyard.

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

MAJOR CLAIMANT LEVEL

NAME (Please type or print)
G. R. STERNER
Commander
Naval Sea Systems Command

Title

Signature *G. R. Sterner*
9/29/94
Date

Activity

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

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

W. A. EARNER

NAME (Please type or print)

Title

Signature *W. A. Earner*
9/30/94
Date

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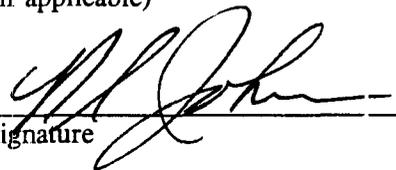
I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

NEXT ECHELON LEVEL (if applicable)

Robert S. Johnson

NAME (Please type or print)

Signature



Director, Field Activity Support Group
Naval Shipyard and SUPSHIP Management
and Field Activity Support Directorate

10/2/94

Title

Date

Naval Sea Systems Command

Activity

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

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

Signature

G. R. STERNER
Commander



Naval Sea Systems Command

10/3/94

Title

Date

Activity

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

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

NAME (Please type or print)

Signature



10/4/94

Title

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."

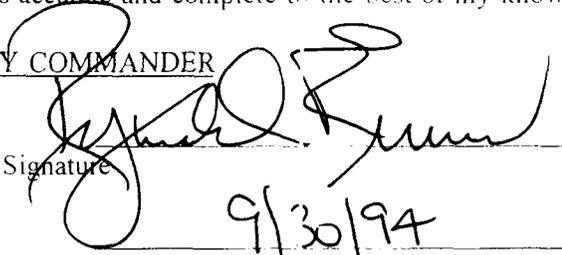
The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

Each individual in your activity generating information for the BRAC-95 process must certify that information. Enclosure (I) 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

Reginald J. Erman, CAPT, USN
NAME (Please type or print)


Signature

Acting Commander
Title

9/30/94
Date

Pearl Harbor Naval Shipyard
Activity

Data being certified:

Data Call Number Nine Tables 13.1b, 13.2, 31.1e, 31.1f, 33.1b, 38.9
(revision of 30 Sep 1994)

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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

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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

Reginald J. Erman, CAPT, USN
NAME (Please type or print)

Signature

Acting Commander
Title

Date

Pearl Harbor Naval Shipyard
Activity

Data being certified:

Joint Cross Services Supplement to Data Call Number Nine
Tables 3.1a, 3.1b (revision of 30 Sep 1994)

UIC N00311

Data Being Certified: BRAC 95 Data Call Number 9, Supplemental, Joint Cross Service Group - Depot Maintenance Table 1.2a, Pearl Harbor Naval Shipyard, Revision.

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

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

Signature

S. R. Sterner

Date

10-4-94

Cmdr. STERNER
Commander
Naval Sea Systems Command
Activity

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

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

NAME (Please type or print)

Signature

W. Eames

Date

10/5/94

Title

R

Data Being Certified: BRAC 95 Data Call Number 9, Supplemental Joint Cross Service Group - Depot Maintenance, Revised Table 1.3.a, Table 3.1.a, and Table 3.1.b, Pearl Harbor Naval Shipyard

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

MAJOR CLAIMANT LEVEL

NAME (Please type or print)
G. R. STERNER
Commander
~~Naval Sea Systems Command~~
Title

Signature
G. R. Sterner

Date
10/7/94

Activity

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

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

W. A. EARNER

NAME (Please type or print)

Title

Signature
W. A. Earner

Date
10/7/94

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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

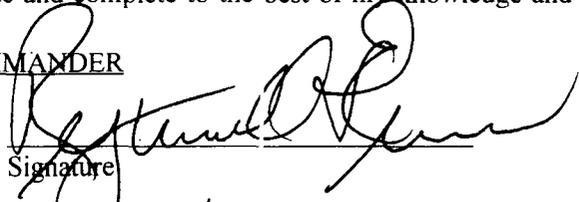
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I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

ACTIVITY COMMANDER

Reginald J. Erman, CAPT, USN
NAME (Please type or print)


Signature

Acting Commander
Title

10/6/94
Date

Pearl Harbor Naval Shipyard
Activity

Data being certified:

JOINT CROSS SERVICE SUPPLEMENT, Tables 1.3.a, 3.1.a, and 3.1.b

R

Data Being Certified: BRAC 95 Data Call Number 9, Supplemental Joint Cross Service Group - Depot Maintenance, Revised Table 1.1.a, Table 1.2.a, and Tables 12-15 provided by NAVSEA, Pearl Harbor Naval Shipyard

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

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

G. R. STERNER
Commander

Title

~~Naval Sea Systems Command~~

G. R. Sterner
Signature

10/7/94
Date

Activity

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

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

W. A. EARNER

NAME (Please type or print)

Title

W. A. Earner
Signature

10/7/94
Date

116

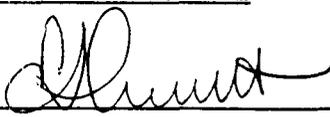
UIC N00311

Data Being Certified: BRAC 95 Data Call Number 9, Supplemental Joint Cross Service Group - Depot Maintenance, Revised Tables 12-15 provided by NAVSEA, Pearl Harbor Naval Shipyard.

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

MAJOR CLAIMANT LEVEL

E. S. MCGINLEY, II
NAME (Please type or print)


Signature

Acting Commander
Title

10/19/94
Date

Naval Sea Systems Command
Activity

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

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

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


Signature

Title

10/19/94
Date

Data Being Certified: BRAC 95 Data Call Number 9, Supplemental Join: Cross Service Group - Depot Maintenance, Revised Pages 7R, 8R, 9R, 9AR Pearl Harbor Naval Shipyard.

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

William H. Ryzewic
NAME (Please type or print)
Executive Director for Naval Shipyard and SUPSHIP Management and Field Activity Support Directorate
Activity Support Directorate
Title
Naval Sea Systems Command
Activity

W. H. Ryzewic
Signature

2/17/95
Date

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

MAJOR CLAIMANT LEVEL

G. R. STERNER
NAME (Please type or print)
G. R. STERNER
Commander
Naval Sea Systems Command
Naval Sea Systems Command
Title
Naval Sea Systems Command
Activity

G. R. Sterner
Signature

2/18/95
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)

C. G. Geiger
NAME (Please type or print)
Acting
Title

C. Geiger
Signature

2-23-95
Date

R

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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

ACTIVITY COMMANDER

FRED H. GEHRMAN, JR., CAPT, USN
NAME (Please type or print)


Signature

Commander
Title

30 January 1995
Date

Pearl Harbor Naval Shipyard
Activity

Data Call Number Nine; Joint Cross Services Group Supplement to
Tables 1.3 (page 7R), 3.1.a (page 9R), 3.1.b (page 9AR).
Page 8R has been reformatted; no data on page 8R was revised.

Data Being Certified: BRAC 95 Data Call Number 9, Supplemental Joint Cross Service Group -
Depot Maintenance, Revised Pages 5R, 6R, 36R, 39R, 42R, 46R, 47R, 48R
Provided by NAVSEA.
Pearl Harbor Naval Shipyard

116

R

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

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

G. R. STERNER
Commander

Title Sea Systems Command

Signature

G. R. Sterner

Date

2/18/95

Activity

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

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

NAME (Please type or print)

C.G. Geiger
ACT/DG
Title

Signature

C. Geiger

Date

2-23-95

R

Data Being Certified: BRAC 95 Data Call Number 9, Supplemental Joint Cross Service Group -
Depot Maintenance, Revised Pages 5R, 6R, 36R, 38R, 39R, 42R, 46R,
47R, 48R Provided by NAVSEA,
Pearl Harbor Naval Shipyard.

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

William H. Ryzewic
NAME (Please type or print)

**Executive Director for Naval Shipyard
and SUPSHIP Management and Field
Activity Support Directorate**

Title

Naval Sea Systems Command
Activity

W. H. Ryzewic
Signature

2/17/95
Date

116

**DATA CALL 63
 FAMILY HOUSING DATA**

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

Installation Name:	NSV PEARL HARBOR
Unit Identification Code (UIC):	N00311
Major Claimant:	NAVSEA

Percentage of Military Families Living On-Base:	78%
Number of Vacant Officer Housing Units:	0
Number of Vacant Enlisted Housing Units:	0
FY 1996 Family Housing Budget (\$000):	\$279
Total Number of Officer Housing Units:	19
Total Number of Enlisted Housing Units:	7

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

Enclosure (1)

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

MAJOR CLAIMANT LEVEL

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

COMMANDER
Title

NAVAL FACILITIES ENGINEERING COMMAND
Activity


Signature
7/20/94
Date

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

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

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

Title


Signature
7/25/94
Date

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."

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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

116

UIC N00311

Data Being Certified: BRAC 95 Data Call Number 42, Pearl Harbor Naval Shipyard,
(43 Photographs).

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

NEXT ECHELON LEVEL (if applicable)

William H. Ryzewic

NAME (Please type or print)

Signature

W. H. Ryzewic

Executive Director for Naval Shipyard
and SUPSHIP Management and Field
Activity Support Directorate

Title

Date

10/14/94

Naval Sea Systems Command

Activity

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

MAJOR CLAIMANT LEVEL

NAME (Please type or print)

Signature

G. R. Sterner

G. R. STERNER
Commander
Naval Sea Systems Command

Title

Date

10/25/94

Activity

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

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

W. A. EARNER

NAME (Please type or print)

Signature

W. A. Earner

Title

Date

11/2/94

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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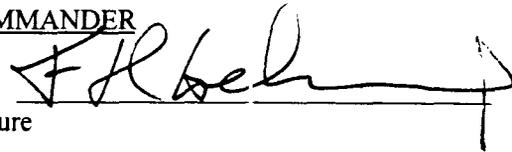
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ACTIVITY COMMANDER

Fred H. Gehrman, CAPT, USN
NAME (Please type or print)

Signature



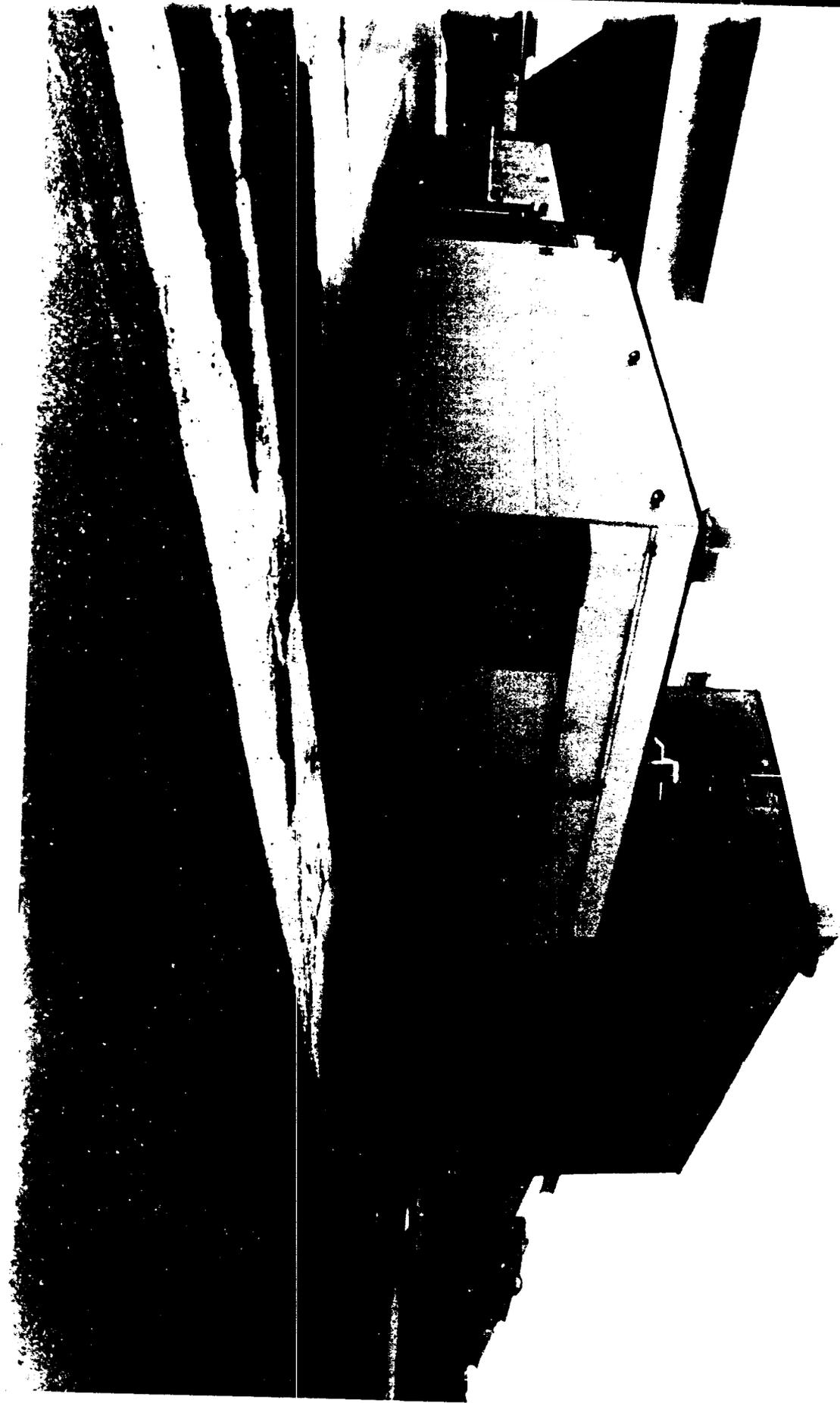
Commander
Title

Date

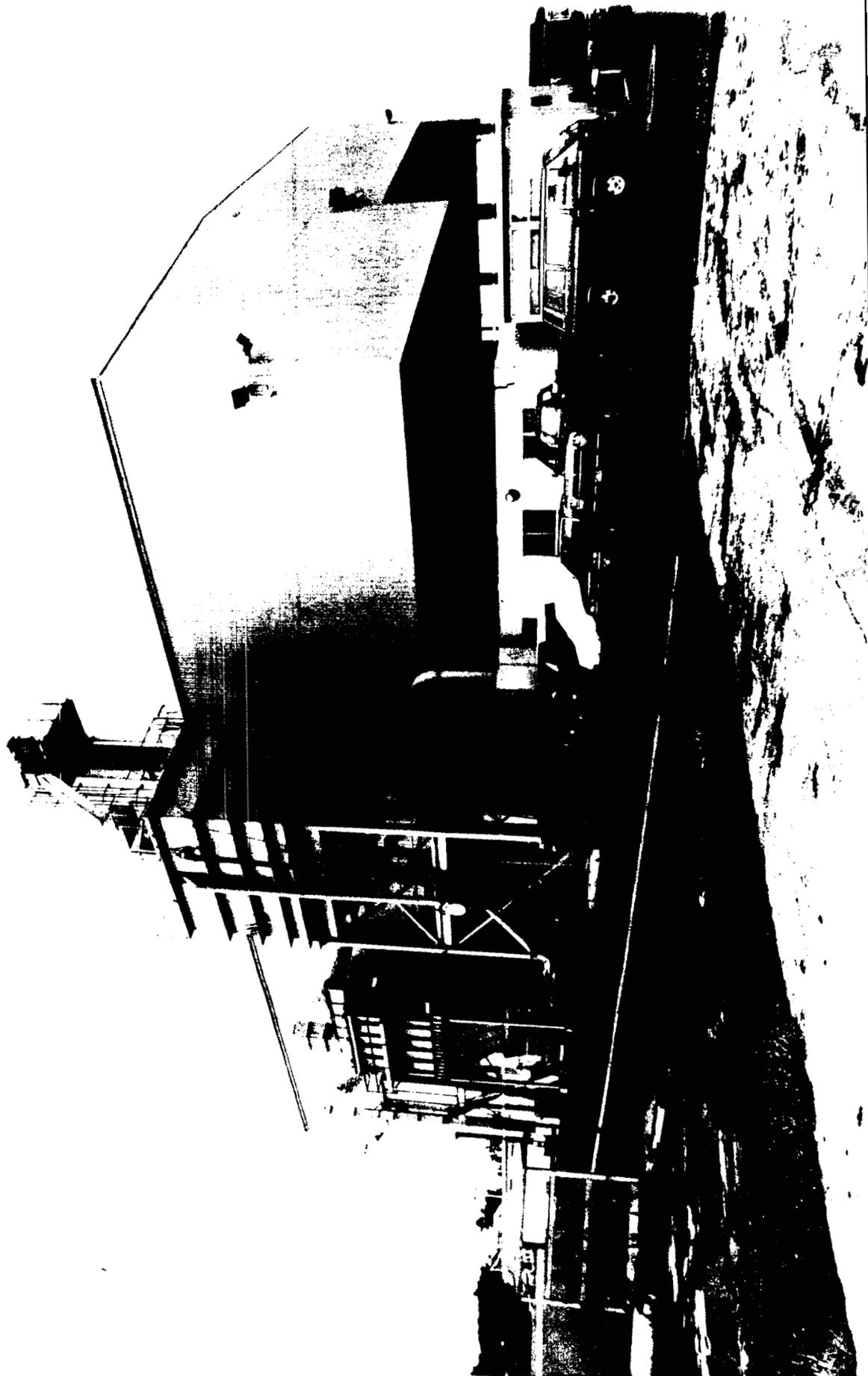
24 June 1994

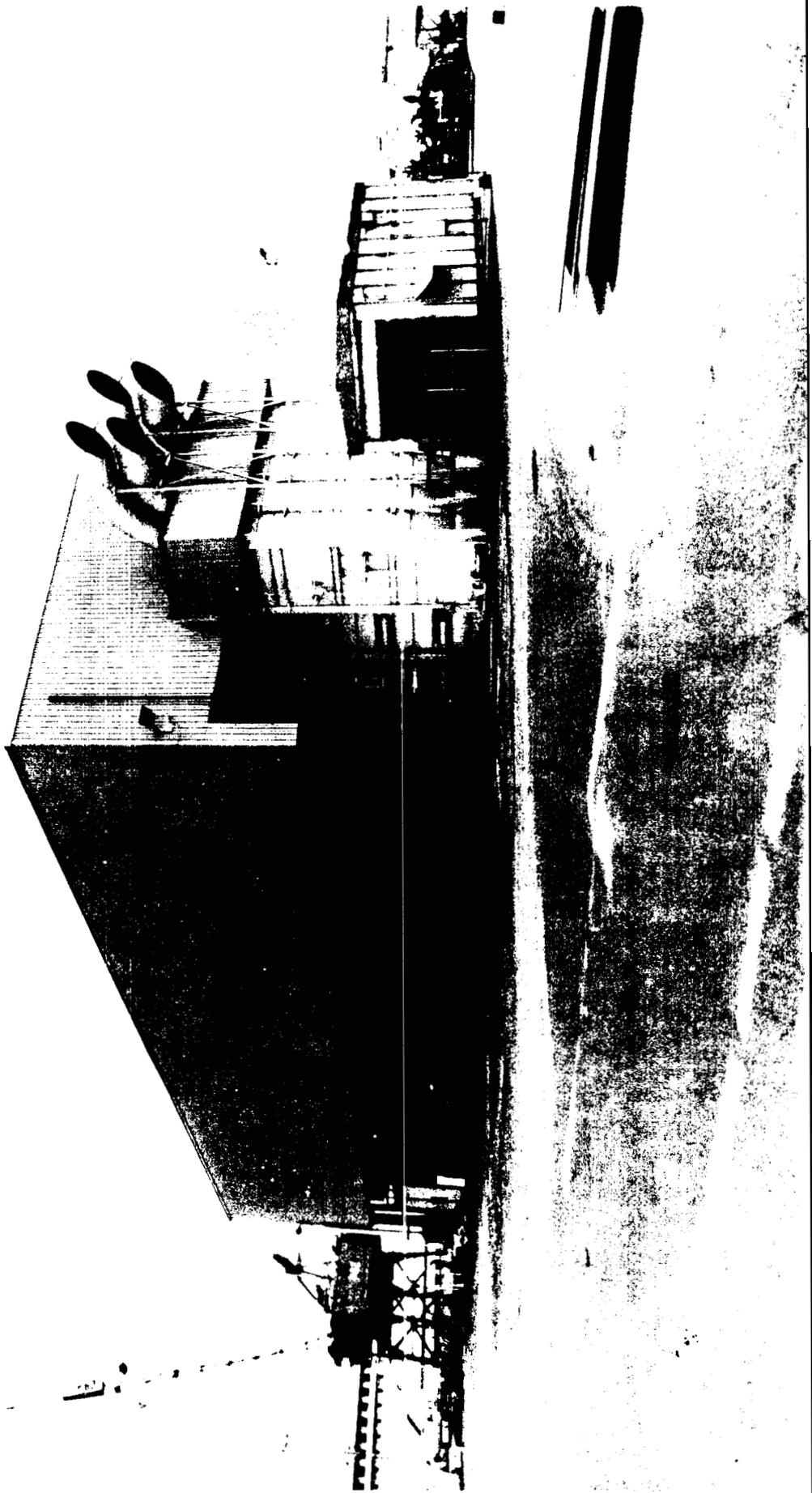
Pearl Harbor Naval Shipyard
Activity

BRAC 95 Data Call #42, Military Value Data Call (Photographs)



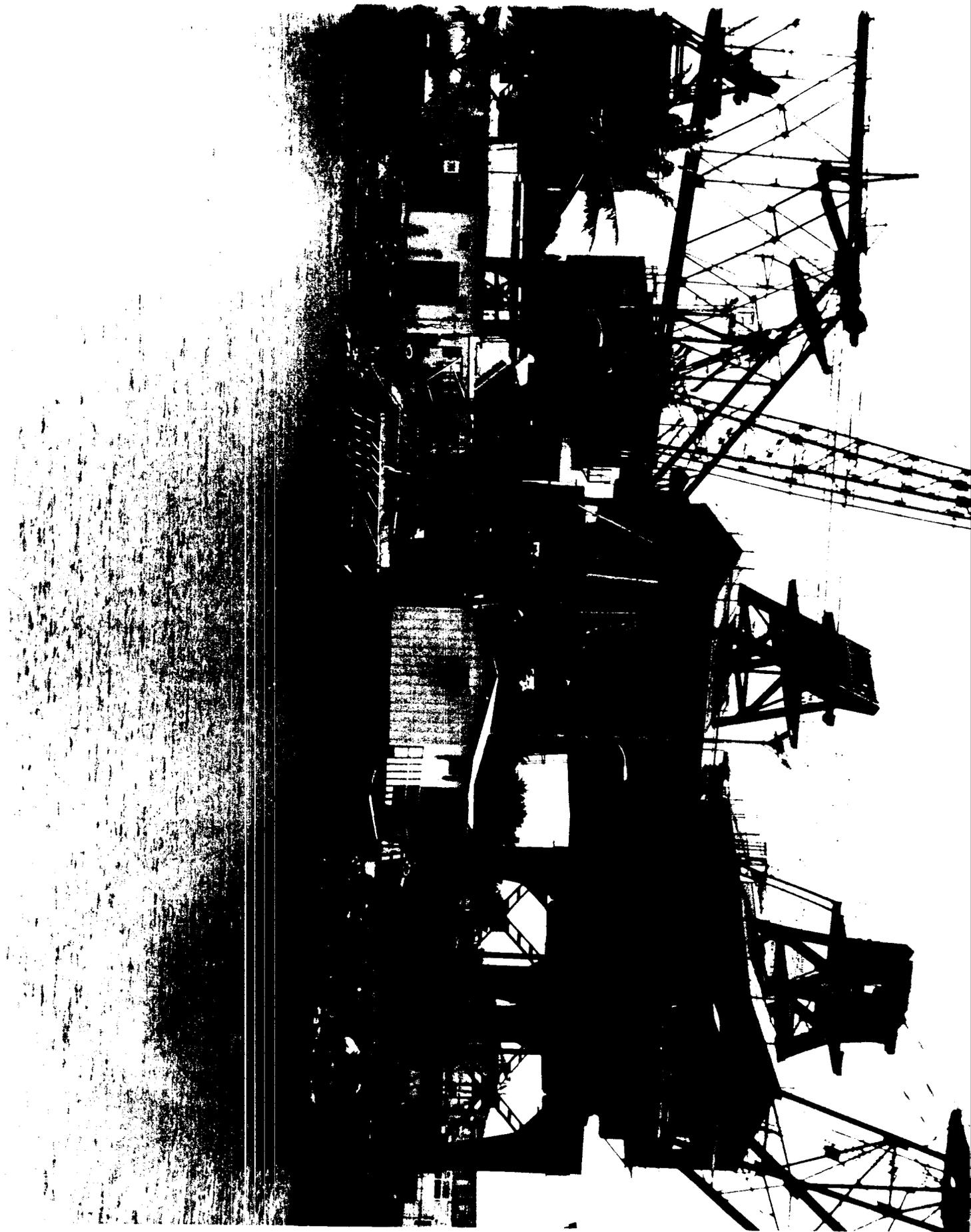


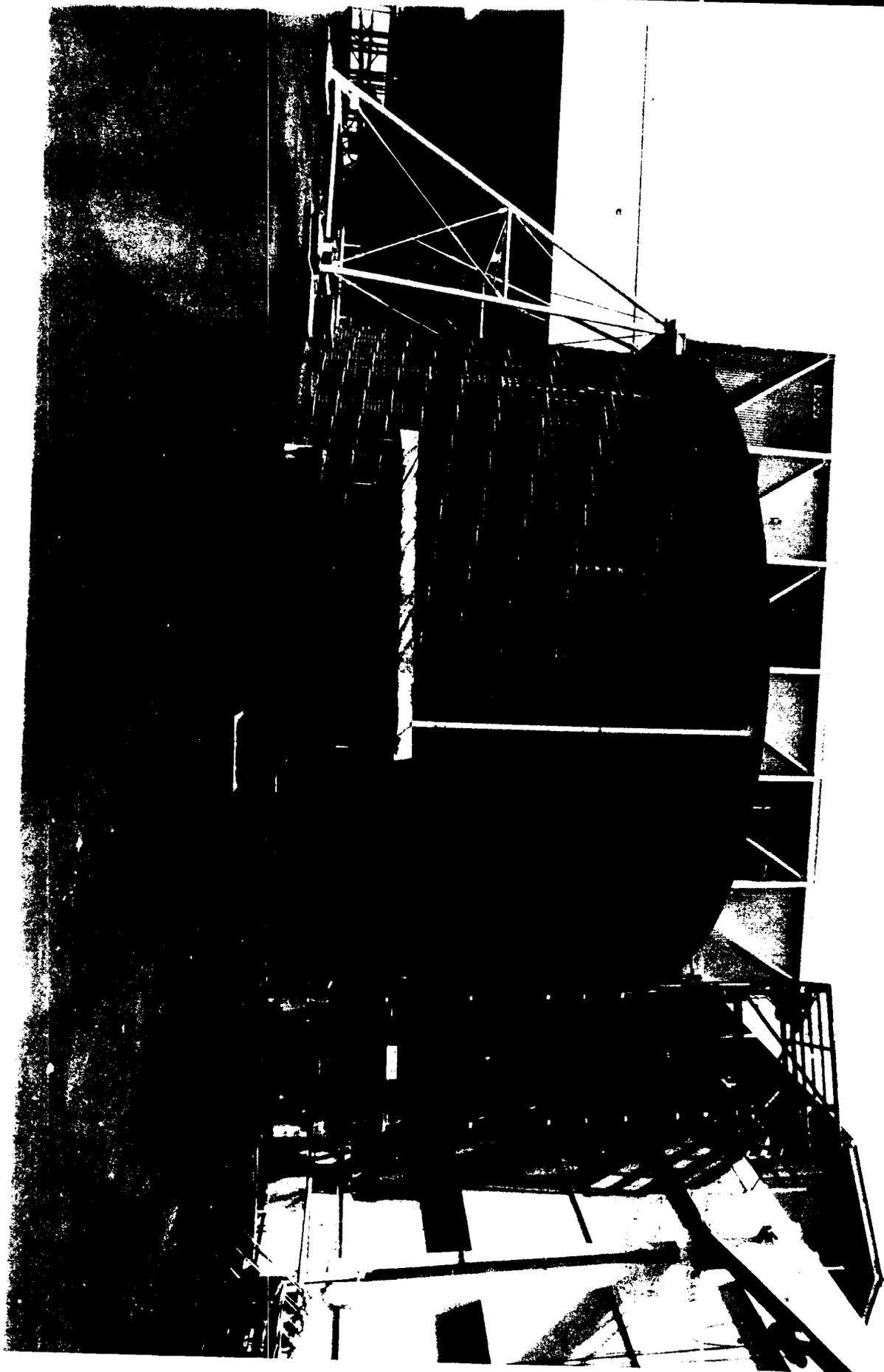


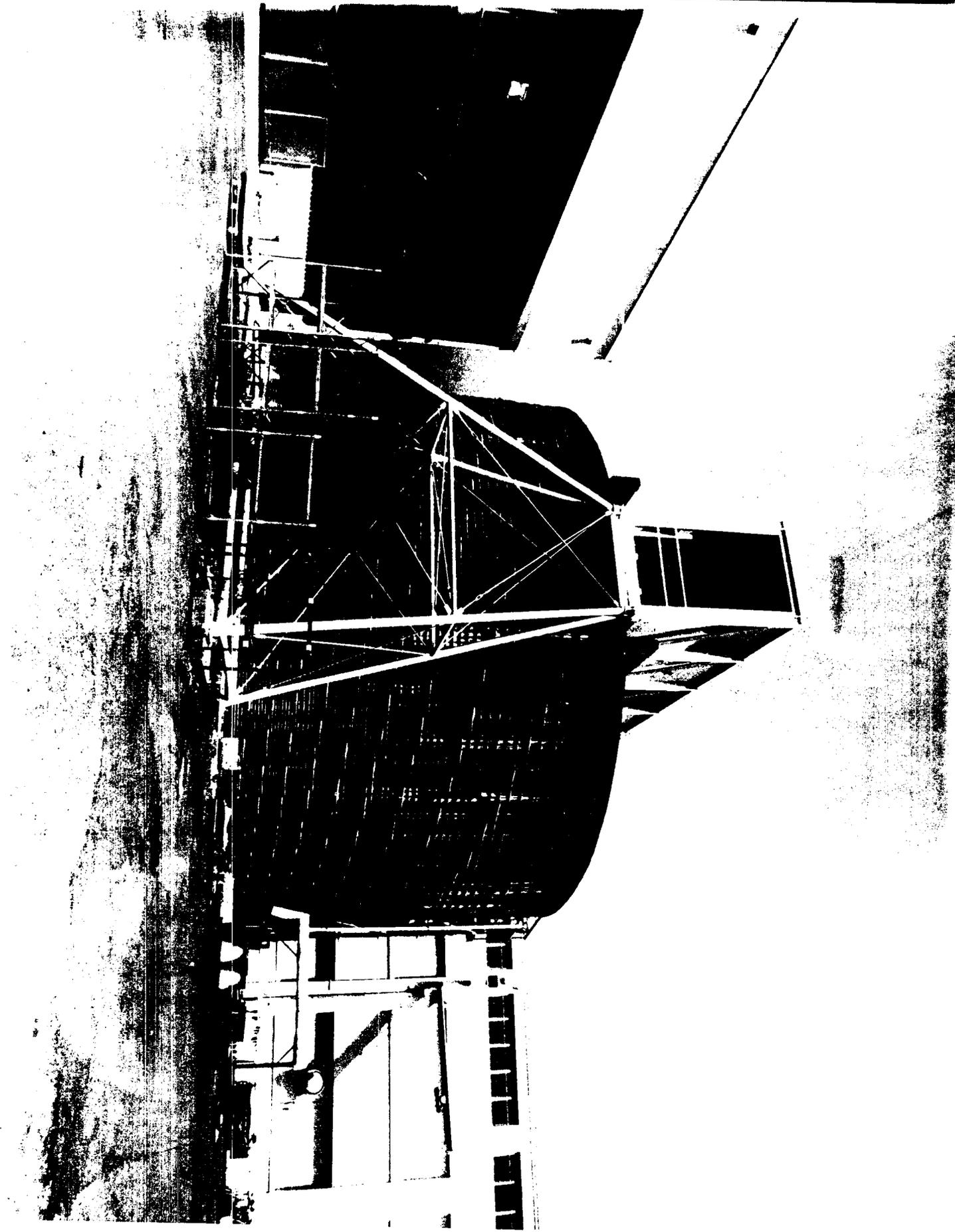


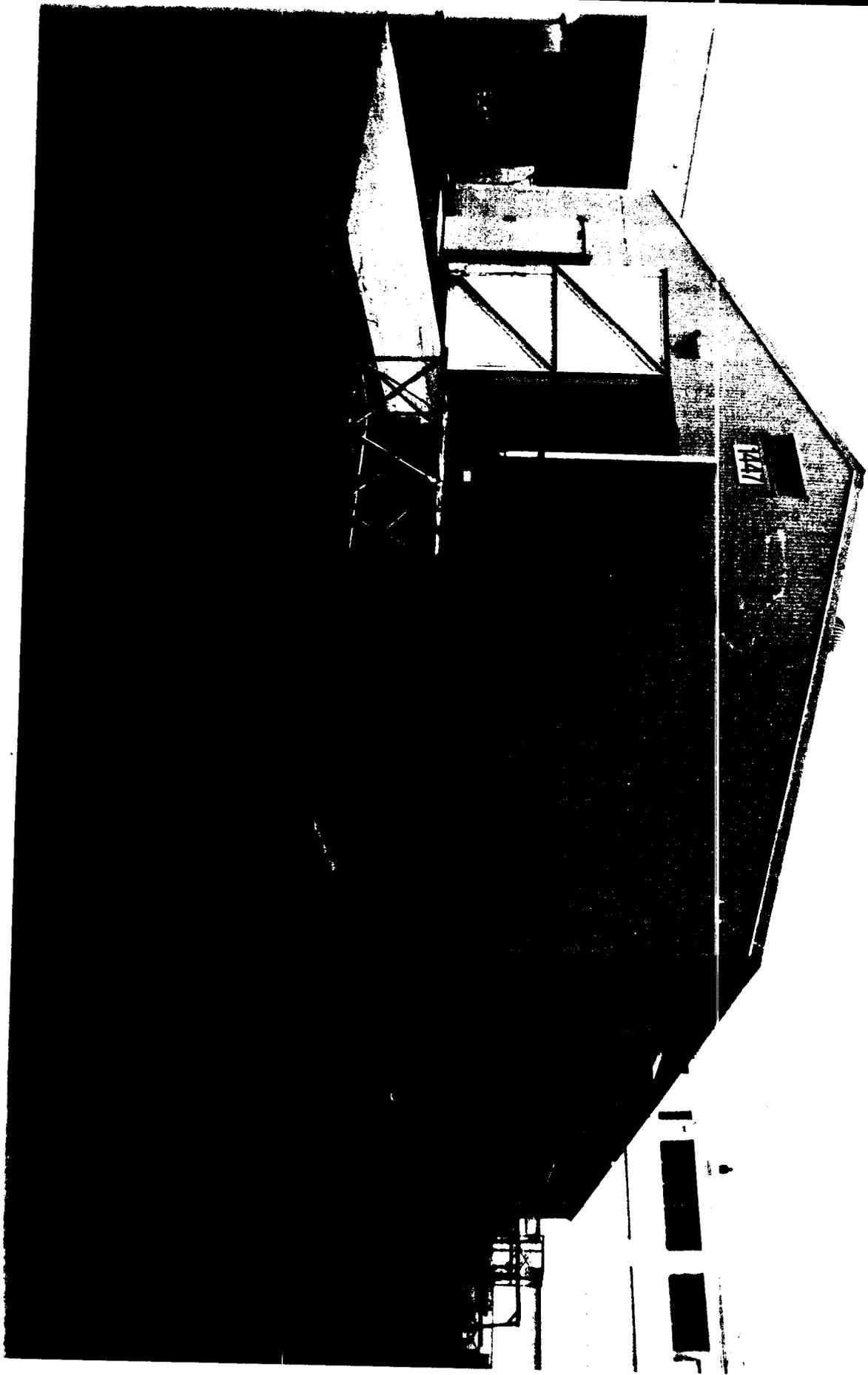




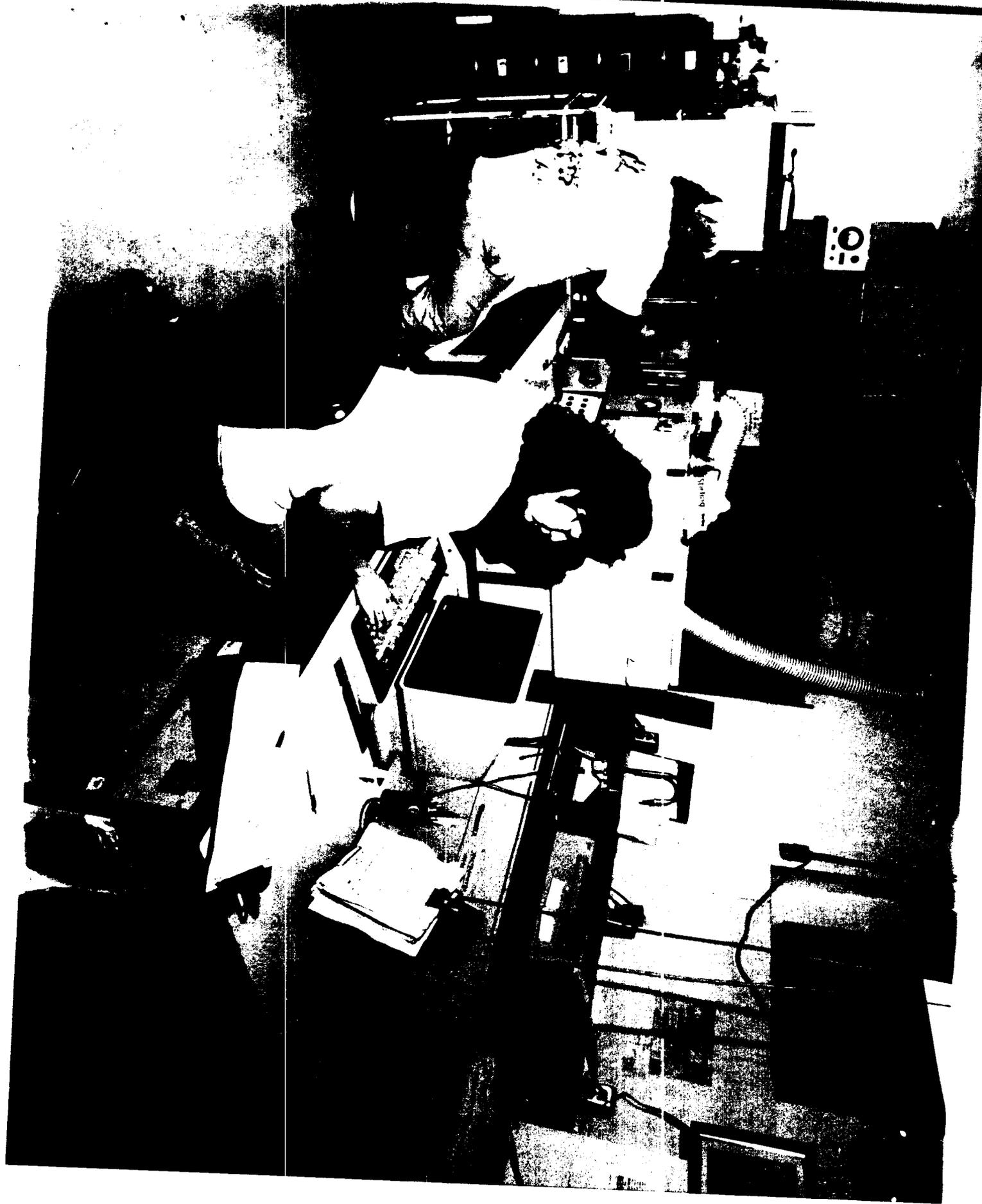




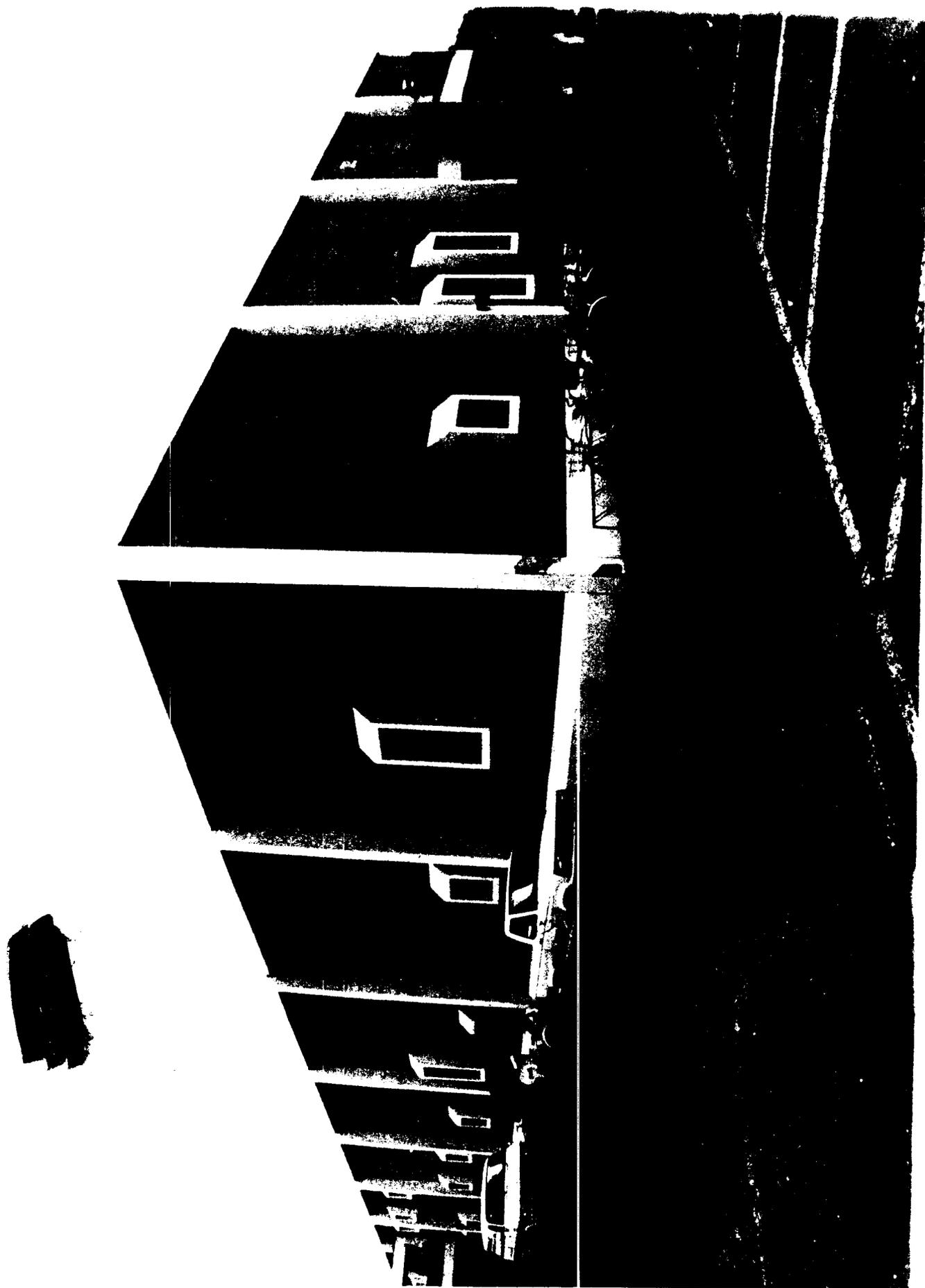


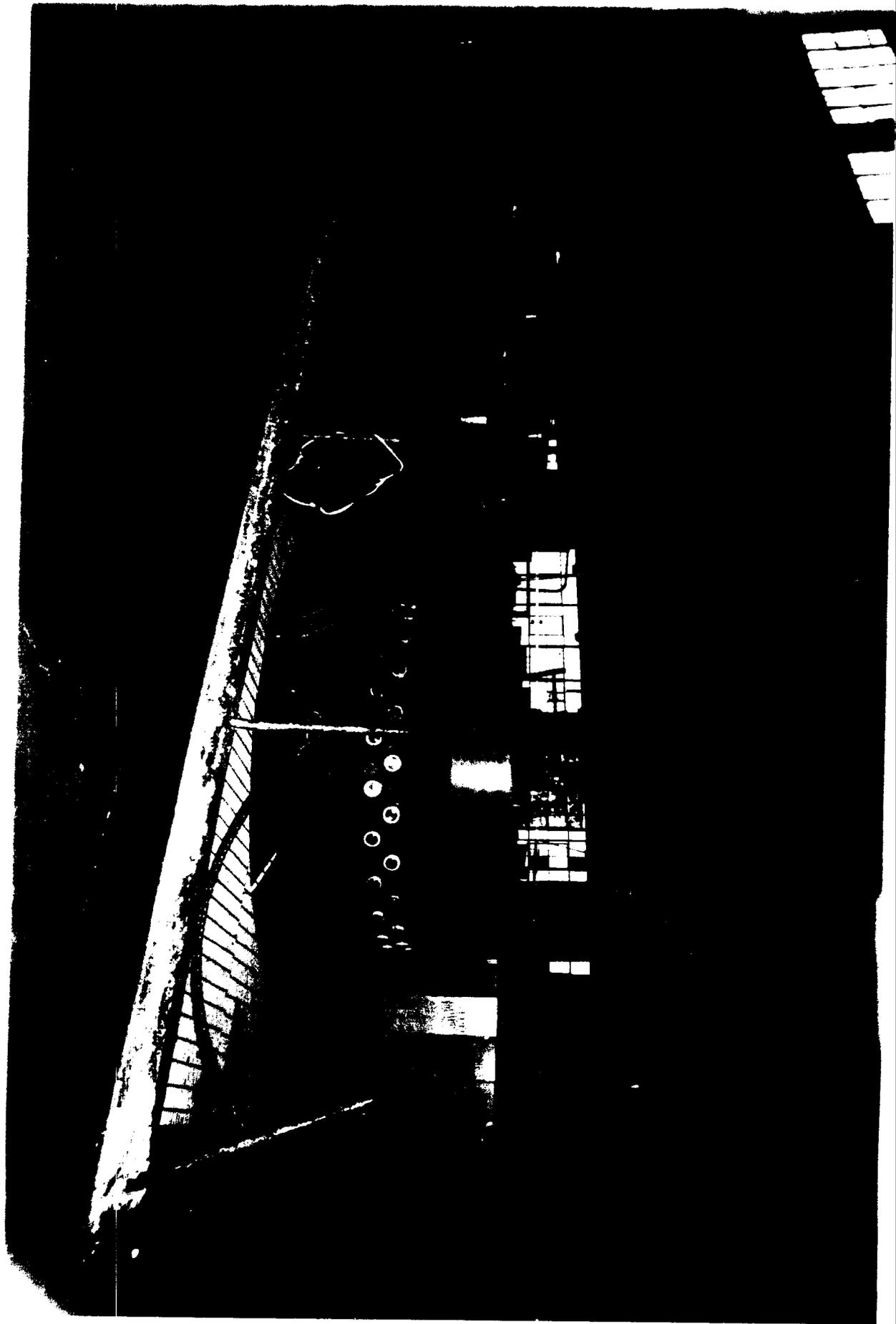






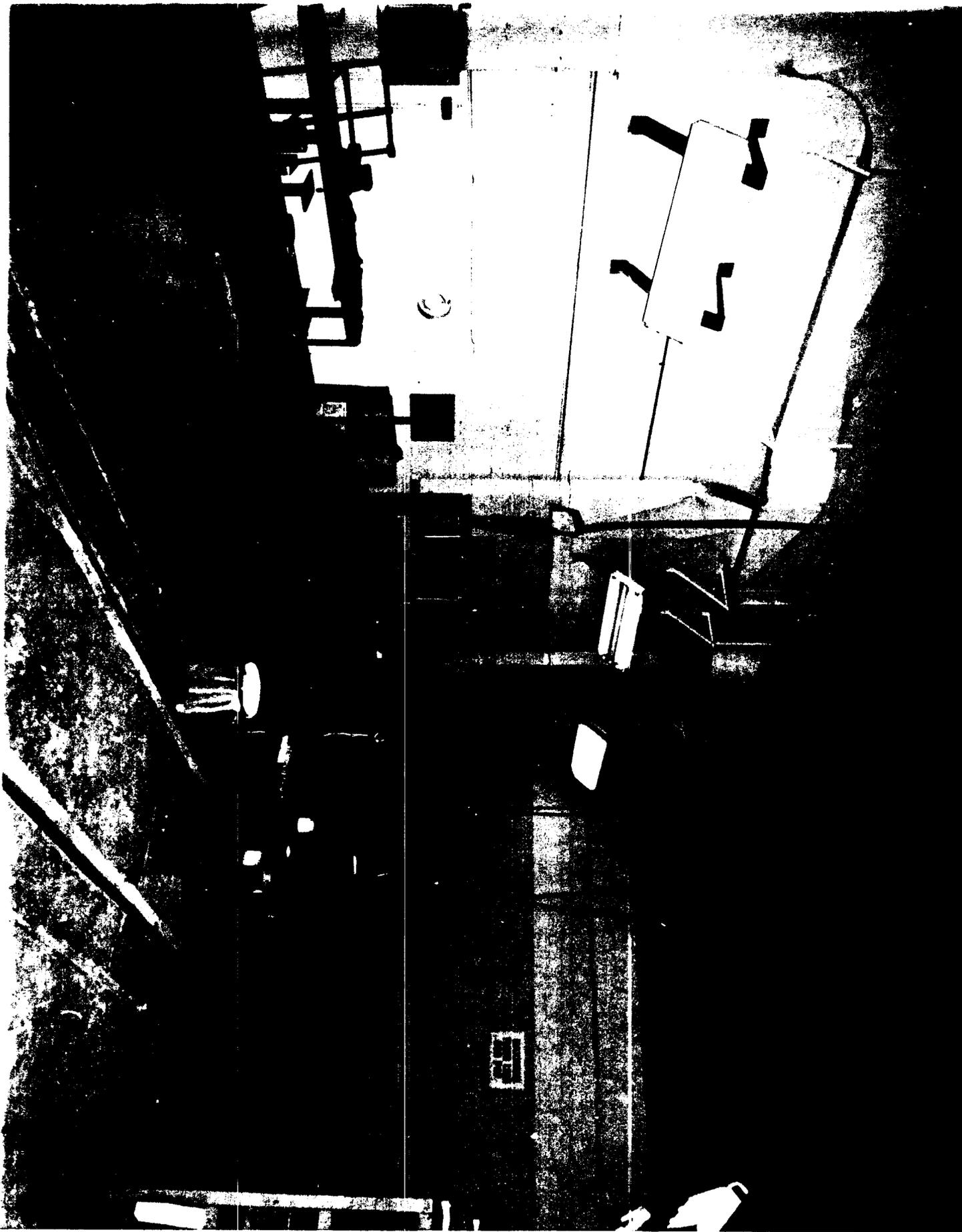






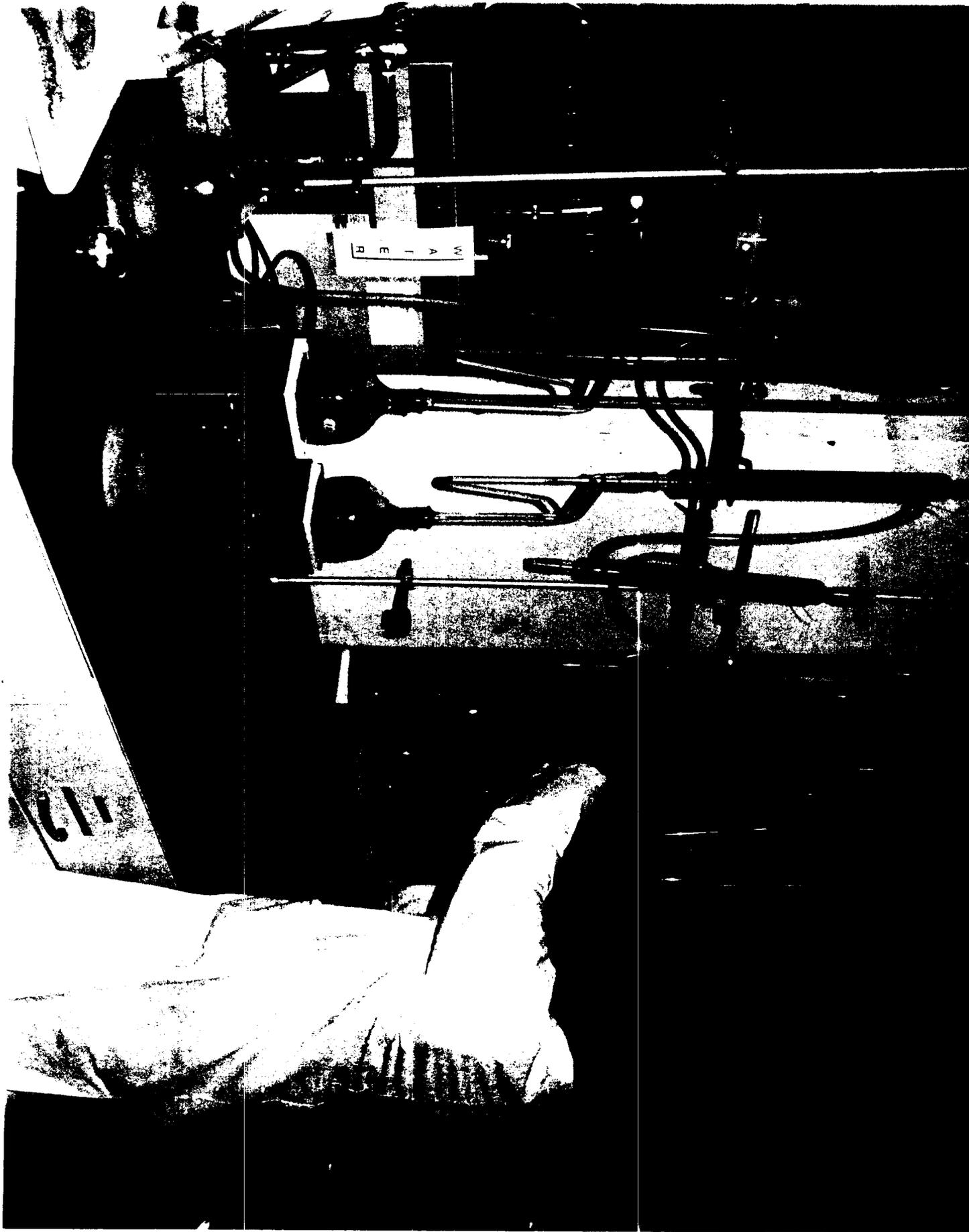






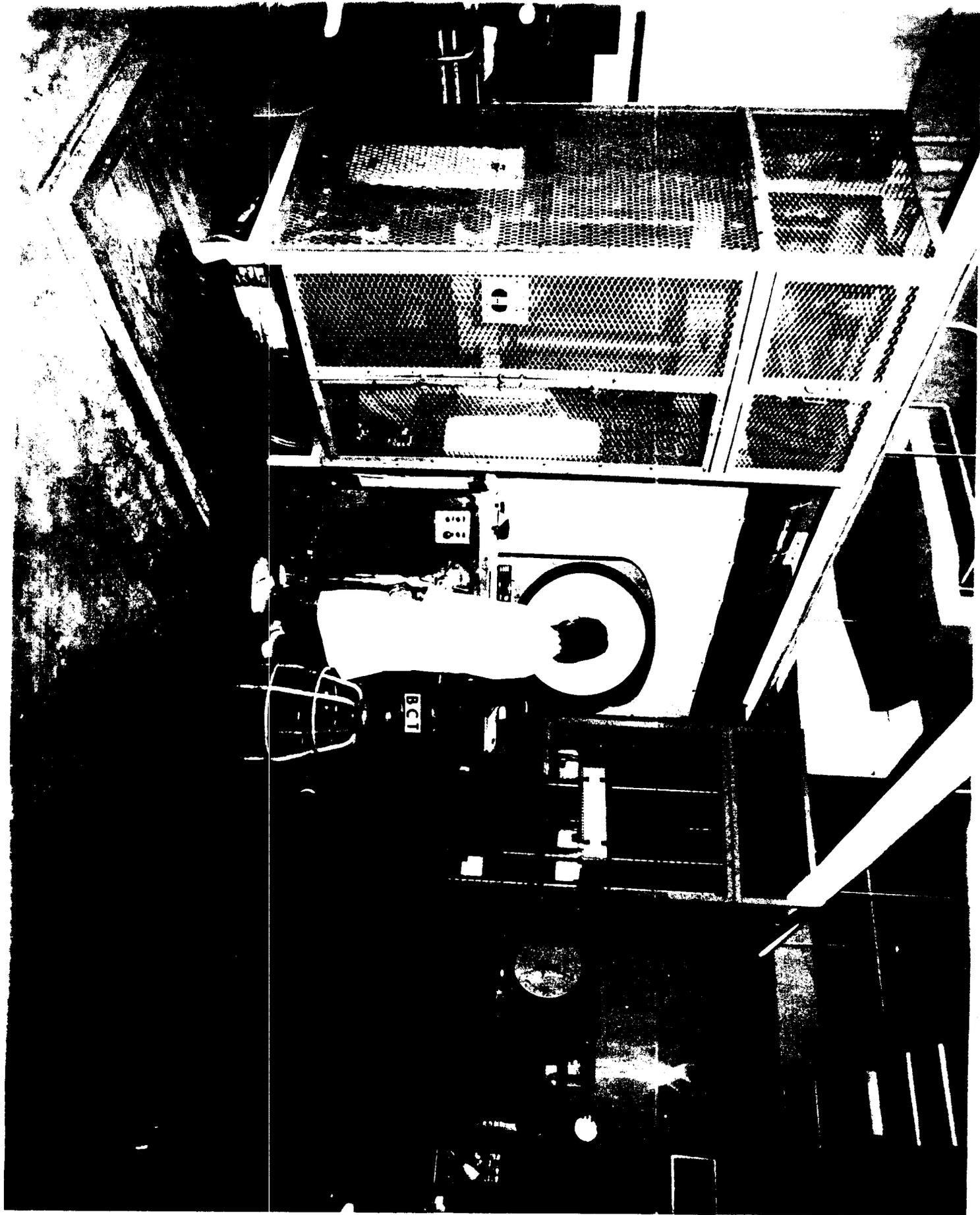


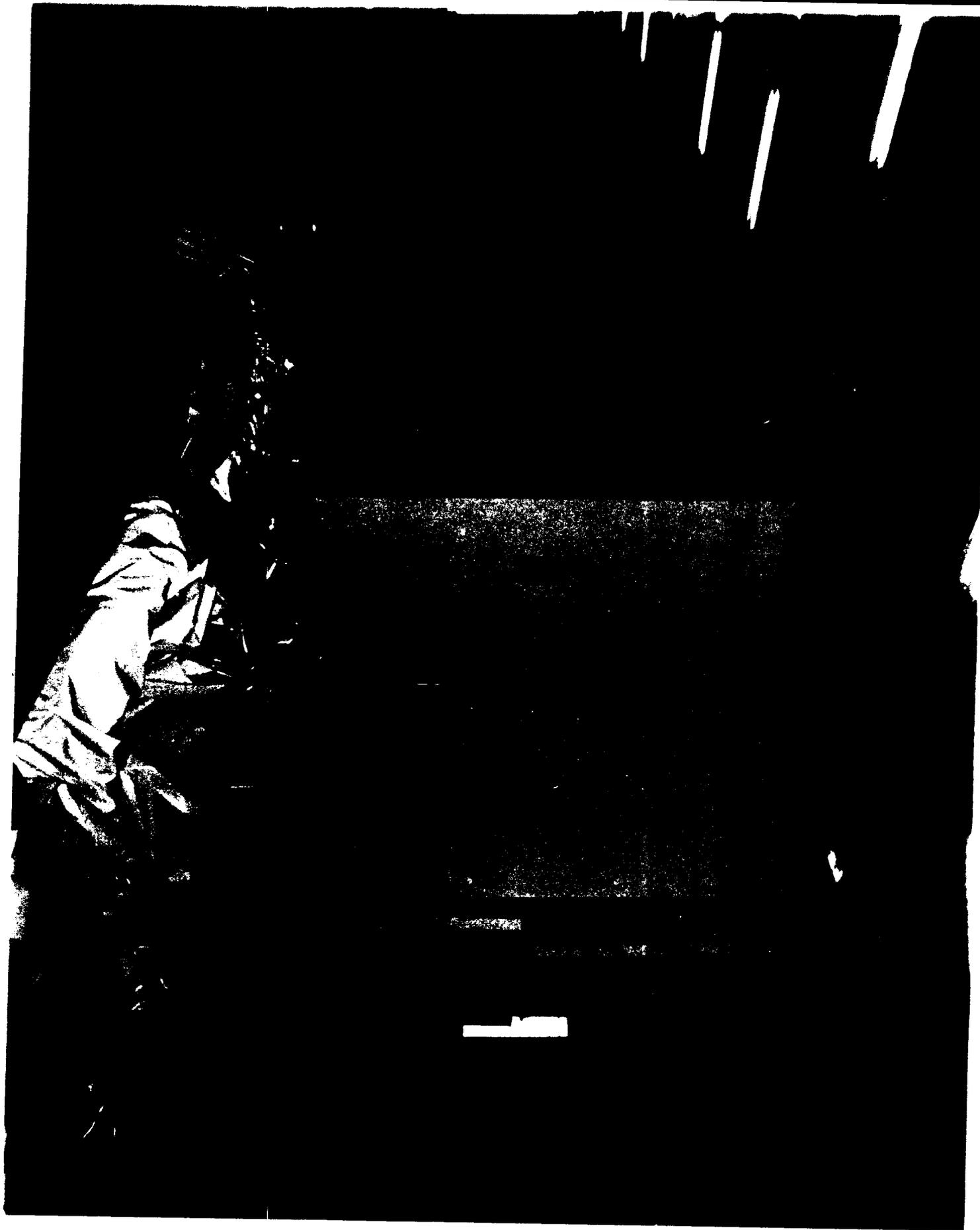
KEEP THIS AREA CLEAR
NO PARKING
DAY OF NIGHT



W
A
L
Y

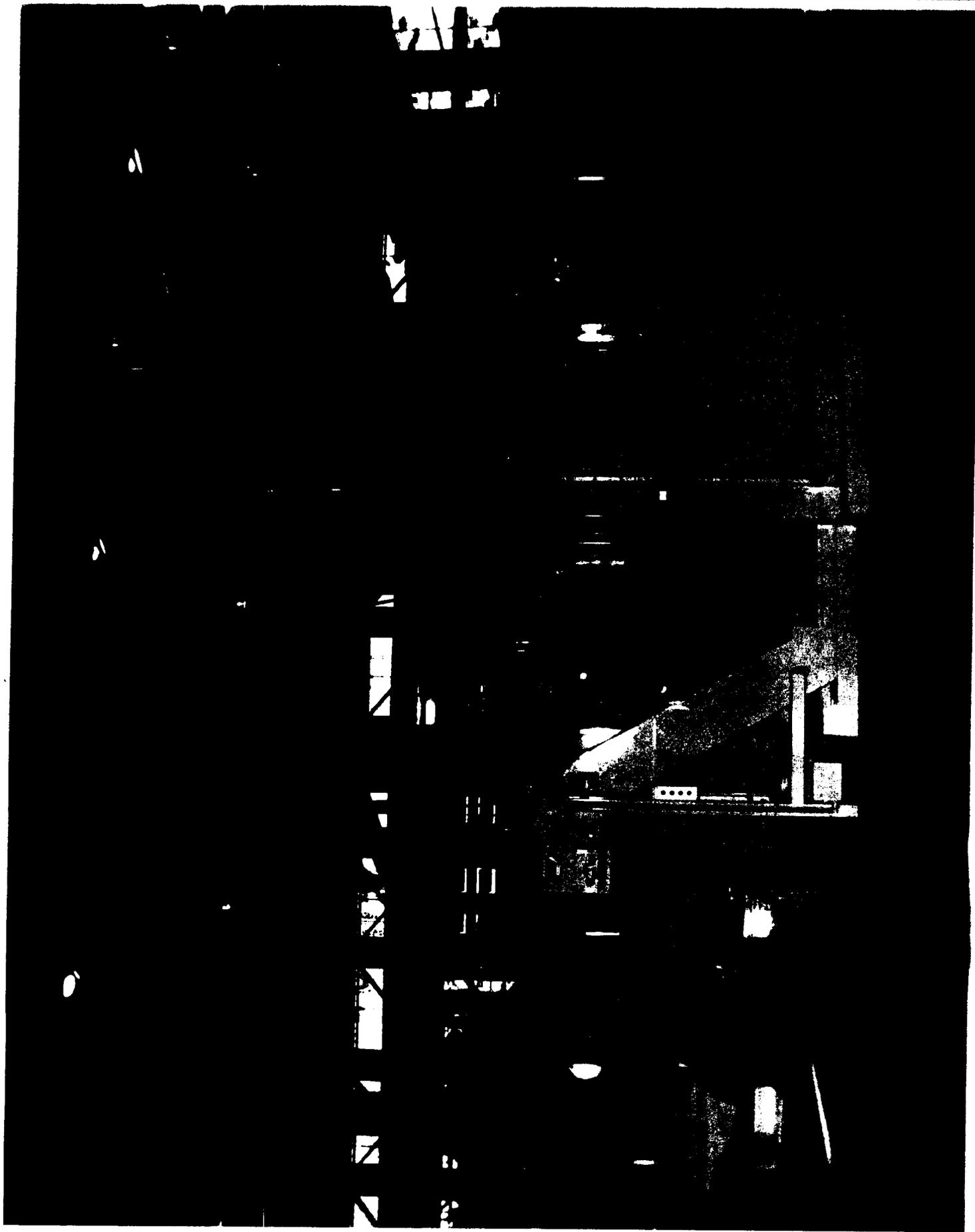
11











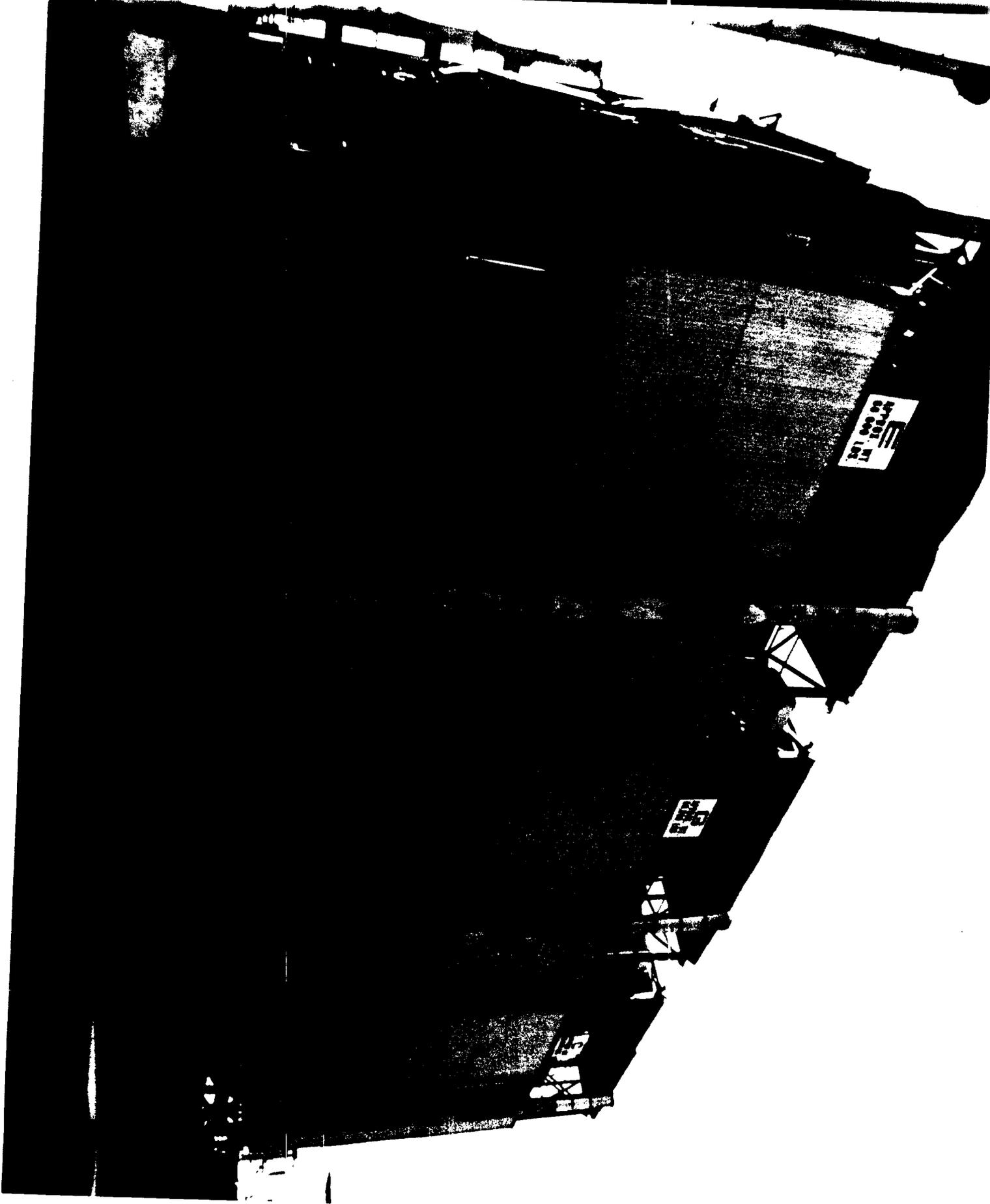


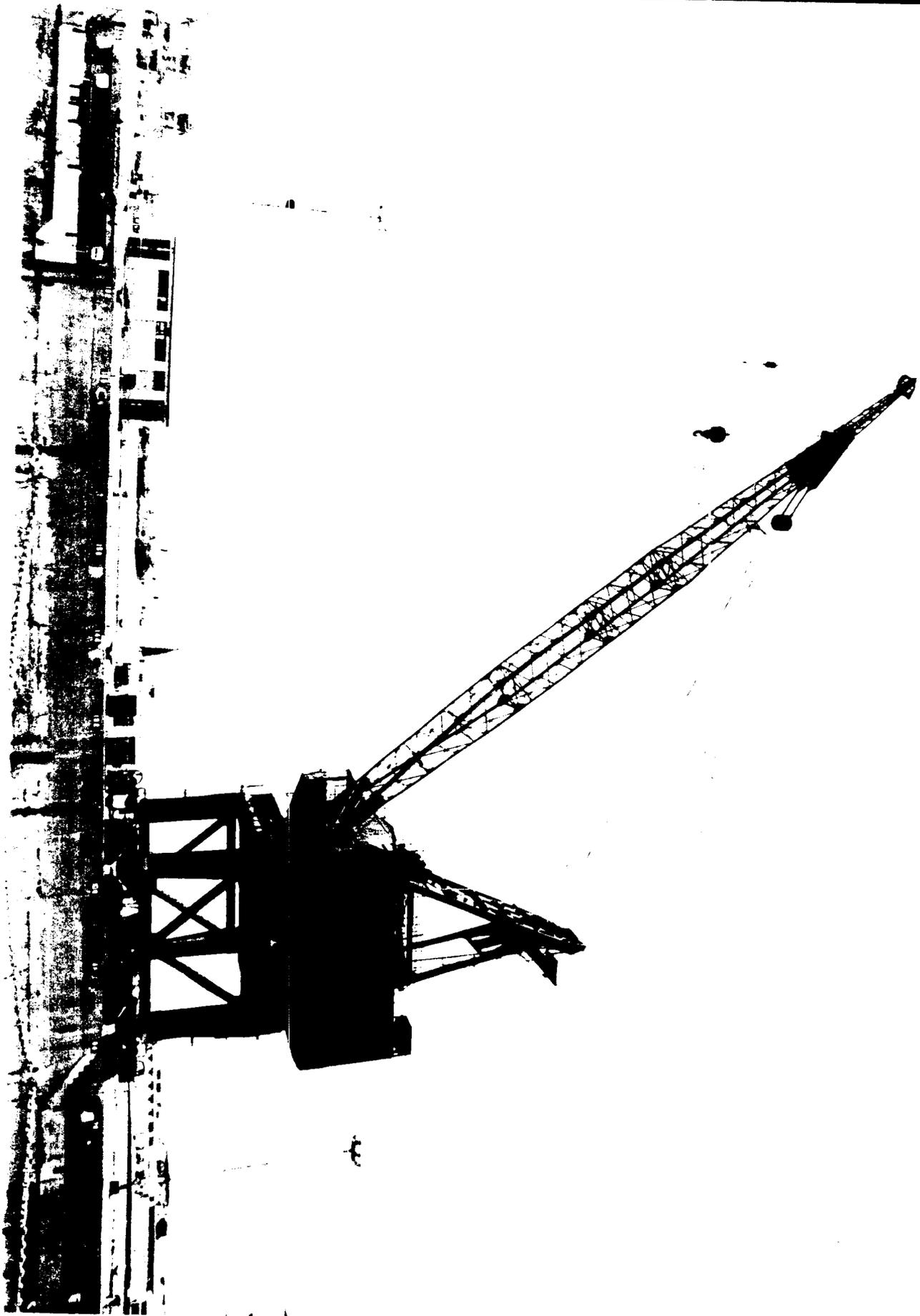
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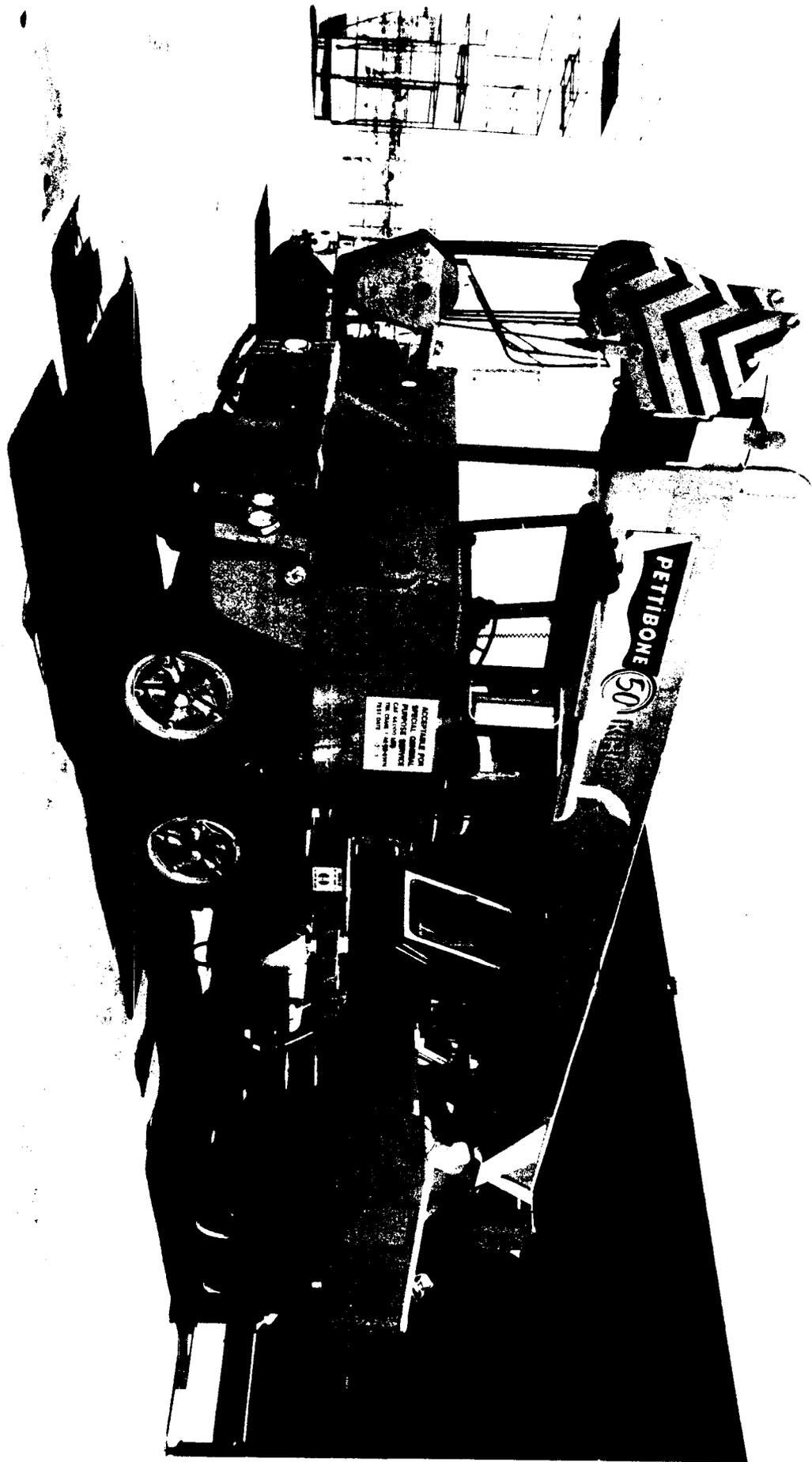
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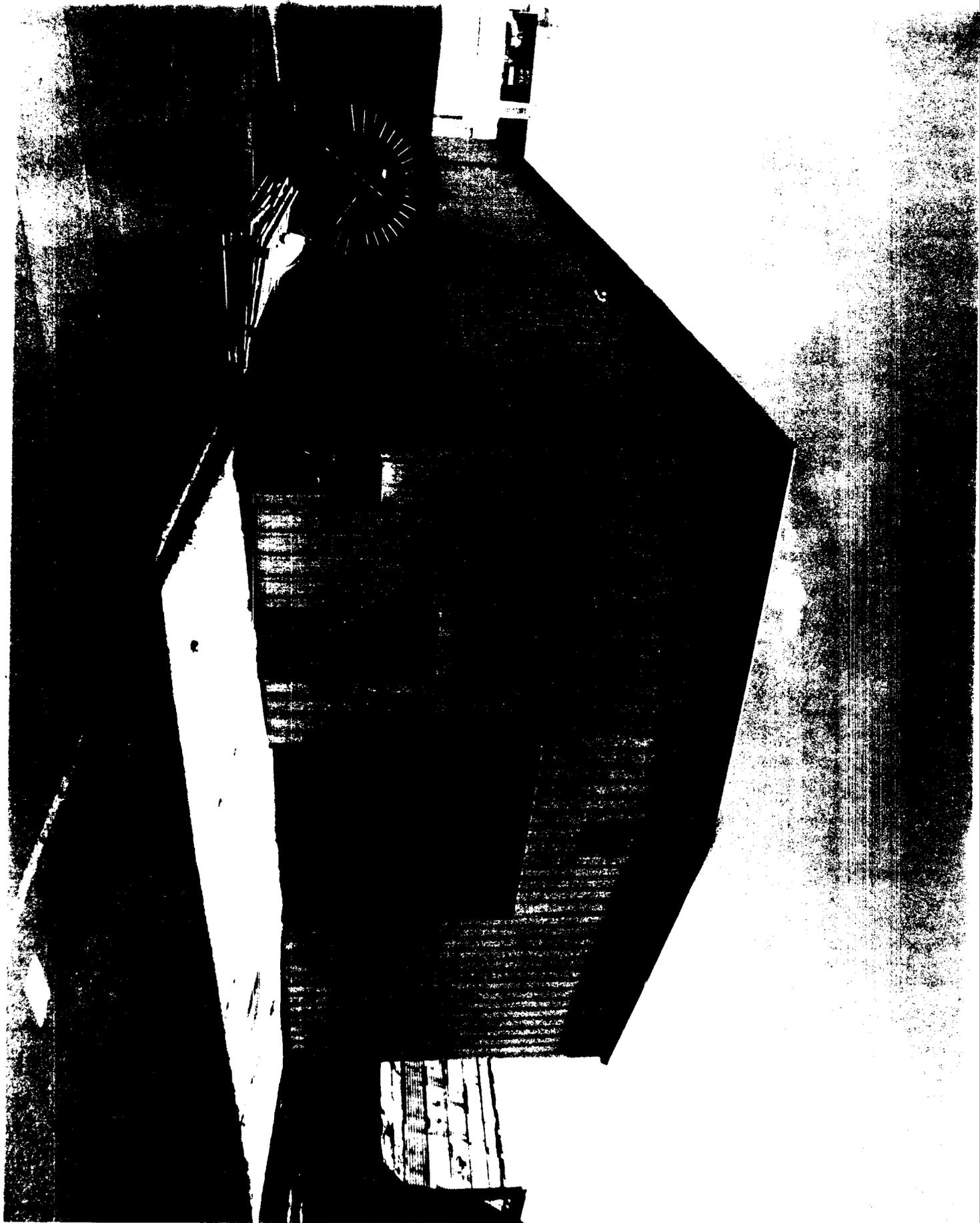


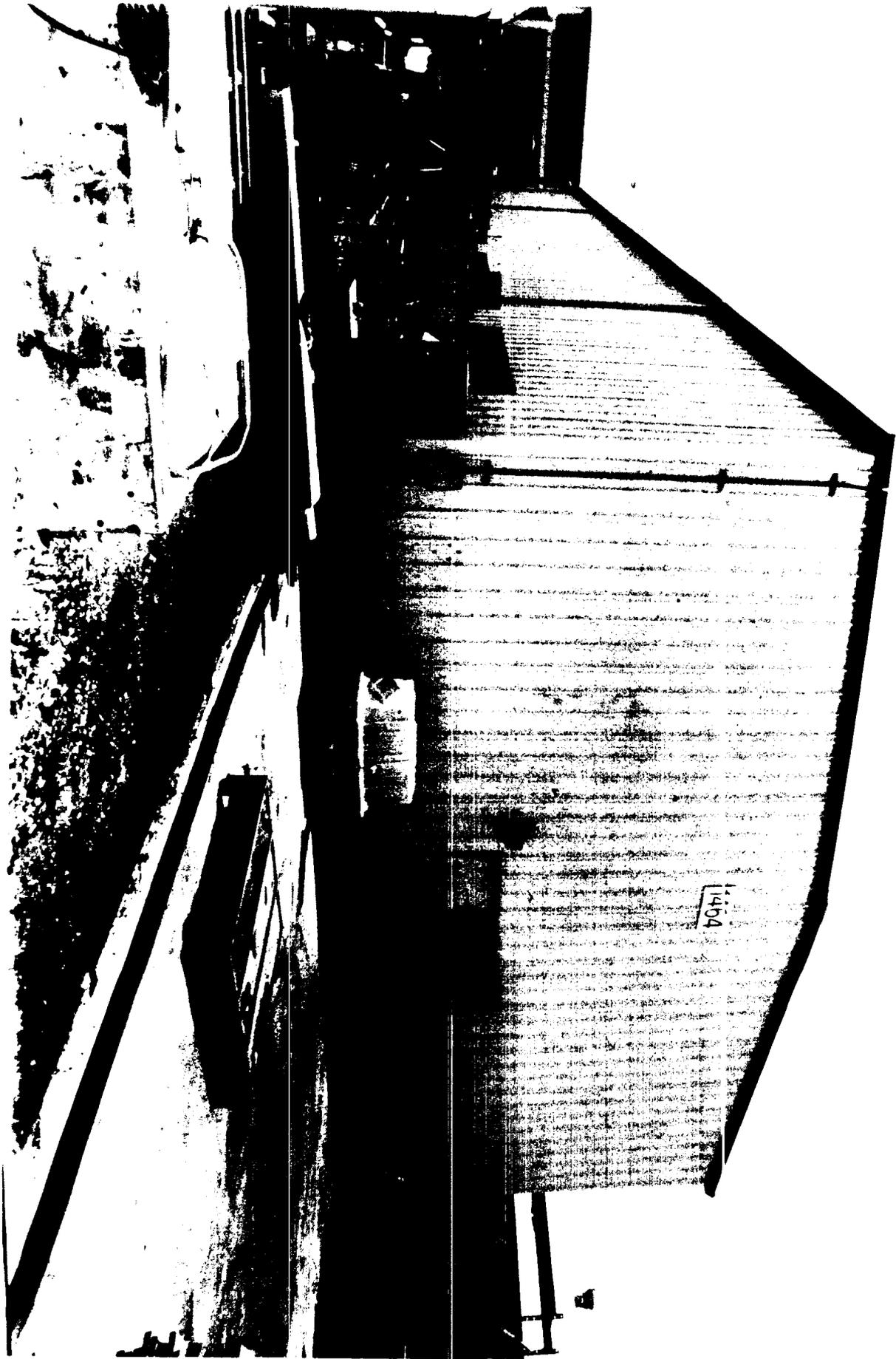




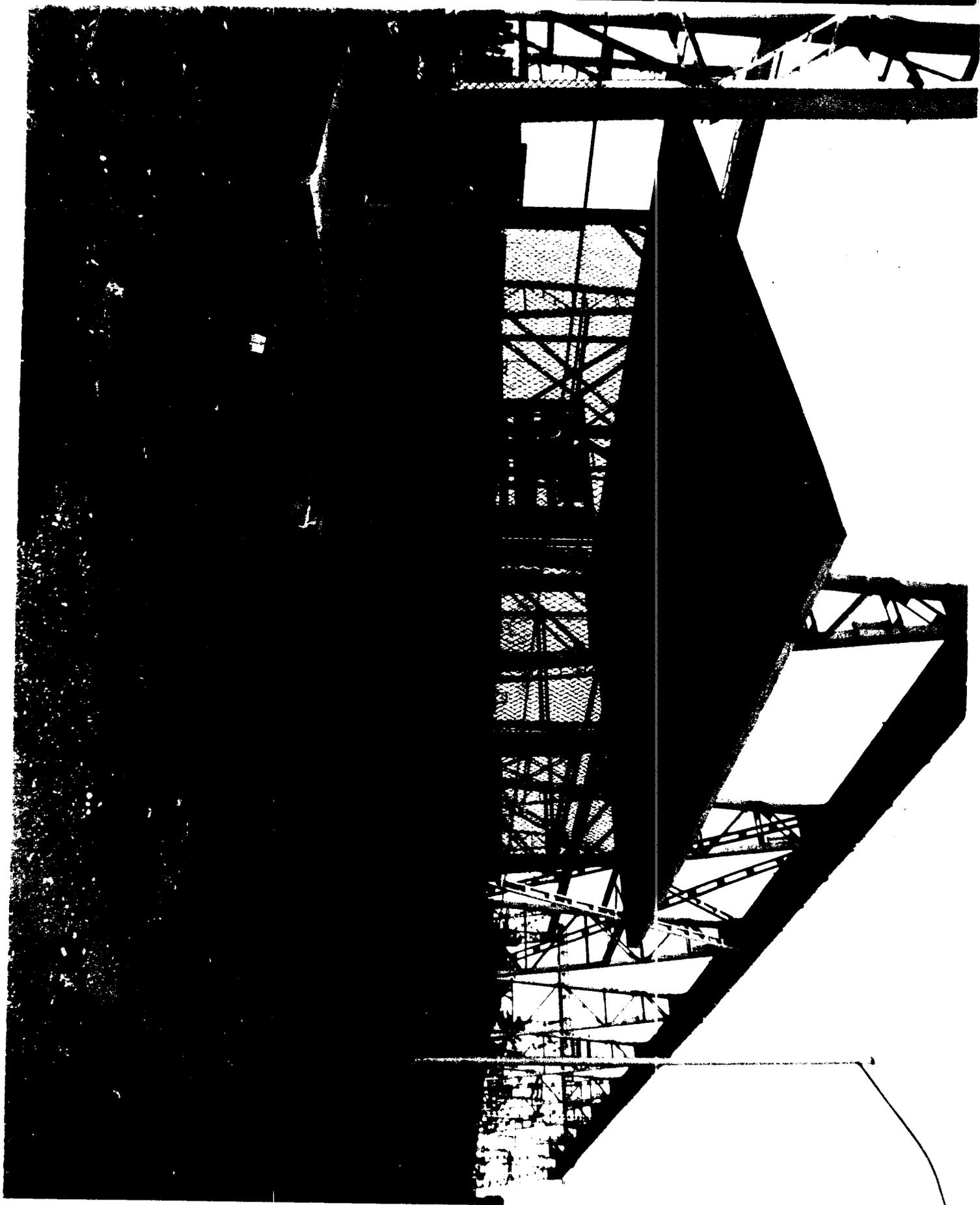






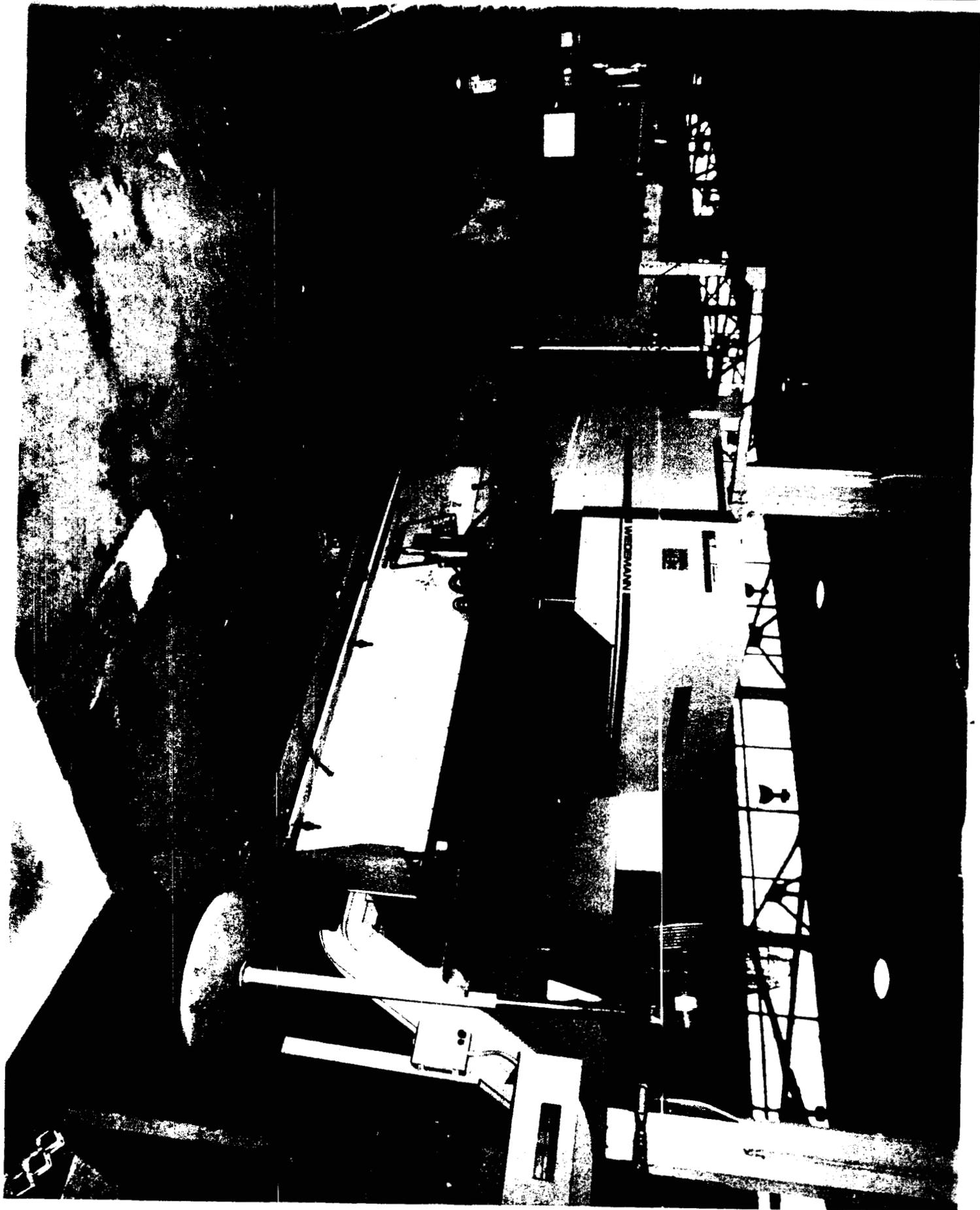






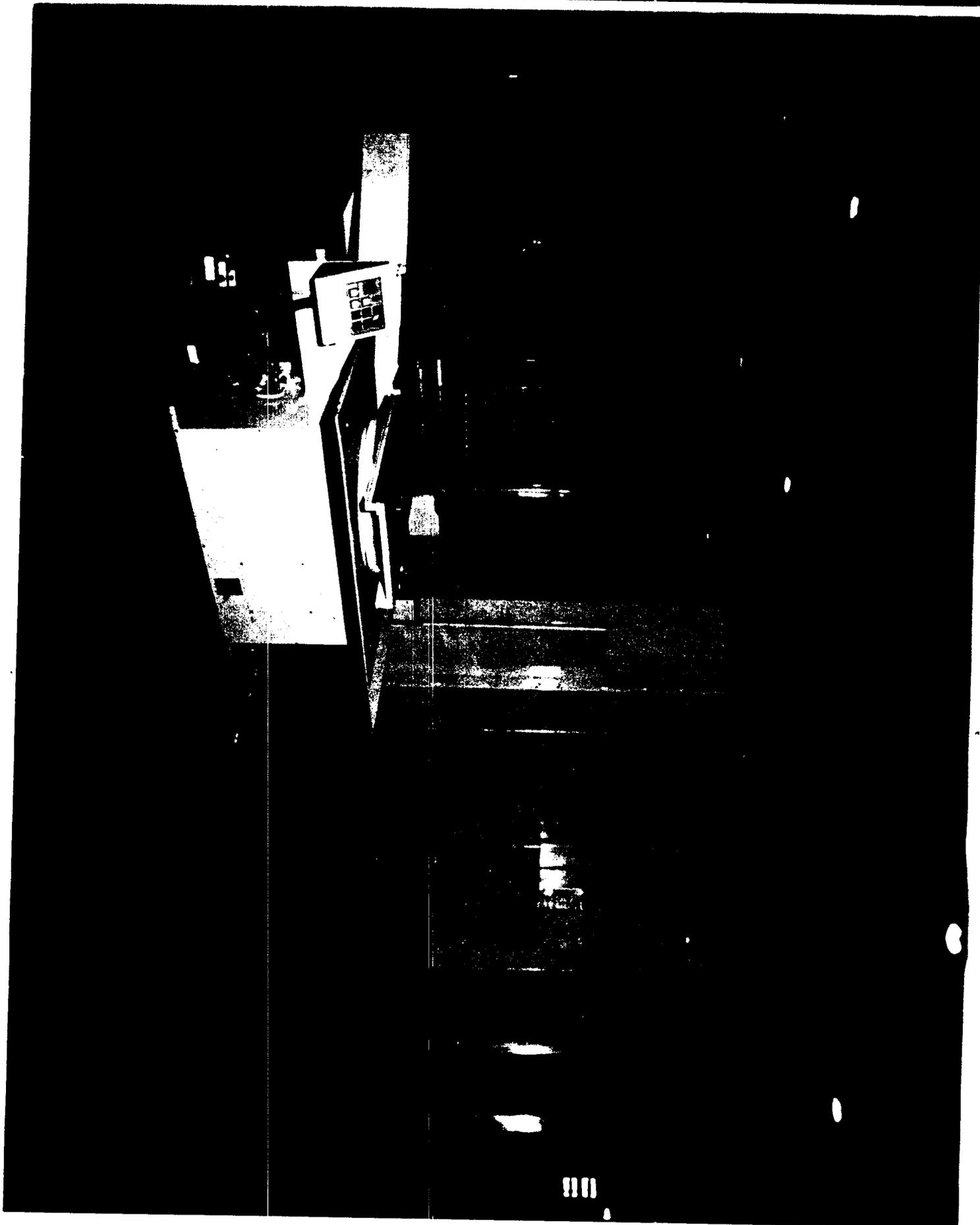


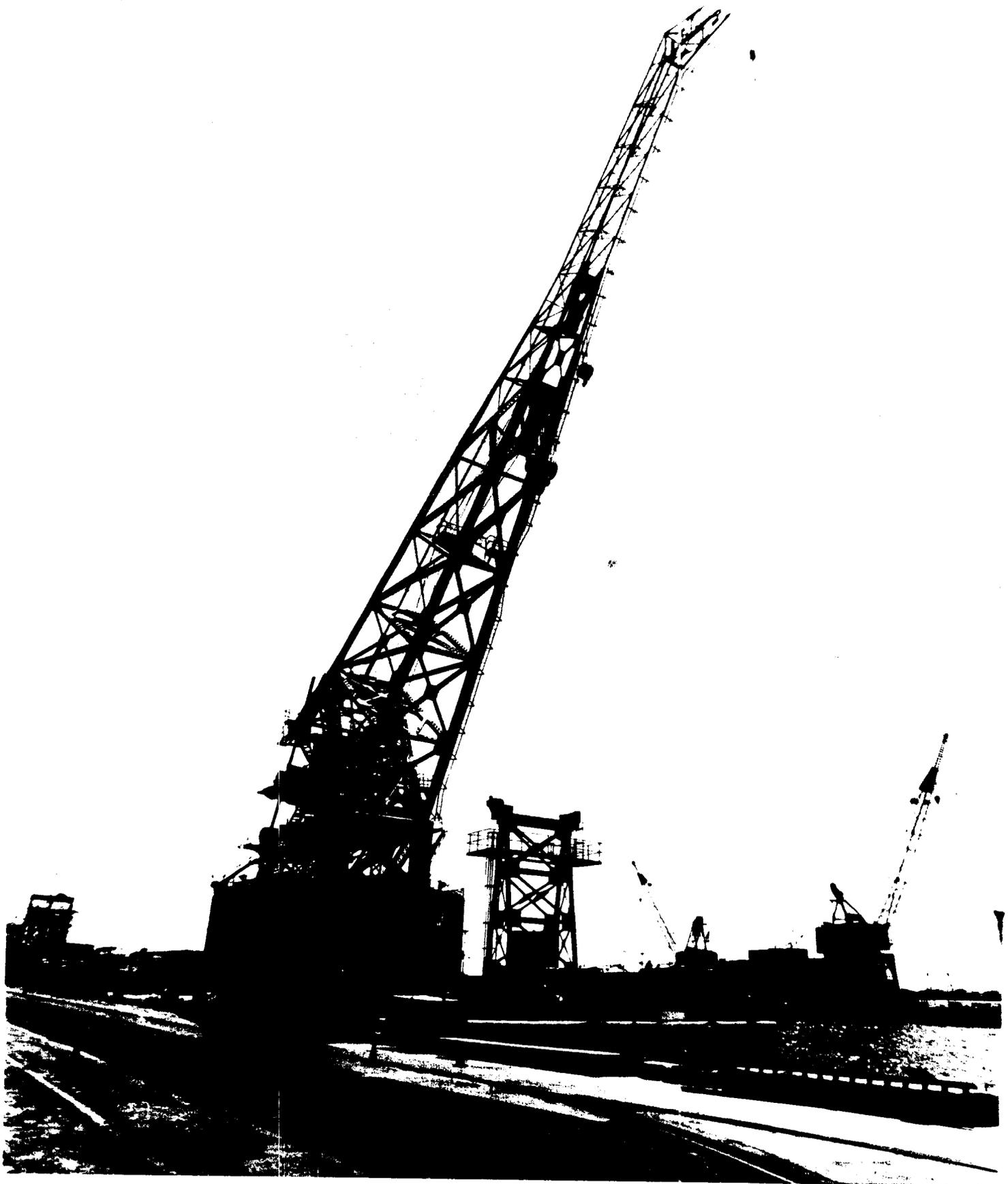












PRIMARY UIC: N00311

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>Pearl Harbor Naval Shipyard, Pearl Harbor, HI</i>
Acronym(s) used in correspondence	<i>NSY Pearl Harbor, PHNSY Pearl, NAVSHIPYD Pearl Harbor</i>
Commonly accepted short title(s)	<i>Pearl Harbor</i>

- Complete Mailing Address

COMMANDER
PEARL HARBOR NAVAL SHIPYARD
401 AVE E SUITE 124
PEARL HARBOR HI 96860-5350

- PLAD

NAVSHIPYD PEARL HARBOR HI

- PRIMARY UIC: N00311 (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): N0438A PURPOSE: WESTPAC MANAGEMENT OFFICE

N/A

N/A

N/A

N/A

2. PLANT ACCOUNT HOLDER:

- Yes X No _____ (check one)

PRIMARY UIC: N00311

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
CAMP SMITH POWER LINE	HALAWA HEIGHTS, HI	N00311
BATTERY 407	FORT RUGER, HI	N00311
FORACS 3	NANAKULI, HI	N00311
TEST PLATFORM	PEARL CITY, HI	N00311
DAY BEACON	PEARL CITY, HI	N00311

PRIMARY UIC: N00311

Name	Location	UIC
MOORING DOLPHIN	PEARL CITY, HI	N00311
FORACS 3 SOUTH STATION	NANAKULI, HI	N00311
FORACS 3 MID STATION	NANAKULI, HI	N00311
FORACS 3 NORTH STATION	NANAKULI, HI	N00311
SECURITY FENCE	NANAKULI, HI	N00311
CONTROL CENTER BUILDING	NANAKULI, HI	N00311
OCPM-PACR TRNG CENTER	NANAKULI, HI	N00311

Note: P-164's listing of Waipahu as a Special Area refers to a 3500 square foot training space occupied by OCPM who is a tenant of PHNSY. However, this area is not a Class 1/Class 2 property of PHNSY. The UIC is N0598A.

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

Name	UIC	Location	Host name	Host UIC
NONE	N/A	N/A	N/A	N/A

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.

Pearl Harbor Naval Shipyard has not been significantly affected by previous Base Closure and Realignment decisions.

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).

PRIMARY UIC: N00311

Current Missions

Pearl Harbor Naval Shipyard exists to repair, overhaul, refuel/defuel, modernize, drydock, and provide logistics service in support of ships of the U. S. Navy and will respond quickly to support emergency and national security requirements. Pearl Harbor Naval Shipyard is chartered to produce quality products in a timely and cost effective manner while fulfilling current requirements. Specifically, we are to:

- Provide a responsive, strike-free industrial capacity.
- Ensure a qualified, available work force whose priorities are controlled by the Navy.
- Execute highly complex and classified workloads.
- Maintain the immediate capability to repair battle damage on all ship classes.

The Shipyard is responsible to:

- Provide depot level maintenance support to upgrade, modernize, repair and overhaul naval nuclear submarines, destroyers, frigates, cruisers, and floating drydocks.
- Perform repairables work in connection with repair, restoration, refit, refurbishment and overhaul of systems, equipments, components and modules as scheduled.
- Provide off-yard Fleet repair support.
- Defuel and inactivate nuclear submarines.
- Drydock, repair, maintain, and service all classes of Navy ships including various service craft (barges, dive boats, floating cranes, etc.)
- Provide technical and production resources to accomplish emergency repairs to homeported and transient vessels crossing the Pacific Ocean, including all classes of Navy ships.
- Operate as a planning yard for the following classes of ships: FF1052, ATS1, ASR9, ARS38, ARS50.
- Prepare Ship Alteration drawings which are exported to other shipyards.
- Maintain the Ship Force Training Facility on Ford Island.

PRIMARY UIC: N00311

- Conduct comprehensive Occupational Safety and Health Program for maintaining high quality industrial safety standards.
- Manage a permitted/licensed environmental protection program focusing on the reengineering, recycling, cleanup and minimization of administration of waste products and related processes.
- Perform duties of the Naval Sea Systems Command in marine ship salvage operations within the Naval Base Pearl Harbor area as directed.
- Perform repair and maintenance of ordnance equipment as assigned by the Commander, Naval Sea Systems Command.
- Serve as Ship System Test Development Director for ships assigned by the Commander, Naval Sea Systems Command.
- Perform radiac coordinator functions and provide radiac repair services for ships and activities in the Pacific.
- Perform manufacturing as assigned.
- Coordinate the functions of Outfit Supply Activity and Fitting Out Activity with the Naval Supply Center, Pearl Harbor, for ships constructed, activated or converted in the Naval Base Pearl Harbor area, as assigned.
- Perform work for other U.S. Government Departments, private parties and foreign governments, as directed by competent authority.
- Accomplish RAV/TAV's and SRA's using Tiger Teams on all classes of naval ships.
- Support major dry docking SRAs of Los Angeles class submarines.
- Nondocking SRAs of nuclear submarines and surface craft vessels.
- Execute work for the Navy's Submarine Engineered Operating Cycle program.
- Perform research, development, tests and evaluation work as assigned.
- Provide facilities and services support for other activities.
- Provide foundry support.

PRIMARY UIC: N00311

- Serve as Periscope Repair/Refurbishment facility.

Pearl Harbor Naval Shipyard provides up to depot-level maintenance for all classes of naval ships. In addition to restricted and technical availabilities, our ship work product lines are:

<u>Ship/Class Type</u>	<u>Availability Type</u>
SSN 688	Depot Modernization Period Selected Restricted Availability RA/TA, Voyage Repairs
SSN 637	Selected Restricted Availability RA/TA, Voyage Repairs Inactivation Availability
DD 963	Regular Overhaul Selected Restricted Availability RA/TA, Voyage Repairs
FFG 7	Selected Restricted Availability RA/TA, Voyage Repairs
CG 47	Post Shakedown Availability Selected Restricted Availability RA/TA, Voyage Repairs
DDG 51	Post Shakedown Availability Selected Restricted Availability RA/TA Voyage Repairs
ALL NAVY SHIP CLASSES, INCLUDING CV/CVN	RA/TA, Voyage Repairs

PRIMARY UIC: N00311

Projected Missions for FY 2001

It is anticipated that Pearl Harbor Naval Shipyard's mission will be virtually unchanged and that product lines and ship work delineated in "Current Missions," will continue with minor variation. FY 2001 projection adds the following work:

- SSN 688 class submarine refueling.
- SSN 688 class submarine defueling and inactivations.
- Depot Level Maintenance

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

- Geographic Location. Pearl Harbor Naval Shipyard is geographically located to provide emergency repair support for Pacific fleet ships including the capability to drydock all classes of Navy ships.
- Chemistry Laboratory. The Chemistry laboratory in our Quality Assurance Office, besides providing comprehensive all-purpose laboratory services, has unique expertise in paint research, development and testing, specializing in tropical environments. The laboratory has the expertise and analytical equipment to conduct and support major failure analysis investigations. Our geographical location allows this chemistry laboratory to effectively support the Navy and the other services within the greater Pacific Rim area with its expertise and experience. Major customers are the Army (including the Tripler Army Medical Center), Air Force, Marine Corps (Kaneohe Marine Corps Air Station), NCTAMS Eastpac, NISE West Hawaii, SUBASE Pearl, SIMA Pearl, SRF Yokosuka, Japan, and SRF Guam.
- Calibration Services. The Navy Calibration Center provides a wide range of calibration services to many customers from the entire Pacific region. Among the calibration services: automatic microwave network measurement, precision AC/DC voltage calibration, Arbiter 1040 panel meter calibration, precision resistance measuring, precision high pressure calibration, automated vibration calibration, weight set calibration, frequency and time standard support station, optical calibrators, force measurements, torque wrench calibration, oxygen gage cleaning room, radiac calibration, and on-site calibration. Personnel expertise and facilities are not normally available anywhere in the Pacific area.

PRIMARY UIC: N00311

Major customers are the Army (including the Tripler Army Medical Center), Air Force, Marine Corps (Kaneohe MCAS, PWC), NCTAMS Eastpac, NISE West Hawaii, SUBASE Pearl, SIMA Pearl, SRF Yokosuka, Japan, and SRF Guam.

Projected Unique Missions for FY 2001

- Pearl Harbor Naval Shipyard will continue to maintain its current unique missions through FY 2001.

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
COMMANDER, NAVAL SEA SYSTEMS COMMAND N00024
- Funding Source UIC
DBOF MULTIPLE

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

On Board Count as of 01 January 1994

	Officers	Enlisted	Civilian (Appropriated)
• Reporting Command	<u>32</u>	<u>14</u>	<u>4601</u> per NCPDS
• Selected Reserve (Reporting Command is Gaining Command)	<u>7</u>	<u>0</u>	
• Tenants (Not including Selected Reserves that drill at Reporting Command)	<u>54</u>	<u>292</u>	<u>507</u>
• Tenants (Selected Reserves that drill at Reporting Command)	<u>7</u>	<u>36</u>	
• Tenants (total)	<u>61</u>	<u>328</u>	<u>507</u>

PRIMARY UIC: N00311

Authorized Positions as of 30 September 1994

	Officers	Enlisted	Civilian (Appropriated)
• Reporting Command	<u>36</u>	<u>15</u>	<u>4244</u> *
• Selected Reserve (Reporting Command is Gaining Command)	<u>7</u>	<u>0</u>	
• Tenants (Not including Selected Reserves that drill at Reporting Command)	<u>52</u>	<u>273</u>	<u>518</u>
• Tenants (Selected Reserves that drill at Reporting Command)	<u>7</u>	<u>36</u>	
• Tenants (total)	<u>59</u>	<u>309</u>	<u>518</u>

* Per FY 95 Congressional budget. Expected on-board as of 30 September 1994 is 4244.

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 F. H. Gehrman, Jr.</u> Shipyard Commander	<u>(808) 474-9119</u>	<u>(808) 474-9033</u>	<u>*</u>
• Duty Officer	<u>(808) 474-1271</u>	<u>(808) 474-9033</u>	[N/A]
• POC			
<u>Clayton D. Tano</u> Division Head, Business and Strategic Planning Office	<u>(808) 474-0258</u>	<u>(808) 474-0267</u>	<u>*</u>
<u>Francis M. Suganuma</u> General Engineer, Business and Strategic Planning Office	<u>(808) 474-0254</u>	<u>(808) 474-0267</u>	<u>*</u>

* Provided by separate correspondence due to privacy act.

PRIMARY UIC: N00311

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	Er listed	Civilian
Naval Reactors Representative's Office	32133	10	0	3
Fleet Training Group, Pearl Harbor	570A63	8	73	0
Defense Finance and Accounting Service - Cleveland (DFAS-CL) (XCG) Pearl Harbor	HQ0103	0	0	10
Office of Civilian Personnel Management, Pacific Region, Pearl Harbor	N0598A	0	0	19
Fleet & Industrial Supply Center, Pearl Harbor	N00604	0	0	5
Naval Computer & Telecommunications Area Master Station, Pearl Harbor	N00950	0	18	0
Defense Printing Service Detachment Branch Office, Pearl Harbor	N44285	0	0	21
Supervisor of Shipbuilding, Conversion and Repair, USN, San Diego Detachment, Pearl Harbor	N47456	2	1	45
Submarine Force, U. S. Pacific Fleet, Shipyard Representative, Pearl Harbor	N57020	1	2	0
Naval Base, Pearl Harbor	N61449	13	15	34

PRIMARY UIC: N00311

Tenant Command Name	UIC	Officer	Enlisted	Civilian
Resident Officer In Charge of Construction, Naval Facilities Engineering Command, Pearl Harbor	N62471	10	0	47
Naval Command, Control and Ocean Surveillance Center, In Service Engineering West Activity, Pearl Harbor	N62676	1	0	137
Navy Public Works Center, Pearl Harbor	N62755	0	41	149
Naval Station Pearl Harbor	N62813	0	0	33
Naval Criminal Investigative Service Regional Office, Pacific	N63435	0	0	5
Naval Security Group Activity, Pearl Harbor	N63901	7	123	3

- Tenants residing on main complex (homeported units.)

Tenant Command Name	UIC	Officer	Enlisted	Civilian
NONE	N/A	N/A	N/A	N/A

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

Tenant Command Name	UIC	Location	Officer	Enlisted	Civilian
Defense Reutilization and Marketing Office (DRMO), Hawaii	SH510C	Pearl City, HI	0	0	7

- Tenants (Other than those identified previously)

Tenant Command Name	UIC	Location	Officer	Enlisted	Civilian
KAPL Resident Manager's Office	N/A	Pearl Harbor, HI	0	0	0

PRIMARY UIC: N00311

BETTIS Resident Manager's Office	N/A	Pearl Harbor, HI	0	0	0
U.S. Post Office	N/A	Pearl Harbor, HI	0	0	0
Pearl Harbor Federal Credit Union	N/A	Pearl Harbor, HI	0	0	0
Navy and Marine Corp Reserve Readiness Center (Select Reserves that drill at Reporting Command)	N61845	Honolulu, HI	7	36	0

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

Activity name	Location	Support function (include mechanism such as ISSA, MOU, etc.)
<i>Military Sealift Command, TAGOS Unit Pacific</i>	<i>Pearl Harbor, HI</i>	<i>Drug Testing. - ISSA</i>
<i>Naval Sea Systems Naval Inactive Ship Maintenance Facility</i>	<i>Waipahu, HI</i>	<i>Personnel support/drug testing. - ISSA</i>
<i>USMC Air Station, Iwakuni, Japan</i>	<i>Camp Smith, HI</i>	<i>Electronic test equipment repair/crypto repair. - ISSA</i>
<i>Hawaii Air National Guard</i>	<i>Hickam AFB, HI</i>	<i>Oil Analysis. - ISSA</i>
<i>U. S. Army Support Command</i>	<i>Fort Shafter, HI</i>	<i>Oil Analysis. - ISSA</i>
<i>Defense Nuclear Agency Field</i>	<i>Kirtland AFB, New Mexico</i>	<i>Oil Analysis. - ISSA</i>
<i>Navy Public Works Center</i>	<i>Pearl Harbor, HI</i>	<i>Drug Testing, CEAP Svcs. - ISSA</i>

PRIMARY UIC: N00311

Activity name	Location	Support function (include mechanism such as ISSA, MOU, etc.)
<i>Naval Station</i>	<i>Pearl Harbor, HI</i>	<i>Drug Testing - ISSA</i>
<i>Naval Base</i>	<i>Pearl Harbor, HI</i>	<i>Recycle Facility Support. - ISSA</i>
<i>15th Air Base Wing</i>	<i>Hickam AFB, HI</i>	<i>Oil Analysis/compressed air analysis/hydraulic fluid analysis. - ISSA</i>

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.)

*** SEE ATTACHMENT (A)**

- 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).)

*** SEE ATTACHMENTS (B) AND (C)**

- a. Property Line: Shipyard land areas are shown on Attachments (B) and (C). Adjacent areas belonging to other activities are marked by cross-hatch markings and other markings to differentiate areas from PHNSY. The west corner of the Shipyard is also partially bounded by the Hickam Air Force Base. There is no current or planned known residential or industrial development that is impacting or will impact mission performance.

PRIMARY UIC: N00311

- b. Encroachments: Pearl Harbor Naval Shipyard, located on the Pearl Harbor Naval Base Complex is bounded by other naval base activities: Public Works Center, Naval Station, and the Marine Barracks.
- c. Wetlands: Pearl Harbor Naval Shipyard does not possess any federal jurisdictional wetlands
- d. Encumbrances: ESQD arcs are marked on Attachment (B). ESQD arcs are under the cognizance of NAVSTA Pearl Harbor and PWC Pearl Harbor. Pearl Harbor Naval Shipyard has no other encumbrances.
- e. Historical Sites: In 1964, the Secretary of the Interior declared the U.S. Naval Base, Pearl Harbor, which includes Pearl Harbor Naval Shipyard, a National Historic Landmark. Following the establishment of the National Register of Historic Places in 1966, the U.S. Naval Base Pearl Harbor, which includes Pearl Harbor Naval Shipyard, was included within this listing of America's historic sites. Pearl Harbor Naval Shipyard (and all of its structures) is listed on the National Register of Historic Places. A list of structures and buildings included in the National Historic Landmark (NHL) is provided as **EXHIBIT A**.

- 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".)

*** SEE ATTACHMENT (D)**

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

UIC N00311

JL
SEA OAK
2/14/94

Data Being Certified: BRAC 95 Data Call Number 1, Pearl Harbor Naval Shipyard

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

NEXT ECHELON LEVEL (if applicable)

William H. Ryzewic

NAME (Please type or print)

W. H. Ryzewic
Signature

Executive Director for Naval Shipyard and SUPSHIP
Management and Field Activity Support Directorate

FEB 10 1994

Title

Date

Naval Sea Systems Command

Activity

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

MAJOR CLAIMANT LEVEL

B. P. STERNER

NAME (Please type or print)

B. P. Sterner
Signature

Title

Date

Commander
Naval Sea Systems Command
Acting

2/10/94

Activity

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

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

S. F. Loftus
Vice Admiral, U.S. Navy

NAME (Please type or print)

S. F. Loftus
Signature

Deputy Chief of Staff
Operations (Logistics)

23 FEB 1994

Title

Date

UIC 00311

JL
SEN 09
2/14/94

BRAC-95 CERTIFICATION

Reference: SECNAVNOTE 11000 of 08 December 1993

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

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

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

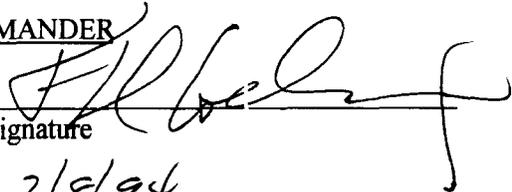
I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

Data Being Certified: BRAC-95 DATA CALL #1

ACTIVITY COMMANDER

FRED H. GEHRMAN, JR.
NAME (Please type or print)

Signature



CAPT., USN
Title

Date

2/8/94

PEARL HARBOR NAVAL SHIPYARD
Activity

DATA CALL 64

CONSTRUCTION COST AVOIDANCES

Table 1: Military Construction (MILCON) Projects (Excluding Family Housing Construction Projects)

Installation Name:		PEARL HARBOR HI NSY		
Unit Identification Code (UIC):		N00311	#116	
Major Claimant:		NAVSEA		
Project FY	Project No.	Description	Appn	Project Cost Avoid (\$000)
1997	215	ENG MANAGEMENT BLDG	MCON	9,900
		Sub-Total - 1997		9,900
1999	474	ELECTRICAL DISTR SYS UPGRD	MCON	6,990
		Sub-Total - 1999		6,990
2000	301	FORGE/FOUNDRY PTRN SHOP	MCON	7,200
		Sub-Total - 2000		7,200
2001	234	SPRINKLER SYSTEM	MCON	1,200
2001	312	WATERFRONT UTILITIES UPGD	MCON	10,500
		Sub-Total - 2001		11,700
		Grand Total		35,790

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

MAJOR CLAIMANT LEVEL

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

COMMANDER
Title

NAVAL FACILITIES ENGINEERING COMMAND
Activity

Jack E. Buffington
Signature
7/13/94
Date

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

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

W. A. EARNER

NAME (Please type or print)

Title

W. A. Earner
Signature
7/18/94
Date

BRAC-95 CERTIFICATION

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

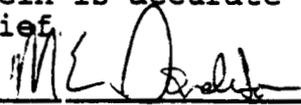
MARK E. DONALDSON
NAME (Please type or print)

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.