DCN 660

1272

ENVIRONMENTAL

DATA CALL

FOR NAVY PUBLIC WORKS CENTER

NORFOLK, VIRGINIA

NOTE: FOR THE PURPOSE OF THIS SUBMITTAL N/A IS DEFINED TO MEAN NOT APPLICABLE TO PWC NORFOLK BASED ON THE FACT THAT PWC IS NOT A HOST ACTIVITY OR A CLASS 1 PROPERTY HOLDER.

List of tenant activities with UIC's that are covered in this response.
N/A

DATA CALL 64

CONSTRUCTION COST AVOIDANCES

Table 1: Military Construction (MILCON) Projects (Excluding Family Housing Construction Projects)

Installation Name:	**NORFOLK VA PWC**
Unit Identification Code (UIC):	**N00187** ≠ 122
Major Claimant:	**NAVFAC**

Project FY	Project No.	Description	Appn	Project Cost Avoid ($000)
2000	290	PEST CONTROL FACILITY	MCON	1,800
		Sub-Total - 2000		**1,800**
		Grand Total		**1,800**

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

MAJOR CLAIMANT LEVEL

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

Jack E. Buffington
Signature

7/13/94
Date

COMMANDER
Title

NAVAL FACILITIES ENGINEERING COMMAND
Activity

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

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

W. A. EARNER

NAME (Please type or print)

W. A. Earner
Signature

Title

7/18/94
Date

BRAC-95 CERTIFICATION

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

MARK E. DONALDSON
NAME (Please type or print)

Signature

CDR, CEC, USN
Title

12 July 1994
Date

MILCON PROGRAMMING DIVISION
Division

FACILITIES PROGRAMMING AND CONSTRUCTION DIRECTORATE
Department

NAVAL FACILITIES ENGINEERING COMMAND
Activity

Enclosure (1)

BRAC DATA CALL NUMBER 64
CONSTRUCTION COST AVOIDANCE

Information on cost avoidance which could be realized as the result of cancellation of on-going or programmed construction projects is provided in Tables 1 (MILCON) and 2 (FAMILY HOUSING). These tables list MILCON/FAMILY HOUSING projects which fall within the following categories:

1. all programmed construction projects included in the FY1996 - 2001 MILCON/FAMILY HOUSING Project List,

2. all programmed projects from FY1995 or earlier for which cost avoidance could still be obtained if the project were to be canceled by 1 OCT 1995, and,

3. all programmed BRAC MILCON/FAMILY HOUSING projects for which cost avoidance could still be obtained if the project were to be canceled by 1 OCT 1995.

Projects listed in Tables 1 and 2 with potential cost avoidance were determined as meeting any one of the following criteria:

Projects with projected Work in Place (WIP) less than 75% of the Current Working Estimate (CWE) as of 1 OCT 1995 .

Projects with projected completion dates or Beneficial Occupancy Dates subsequent to 31 March 1996.

Projects with projected CWE amount greater than $15M.

The estimated cost avoidance for projects terminated after construction award would be approximately one-half of the CWE for the remaining work. Close-out, claims and other termination costs can consume the other half.

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DATA CALL 64

CONSTRUCTION COST AVOIDANCES

Table 2: Family Housing Construction Projects

Installation Name:	NORFOLK VA PWC
Unit Identification Code (UIC):	N00187 #122
Major Claimant:	NAVFAC

Project FY	Project No.	Description	Appn	Project Cost Avoid ($000)
1994	H258	REPLACEMENT FAMILY HOUSING	FHSG	5,500
		Sub-Total - 1994		**5,500**
1996	H331	HOUSING WAREHOUSE/HOUSING OFFICE	FHSG	1,390
		Sub-Total - 1996		**1,390**
1998	H273	204 UNITS FAMILY HOUSING	FHSG	24,270
		Sub-Total - 1998		**24,270**
1999	H323	100 UNITS FAMILY HOUSING	FHSG	13,730
		Sub-Total - 1999		**13,730**
2001	H328	248 UNITS FAMILY HOUSING	FHSG	30,150
		Sub-Total - 2001		**30,150**
		Grand Total		**75,040**

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

MAJOR CLAIMANT LEVEL

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

Signature

COMMANDER
Title

7/13/94
Date

NAVAL FACILITIES ENGINEERING COMMAND
Activity

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

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

W. A. EARNER

NAME (Please type or print)

Signature

Title

1/18/94
Date

BRAC-95 CERTIFICATION

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

MARK E. DONALDSON
NAME (Please type or print)

Signature

CDR, CEC, USN
Title

12 July 1994
Date

MILCON PROGRAMMING DIVISION
Division

FACILITIES PROGRAMMING AND CONSTRUCTION DIRECTORATE
Department

NAVAL FACILITIES ENGINEERING COMMAND
Activity

Enclosure (1)

BRAC DATA CALL NUMBER 64
CONSTRUCTION COST AVOIDANCE

Information on cost avoidance which could be realized as the result of cancellation of on-going or programmed construction projects is provided in Tables 1 (MILCON) and 2 (FAMILY HOUSING). These tables list MILCON/FAMILY HOUSING projects which fall within the following categories:

1. all programmed construction projects included in the FY1996 - 2001 MILCON/FAMILY HOUSING Project List,

2. all programmed projects from FY1995 or earlier for which cost avoidance could still be obtained if the project were to be canceled by 1 OCT 1995, and,

3. all programmed BRAC MILCON/FAMILY HOUSING projects for which cost avoidance could still be obtained if the project were to be canceled by 1 OCT 1995.

Projects listed in Tables 1 and 2 with potential cost avoidance were determined as meeting any one of the following criteria:

Projects with projected Work in Place (WIP) less than 75% of the Current Working Estimate (CWE) as of 1 OCT 1995 .

Projects with projected completion dates or Beneficial Occupancy Dates subsequent to 31 March 1996.

Projects with projected CWE amount greater than $15M.

The estimated cost avoidance for projects terminated after construction award would be approximately one-half of the CWE for the remaining work. Close-out, claims and other termination costs can consume the other half.

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DATA CALL 64
CONSTRUCTION COST AVOIDANCES

R

Table 2: Family Housing Construction Projects

Installation Name:	**NORFOLK VA PWC**
Unit Identification Code (UIC):	**N00187**
Major Claimant:	**NAVFAC**

Project FY	Project No.	Description	Appn	Project Cost Avoid ($000)
1996	H331	HOUSING OFFICE/HOUSING WAREHOUSE	FHSG	1,390
		Sub-Total - 1996		**1,390**
1998	H273	204 UNITS FAMILY HOUSING	FHSG	24,270
		Sub-Total - 1998		**24,270**
1999	H323	100 UNITS FAMILY HOUSING	FHSG	13,730
		Sub-Total - 1999		**13,730**
2001	H328	248 UNITS FAMILY HOUSING	FHSG	30,150
		Sub-Total - 2001		**30,150**
		Grand Total		**69,540**

BRAC-95 CERTIFICATION

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

MICHAEL D. THORNTON
NAME (Please type or print)

CDR, CEC, USN
Title

MILCON PROGRAMMING DIVISION
Division

NAVAL FACILITIES ENGINEERING COMMAND
Activity

MR Thornton
Signature

9 Dec 94
Date

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

MAJOR CLAIMANT LEVEL

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

Signature

COMMANDER
Title

12/9/94
Date

NAVAL FACILITIES ENGINEERING COMMAND
Activity

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

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

W. A. EARNER

NAME (Please type or print)

Signature

Title

12 DEC 94
Date

Document Separator

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DATA CALL 63
FAMILY HOUSING DATA

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

Installation Name:	PWC Norfolk
Unit Identification Code (UIC):	N00187
Major Claimant:	NAVFAC

Percentage of Military Families Living On-Base:	9.63%
Number of Vacant Officer Housing Units:	0
Number of Vacant Enlisted Housing Units:	0
FY 1996 Family Housing Budget ($000):	$9.5
Total Number of Officer Housing Units:	1
Total Number of Enlisted Housing Units:	0

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

The number of officer and enlisted units reflected above are this activity's share of the family housing assets in the total survey complex, based on data extracted from the FY96 Family Housing Survey (DD Form 1377) and the Current Personnel Summary. These units are not necessarily located at this particular activity. If this activity were to close, the housing assets could still be utilized by other activities located in the survey complex.

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

MAJOR CLAIMANT LEVEL

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

Jack Buffington
Signature

7/20/94
Date

COMMANDER
Title

NAVAL FACILITIES ENGINEERING COMMAND
Activity

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

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

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

W A Earner
Signature

Title

7/25/94
Date

BRAC-95 CERTIFICATION

Reference: SECNAV NOTE 11000 dtd 8 Dec 93

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

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

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

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

ACTIVITY COMMANDER

THOMAS A. DAMES
NAME (Please type of print)

Rear Admiral, CEC, USN
Title

LANTNAVFACENGCOM
Activity

Signature J.B. VENABLE
Acting

JUL 06 1994
Date

ENCLOSURE(2)

BRAC-95 CERTIFICATION

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

Paulette C. Brown
Name (Please type or print)

for J. R. Grundstaff
Signature

Head, Operations & Projects Branch
Title

7-6-94
Date

Housing Division
Division

Facilities Management
Department

LANTNAVFACENGCOM
Activity

BRAC-95 CERTIFICATION

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

J. Richard Grindstaff
Name (Please type or print)

J. Richard Grindstaff
Signature

Head, Requirements & Acquisition Branch
Title

7-6-95
Date

Housing Division
Division

Facilities Management
Department

LANTNAVFACENGCOM
Activity

BRAC-95 CERTIFICATION

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

Mark D. Raker
Name (Please type or print)

Mark D. Raker
Signature

Housing Management Specialist
Title

7/6/94
Date

Housing Division
Division

Facilities Management
Department

LANTNAVFACENGCOM
Activity

BRAC-95 CERTIFICATION

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

for Moses L. Meadows
Name (Please type or print)

for J. Richard Gundstaff
Signature

Director
Title

7-6-94
Date

Housing Division
Division

Facilities Management
Department

LANTNAVFACENGCOM
Activity

Document Separator

122

DATA CALL FOR MILITARY VALUE ANALYSES

PUBLIC WORKS CENTER, NORFOLK

Category ..... INDUSTRIAL SUPPORT
Type ..... PUBLIC WORKS CENTERS (PWCs)

Claimant ..... COMNAVFACENGCOM

MILITARY VALUE DATA CALL
PUBLIC WORK CENTERS

Primary UIC: N00187
(Use this number for activity identification at the top of each page.)

Mission Area

1. Customer Base

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

Table 1.1: **Customer Base**

Customer	Customer location	Percent of Costs	# Direct Workyears
SHIPS	SEWELL'S POINT PIERS	17%	526
NORFOLK NAVAL SHIPYARD	NNSY PORTSMOUTH	13%	101
NAVAL STATION	SEWELL'S POINT	8%	202
HOUSING	VARIOUS LOCATIONS	8%	316
NAVAL AIR STATION	SEWELL'S POINT	5%	70
CINCLANTFLT	CINCLANTFLT - NORFOLK	5%	52
NAVAL AMPHIBIOUS BASE	LITTLE CREEK - NORFOLK	5%	49
NAVAL AVIATION DEPOT	SEWELL'S POINT	5%	80
ALL OTHERS		34%	909
	TOTAL	100%	2305

ACTIVITY: N00187

1.2 What percentage of your total FY 1993 direct Man Years was allocated to direct fleet support? 48.5 %

1.3 What was your overall customer satisfaction rating for FY 1993? 3.4 on A 5 point Scale.

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

PWC Norfolk provides the full range of Base Operations Support Services, primarily to activities within the Tidewater Virginia area. These services include maintenance and repair of Class I and Class II properties and facilities, sales of more than $200M of electricity, steam, water, sewage and natural gas. Maintenance and operations of more than 6,000 pieces of transportation equipment, management and maintenance of more than 3,000 units of family housing, a wide spectrum of engineering services and environmental services which include laboratory testing, packaging and disposal. These services are provided to more than 1,300 customers and includes more than 100 ships. The majority of customers are located at Naval Base Norfolk; Naval Air Station Oceana, Virginia Beach; Fleet Combat Training Center, Virginia Beach; Norfolk Naval Shipyard; Naval Medical Center and St. Julien's Creek; all located at Portsmouth, Virginia.

Mission Area

2. Family Housing

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

Table 2.1: **Housing**

Housing Area	Total # Units	Occupancy Rate (%)	Comments
Camp Allen	257	98.1	N/A
Capehart	225	97.9	N/A
Carper	600	98.8	N/A
Hewitt Farms	390	97.3	N/A
Torgerson	114	97.8	N/A
Willoughby	440	97.7	N/A
Woodbridge Crossing	300	97.8	N/A
Armed Forces Staff College	249	99.2	122 Units Temporarily Diverted
Sewell's Point Officers	131	93.9	N/A
Officers (Substandard)	3	83.0	N/A
St. Julien Creek (Officer)	34	91.3	N/A
Stanley Court	125	97.0	N/A
New Gosport (Substandard)	247	96.8	N/A

Features and Facilities

3. Availability and Condition

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

Table 3.1: **Facility Conditions**

CCN	Descriptive Nomenclature	Condition (KSF)			Total (KSF)
		Adequate	Substandard	Inadequate	
213-48	Quality Assurance	3.80	0	0	3.80
213-58	Boat Shop	0	0	10.61	10.61
213-66	Service Shop	2.86	19.02	0	21.88
213-70	Waterfront Support Service Bldg.	0	0	1.60	1.60
214-20	Auto Vehicle Shop	58.86	56.82	76.43	192.11
214-30	Refuel Vehicle Shop	4.03	0	0	4.03
214-40	Vehicle Holding Shed	3.10	0	14.07	17.17
218-10	Container Repair Test Bldg.	0	0	5.04	5.04
218-40	Railroad Equipment Shop	0	0.96	0	0.96
218-51	Battery Recharging Shop	0	13.44	1.40	14.84

ACTIVITY: N00187

CCN	Descriptive Nomenclature	Condition (KSF)			Total (KSF)
		Adequate	Substandard	Inadequate	
218-77	Repair Shop Storage	20.00	0	6.90	26.90
218-91	Mobile Van Shop	14.04	0	2.80	16.84
219-10	Public Works Shop	167.86	28.75	.11	196.72
219-25	Public Works Shop Storage	1.04	15.47	0	16.51
219-30	Painting and Related Operations Bldg.	1.66	0	0	1.66
219-77	Public Works Maintenance Storage	81.17	14.82	18.87	114.86
*123-10	Filling Station (Unit of measure in outlets, OL)	9 OL	0	0	9 OL
*126-40	Tank Truck/Car Unload Facility (Unit of measure in outlets, OL	3 OL	0	0	3 OL
**159-64	Waterfront Operations Building	2.48	0	4.56	7.04
**310-15	Materials Lab	16.24	1.84	1.73	19.81
310-17	Optics Lab	6.65	0	0	6.65
310-19	Physics Lab	5.31	0	0	5.31

ACTIVITY: N00187

CCN	Descriptive Nomenclature	Condition (KSF)			Total (KSF)
		Adequate	Substandard	Inadequate	
316-10	Ammo, Explosive, & Toxic Lab	0	0	0	0.00
**610-10	Administrative Office	109.14	14.68	6.64	130.46
610-20	Data Processing Center	6.22	0	0	6.22
610-30	Classified Incinerator Bldg.	0	1.02	0	1.02
740.19	Credit Union	3.56	0	0	3.56
*750-57	Recreation Grounds (Unit of measure in EA.)	8	0	0	8
*750-10	Playing Court	1	0	0	1
740-34	Thrift Shop	1.13	0	0	1.13
171-10	Academic Instruction Building	0	4.50	0	4.50
441-10	General Warehouse/Bulk	14.73	57.22	0	71.95
**424-20	Container Holding Yard	0	0	144.00	144.00
*155-20	Small Craft Berthing (Units in feet of berth, FB.)	84	0	0	84
852-10	Parking Area	1,039.00	0	0	1,039.00

ACTIVITY: N00187

CCN	Descriptive Nomenclature	Condition (KSF)			Total (KSF)
		Adequate	Substandard	Inadequate	
	Activity TOTAL:	1,562.88	228.54	294.76	2,086.8

* Not included in totals

** There are no current plans in progress to upgrade these facilities

3. Availability and Condition, 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:

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?

a. Facility type/Category code: Boat Shop-Waterfront Pier Operations Facility/213-58

b. The existing facility is a makeshift facility constructed of two aircraft storage containers. The physical condition of the facility is deterioration due to age and type of construction. The functional layout is not conducive to that of a Boat Shop-Waterfront Pier Operations Facility.

c. The existing facility is being utilized as a machine shop and to store parts in support of barge repair operations and repair and construction of waterfront pier structures.

d. It will cost approximately $2,000,000 to upgrade the facility to substandard.

e. This facility is located on the waterfront and can only be utilized as a support function to waterfront activities. It will cost approximately $2,250,000 to make the facility completely adequate for its present function.

f. A MILCON project (P-247, PWC Shops, Waterfront Pier Operations Facility), was programmed in the FY95 MILCON program. However, the project was deferred and is now in an unprogrammed status. There are no plans to renovate this facility because it is more cost effective to completely rebuild the existing facility.

g. The facility conditions has resulted in a C3 designation on the PWC Norfolk BASEREP.

a. Facility type/Category code: Waterfront Service Support Building/213-70

b. This facility is small and showing signs of obvious deterioration. The facility is a makeshift concrete masonry unit building which is small, weathered, and is aesthetically displeasing.

c. The facility is being utilized to perform hydrographic surveys in support of dredging requirements at the Naval Base Norfolk within a 50 mile radius.

d. Upgrading this facility cannot be accomplished because the facility is too deteriorated. A new facility is required.

e. This facility cannot be converted to another function by providing facility upgrades. A new facility is required for such a conversion.

f. This facility is planned for demolition and the existing function will be relocated to another facility.

g. The facility condition has not been identified in the PWC Norfolk BASEREP because the existing function will be relocated to another facility. The building is planned for demolition.

a. Facility type/Category code: Auto Vehicle Shop/214-20

b. The building interior configuration is not adequate for shop maintenance. The aisle spaces are narrow which impedes maintenance on the larger PWC vehicles. The existing facilities were not originally designed to support vehicle maintenance; therefore, maintenance equipment and parts have been placed in areas of the facility that functionally hamper maintenance operations.

c. The Auto Vehicle Shop facilities are being utilized for maintenance of PWC and fleet vehicles. This includes the heavy truck type vehicles as well.

d. The interior spaces are an integral part of the facilities and cannot be upgraded to substandard. A state-of-the-art facility is required to satisfy the deficiencies.

e. The spaces could be converted to administrative space. However, this conversion would cost approximately $1,500,000 and would be of MILCON scope.

f. This command has tentatively planned a MILCON project (P-772, Auto Vehicle Maintenance Facility) which is estimated at a cost of $3,850,000. This project is presently unprogrammed.

g. The facility condition has resulted in a C3 designation on the PWC Norfolk BASEREP.

a. Facility type/Category code: Vehicle Holding Shed/214-40

b. The overall facilities are old and in a deteriorated state. The facilities are also located away from the Auto Vehicle Shop which is an added impediment to maintenance operations.

c. The Vehicle Holding Shed facilities are utilized to store vehicles pending maintenance work.

d. The cost to upgrade the facility is approximately $352,000.

e. The existing facilities could be used for warehouse storage at approximately the $352,000 since the facilities are all open bay.

f. These facilities have been planned for incorporation in a MILCON project (P-772, Auto Vehicle Maintenance Facility). This will allow for all of the Auto Vehicle facilities to be consolidated.

g. The facilities condition has resulted in a C3 designation on the PWC BASEREP.

a. Facility type/Category code: Container Repair Test Building/218-10

b. The facilities are inadequate because they were constructed as temporary structures. The deterioration of the pre-fabricated tin structure is quite apparent and is aesthetically displeasing.

c. The existing facilities are utilized to repair and reconstruct refuse containers which are used throughout the Naval Base Norfolk.

d. The facilities cannot be upgraded to substandard because they were originally constructed as temporary structures. The cost to significantly upgrade the facilities would be of MILCON scope.

e. These makeshift buildings provide minimum facilities to repair and reconstruct refuse containers. There are no other discernible uses for the facilities.

f. A MILCON project (P-896, Trash Bin Repair Facility) has been planned to replace the existing antiquated facilities with a new repair facility. The estimated cost of this project is $460,000. The project is presently unprogrammed.

g. The facilities condition has resulted in a C3 designation on the PWC BASEREP.

a. Facility type/Category code: Battery Recharging Shop/218-51

b. The facility is inadequate due to the building configuration, structural condition, and general deterioration due to facility age. A bridge crane is needed to facilitate the battery recharging operation; however, the facility was not originally designed to accommodate such a load.

c. The facility is used to store and recharge batteries for a variety of
light and heavy vehicles.

d. It would cost approximately $42,000 to upgrade the facility to substandard.

e. The facility could be utilized for storage with an investment of at least $42,000 to upgrade

the facility to substandard.

f. This operation will be incorporated in the Auto Vehicle Maintenance Facility MILCON project P-772. The MILCON project is currently unprogrammed.

g. The facility condition has resulted in a C3 designation on the PWC BASEREP.

a. Facility type/Category code: Repair Shop Storage/218-77

b. The existing facilities provide inefficient working conditions due to a lack of proper space and overall interior building configuration. The facilities are also very old buildings which are showing pronounced signs of deterioration.

c. The facilities are utilized to store parts critical to repairing and outfitting mobile vans.

d. The cost to upgrade these facilities to substandard would be approximately $276,000.

e. The facilities could be utilized as a combination of warehouse and office spaces. The cost would be approximately $1,035,000 for the complete conversion.

f. A MILCON project (P-251, Van Workshop Addition) has been planned to correct the existing facilities deficiencies. The project cost is estimated at $1,350,000. The project is presently unprogrammed.

g. The facilities have been designated C3 on the PWC Norfolk BASEREP.

a. Facility type/Category code: Mobile Van Shop/218-91

b. The existing facilities provide inefficient working conditions due to a lack of proper space and overall interior building configuration. The facilities are also very old buildings which are showing pronounced signs of deterioration.

c. The facilities are being utilized to repair and outfit mobile vans.

d. It would cost approximately $420,000 to upgrade the facilities to substandard.

e. The facilities could be utilized as a combination of warehouse and office space. The cost would be approximately $1,035,000 for the complete conversion.

f. A MILCON project (P-251, Van Workshop Addition) has been planned to correct the existing facilities deficiencies. The project cost is estimated at $1,350,000. The project is presently unprogrammed.

g. The facilities have been designated C3 on the PWC Norfolk BASEREP.

a. Facility type/Category code: Public Works Shop/219-10

b. The existing facility does not provide enough area for shop work.

c. The facility serves as a Public Works Shop.

d. The existing facility cannot be upgraded to substandard without increasing the area. Increasing the area cannot be accomplished because other functions are located in the facility which precludes expansion. The space occupied for this particular shop function is only 100 SF.

e. The area could be used for small administrative storage. The cost for this conversion would be a nominal $3,000 to $4,000.

f. There is a plan to provide a new Public Works Shop (P-329, Public Works Shop) to allow PWC to relocate the Zone 3 Maintenance Shop. However, this is due to logistic problems. The 100 SF shop function supports building N26 on the Naval Base Norfolk, and no plans have been formulated to upgrade the space either through relocation or construction of another facility.

g. The designation for the Public Works Shop Zone 3 is C3 on the PWC BASEREP.

a. Facility type/Category code: Public Works Maintenance Storage/219-77

b. The existing facilities conditions are lack of space, deterioration due to age, and functional inefficiencies.

c. The existing facilities are being utilized for storage of maintenance materials.

d. It would cost approximately $754,000 to upgrade the facilities to substandard.

e. The facilities are best suited as maintenance support type facilities. Reconfiguring these type facilities to some other use, for example administrative space, would be of MILCON scope.

f. The facilities will be incorporated between three planned MILCON projects (P-772, Auto Vehicle Maintenance Facility; P-667, Classified Incinerator/Shredder; P-896, Trash Bin Repair Facility). These MILCON projects are presently unprogrammed.

g. The designation for the facilities condition is C3 on the PWC Norfolk BASEREP.

ACTIVITY: N00187

Facilities and Features

4. Stand Alone Features

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

Table 4.1: **Support Facilities**

Support	Currently Obtained from:	Needed if Host Closes?
Police *See below for additional support	COMNAVBASE-CITY OF NORFOLK-CITY OF VIRGINIA BEACH	YES
Security	COMNAVBASE	YES
Fire **See below for additional support	NAVAL STATION-CITY OF NORFOLK-CITY OF VIRGINIA BEACH	YES
Cafeteria	VARIOUS	YES
Parking	VARIOUS	YES
***Utilities	PURCHASED/PRODUCED	YES
Child Care	NAVAL STATION	NO

* Norfolk Naval Shipyard Police Department
Naval Medical Center Police Department
Naval Air Station, Oceana Police Department
Little Creek NAB Police Department
Fleet Combat Training Center Dam Neck Police Department

** Norfolk Naval Shipyard Fire Department
Naval Medical Center Fire Department
Naval Air Station, Oceana Fire Department
Little Creek NAB Fire Department
Fleet Combat Training Center Dam Neck Fire Department

*** Electricity - water - sewage - natural gas obtained from city of Norfolk/city of Portsmouth or public utilities companies

Steam - produced by activities power plants

5. Facility Investment

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

Table 5.1: **Capital Improvement Expenditure**

Project	Description	Fund Year	Value ($K)
C18-858	CONST WEIGHT TEST BLDG Q AREA	FY88	189
C13-86S	STEAM PLANT METER EXPORT SYSTEM	FY88	92
C19-86S	SPRINKLER BOOSTER Z-309	FY88	110
C14-86B	METAL TREATMENT SYS NM-59	FY88	116
C11-85B	RENOV TOOL ROOM	FY88	128
C10-86B	A/C P-71	FY88	100
16-86E	SPA BUS TIES	FY88	90
C9-86W	WATER LINE SP AREA WAREHOUSE	FY88	75
RC52-85E	M/R STR LIGHTS N AREA	FY88	32
RC35-87S	UPGRADE B/W DW	FY89	30
C19-86S	SPRINKLER BOOSTER Z-309	FY89	110
C14-86B	METAL TREATMENT SYS NM-59	FY89	116
OH-001	CIRCUITS FOR TRASH COMPACTORS	FY89	105
CR3-88BJ	ALTER & RPRS Z-93	FY89	28
C9-86W	WATER LINE SP AREA WAREHOUSE	FY89	111
C8-85W	MODIFY PUMPING STATION	FY89	171
RC5-82E	SCADA SYSTEM P-1	FY89	147

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Project	Description	Fund Year	Value ($K)
RC36-87E	FLAG QTRS	FY89	18
P-003	NATURAL GAS CONVERSION	FY89	329
RC35-85E	RPL PRIN DIST SYS W-143	FY89	150
C8-84E	INSTL STR LIGHTS NAS	FY90	195
OH-002	ERECT FAC FOR FORKLIFTS SDA-215	FY90	44
RC6-90	RENOV OFFICE SPACE CODE 200	FY90	92
RC6-90	RENOVATION CODE 400	FY90	51
OH-003	ACCESS ROAD FOR P-1	FY90	15
RC11-90	SEWAGE LIFT STATION CARPER	FY91	130
C1-90	OIL SPILL FACILITY	FY91	160
RC1-90	RENOV ENVIRON LAB	FY91	105
C5-88T	TELEPHONE DUCTS CEP 151	FY91	134
C18-85	WEIGHT TEST BLDG	FY91	195
P-837	ELECTRICAL DISTR. IMPROV.	FY91	3,454
RC6-90	RENOV OFFICE AREAS Z-140	FY92	228
RC13-90	EXTERIOR IMPROVEMENTS P-1	FY92	36
OH-004	NAT GAS HEATING FLAG QUARTERS	FY92	51
RC5-91	BLR PARTS STORAGE FACILITY	FY92	224
*C2-92	UPGRD STR LIGHTS DC & 3RD	FY92	175
*RC12-91	TANK FARM ENCL OIL SPILL	FY92	278
P-844A	STEAM PLANT IMPROVEMENTS, DEMINERALIZERS	FY92	3,140
P-885	NATURAL GAS CONVERSION, BOILER 60	FY92	350
P-886	NATURAL GAS CONVERSION BOILER 62	FY92	350
*C01-91	LP-179 SHIPBOARD WASTE	FY93	232

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Project	Description	Fund Year	Value ($K)
C05-93	HW ACCUMULATION SITE	FY93	130
90-4429	P-1 IMPROVEMENTS	FY93	90
C5-93	VA BCH SITE UPGRADE	FY93	165
*93-5408	TRUCK WASH FACILITY	FY93	36
*OH-005	AST W/ PETROVEND OCEANA	FY93	30
*RC17-92E	ELEC SRV SP-85	FY93	33
*RC42-87	5KV REPL LRBC	FY93	61
*C04-94	SOIL STRGE SLAB Q-AREA	FY93	36
P-236	FUEL OIL LINE	FY93	3,614
P-844	STEAM DIST. IMPROVEMENTS	FY93	1,241
P-874	HEATING PLANT BLDG.	FY93	1,160
P-2184	COMMUNITY CENTER, HEWITT FARMS	FY93	400
P5079	COMMUNITY CENTER, CAMP ALLEN	FY93	430
OH-006	MACHINERY BLDG P-71	FY93	60
C13-94	LOAD DOCK EXT SDA 215	FY94	27
R23-91	P-76 ADDITION (STORAGE)	FY94	225
94-036	P-2 DEGASIFIER	FY94	300
94-031	OIL SPILL BERM Z-309	FY94	65
94-030	OIL SPILL BERM SR-85	FY94	75
P822	STEAM DISTRIBUTION IMPROV. INSULATION	FY94	2,027
*P-826	AUX. ELECTRICAL DIST., PIERS	FY94	1,161
*P830	TRASH RECYLCLING FACILITY	FY94	5,400
OH-007	BLDG ADDITION X-275	FY94	300

* In progress

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

Table 5.2: **Planned Capital improvements**

Project	Description	Fund Year	Value ($K)
C14-94	FLAMABLE STORAGE BLDG LC	FY95	200
93-008	ASBESTOS FACILITY	FY95	300
OH-010	RENOVATE Q-84	FY95	100
OH-011	WAREHOUSE OFFICE X-275	FY95	40
RC7-92	LINE REPAIR PIER 2	FY95	54
C7-91E	STRT LIGHTS MD & HUGHES	FY95	198
OH-012	INSTALL SUBSTA PIER 4 NNSY	FY95	250
OH-013	STORAGE RACKS X-275 ADDITION	FY95	62
93-011	LAB EXPANSION	FY95	100
C31-85	SUBSTA ELEC TIE CKT OCEANA	FY96	30
94-004	CONSTR 12" WATER MAIN OCEANA	FY96	270
CP4-93	WATER LINE AMPHIB DR L.C.	FY96	258
C15-91	ALT PWR BLDG TO BLD 9 NNSY	FY96	300
OH-013	INST SUBSTA PIER 4 NNSY	FY96	50
93-011	LAB EXPANSION	FY96	300
93-009	ASBESTOS PAVE/STORM	FY96	100
CR4-88	NS PILOT WIRE	FY96	185
C31-85	SUBSTA ELEC TIE CKT OCEANA	FY97	263
RC8-92	DEMO COAL HANDLING EQUIP	FY97	108
OH-014	REHAB A-80	FY97	154
OH-015	VAN PROGRAM STORAGE BLDG	FY97	220
93-012	ENVIRONMENTAL ADMIN UPGRADE	FY97	200

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Project	Description	Fund Year	Value ($K)
93-011	LAB EXPANSION	FY97	200

5. Facility Investment, continued

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

Table 5.3: **Planned BRAC Capital Improvements**

Project	Description	Fund Year	Value
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

5. Facility Investment, continued

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

Table 5.4: **Historic Investment Summary**

Investment Category	$ K
04 OTHER OPS	12,201
08 OTHER MAINT/PROD	4,068
12 OTHER SUPPLY/STAG	898
14 ADMINISTRATION	5,347
17 UTILITIES	195,282
18 REAL ESTATE & GRNDS	206
Other (specify)	
Equipment (other than Class 2)	19,701
Activity TOTAL	237,703

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

Total planned Investments = $ 401,053 K

5. Facility Investment, continued

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

Table 5.6: **Facility Deficiencies**

Deficiency	Cost to Correct ($ K)	Result of Corrections
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Costs

6. Labor Rates and Expenses

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

Table 6.1: **Average Labor Rate**

	FY 1993	FY 1997
Average Direct Labor Rate (less materials)	20.24	22.73
Production Expense	11.11	8.47
Overhead (G&A)	5.13	5.05
Fully Burdened Labor Cost	36.48	36.25

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

Table 6.2: **Expense Comparisons**

Fiscal Year	G&A % of Total Expenses	Net Operating Results ($ K)
1989	5.6%	~~($6,023)~~ ($2885) TLS
1990	5.7%	$6,564
1991	TLS 6.7 ~~6.6%~~	($1,188)
1992	6.0%	~~$ 505~~ $6832 TLS
1993	TLS 4.7 ~~4.9%~~	$1,148

Teresa L. Smith
Code 1324
7-7-94

Strategic Concerns

7. Mobilization Capability

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

PWC's responsibility is to provide maintenance, utilities, housing, engineering, environmental and transportation services in direct support to the fleet or to their support shore facilities. This activity stands ready to provide this support in peace or wartime.

8. Manpower and Recruiting Issues

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

Table 8.1: **Recruiting Issues**

Position	Average Recruitment Time (months)
Environmental Engineers	3
Engineers/Architects (all other)	3
Contract Specialists	2
High Voltage Electricians	2
N/A	N/A
N/A	N/A
N/A	N/A

Strategic Concerns

9. Natural Inhibitors to Operations

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

Table 9.1.a: **Impact on Operations**

	January	February	March	April	May	June
Average % Schedule Interrupted	N/A	N/A	N/A	N/A	N/A	N/A

Table 9.1.b: **Impact on Operations**

	July	August	September	October	November	December
Average % Schedule Interrupted	N/A	.5%	1%	N/A	N/A	N/A

Location

10. Proximity to Customers

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

Table 10.1: **Customer Locations**

Major Customer	Distance to:		Comments
	Main Complex (miles)	Nearest Satellite Facility (miles)	
NAVAL STATION	0	0	
NORFOLK NAVAL SHIPYARD	16	0	
NAVDEP	3	0	
NAVAL AIR STATION	3	0	
HEDSUPPACT	3	1	
LITTLE CREEK AMPHIB BASE	7	0	
CINCLANTFLT	3	0	Zero mile indicates co-location

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

Activity name: North West Radio Station Distance: 34 miles
Driving Time: 65 minutes

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

Activity name: Yorktown Naval Weapons Distance: 40 miles
Driving Time: 45 minutes

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10.4 Identify the closest non-DON DOD activity that is not serviced by you.

Activity name: US ARMY TRANSPORTATION CENTER, Ft. Eustis Distance: 40 miles

Driving Time: 45 minutes

Environment and Encroachment

11. Environmental Considerations

11.1 Identify all environmental restrictions to expansion at your activity.

The Hampton Roads area is classified as a non-attainment zone for NOx (Nitrous Oxides). In order to acquire new emission sources, we must offset emissions with existing sources.

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

Since PWC is not a Class One property holder, this question is not appropriate for PWC to answer.

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

Building W-316 is a one year PCB storage facility with an enclosed storage area equal to 2600 square feet. SDA-215 is a one year temporary storage facility for hazardous waste with a capacity to store 131,340 gallons of hazardous materials/waste. PWC also maintains 29 hazardous waste accumulation and satellite sites that are listed as follows:

11.3 Continued

Navy Public Works Center, Norfolk
Hazardous Waste Accumulation Sites

PWC Code	Site Location	Building	Type of Site	Shop Function
215	Norfolk Naval Shipyard	39	Satellite	Carpentry
215	Naval Medical Command, Portsmouth	273	Satellite	Hospital Maintenance
215	Norfolk Naval Shipyard	59	Satellite	Maintenance
216	Norfolk Naval Shipyard	174	Satellite	Power Plant
217.2	Norfolk Naval Shipyard	236	Satellite	Vehicle Maintenance
217.2	Norfolk Naval Shipyard	212	Satellite	Forklift Battery Repair
217.2	Naval Medical Command, Portsmouth	107	Satellite	Vehicle Maintenance
217.2	Naval Air Station, Oceana	830	Satellite	Vehicle Maintenance
235.1	Naval Amphibious Base, Little Creek	3165	Satellite	Refrigeration Shop
235.2	Naval Amphibious Base, Little Creek	3165	Satellite	Machine/Welding
235.3	Naval Amphibious Base, Little Creek	3165	Satellite	Structural Maintenance
225.2	Fleet Combat Training Center, Dam Neck	526	Satellite	Maintenance
227	Fleet Combat Training Center, Dam Neck	527	Satellite	Vehicle Maintenance
237	Naval Amphibious Base, Little Creek	3661	Satellite	Vehicle Maintenance
772	Norfolk Naval Base	A-81	Satellite	Vehicle Maintenance
774	U.S. Army Transportation Div., Fort Story	758	Satellite	Vehicle Maintenance
777	Norfolk Naval Base	A-80	Satellite	Heavy Equipment Repair
775	Norfolk Naval Base	V-136	Satellite	Forklift Repair HW storage
225	Naval Air Station, Oceana	830	90-Day	90-Day HW Accumulation
501	Norfolk Naval Base	Z-93	90-Day	Zone 1 Maintenance

11.3 Continued page 2

502	Norfolk Naval Base	SP-233	90-Day	Zone 2 Maintenance
503	Norfolk Naval Base	CA-14	90-Day	Zone 3 Maintenance
504	Norfolk Naval Base	Q-72	90-Day	Barge Repair
505	Norfolk Naval Base	NM-110	90-Day	Van Repair
506	U.S. Army Transportation Div., Fort Story	756	90-Day	Maintenance
913	Norfolk Naval Base	LP-178	90-Day	IWTP
915	Naval Amphibious Base, Little Creek	106	90-Day	90-Day HW Accumulation
942	Norfolk Naval Base	Q-50	90-Day	90-Day HW Accumulation
914	Norfolk Naval Base	Q-50	Oil Recovery	Oil Recovery

12. Encroachment Considerations

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

Table 12.1: **Encroachments of Record**

Encroachments	Date Recorded	Current Status
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Quality of Life

13. Military Housing - Family Housing

13.1 Do you have mandatory assignment to on-base housing? No

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

Table 13.2: **Available Military Family Housing**

Type of Quarters	Number of Bedrooms	Total number of units	Number Adequate	Number Substandard	Number Inadequate
Officer	4+	199	199	0	0
Officer	3	197	195	2	0
Officer	1 or 2	15	14	1	0
Enlisted	4+	870	870	0	0
Enlisted	3	889	863	26	0
Enlisted	1 or 2	944	723	221	0
Mobile Homes	0	0	0	0	0
Mobile Home lots	0	0	0	0	0

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

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

13. Military Housing - Family Housing, continued

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

Table 13.4: **Military Housing Waiting List**

Pay Grade	Number of Bedrooms	Number on List	Average Wait
O-6/7/8/9	1	0	0
	2	0	8-10 MONTHS
	3	0	8-10 MONTHS
	4+	14	12-14 MONTHS
O-4/5	1	0	0
	2	1	9-12 MONTHS
	3	62	12-15 MONTHS
	4+	33	10-16 MONTHS
O-1/2/3/CWO	1	0	4-9 MONTHS
	2	3	4-9 MONTHS
	3	3	6-15 MONTHS
	4+	16	12-14 MONTHS
E7-E9	1	0	2-9 MONTHS
	2	11	6-14 MONTHS
	3	67	7-13 MONTHS
	4+	63	12-24 MONTHS
E1-E6	1	0	2-9 MONTHS
	2	1080	6-14 MONTHS
	3	778	7-13 MONTHS
	4+	534	12-24 MONTHS

13. Military Housing - Family Housing, continued

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

Table 13.5: **Housing Demand Factors**

	Top Five Factors Driving the Demand for Base Housing
1	High cost for junior enlisted, 3 or more bedrooms
2	Travel time/distance
3	Convenience to Base facilities/child care
4	Sense of safety/security (undesirable high crime areas)
5	Area has large deployable sector Shared comraderie/problems/expenses

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

32 %

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

Table 13.7: **Family Housing Utilization**

Type of Quarters	Utilization Rate (%)
Adequate	98.2
Substandard	97.4
Inadequate	N/A

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13.8 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?

(1) Yes.

(2) 600 substandard units in Ben Moreell housing are being demolished; 388 units will be rebuilt on the same site. Some quarters have been taken off line in Camp Allen and Torgerson sites for planned revitalization projects scheduled FY95-97 time frame. Some units have been taken off line in Carper housing due to unsafe structural conditions, as identified by Engineering Structural inspection.

Quality of Life

14. Military Housing - Bachelor Quarters

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

Table 14.1: **BEQ Utilization**

Type of Quarters	Utilization Rate
Adequate	N/A*
Substandard	N/A*
Inadequate	N/A*

*Answered by Naval Station, Norfolk

14.2 As of 31 March 1994, have you experienced much of a change since FY 1993? If so, why? If occupancy is under 95% (or vacancy over 5%), is there a reason? N/A Answered by Naval Station, Norfolk

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

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

AOB = N/A

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

Table 14.4: **Reasons for Geographic Separation (BEQ)**

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

ACTIVITY: N00187

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

GB Off-Base = N/A

14. Military Housing - Bachelor Quarters, continued

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

Table 14.6: **BOQ Utilization**

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

14.7 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? N/A

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

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

AOB = N/A

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

Table 14.9: **Reasons for Geographic Separation (BOQ)**

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

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

GB Off-Base = N/A

Quality of Life

15. MWR Facilities

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

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

LOCATION N/A DISTANCE N/A

Table 15.1.a: **MWR Facilities Summary**

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

Included in Naval Station/Site response

ACTIVITY: N00187

15. MWR Facilities, continued

Table 15.1.b: **MWR Facilities Summary**

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

Included in Naval Station/Site response

15.2 Is your library part of a regional interlibrary loan program? Yes / No

N/A

Quality of Life

16. Base Family Support Facilities and Programs

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

Table 16.1: **Child Care Availability**

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

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

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

Included in Naval Station/Site response

16. Base Family Support Facilities and Programs, continued

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

16.4 How many "certified home care providers" are registered at your base?# = ___N/A

16.5 Are there other military child care facilities within 30 minutes of the base?/ No N/A

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

16. Base Family Support Facilities and Programs, continued

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

Table 16.6: **Available Services**

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

17. Metropolitan Areas

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

Table 17.1: **Proximate Metropolitan Areas**

City	Distance (Miles)
Virginia Beach	19
Chesapeake	25
Portsmouth	16

Quality of Life

18. VHA Rates

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

Table 18.1: **VHA Rates**

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

Quality of Life

19. Off-base Housing Rental and Purchase

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

Table 19.1: **Recent Rental Rates**

Type of Rental	Average Monthly Rent		Average Monthly Utilities Cost
	Annual High	Annual Low	
Efficiency	535	265	75
Apartment (1-2 Bedroom)	*1300	229	141
Apartment (3+ Bedroom)	900	450	201
Single Family Home (3 Bedroom)	1600	460	213
Single Family Home (4+ Bedroom)	1500	595	260
Town House (2 Bedroom)	1150	320	130
Town House (3+ Bedroom)	1250	575	180
Condominium (2 Bedroom)	1400	500	123
Condominium (3+ Bedroom)	1400	600	192

*Many of these high cost units are located in the resort area.

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

Table 19.2: **Rental Occupancy Rate**

Type Rental	Occupancy Rate (%)
Efficiency	92.16
Apartment (1-2 Bedroom)	96.00
Apartment (3+ Bedroom)	96.00
Single Family Home (3 Bedroom)	96.00
Single Family Home (4+ Bedroom)	99.00
Town House (2 Bedroom)	92.00
Town House (3+ Bedroom)	92.00
Condominium (2 Bedroom)	88.00

Condominium (3+ Bedroom)	88.00

19. Off-base Housing Rental and Purchase, continued

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

Table 19.3: **Regional Home Costs**

Type of Home	Median Cost
Single Family Home (3 Bedroom)	$625.00
Single Family Home (4+ Bedroom)	700.00
Town House (2 Bedroom)	550.00
Town House (3+ Bedroom)	600.00
Condominium (2 Bedroom)	550.00
Condominium (3+ Bedroom)	626.00

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

Table 19.4: **Housing Availability**

Month	Number of Bedrooms		
	2	3	4+
January	14	27	4
February	17	26	5
March	20	45	4
April	28	53	9
May	25	49	6
June	49	58	13
July	48	62	8
August	32	69	16
September	56	51	18
October	38	54	12
November	40	61	10
December	37	44	16

19. Off-base Housing Rental and Purchase, continued

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

Location, Number of Bedrooms, Siding type (brick, vinyl, wood), school system, Crime rates, BAQ, VHA alignment with payment amount.

20. Sea-Shore Opportunities

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

Table 20.1: **Sea Shore Opportunities**

Rating	# Sea Billets in Local Area	# Shore Billets in Local Area
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

21. Commuting Distances

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

Table 21.1: **Commuting Distances**

Location	% Employees	Distance (mi)	Time (min)
VIRGINIA BEACH (ZIP 23464)	6.2	16	35
CHESAPEAKE (ZIP 23320)	6.0	18	40
VIRGINIA BEACH (ZIP 23452)	5.8	17	45
NORFOLK (ZIP 23503)	5.0	3	25

VIRGINIA BEACH (ZIP 23456)	4.6	20	50

Quality of Life

22. Regional Educational Opportunities

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

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

Table 22.1: **Educational Opportunities**

Institution	Type	Grade Level(s)	Special Education Available	Annual Enrollment Cost/Student	SAT/ ACT Score	% HS to College	Source of Info Footnote
Chesapeake, VA	Public	Elem, Middle, High	Yes	$4,589	831	71%	
Hampton, VA	Public	Elem, Middle, High	Yes	4,498	833	74%	1
Norfolk, VA	Public	Elem, Middle, High	Yes	5,164	769	64%	2
Portsmouth, VA	Public	Elem, Middle, High	Yes	4,712	744	71%	
Suffolk, VA	Public	Elem, Middle, High	Yes	4,365	742	44%	3
Virginia Beach, VA	Public	Elem, Middle, High	Yes	3,942	889	77%	
Chesapeake, VA	Private	1-8	1,198 (6%)				4

Hampton, VA	Private	1-8	982 (6%)				4
Norfolk, VA	Private	1-8	2,173 (8%)				4
Portsmouth, VA	Private	1-8	878 (6%)				4
Suffolk, VA	Private	1-8	650 (10%)				4
Virginia Beach, VA	Private	1-8	2,820 (6%)				4

1. Published 1992 data is used for Hampton's SAT and % HS grads to higher education.
2. Published 1992 data is used for Norfolk %HS grads to higher education.
3. Data for Suffolk City School is for class of 1992.
4. Students enrolled and as % of total enrolled in specified grades 1992 "Input Data: Population Estimates" Center for Public Service, University of Virginia, November 24, 1993.

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22. Regional Educational Opportunities, continued

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

Table 22.2: **Off-Base Educational Programs**

Institution	Type Classes	Program Type				
		Adult High School	Vocational/ Technical	Undergraduate		Graduate
				Courses only	Degree Program	
Christopher Newport University	Day	No	No	No	Yes	Yes
	Night	No	No	No	Yes	Yes
College of William & Mary	Day	No	No	No	Yes	Yes
	Night	No	No	No	Yes	Yes
Commonwealth College	Day	No	No	Yes	Yes	No
	Night	No	No	Yes	Yes	No
Eastern Virginia Medical School	Day	No	No	No	No	Yes
	Night	No	No	No	No	Yes
Norfolk State University	Day	No	Yes	yes	Yes	Yes
	Night	No	Yes	Yes	Yes	Yes
Old Dominion University	Day	No	No	No	Yes	Yes
	Night	No	No	No	Yes	Yes
Patrick Henry College	Day	Yes	Yes	Yes	Yes	No
	Night	Yes	Yes	Yes	Yes	No

Regent University	Day	No	No	No	No	Yes
	Night	No	No	No	No	Yes
Thomas Nelson Com College	Day	Yes	Yes	Yes	Yes	No
	Night	Yes	Yes	Yes	Yes	No
Tidewater Com College	Day	Yes	Yes	Yes	Yes	No
	Night	Yes	Yes	Yes	Yes	No
Western Wesleyan College	Day	No	No	Yes	Yes	No
	Night	No	No	Yes	Yes	No
Hampton University	Day	No	No	No	Yes	Yes
	Night	No	No	No	Yes	Yes

22. Regional Educational Opportunities, continued

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

Table 22.3: **On-Base Educational Programs**

Institution	Type Classes	Program Type				
		Adult High School	Vocational/ Technical	Undergraduate		Graduate
				Courses only	Degree Program	
Central Michigan University	Day	No	No	No	No	No
	Night	No	No	No	No	Yes
	Corres-pondence	No	No	No	No	No
Old Dominion University	Day	No	No	No	No	No
	Night	No	No	No	No	Yes
	Corres-pondence	No	No	No	No	No
Tidewater Community College	Day	No	No	No	No	No
	Night	No	No	Yes	Yes	No
	Corres-pondence	No	No	No	No	No
	Day					
	Night					
	Corres-pondence					

Quality of Life

23. Spousal Employment Opportunities

23.1 Provide the following data on spousal employment opportunities.

Table 23.1: **Spouse Employment**

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

24. Medical / Dental Care

24.1 Do your active duty personnel have any difficulty with access to medical or dental care, in either the military or civilian health care system? Develop the why of your response.

N/A

24.2 Do your military dependents have any difficulty with access to medical or dental care, in either the military or civilian health care system? Develop the why of your response.

N/A

Quality of Life

25. Crime Rate

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

Table 25.1.a: **Local Crime Rate**

Crime Definitions	FY 1991	FY 1992	FY 1993
1. Arson (6A)			
Base Personnel - military	N/A	0	6
Base Personnel - civilian	N/A	6	1
Off Base Personnel - military	N/A	12	10
Off Base Personnel - civilian	N/A	N/A	N/A
2. Blackmarket (6C)			
Base Personnel - military	N/A	0	0
Base Personnel - civilian	N/A	0	0
Off Base Personnel - military	N/A	0	0
Off Base Personnel - civilian	N/A	N/A	N/A
3. Counterfeiting (6G)			
Base Personnel - military	N/A	1	0
Base Personnel - civilian	N/A	0	1
Off Base Personnel - military	N/A	0	0
Off Base Personnel - civilian	N/A	N/A	N/A
4. Postal (6L)			
Base Personnel - military	N/A	2	0
Base Personnel - civilian	N/A	2	0
Off Base Personnel - military	N/A	0	0
Off Base Personnel - civilian	N/A	N/A	N/A

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25. Crime Rate, continued

Table 25.1.b: **Local Crime Rate**

Crime Definitions	FY 1991	FY 1992	FY 1993
5. Customs (6M)			
Base Personnel - military	N/A	0	0
Base Personnel - civilian	N/A	0	0
Off Base Personnel - military	N/A	0	0
Off Base Personnel - civilian	N/A	N/A	N/A
6. Burglary (6N)			
Base Personnel - military	N/A	72	65
Base Personnel - civilian	N/A	0	51
Off Base Personnel - military	N/A	23	31
Off Base Personnel - civilian	N/A	N/A	N/A
7. Larceny - Ordnance (6R)			
Base Personnel - military	N/A	0	0
Base Personnel - civilian	N/A	0	0
Off Base Personnel - military	N/A	0	0
Off Base Personnel - civilian	N/A	N/A	N/A
8. Larceny - Government (6S)			
Base Personnel - military	N/A	184	127
Base Personnel - civilian	N/A	145	140
Off Base Personnel - military	N/A	0	0
Off Base Personnel - civilian	N/A	N/A	N/A

25. Crime Rate, continued

Table 25.1.c: **Local Crime Rate**

Crime Definitions	FY 1991	FY 1992	FY 1993
9. Larceny - Personal (6T)			
Base Personnel - military	N/A	1023	791
Base Personnel - civilian	N/A	205	169
Off Base Personnel - military	N/A	105	51
Off Base Personnel - civilian	N/A	0	0
10. Wrongful Destruction (6U)			
Base Personnel - military	N/A	808	776
Base Personnel - civilian	N/A	446	423
Off Base Personnel - military	N/A	34	29
Off Base Personnel - civilian	N/A	0	0
11. Larceny - Vehicle (6V)			
Base Personnel - military	N/A	121	100
Base Personnel - civilian	N/A	22	17
Off Base Personnel - military	N/A	3	1
Off Base Personnel - civilian	N/A	0	0
12. Bomb Threat (7B)			
Base Personnel - military	N/A	25	11
Base Personnel - civilian	N/A	5	3
Off Base Personnel - military	N/A	2	0
Off Base Personnel - civilian	N/A	N/A	N/A

25. Crime Rate, continued

Table 25.1.d: **Local Crime Rate**

Crime Definitions	FY 1991	FY 1992	FY 1993
13. Extortion (7E)			
Base Personnel - military	N/A	0	0
Base Personnel - civilian	N/A	0	0
Off Base Personnel - military	N/A	0	0
Off Base Personnel - civilian	N/A	N/A	N/A
14. Assault (7G)			
Base Personnel - military	N/A	141	107
Base Personnel - civilian	N/A	219	173
Off Base Personnel - military	N/A	331	330
Off Base Personnel - civilian	N/A	N/A	N/A
15. Death (7H)			
Base Personnel - military	N/A	9	4
Base Personnel - civilian	N/A	3	5
Off Base Personnel - military	N/A	17	16
Off Base Personnel - civilian	N/A	N/A	N/A
16. Kidnapping (7K)			
Base Personnel - military	N/A	0	0
Base Personnel - civilian	N/A	2	1
Off Base Personnel - military	N/A	9	2
Off Base Personnel - civilian	N/A	N/A	N/A

25. Crime Rate, continued

Table 25.1.e: **Local Crime Rate**

Crime Definitions	FY 1991	FY 1992	FY 1993
18. Narcotics (7N)			
Base Personnel - military	N/A	12	15
Base Personnel - civilian	N/A	11	13
Off Base Personnel - military	N/A	44	33
Off Base Personnel - civilian	N/A	N/A	N/A
19. Perjury (7P)			
Base Personnel - military	N/A	0	0
Base Personnel - civilian	N/A	0	0
Off Base Personnel - military	N/A	0	0
Off Base Personnel - civilian	N/A	N/A	N/A
20. Robbery (7R)			
Base Personnel - military	N/A	32	17
Base Personnel - civilian	N/A	6	3
Off Base Personnel - military	N/A	8	0
Off Base Personnel - civilian	N/A	N/A	N/A
21. Traffic Accident (7T)			
Base Personnel - military	N/A	801	712
Base Personnel - civilian	N/A	398	389
Off Base Personnel - military	N/A	444	382
Off Base Personnel - civilian	N/A	N/A	N/A

25. Crime Rate, continued

Table 25.1.f: **Local Crime Rate**

Crime Definitions	FY 1991	FY 1992	FY 1993
22. Sex Abuse - Child (8B)			
Base Personnel - military	N/A	0	0
Base Personnel - civilian	N/A	5	9
Off Base Personnel - military	N/A	20	5
Off Base Personnel - civilian	N/A	N/A	N/A
23. Indecent Assault (8D)			
Base Personnel - military	N/A	1	2
Base Personnel - civilian	N/A	5	6
Off Base Personnel - military	N/A	89	21
Off Base Personnel - civilian	N/A	N/A	N/A
24. Rape (8F)			
Base Personnel - military	N/A	4	0
Base Personnel - civilian	N/A	6	2
Off Base Personnel - military	N/A	20	30
Off Base Personnel - civilian	N/A	N/A	N/A
25. Sodomy (8G)			
Base Personnel - military	N/A	0	2
Base Personnel - civilian	N/A	0	1
Off Base Personnel - military	N/A	14	4
Off Base Personnel - civilian	N/A	N/A	N/A

Note: The above Crime data was provided by COMNAVBASE Norfolk Security Department. Similar data has been reported by the appropriate site activity serviced by PWC Norfolk, i.e., Oceana Naval Air Station, Norfolk Naval Shipyard, etc. In addition any user of this data should be advised that this data is provided to the best of

our knowledge, but, there are certain instances where we do not have access to information.

ACTIVITY LISTING :

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

HEADQUARTERS LISTING:

Type	Title
PWC	Commander, Naval Facilities Engineering Command

NORFOLK

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

MAJOR CLAIMANT LEVEL

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

Jack E Buffington
Signature

COMMANDER
Title

7/7/94
Date

NAVAL FACILITIES ENGINEERING COMMAND
Activity

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

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

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

J B Greene Jr
Signature

ACTING
Title

12 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

CAPT THOMAS J. TANNER
NAME (Please type or print)

Signature

COMMANDING OFFICER
Title

7/5/94
Date

NAVY PUBLIC WORKS CENTER
9742 MARYLAND AVENUE
NORFOLK, VA 23511-3095
Activity

Activity: NPWC NORFOLK

Primary UIC: N00187

1. ENDANGERED/THREATENED SPECIES AND BIOLOGICAL HABITAT

1a. N/A

1b. N/A

1c. N/A

1d. N/A

1e. N/A

2. WETLANDS

2a. N/A (This area reported by responsible land owner)

2b. N/A

2c. No

3. CULTURAL RESOURCES

3a. Yes - JAMESTOWN EXPOSITION HOMES

FLAG QUARTERS	DESIGNATOR
F-2	DELAWARE HOUSE
F-32	MISSOURI HOUSE
F-33	OHIO HOUSE
F-34	GEORGIA HOUSE
F-35	WEST VIRGINIA HOUSE
G-8	ILLINOIS HOUSE
G-30	VIRGINIA HOUSE
G-31	MARYLAND HOUSE
G-45	NORTH DAKOTA HOUSE
M-3	NEW HAMPSHIRE HOUSE
M-5	CONNECTICUT HOUSE
M-6	MICHIGAN HOUSE
M-14	VERMONT HOUSE

Activity: NPWC NORFOLK

Primary UIC: N00187

3b. No

3c. N/A

4. ENVIRONMENTAL FACILITIES

4a. N/A

4b. N/A

4c. YES

Facility/Type of Operation	Permitted Capacity	Ave Daily Throughput	Maximum Capacity	Permit Status
RDF/STEAM PLANT	2160 TONS PER DAY	900 TON PER DAY	2160 TONS PER DAY	VA DEQ PERMIT 482

4d. YES

ID/Location of WWTP	Permitted Capacity	Ave Daily Discharge Rate	Maximum Capacity	Permit Status	Level of Treatment/ Year Built
FENTRESS AUXILARY AIRFIELD	6000 GPD	6000 GPD	12000 GPD	IN COMPL	PRIMARY - USED FOR IRRIGATION

4e. NAVAL BASE NORFOLK - Reported on COMNAVBASE Report
LITTLE CREEK AMPHIBIOUS BASE, VIRGINIA BEACH - HRSD PERMIT # 0208 FLOW: 35,000 GPD POLLUTANTS: AS, CU, NI, ZN, PHENOLIC, PH,
CONSENT ORDER
NAS OCEANA - Reported on Oceana Report
FLEET COMBAT TRAINING CENTER DAM NECK - Reported on Fleet Combat Training Center Report, Dam Neck, Virginia Beach
NORFOLK NAVAL SHIPYARD - Reported on NNSY Report
NAVY MEDICAL CENTER, PORTSMOUTH - Reported on Navy Medical Center, Portsmouth Report

4f. Yes

ID/Location of IWTP	Type of Treatment	Permitted Capacity	Ave Daily Discharge Rate	Maximum Capacity	Permit Status
NAVAL AVIATION DEPOT	CHEMICAL/ PHYSICAL	150K/DAY	70K	280K/DAY	IN COMPL
NORFOLK NAVAL SHIPYARD	CHEMICAL/ PHYSICAL	200K/DAY	30K	140K/DAY	IN COMPL

4g. No

4h. Yes

ID/Location of WTP	Operating (GPD)		Method of Treatment	Maximum Capacity	Permit Status
	Permitted Capacity	Daily Rate			
PWSID 3550615/ FENTRESS AUXILIARY AIRFIELD	N/A	6000	FILTRA-TION CHLORI-NATION	72,000 GPD	IN COMPL

4i.

4j. No

4k. N/A

4l. N/A

4m. No

4n. N/A

4o. N/A

5. AIR POLLUTION

5a. Hampton Roads Intrastate
No

5b.
Site: All PWC Sites AQCA: Hampton Roads Intrastate

Pollutant	Attainment	Non-Attainment	Maintenance	Target Attainment Year[1]	Comments[2]
CO	YES	N/A	N/A	N/A	N/A
Ozone	NO	Marginal (See Note)	N/A	Nov. 15, 1993	Attainment dependent on EPA requirements
PM-10	YES	N/A	N/A	N/A	N/A
SO_2	YES	N/A	N/A	N/A	N/A
NO_2	YES	N/A	N/A	N/A	N/A
Pb	YES	N/A	N/A	N/A	N/A

[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.

Note: The EPA has classified the Hampton Roads area as a marginal nonattainment area for ozone, the least severe of the nonattainment designations. In accordance with EPA regulations, Hampton Roads did not meet marginal requirements by November 15, 1993, the CommonWealth of Virginia is anticipating notice from the WPA as to the possible reclassification of Hampton Roads to a moderate nonattainment area. If a reclassification does occur, the EPA will assist the CommonWealth of Virginia in developing a time table and plan of action for the reduction of ozone in the Hampton Roads area.

5c.

	Emission Sources (Tons/Year)				
Pollutant	Permitted Stationary	Personal Automobiles	Aircraft Emissions	Other Mobile	Total
CO	652.63	N/A	N/A	N/A	652.63
NOx	1361.03	N/A	N/A	N/A	1361.03
VOC	279.07	N/A	N/A	N/A	297.07
PM10	126.48	N/A	N/A	N/A	126.48

Source Document: 1990 Source Registration Update

PERMITTED STATIONARY SOURCES
SUMMARY OF 1990 EMISSIONS PER SITE

5c. (CONTINUED) SOURCES AND CALCULATIONS

PWC SITE	CO (TONS/YEAR)	NOx (TONS/YEAR)	VOC (TONS/YEAR)	PM10 (TONS/YEAR)
Dam Neck	3.24	12.93	0.26	1.56
*Little Creek	0	0	0	0
Norfolk Naval Base	75.31	561.7	6.6	98.47
Oceana	7.2	28.71	0.5	3.36
Portsmouth Naval Hospital	2.81	11.36	0.2	1.18
Refuse Derived Fuel Plant	562.3	726.89	271	18.37
St. Julien's Creek Annex	1.77	19.44	0.40	3.54
TOTAL (TONS/YEAR)	***652.63***	***1361.03***	***279.07***	***126.48***

*No permitted sources

SUMMARY OF 1990 EMISSIONS
NAVY PUBLIC WORKS CENTER
DAM NECK
VIRGINIA BEACH, VIRGINIA
PERMITTED STATIONARY SOURCES

SOURCE	CO (TPY)	NOx (TPY)	VOC (TPY)	PM10 (TPY)	COMMENTS
Boiler No. 1 - Bldg. 529	0.98 (See Calc. A)	3.92 (See Calc. B)	0.08 (See Calc. C)	0.38 (See Calc. D)	Emissions based on the use of #4 Fuel Oil and Natural Gas
Boiler No. 2 - Bldg. 529	1.10 (See Calc. E)	4.39 (See Calc. F)	0.09 (See Calc. G)	0.55 (See Calc. H)	Emissions based on the use of #4 Fuel Oil and Natural Gas
Boiler No. 3 - Bldg. 529	1.16 (See Calc. I)	4.62 (See Calc. J)	0.09 (See Calc. K)	0.63 (See Calc. L)	Emissions based on the use of #4 Fuel Oil and Natural Gas
TOTAL (Tons/Year)	***3.24***	***12.93***	***0.26***	***1.56***	

SUMMARY OF 1990 EMISSIONS
NAVY PUBLIC WORKS CENTER
NORFOLK, VIRGINIA
PERMITTED STATIONARY SOURCES

SOURCE	CO (TPY)	NOx (TPY)	VOC (TPY)	PM10 (TPY)
Boiler No. 55 - Bldg. P-1	3.08 (See Calc. A)	28.19 (See Calc. B)	0.16 (See Calc. C)	3.34 (See Calc. D)
Boiler No. 56 - Bldg. P-1	2.33 (See Calc. E)	22.78 (See Calc. F)	0.13 (See Calc. G)	16.78 (See Calc. H)
Boiler No. 57 - Bldg. P-1	2.73 (See Calc. I)	27.30 (See Calc. J)	0.15 (See Calc. K)	20.16 (See Calc. L)
Boiler No. 58 - Bldg. P-1	9.59 (See Calc. M)	116.20 (See Calc. N)	1.31 (See Calc. O)	8.84 (See Calc. P)
Boiler No. 59 - Bldg. P-1	8.49 (See Calc. Q)	52.51 (See Calc. R)	1.11 (See Calc. S)	12.61 (See Calc. T)
Boiler No. 60 - Bldg. P-1	11.59 (See Calc. U)	71.87 (See Calc. V)	1.53 (See Calc. W)	17.32 (See Calc. X)
Boiler No. 61 - Bldg. P-1	15.24 (See Calc. Y)	46.04 (See Calc. Z)	0.61 (See Calc. AA)	1.81 (See Calc. BB)
Boiler No. 62 - Bldg. P-1	6.34 (See Calc. CC)	75.56 (See Calc. DD)	0.85 (See Calc. EE)	5.73 (See Calc. FF)
Boiler No. 83 - Bldg. NH-200	3.87 (See Calc. GG)	40.89 (See Calc. HH)	0.21 (See Calc. II)	4.62 (See Calc. JJ)

SUMMARY OF 1990 EMISSIONS
NAVY PUBLIC WORKS CENTER
NORFOLK, VIRGINIA
PERMITTED STATIONARY SOURCES

SOURCE	CO (TPY)	NOx (TPY)	VOC (TPY)	PM10 (TPY)
Boiler No. 79 - Bldg. SP-85	2.13 (See Calc. KK)	8.53 (See Calc. LL)	0.08 (See Calc. MM)	0.43 (See Calc. NN)
Boiler No. 80 - Bldg. SP-85	1.76 (See Calc. OO)	7.02 (See Calc. PP)	0.07 (See Calc. QQ)	0.36 (See Calc. RR)
Boiler No. 219 - Bldg. Z-309	2.04 (See Calc. SS)	19.85 (See Calc. TT)	0.10 (See Calc. UU)	2.18 (See Calc. VV)
Boiler No. 220 - Bldg. Z-309	3.27 (See Calc. WW)	32.29 (See Calc. XX)	0.17 (See Calc. YY)	3.55 (See Calc. ZZ)
Boiler No. 1 - Bldg. LP-167	0.08 (See Calc. a)	0.91 (See Calc. b)	0 (See Calc. c)	0.10 (See Calc. d)
Boiler No. 2 - Bldg. LP-167	0.08 (See Calc. e)	0.88 (See Calc. f)	0 (See Calc. g)	0.10 (See Calc. h)
Boiler No. 1 - Pier 12	1.30 (See Calc. i)	5.20 (See Calc. j)	0.05 (See Calc. k)	0.26 (See Calc. l)
Muse Boiler - Pier 12	1.23 (See Calc. m)	4.91 (See Calc. n)	0.05 (See Calc. o)	0.25 (See Calc. p)
Boiler No. 1 - Bldg. H	0.05 (See Calc. q)	0.24 (See Calc. r)	0.01 (See Calc. s)	0.01 (See Calc. t)

SUMMARY OF 1990 EMISSIONS
NAVY PUBLIC WORKS CENTER
NORFOLK, VIRGINIA
PERMITTED STATIONARY SOURCES

SOURCE	CO (TPY)	NOx (TPY)	VOC (TPY)	PM10 (TPY)
Boiler No. 2 - Bldg. H	0.05 (See Calc. u)	0.24 (See Calc. v)	0.01 (See Calc. w)	0.01 (See Calc. x)
Boiler No. 3 - Bldg. H	0.06 (See Calc. y)	0.29 (See Calc. z)	0.01 (See Calc. aa)	0.01 (See Calc. bb)
TOTAL (Tons/Year)	***75.31***	***561.7***	***6.61***	***98.47***

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SUMMARY OF 1990 EMISSIONS
NAVY PUBLIC WORKS CENTER
OCEANA
VIRGINIA BEACH, VIRGINIA
PERMITTED STATIONARY SOURCES

SOURCE	CO (TPY)	NOx (TPY)	VOC (TPY)	PM10 (TPY)	COMMENTS
Boiler No. 1 - Bldg. 601	2.18 (See Calc. A)	8.68 (See Calc. B)	0.17 (See Calc. C)	1.03 (See Calc. D)	Emissions based on the use of #4 Fuel Oil and Natural Gas
Boiler No. 2 - Bldg. 601	2.18 (See Calc. A)	8.68 (See Calc. B)	0.17 (See Calc. C)	1.03 (See Calc. D)	Emissions based on the use of #4 Fuel Oil and Natural Gas
Boiler No. 3 - Bldg. 601	2.18 (See Calc. A)	8.68 (See Calc. B)	0.17 (See Calc. C)	1.03 (See Calc. D)	Emissions based on the use of #4 Fuel Oil and Natural Gas
Boiler No. 1 - Bldg. 4000	0.22 (See Calc. E)	0.89 (See Calc. F)	0.02 (See Calc. G)	0.09 (See Calc. H)	Emissions based on the use of #2 Fuel Oil and Natural Gas
Boiler No. 2 - Bldg. 4000	0.22 (See Calc. E)	0.89 (See Calc. F)	0.02 (See Calc. G)	0.09 (See Calc. H)	Emissions based on the use of #2 Fuel Oil and Natural Gas
Boiler No. 3 - Bldg. 4000	0.22 (See Calc. E)	0.89 (See Calc. F)	0.02 (See Calc. G)	0.09 (See Calc. H)	Emissions based on the use of #2 Fuel Oil and Natural Gas
TOTAL (Tons/Year)	***7.2***	***28.71***	***0.57***	***3.36***	

SUMMARY OF 1990 EMISSIONS
NAVY PUBLIC WORKS CENTER
NAVAL HOSPITAL
PORTSMOUTH, VIRGINIA
PERMITTED STATIONARY SOURCES

SOURCE	CO (TPY)	NOx (TPY)	VOC (TPY)	PM10 (TPY)	COMMENTS
Boiler No. 105 - Bldg. 20	0.71 (See Calc. A)	2.88 (See Calc. B)	0.06 (See Calc. C)	0.30 (See Calc. D)	Emissions based on the use of #6 Fuel Oil and Natural Gas
Boiler No. 106 - Bldg. 20	0.71 (See Calc. A)	2.88 (See Calc. B)	0.06 (See Calc. C)	0.30 (See Calc. D)	Emissions based on the use of #6 Fuel Oil and Natural Gas
Boiler No. 107 - Bldg. 20	0.71 (See Calc. A)	2.88 (See Calc. B)	0.06 (See Calc. C)	0.30 (See Calc. D)	Emissions based on the use of #6 Fuel Oil and Natural Gas
Boiler No. 108 - Bldg. 20	0.68 (See Calc. E)	2.72 (See Calc. F)	0.05 (See Calc. G)	0.28 (See Calc. H)	Emissions based on the use of #6 Fuel Oil and Natural Gas
TOTAL (Tons/Year)	***2.81***	***11.36***	***0.23***	***1.18***	

SUMMARY OF 1990 EMISSIONS
NAVY PUBLIC WORKS CENTER
REFUSE DERIVED FUEL PLANT
PORTSMOUTH, VIRGINIA
PERMITTED STATIONARY SOURCES

SOURCE	CO (TPY)	NOx (TPY)	VOC (TPY)	PM10 (TPY)	COMMENTS
Boiler No. 1 - Bldg. 1515	153.26 (See Calc. A)	200.50 (See Calc. B)	73.13 (See Calc. C)	4.97 (See Calc. D)	Emissions based on the use of Coal and RDF
Boiler No. 2 - Bldg. 1515	156.31 (See Calc. E)	192.93 (See Calc. F)	78.17 (See Calc. G)	5.26 (See Calc. H)	Emissions based on the use of Coal and RDF
Boiler No. 3 - Bldg. 1515	140.56 (See Calc. I)	192.52 (See Calc. J)	64.38 (See Calc. K)	4.41 (See Calc. L)	Emissions based on the use of Coal and RDF
Boiler No. 4 - Bldg. 1515	112.17 (See Calc. M)	140.94 (See Calc. N)	55.32 (See Calc. O)	3.73 (See Calc. P)	Emissions based on the use of Coal and RDF
TOTAL (Tons/Year)	***562.3***	***726.89***	***271.00***	***18.37***	

SUMMARY OF 1990 EMISSIONS
NAVY PUBLIC WORKS CENTER
ST. JULIEN'S CREEK ANNEX
CHESAPEAKE, VIRGINIA
PERMITTED STATIONARY SOURCES

SOURCE	CO (TPY)	NOx (TPY)	VOC (TPY)	PM10 (TPY)	COMMENTS
Boiler No. 1 - Bldg. 283	0	0	0	0	Was not used in 1990
Boiler No. 2 - Bldg. 283	1.77 (See Calc. A)	19.44 (See Calc. B)	0.40 (See Calc. C)	3.54 (See Calc. D)	Emissions based on the use of #5 Fuel Oil
TOTAL (Tons/Year)	**1.77**	**19.44**	**0.40**	**3.54**	

1990 EMISSIONS CALCULATIONS
DAM NECK

All calculations are based on fuel consumed and AP-42 emission factors.

Emissions based on amount of ***fuel burned*** (lb/mmcf or lb/mgal) multiplied by ***emission factor*** and divided by ***2000 lb/ton***

Note:
mgal=thousand gallons
mmcf=million cubic feet

Boiler No. 1 - Bldg. 529

CO Emissions:

A) (No. 4 Fuel Oil) 0 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0 tons/yr
(Natural Gas) 56 mmcf/yr (x) 35 lb/mmcf (/) 2000 lb/ton = 0.98 tons/yr
TOTAL = 0 + 0.98 = ***0.98 TONS/YEAR***

NOx Emissions:

B) (No. 4 Fuel Oil) 0 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0 tons/yr
(Natural Gas) 56 mmcf/yr (x) 140 lb/mmcf (/) 2000 lb/ton = 3.92 tons/yr
TOTAL = 0 + 3.92 = ***3.92 TONS/YEAR***

VOC Emissions:

C) (No. 4 Fuel Oil) 0 mgal/yr (x) 0.2 lb/mgal (/) 2000 lb/ton = 0 tons/yr
(Natural Gas) 56 mmcf/yr (x) 2.8 lb/mmcf (/) 2000 lb/ton = 0.08 tons/yr
TOTAL = 0 + 0.08 = ***0.08 TONS/YEAR***

PM10 Emissions:

D) (No. 4 Fuel Oil) 0 mgal/yr (x) 7 lb/mgal (/) 2000 lb/ton = 0 tons/yr
(Natural Gas) 56 mmcf/yr (x) 13.7 lb/mmcf (/) 2000 lb/ton = 0.38 tons/yr
TOTAL = 0 + 0.38 = ***0.38TONS/YEAR***

Boiler No. 2 - Bldg. 529

CO Emissions:

E) (No. 4 Fuel Oil) 47 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.12 tons/yr
(Natural Gas) 56 mmcf/yr (x) 35 lb/mmcf (/) 2000 lb/ton = 0.98 tons/yr
TOTAL = 0.12 + 0.98 = ***1.10 TONS/YEAR***

NOx Emissions:

F) (No. 4 Fuel Oil) 47 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.47 tons/yr
(Natural Gas) 56 mmcf/yr (x) 140 lb/mmcf (/) 2000 lb/ton = 3.92 tons/yr
TOTAL = 0.47 + 3.92 = ***4.39 TONS/YEAR***

VOC Emissions:

G) (No. 4 Fuel Oil) 47 mgal/yr (x) 0.2 lb/mgal (/) 2000 lb/ton = 0.005 tons/yr
(Natural Gas) 56 mmcf/yr (x) 2.8 lb/mmcf (/) 2000 lb/ton = 0.08 tons/yr
TOTAL = 0.005+ 0.08= ***0.09 TONS/YEAR***

PM10 Emissions:

H) (No. 4 Fuel Oil) 47mgal/yr (x) 7 lb/mgal (/) 2000 lb/ton = 0.17 tons/yr
(Natural Gas) 56 mmcf/yr (x) 13.7 lb/mmcf (/) 2000 lb/ton = 0.38 tons/yr
TOTAL = 0.17 + 0.38 = ***0.55 TONS/YEAR***

Boiler No. 3 - Bldg. 529

CO Emissions:

I) (No. 4 Fuel Oil) 70 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.18 tons/yr
(Natural Gas) 56 mmcf/yr (x) 35 lb/mmcf (/) 2000 lb/ton = 0.98 tons/yr
TOTAL = 0.18 + 0.98 = ***1.16 TONS/YEAR***

NOx Emissions:

J) (No. 4 Fuel Oil) 70 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.70 tons/yr
(Natural Gas) 56 mmcf/yr (x) 140 lb/mmcf (/) 2000 lb/ton = 3.92 tons/yr
TOTAL = 0.70 + 3.92 = ***4.62 TONS/YEAR***

VOC Emissions:

K) (No. 4 Fuel Oil) 70 mgal/yr (x) 0.2 lb/mgal (/) 2000 lb/ton = 0.007 tons/yr
(Natural Gas) 56 mmcf/yr (x) 2.8 lb/mmcf (/) 2000 lb/ton = 0.08 tons/yr
TOTAL = 0.005+ 0.08= ***0.09 TONS/YEAR***

PM10 Emissions:

L) (No. 4 Fuel Oil) 70 mgal/yr (x) 7 lb/mgal (/) 2000 lb/ton = 0.25 tons/yr
(Natural Gas) 56 mmcf/yr (x) 13.7 lb/mmcf (/) 2000 lb/ton = 0.38 tons/yr
TOTAL = 0.25 + 0.38 = ***0.63 TONS/YEAR***

1990 EMISSIONS CALCULATIONS
NORFOLK

All calculations are based on fuel consumed and AP-42 emission factors.

Emissions based on amount of ***fuel burned*** (lb/mmcf or lb/mgal) multiplied by ***emission factor*** and divided by ***2000 lb/ton***

Note:
mgal=thousand gallons
mmcf=million cubic feet

Boiler No. 55 - Bldg. P-1

CO Emissions:

A) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 213 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.53 tons/yr
(No. 4 Fuel Oil - NSFO) 1,021 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 2.55 tons/yr
TOTAL = 0.53 + 2.55 = ***3.08 TONS/YEAR***

NOx Emissions:

B) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 213 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.12 tons/yr
(No. 4 Fuel Oil - NSFO) 1,021 mgal/yr (x) 55 lb/mgal (/) 2000 lb/ton = 28.08 tons/yr
TOTAL = 0.12+ 28.08 = ***28.19 TONS/YEAR***

VOC Emissions:

C) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 213 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.02 tons/yr
(No. 4 Fuel Oil - NSFO) 1,021 mgal/yr (x) 0.28 lb/mgal (/) 2000 lb/ton = 0 14 tons/yr
TOTAL = -0.02 + 0.14 = ***0.16 TONS/YEAR***

PM10 Emissions:

D) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 213 mgal/yr (x) 7.41 lb/mgal (/) 2000 lb/ton = 0.79 tons/yr
(No. 4 Fuel Oil - NSFO) 1,021 mgal/yr (x) 42.04 mgal (/) 2000 lb/ton = 21.46 tons/yr
TOTAL = (0.79 + 21.46) (x) (1-0.85)= ***3.34 TONS/YEAR***

Boiler No. 56 - Bldg. P-1

CO Emissions:

E) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 160 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.40 tons/yr
(No. 4 Fuel Oil - NSFO) 770 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 1.93 tons/yr
TOTAL = 0.40 + 1.93 = ***2.33 TONS/YEAR***

NOx Emissions:

F) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 160 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 1.60 tons/yr
(No. 4 Fuel Oil - NSFO) 770 mgal/yr (x) 55 lb/mgal (/) 2000 lb/ton = 21.18 tons/yr
TOTAL = 1.60 + 21.18 = ***22.78 TONS/YEAR***

VOC Emissions:

G) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 160 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.02 tons/yr
(No. 4 Fuel Oil - NSFO) 770 mgal/yr (x) 0.28 lb/mgal (/) 2000 lb/ton = 0.11 tons/yr
TOTAL = 0.02 + 0.11 = ***0.13 TONS/YEAR***

PM10 Emissions:

H) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 160 mgal/yr (x) 7.41 lb/mgal (/) 2000 lb/ton = 0.59 tons/yr
(No. 4 Fuel Oil - NSFO) 770 mgal/yr (x) 42.04 mgal (/) 2000 lb/ton = 16.19 tons/yr
TOTAL = (0.59 + 16.19) (x) (1-0.85)= ***16.78 TONS/YEAR***

Boiler No. 57 - Bldg. P-1

CO Emissions:

I) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 156 mgal/yr (x) 5 lb/mgal (/) 2000 b/ton = 0.39 tons/yr
(No. 4 Fuel Oil - NSFO) 936 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 2.34 tons/yr
TOTAL = 0.39 + 2.34 = ***2.73 TONS/YEAR***

NOx Emissions:

J) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 156 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 1.56 tons/yr
(No. 4 Fuel Oil - NSFO) 936 mgal/yr (x) 55 lb/mgal (/) 2000 lb/ton = 25.74 tons/yr
TOTAL = 1.56 + 25.74 = ***27.30 TONS/YEAR***

VOC Emissions:

K) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 156 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.02 tons/yr
(No. 4 Fuel Oil - NSFO) 936 mgal/yr (x) 0.28 lb/mgal (/) 2000 lb/ton = 0.13 tons/yr
TOTAL = 0.02 + 0.13 = ***0.15 TONS/YEAR***

PM10 Emissions:

L) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 156 mgal/yr (x) 6.54 lb/mgal (/) 2000 lb/ton = 0.51 tons/yr
(No. 4 Fuel Oil - NSFO) 936 mgal/yr (x) 41.99 mgal (/) 2000 lb/ton = 19.65 tons/yr
TOTAL = (0.51 + 19.65) (x) (1-0.85)= ***20.16 TONS/YEAR***

Boiler No. 58 - Bldg. P-1

CO Emissions:

M) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 521 mgal/yr (x) 5 lb/mgal (/) 2000 b/ton = 1.30 tons/yr
(No. 4 Fuel Oil - NSFO) 3,313 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 8.28 tons/yr
TOTAL = 1.30 + 8.28 = ***9.59 TONS/YEAR***

NOx Emissions:

N) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 521 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 5.21 tons/yr
(No. 4 Fuel Oil - NSFO) 3,313 mgal/yr (x) 67 lb/mgal (/) 2000 lb/ton = 110.99 tons/yr
TOTAL = 5.21 + 110.99 = ***116.20 TONS/YEAR***

VOC Emissions:

O) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 521 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.05 tons/yr
(No. 4 Fuel Oil - NSFO) 3,313 mgal/yr (x) 0.76 lb/mgal (/) 2000 lb/ton = 1.26 tons/yr
TOTAL = 0.05 + 1.26 = ***1.31 TONS/YEAR***

PM10 Emissions:

P) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 521 mgal/yr (x) 1 lb/mgal (/) 2000 lb/ton = 0.26 tons/yr
(No. 4 Fuel Oil - NSFO) 3,313 mgal/yr (x) 5.18 mgal (/) 2000 lb/ton = 8.58 tons/yr
TOTAL = (0.26 + 8.58) = ***8.84 TONS/YEAR***

Boiler No. 59 - Bldg. P-1:

CO Emissions:

Q) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 625 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 1.56 tons/yr
(No. 4 Fuel Oil - NSFO) 2,772 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 6 93 tons/yr
TOTAL = 1.56 + 6.93 = ***8.49 TONS/YEAR***

NOx Emissions:

R) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 625 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 6.25 tons/yr
(No. 4 Fuel Oil - NSFO) 2,772 mgal/yr (x) 33.38 lb/mgal (/) 2000 lb/ton = 46.26 tons/yr
TOTAL = 6.25 + 46.26 = ***52.51 TONS/YEAR***

VOC Emissions:

S) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 625 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.06 tons/yr
(No. 4 Fuel Oil - NSFO) 2,772 mgal/yr (x) 0.76 lb/mgal (/) 2000 lb/ton = 1.05 tons/yr
TOTAL = 0.06 + 1.05 = ***1.11 TONS/YEAR***

PM10 Emissions:

T) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 625 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.63 tons/yr
(No. 4 Fuel Oil - NSFO) 2,772 mgal/yr (x) 8.65 lb/mgal (/) 2000 lb/ton = 11.99 tons/yr
TOTAL = (0.63 + 11.99) (x) (1-0.4)= ***12.61 TONS/YEAR***

Boiler No. 60 - Bldg. P-1

CO Emissions:

U) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 820 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 2.05 tons/yr
(No. 4 Fuel Oil - NSFO) 3,815 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 9 54 tons/yr
TOTAL = 2.05 + 9.54 = ***11.59 TONS/YEAR***

NOx Emissions:

V) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 820 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 8.20 tons/yr
(No. 4 Fuel Oil - NSFO) 3,815 mgal/yr (x) 33.38 lb/mgal (/) 2000 lb/ton = 63.67 tons/yr
TOTAL = 8.20 + 63.67 = ***71.87 TONS/YEAR***

VOC Emissions:

W) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 820 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.08 tons/yr
(No. 4 Fuel Oil - NSFO) 3,815 mgal/yr (x) 0.76 lb/mgal (/) 2000 lb/ton = 1.45 tons/yr
TOTAL = 0.08 + 1.45 = ***1.53 TONS/YEAR***

PM10 Emissions:

X) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 820 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.82 tons/yr
(No. 4 Fuel Oil - NSFO) 3,815 mgal/yr (x) 8.65 lb/mgal (/) 2000 lb/ton = 16.50 tons/yr
TOTAL = (0.82 + 16.50) (x) (1-0.4)= ***17.32 TONS/YEAR***

Boiler No. 61 - Bldg. P-1

CO Emissions:

Y) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 22 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.06 tons/yr
(No. 4 Fuel Oil - NSFO) 273 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.68 tons/yr
(Natural Gas) 725 mmcf/yr (x) 40 lb/mmcf (/) 2000 lb/ton = 14.50 tons/yr
TOTAL = 0.06 + 0.68 + 14.50 = ***15.24 TONS/YEAR***

NOx Emissions:

Z) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 22 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.22 tons/yr
(No. 4 Fuel Oil - NSFO) 273 mgal/yr (x) 33.38 lb/mgal (/) 2000 lb/ton = 4.56 tons/yr
(Natural Gas) 725 mmcf/yr (x) 113.83 lb/mmcf (/) 2000 lb/ton = 41.26 tons/yr
TOTAL = 0.22 + 4.56 + 41.26 = ***46.04 TONS/YEAR***

VOC Emissions:

AA) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 22 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.002 tons/yr
(No. 4 Fuel Oil - NSFO) 273 mgal/yr (x) 0.76 lb/mgal (/) 2000 lb/ton = 0.10 tons/yr
(Natural Gas) 725 mmcf/yr (x) 1.4 lb/mmcf (/) 2000 lb/ton = 0.51 tons/yr
TOTAL = 0.002 + 0.10 + 0.51 = ***0.61 TONS/YEAR***

PM10 Emissions:

BB) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 22 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.02 tons/yr
(No. 4 Fuel Oil - NSFO) 273 mgal/yr (x) 8.65 lb/mgal (/) 2000 lb/ton = 1.18 tons/yr
(Natural Gas) 725 mmcf/yr (x) 4.99 lb/mmcf (/) 2000 lb/ton = 1.81 tons/yr
TOTAL = (0.02 + 1.18 + 1.81) (x) (1-0.4)= ***1.81 TONS/YEAR***

Boiler No. 62 - Bldg. P-1

CO Emissions:

CC) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 400 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 1.00 tons/yr
(No. 4 Fuel Oil - NSFO) 2,136 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 5.34 tons/yr
TOTAL = 1.00 + 5.34 = ***6.34 TONS/YEAR***

NOx Emissions:

DD) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 400 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 4.00 tons/yr
(No. 4 Fuel Oil - NSFO) 2,136 mgal/yr (x) 67 lb/mgal (/) 2000 lb/ton = 71.56 tons/yr
TOTAL = 4.00 + 71.56 = ***75.56 TONS/YEAR***

VOC Emissions:

EE) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 400 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.04 tons/yr
(No. 4 Fuel Oil - NSFO) 2,136 mgal/yr (x) 0.76 lb/mgal (/) 2000 lb/ton = 0.81 tons/yr
TOTAL = 0.04 + 0.81 = ***0.85 TONS/YEAR***

PM10 Emissions:

FF) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 400 mgal/yr (x) 1.66 lb/mgal (/) 2000 lb/ton = 0.33 tons/yr
(No. 4 Fuel Oil - NSFO) 2,136 mgal/yr (x) 8.63 lb/mgal (/) 2000 lb/ton = 9.22 tons/yr
TOTAL = (0.33 + 9.22) (x) (1-0.4)= ***5.73 TONS/YEAR***

Boiler No. 83 - Bldg. NH-200

CO Emissions:

GG) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 96 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.24 tons/yr
(No. 4 Fuel Oil - NSFO) 1,452 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 3.63 tons/yr
TOTAL = 0.24 + 3.63= ***3.87 TONS/YEAR***

NOx Emissions:

HH) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 96 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.96 tons/yr
(No. 4 Fuel Oil - NSFO) 1,452 mgal/yr (x) 55 lb/mgal (/) 2000 lb/ton = 39.93 tons/yr
TOTAL = 0.96 + 39.93= ***40.89 TONS/YEAR***

VOC Emissions:

II) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 96 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(No. 4 Fuel Oil - NSFO) 1,452 mgal/yr (x) 0.28 lb/mgal (/) 2000 lb/ton = 0.20 tons/yr
TOTAL = 0.01 + 0.20 = ***0.21 TONS/YEAR***

PM10 Emissions:

JJ) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 96 mgal/yr (x) 1 lb/mgal (/) 2000 lb/ton = 0.05 tons/yr
(No. 4 Fuel Oil - NSFO) 1,452 mgal/yr (x) 6.29 mgal (/) 2000 lb/ton = 4.57 tons/yr
TOTAL = (0.05 + 4.57) = ***4.62 TONS/YEAR***

Boiler No. 79 - Bldg. SP-85

CO Emissions:

KK) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 844 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 2.11 tons/yr
(No. 2 Fuel Oil) 9 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.02 tons/yr
TOTAL = 2.11 + 0.02 = ***2.13 TONS/YEAR***

NOx Emissions:

LL) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 844 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 8.44 tons/yr
(No. 2 Fuel Oil) 9 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.09 tons/yr
TOTAL = 8.44 + 0.09 = ***8.53 TONS/YEAR***

VOC Emissions:

MM) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 844 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.08 tons/yr
(No. 2 Fuel Oil) 9 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.00 tons/yr
TOTAL = 0.00 + 0.08 = ***0.08 TONS/YEAR***

PM10 Emissions:

NN) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 844 mgal/yr (x) 1 lb/mgal (/) 2000 lb/ton = 0.42 tons/yr
(No. 2 Fuel Oil) 9 mgal/yr (x) 1.14 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
TOTAL = (0.42 + 0.01) = ***0.43 TONS/YEAR***

Boiler No. 80 - Bldg. SP-85

CO Emissions:

OO) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 692 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 1.73 tons/yr
(No. 2 Fuel Oil) 10 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.03 tons/yr
TOTAL = 1.73 + 0.03 = ***1.76 TONS/YEAR***

NOx Emissions:

PP) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 692 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 6.92 tons/yr
(No. 2 Fuel Oil) 10 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.10 tons/yr
TOTAL = 6.92 + 0.10 = ***7.02 TONS/YEAR***

VOC Emissions:

QQ) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 692 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.07 tons/yr
(No. 2 Fuel Oil) 10 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.00 tons/yr
TOTAL = 0.07 + 0.00 = ***0.07 TONS/YEAR***

PM10 Emissions:

RR) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 692 mgal/yr (x) 1 lb/mgal (/) 2000 lb/ton = 0.35 tons/yr
(No. 2 Fuel Oil) 10 mgal/yr (x) 1 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
TOTAL = (0.35 + 0.01) = ***0.36 TONS/YEAR***

Boiler No. 219 - Bldg. Z-309

CO Emissions:

SS) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 142 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.36 tons/yr
(No. 4 Fuel Oil - NSFO) 670 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 1.68 tons/yr
TOTAL = 0.36 + 1.68 = ***2.04 TONS/YEAR***

NOx Emissions:

TT) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 142 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 1.42 tons/yr
(No. 4 Fuel Oil - NSFO) 670 mgal/yr (x) 55 lb/mgal (/) 2000 lb/ton = 18.43 tons/yr
TOTAL = 1.42 + 18.43 = ***19.85 TONS/YEAR***

VOC Emissions:

UU) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 142 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(No. 4 Fuel Oil - NSFO) 670 mgal/yr (x) 0.28 lb/mgal (/) 2000 lb/ton = 0.09 tons/yr
TOTAL = 0.01 + 0.09 = ***0.10 TONS/YEAR***

PM10 Emissions:

VV) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 142 mgal/yr (x) 1 lb/mgal (/) 2000 lb/ton = 0.07 tons/yr
(No. 4 Fuel Oil - NSFO) 670 mgal/yr (x) 6.29 mgal (/) 2000 lb/ton = 2.11 tons/yr
TOTAL = (0.07 + 2.11) = ***2.18 TONS/YEAR***

Boiler No. 220 - Bldg. Z-309

CO Emissions:

WW) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 209 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.52 tons/yr
(No. 4 Fuel Oil - NSFO) 1,098 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 2.75 tons/yr
TOTAL = 0.52 + 2.75 = ***3.27 TONS/YEAR***

NOx Emissions:

XX) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 209 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 2.09 tons/yr
(No. 4 Fuel Oil - NSFO) 1,098 mgal/yr (x) 55 lb/mgal (/) 2000 lb/ton = 30.20 tons/yr
TOTAL = 2.09 + 30.20 = ***32.29 TONS/YEAR***

VOC Emissions:

YY) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 209 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.02 tons/yr
(No. 4 Fuel Oil - NSFO) 1,098 mgal/yr (x) 0.28 lb/mgal (/) 2000 lb/ton = 0.15 tons/yr
TOTAL = 0.02 + 0.15 = ***0.17 TONS/YEAR***

PM10 Emissions:

ZZ) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 209 mgal/yr (x) 1 lb/mgal (/) 2000 lb/ton = 0.10 tons/yr
(No. 4 Fuel Oil - NSFO) 1,098 mgal/yr (x) 6.29 mgal (/) 2000 lb/ton = 3.45 tons/yr
TOTAL = (0.10 + 3.45) = ***3.55 TONS/YEAR***

Boiler No. 1 - Bldg. LP-167

CO Emissions:
a) (No. 4 Fuel Oil - NSFO) 33 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = ***0.08 tons/yr***

NOx Emissions:
b) (No. 4 Fuel Oil - NSFO) 33 mgal/yr (x) 55 lb/mgal (/) 2000 lb/ton = ***0.91 tons/yr***

VOC Emissions:
c) (No. 4 Fuel Oil - NSFO) 33 mgal/yr (x) 0.28 lb/mgal (/) 2000 lb/ton = ***0.06 tons/yr***

PM10 Emissions:
d) (No. 4 Fuel Oil - NSFO) 33 mgal/yr (x) 6.29 mgal (/) 2000 lb/ton = ***0.10 tons/yr***

Boiler No. 2 - Bldg. LP-167

CO Emissions:
e) (No. 4 Fuel Oil - NSFO) 32 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = ***0.08 tons/yr***

NOx Emissions:
f) (No. 4 Fuel Oil - NSFO) 32 mgal/yr (x) 55 lb/mgal (/) 2000 lb/ton = ***0.88 tons/yr***

VOC Emissions:
g) (No. 4 Fuel Oil - NSFO) 32 mgal/yr (x) 0.28 lb/mgal (/) 2000 lb/ton = ***0.00 tons/yr***

PM10 Emissions:
h) (No. 4 Fuel Oil - NSFO) 32 mgal/yr (x) 6.29 mgal (/) 2000 lb/ton = ***0.10 tons/yr***

Boiler No. 1 - Pier 12

CO Emissions:
i) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 520 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = ***1.30 tons/yr***

NOx Emissions:
j) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 520 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = ***5.20 tons/yr***

VOC Emissions:
k) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 520 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = ***0.05 tons/yr***

PM10 Emissions:
l) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 520 mgal/yr (x) 1 lb/mgal (/) 2000 lb/ton = ***0.26 tons/yr***

MUSE BOILER - Pier 12

CO Emissions:
m) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 491 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = ***1.23 tons/yr***

NOx Emissions:
n) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 491 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = ***4.91 tons/yr***

VOC Emissions:
o) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 491 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = ***0.05 tons/yr***

PM10 Emissions:

p) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 491 mgal/yr (x) 1 lb/mgal (/) 2000 b/ton = ***0.25 tons/yr***

Boiler No. 1 - Bldg. H

CO Emissions:

q) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 4 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(Natural Gas) 4 mmcf/yr (x) 20 lb/mmcf (/) 2000 lb/ton = 0.04 tons/yr
TOTAL = 0.01 + 0.04 = ***0.05 TONS/YEAR***

NOx Emissions:

r) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 4 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.04 tons/yr
(Natural Gas) 4 mmcf/yr (x) 100 lb/mmcf (/) 2000 lb/ton = 0.20 tons/yr
TOTAL = 0.04 + 0.20= ***0.24 TONS/YEAR***

VOC Emissions:

s) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 4 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.00 tons/yr
(Natural Gas) 4 mmcf/yr (x) 5.3 lb/mmcf (/) 2000 lb/ton = 0.01 tons/yr
TOTAL = 0.00 + 0.01 = ***0.01 TONS/YEAR***

PM10 Emissions:

t) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 4 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.004 tons/yr
(Natural Gas) 4 mmcf/yr (x) 3 lb/mmcf (/) 2000 lb/ton = 0.01 tons/yr
TOTAL = (0.004 + 0.01)= ***0.01 TONS/YEAR***

Boiler No. 2 - Bldg. H

CO Emissions:

u) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 4 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(Natural Gas) 4 mmcf/yr (x) 20 lb/mmcf (/) 2000 lb/ton = 0.04 tons/yr
TOTAL = 0.01 + 0.04 = ***0.05 TONS/YEAR***

NOx Emissions:

v) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 4 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.04 tons/yr
(Natural Gas) 4 mmcf/yr (x) 100 lb/mmcf (/) 2000 lb/ton = 0.20 tons/yr
TOTAL = 0.04 + 0.20= ***0.24 TONS/YEAR***

VOC Emissions:

w) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 4 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.00 tons/yr
(Natural Gas) 4 mmcf/yr (x) 5.3 lb/mmcf (/) 2000 lb/ton = 0.01 tons/yr
TOTAL = 0.00 + 0.01 = ***0.01 TONS/YEAR***

PM10 Emissions:

x) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 4 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.004 tons/yr
(Natural Gas) 4 mmcf/yr (x) 3 lb/mmcf (/) 2000 lb/ton = 0.01 tons/yr
TOTAL = (0.004 + 0.01)= ***0.01 TONS/YEAR***

Boiler No. 3 - Bldg. H

CO Emissions:

y) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 4 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(Natural Gas) 5 mmcf/yr (x) 20 lb/mmcf (/) 2000 lb/ton = 0.05 tons/yr
TOTAL = 0.01 + 0.05 = ***0.06 TONS/YEAR***

NOx Emissions:

z) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 4 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.04 tons/yr
(Natural Gas) 5 mmcf/yr (x) 100 lb/mmcf (/) 2000 lb/ton = 0.25 tons/yr
TOTAL = 0.04 + 0.25= ***0.29 TONS/YEAR***

VOC Emissions:

aa) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 4 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.00 tons/yr
(Natural Gas) 5 mmcf/yr (x) 5.3 lb/mmcf (/) 2000 lb/ton = 0.01 tons/yr
TOTAL = 0.00 + 0.01 = ***0.01 TONS/YEAR***

PM10 Emissions:

bb) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 4 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.004 tons/yr
(Natural Gas) 5 mmcf/yr (x) 3 lb/mmcf (/) 2000 lb/ton = 0.01 tons/yr
TOTAL = (0.004 + 0.01)= ***0.01 TONS/YEAR***

1990 EMISSIONS CALCULATIONS
OCEANA

All calculations are based on fuel consumed and AP-42 emission factors.

Emissions based on amount of ***fuel burned*** (lb/mmcf or lb/mgal) multiplied by ***emission factor*** and divided by ***2000 lb/ton***

Note:
mgal=thousand gallons
mmcf=million cubic feet

Boiler No. 1 - Bldg. 601

CO Emissions:

A) (No. 4 Fuel Oil) 70 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.18 tons/yr
(Natural Gas) 114 mmcf/yr (x) 35 lb/mmcf (/) 2000 lb/ton = 2.00 tons/yr
TOTAL = 0.18 + 2.00 = ***2.18 TONS/YEAR***

NOx Emissions:

B) (No. 4 Fuel Oil) 70 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.70 tons/yr
(Natural Gas) 114 mmcf/yr (x) 140 lb/mmcf (/) 2000 lb/ton = 7.98 tons/yr
TOTAL = 0.70 + 7.98 = ***8.68 TONS/YEAR***

VOC Emissions:

C) (No. 4 Fuel Oil) 70 mgal/yr (x) 0.2 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(Natural Gas) 114 mmcf/yr (x) 2.8 lb/mmcf (/) 2000 lb/ton = 0.16 tons/yr
TOTAL = 0.01 + 0.16 = ***0.17 TONS/YEAR***

PM10 Emissions:

D) (No. 4 Fuel Oil) 70 mgal/yr (x) 7 lb/mgal (/) 2000 lb/ton = 0.25 tons/yr
(Natural Gas) 114 mmcf/yr (x) 13.7 lb/mmcf (/) 2000 lb/ton = 0.78 tons/yr
TOTAL = 0.25 + 0.78 = ***1.03 TONS/YEAR***

Boiler No. 2 - Bldg. 601

CO Emissions:

A) (No. 4 Fuel Oil) 70 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.18 tons/yr
(Natural Gas) 114 mmcf/yr (x) 35 lb/mmcf (/) 2000 lb/ton = 2.00 tons/yr
TOTAL = 0.18 + 2.00 = ***2.18 TONS/YEAR***

NOx Emissions:

B) (No. 4 Fuel Oil) 70 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.70 tons/yr
(Natural Gas) 114 mmcf/yr (x) 140 lb/mmcf (/) 2000 lb/ton = 7.98 tons/yr
TOTAL = 0.70 + 7.98 = ***8.68 TONS/YEAR***

VOC Emissions:

C) (No. 4 Fuel Oil) 70 mgal/yr (x) 0.2 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(Natural Gas) 114 mmcf/yr (x) 2.8 lb/mmcf (/) 2000 lb/ton = 0.16 tons/yr
TOTAL = 0.01 + 0.16 = ***0.17 TONS/YEAR***

PM10 Emissions:

D) (No. 4 Fuel Oil) 70 mgal/yr (x) 7 lb/mgal (/) 2000 lb/ton = 0.25 tons/yr
(Natural Gas) 114 mmcf/yr (x) 13.7 lb/mmcf (/) 2000 lb/ton = 0.78 tons/yr
TOTAL = 0.25 + 0.78 = ***1.03 TONS/YEAR***

Boiler No. 3 - Bldg. 601

CO Emissions:

A) (No. 4 Fuel Oil) 70 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.18 tons/yr
(Natural Gas) 114 mmcf/yr (x) 35 lb/mmcf (/) 2000 lb/ton = 2.00 tons/yr
TOTAL = 0.18 + 2.00 = ***2.18 TONS/YEAR***

NOx Emissions:

B) (No. 4 Fuel Oil) 70 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.70 tons/yr
(Natural Gas) 114 mmcf/yr (x) 140 lb/mmcf (/) 2000 lb/ton = 7.98 tons/yr
TOTAL = 0.70 + 7.98 = ***8.68 TONS/YEAR***

VOC Emissions:

C) (No. 4 Fuel Oil) 70 mgal/yr (x) 0.2 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(Natural Gas) 114 mmcf/yr (x) 2.8 lb/mmcf (/) 2000 lb/ton = 0.16 tons/yr
TOTAL = 0.01 + 0.16 = ***0.17 TONS/YEAR***

PM10 Emissions:

D) (No. 4 Fuel Oil) 70 mgal/yr (x) 7 lb/mgal (/) 2000 lb/ton = 0.25 tons/yr
(Natural Gas) 114 mmcf/yr (x) 13.7 lb/mmcf (/) 2000 lb/ton = 0.78 tons/yr
TOTAL = 0.25 + 0.78 = ***1.03 TONS/YEAR***

Boiler No. 1 - Bldg. 4000

CO Emissions:

E) (No. 2 Fuel Oil) 5 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(Natural Gas) 12 mmcf/yr (x) 35 lb/mmcf (/) 2000 lb/ton = 0.21 tons/yr
TOTAL = 0.01 + 0.21 = ***0.22 TONS/YEAR***

NOx Emissions:

F) (No. 2 Fuel Oil) 5 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.05 tons/yr
(Natural Gas) 12 mmcf/yr (x) 140 lb/mmcf (/) 2000 lb/ton = 0.84 tons/yr
TOTAL = 0.05 + 0.84 = ***0.89 TONS/YEAR***

VOC Emissions:

G) (No. 2 Fuel Oil) 5 mgal/yr (x) 0.34 lb/mgal (/) 2000 lb/ton = 0.0009 tons/yr
(Natural Gas) 12 mmcf/yr (x) 2.8 lb/mmcf (/) 2000 lb/ton = 0.02 tons/yr
TOTAL = 0.0009 + 0.02 = ***0.02 TONS/YEAR***

PM10 Emissions:

H) (No. 2 Fuel Oil) 5 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(Natural Gas) 12 mmcf/yr (x) 13.7 lb/mmcf (/) 2000 lb/ton = 0.08 tons/yr
TOTAL = 0.01 + 0.08 = ***0.09 TONS/YEAR***

Boiler No. 2 - Bldg. 4000

CO Emissions:

E) (No. 2 Fuel Oil) 5 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(Natural Gas) 12 mmcf/yr (x) 35 lb/mmcf (/) 2000 lb/ton = 0.21 tons/yr
TOTAL = 0.01 + 0.21 = ***0.22 TONS/YEAR***

NOx Emissions:

F) (No. 2 Fuel Oil) 5 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.05 tons/yr
(Natural Gas) 12 mmcf/yr (x) 140 lb/mmcf (/) 2000 lb/ton = 0.84 tons/yr
TOTAL = 0.05 + 0.84 = ***0.89 TONS/YEAR***

VOC Emissions:

G) (No. 2 Fuel Oil) 5 mgal/yr (x) 0.34 lb/mgal (/) 2000 lb/ton = 0.0009 tons/yr
(Natural Gas) 12 mmcf/yr (x) 2.8 lb/mmcf (/) 2000 lb/ton = 0.02 tons/yr
TOTAL = 0.0009 + 0.02 = ***0.02 TONS/YEAR***

PM10 Emissions:

H) (No. 2 Fuel Oil) 5 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(Natural Gas) 12 mmcf/yr (x) 13.7 lb/mmcf (/) 2000 lb/ton = 0.08 tons/yr
TOTAL = 0.01 + 0.08 = ***0.09 TONS/YEAR***

Boiler No. 3 - Bldg. 4000

CO Emissions:

E) (No. 2 Fuel Oil) 5 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(Natural Gas) 12 mmcf/yr (x) 35 lb/mmcf (/) 2000 lb/ton = 0.21 tons/yr
TOTAL = 0.01 + 0.21 = ***0.22 TONS/YEAR***

NOx Emissions:

F) (No. 2 Fuel Oil) 5 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.05 tons/yr
(Natural Gas) 12 mmcf/yr (x) 140 lb/mmcf (/) 2000 lb/ton = 0.84 tons/yr
TOTAL = 0.05 + 0.84 = ***0.89 TONS/YEAR***

VOC Emissions:

G) (No. 2 Fuel Oil) 5 mgal/yr (x) 0.34 lb/mgal (/) 2000 lb/ton = 0.0009 tons/yr
(Natural Gas) 12 mmcf/yr (x) 2.8 lb/mmcf (/) 2000 lb/ton = 0.02 tons/yr
TOTAL = 0.0009 + 0.02 = ***0.02 TONS/YEAR***

PM10 Emissions:

H) (No. 2 Fuel Oil) 5 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(Natural Gas) 12 mmcf/yr (x) 13.7 lb/mmcf (/) 2000 lb/ton = 0.08 tons/yr
TOTAL = 0.01 + 0.08 = ***0.09 TONS/YEAR***

1990 EMISSIONS CALCULATIONS
PORTSMOUTH NAVAL HOSPITAL

All calculations are based on fuel consumed and AP-42 emission factors.

Emissions based on amount of ***fuel burned*** (lb/mmcf or lb/mgal) multiplied by ***emission factor*** and divided by ***2000 lb/ton***

Note:
mgal=thousand gallons
mmcf=million cubic feet

Boiler No. 105 - Bldg. 20

CO Emissions:

A) (No. 6 Fuel Oil) 3 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(Natural Gas) 40 mmcf/yr (x) 35 lb/mmcf (/) 2000 lb/ton = 0.70 tons/yr
TOTAL = 0.01 + 0.70 = ***0.71 TONS/YEAR***

NOx Emissions:

B) (No. 6 Fuel Oil) 3 mgal/yr (x) 55 lb/mgal (/) 2000 lb/ton = 0.08 tons/yr
(Natural Gas) 40 mmcf/yr (x) 140 lb/mmcf (/) 2000 lb/ton = 2.80 tons/yr
TOTAL = 0.08 + 2.80 = ***2.88 TONS/YEAR***

VOC Emissions:

C) (No. 6 Fuel Oil) 3 mgal/yr (x) 0.28 lb/mgal (/) 2000 lb/ton = 0.0004 tons/yr
(Natural Gas) 40 mmcf/yr (x) 2.8 lb/mmcf (/) 2000 lb/ton = 0.056 tons/yr
TOTAL = 0.0004 + 0.056 = ***0.06 TONS/YEAR***

PM10 Emissions:

D) (No. 6 Fuel Oil) 3 mgal/yr (x) 20.5 lb/mgal (/) 2000 lb/ton = 0.03 tons/yr
(Natural Gas) 40 mmcf/yr (x) 13.7 lb/mmcf (/) 2000 lb/ton = 0.27 tons/yr
TOTAL = 0.03 + 0.27 = ***0.30 TONS/YEAR***

Boiler No. 106 - Bldg. 20

CO Emissions:

A) (No. 6 Fuel Oil) 3 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(Natural Gas) 40 mmcf/yr (x) 35 lb/mmcf (/) 2000 lb/ton = 0.70 tons/yr
TOTAL = 0.01 + 0.70 = ***0.71 TONS/YEAR***

NOx Emissions:

B) (No. 6 Fuel Oil) 3 mgal/yr (x) 55 lb/mgal (/) 2000 lb/ton = 0.08 tons/yr
(Natural Gas) 40 mmcf/yr (x) 140 lb/mmcf (/) 2000 lb/ton = 2.80 tons/yr
TOTAL = 0.08 + 2.80 = ***2.88 TONS/YEAR***.

VOC Emissions:

C) (No. 6 Fuel Oil) 3 mgal/yr (x) 0.28 lb/mgal (/) 2000 lb/ton = 0.0004 tons/yr
(Natural Gas) 40 mmcf/yr (x) 2.8 lb/mmcf (/) 2000 lb/ton = 0.056 tons/yr
TOTAL = 0.0004 + 0.056 = ***0.06 TONS/YEAR***

PM10 Emissions:

D) (No. 6 Fuel Oil) 3 mgal/yr (x) 20.5 lb/mgal (/) 2000 lb/ton = 0.03 tons/yr
(Natural Gas) 40 mmcf/yr (x) 13.7 lb/mmcf (/) 2000 lb/ton = 0.27 tons/yr
TOTAL = 0.03 + 0.27 = ***0.30 TONS/YEAR***

Boiler No. 107 - Bldg. 20

CO Emissions:

A) (No. 6 Fuel Oil) 3 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(Natural Gas) 40 mmcf/yr (x) 35 lb/mmcf (/) 2000 lb/ton = 0.70 tons/yr
TOTAL = 0.01 + 0.70 = ***0.71 TONS/YEAR***

NOx Emissions:

B) (No. 6 Fuel Oil) 3 mgal/yr (x) 55 lb/mgal (/) 2000 lb/ton = 0.08 tons/yr
(Natural Gas) 40 mmcf/yr (x) 140 lb/mmcf (/) 2000 lb/ton = 2.80 tons/yr
TOTAL = 0.08 + 2.80 = ***2.88 TONS/YEAR***

VOC Emissions:

C) (No. 6 Fuel Oil) 3 mgal/yr (x) 0.28 lb/mgal (/) 2000 lb/ton = 0.0004 tons/yr
(Natural Gas) 40 mmcf/yr (x) 2.8 lb/mmcf (/) 2000 lb/ton = 0.056 tons/yr
TOTAL = 0.0004 + 0.056 = ***0.06 TONS/YEAR***

PM10 Emissions:

D) (No. 6 Fuel Oil) 3 mgal/yr (x) 20.5 lb/mgal (/) 2000 lb/ton = 0.03 tons/yr
(Natural Gas) 40 mmcf/yr (x) 13.7 lb/mmcf (/) 2000 lb/ton = 0.27 tons/yr
TOTAL = 0.03 + 0.27 = ***0.30 TONS/YEAR***

Boiler No. 108 - Bldg. 20

CO Emissions:

E) (No. 6 Fuel Oil) 2 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(Natural Gas) 38 mmcf/yr (x) 35 lb/mmcf (/) 2000 lb/ton = 0.67 tons/yr
TOTAL = 0.01 + 0.67 = ***0.68 TONS/YEAR***.

NOx Emissions:

F) (No. 6 Fuel Oil) 2 mgal/yr (x) 55 lb/mgal (/) 2000 lb/ton = 0.06 tons/yr
(Natural Gas) 38 mmcf/yr (x) 140 lb/mmcf (/) 2000 lb/ton = 2.66 tons/yr
TOTAL = 0.06 + 2.66 = ***2.72 TONS/YEAR***

VOC Emissions:

G) (No. 6 Fuel Oil) 2 mgal/yr (x) 0.28 lb/mgal (/) 2000 lb/ton = 0.0003 tons/yr
(Natural Gas) 38 mmcf/yr (x) 2.8 lb/mmcf (/) 2000 lb/ton = 0.053 tons/yr
TOTAL = 0.0003 + 0.053 = ***0.05 TONS/YEAR***

PM10 Emissions:

H) (No. 6 Fuel Oil) 2 mgal/yr (x) 20.5 lb/mgal (/) 2000 lb/ton = 0.02 tons/yr
(Natural Gas) 38 mmcf/yr (x) 13.7 lb/mmcf (/) 2000 lb/ton = 0.26 tons/yr
TOTAL = 0.02 + 0.26 = ***0.28 TONS/YEAR***

1990 EMISSIONS CALCULATIONS
RDF PLANT

All calculations are based on fuel consumed and AP-42 emission factors.

Emissions based on amount of ***fuel burned*** (lb/mmcf or lb/mgal) multiplied by ***emission factor*** and divided by ***2000 lb/ton*** multiplied by (1-Control Efficiency)

Note:
The boilers have pollution control equipment which removes 99.7% of the particulates from being emitted into the atmosphere.

mgal=thousand gallons
mmcf=million cubic feet

Boiler No. 1 - Bldg. 1515

CO Emissions:

A) (Bituminous Coal - Spreader Stoker) 8,877 tons/yr (x) 5 lb/ton (/) 2000 lb/ton = 22.19 tons/yr
(RDF) 72,819 tons/yr (x) 3.6 lb/ton (/) 2000 lb/ton = 131.07 tons/yr
TOTAL = 22.19 + 131.07 = ***153.26 TONS/YEAR***

NOx Emissions:

B) (Bituminous Coal - Spreader Stoker) 8,877 tons/yr (x) 14 lb/ton (/) 2000 lb/ton = 62.14 tons/yr
(RDF) 72,819 tons/yr (x) 3.8 lb/ton (/) 2000 lb/ton = 138.36 tons/yr
TOTAL = 62.14 + 138.36 = ***200.50 TONS/YEAR***

VOC Emissions:

C) (Bituminous Coal - Spreader Stoker) 8,877 tons/yr (x) 0.07 lb/ton (/) 2000 lb/ton = 0.31 tons/yr
(RDF) 72,819 tons/yr (x) 2.0 lb/ton (/) 2000 lb/ton = 72.82 tons/yr
TOTAL = 0.31 + 72.82 = ***73.13 TONS/YEAR***

PM10 Emissions:

D) (Bituminous Coal - Spreader Stoker) 8,877 tons/yr (x) 12 lb/ton (/) 2000 lb/ton = 53.26 tons/yr
(RDF) 72,819 tons/yr (x) 44 lb/ton (/) 2000 lb/ton = 1,602.02 tons/yr
TOTAL = (53.26 + 1,602.02) (x) (1-0.997)= ***4.97 TONS/YEAR***

Boiler No. 2 - Bldg. 1515

CO Emissions:

E) (Bituminous Coal - Spreader Stoker) 6,406 tons/yr (x) 5 lb/ton (/) 2000 lb/ton = 16.02 tons/yr
(RDF) 77,941 tons/yr (x) 3.6 lb/ton (/) 2000 lb/ton = 140.29 tons/yr
TOTAL = 16.02 + 140.29 = ***156.31 TONS/YEAR***

NOx Emissions:

F) (Bituminous Coal - Spreader Stoker) 6,406 tons/yr (x) 14 lb/ton (/) 2000 lb/ton = 44.84 tons/yr
(RDF) 77,941 tons/yr (x) 3.8 lb/ton (/) 2000 lb/ton = 148.09 tons/yr
TOTAL = 44.84 + 148.09 = ***192.93 TONS/YEAR***

VOC Emissions:

G) (Bituminous Coal - Spreader Stoker) 6,406 tons/yr (x) 0.07 lb/ton (/) 2000 lb/ton = 0.22 tons/yr
(RDF) 77,941 tons/yr (x) 2.0 lb/ton (/) 2000 lb/ton = 77.94 tons/yr
TOTAL = 0.22 + 77.94 = ***78.17 TONS/YEAR***

PM10 Emissions:

H) (Bituminous Coal - Spreader Stoker) 6,406 tons/yr (x) 12 lb/ton (/) 2000 lb/ton = 38.44 tons/yr
(RDF) 77,941 tons/yr (x) 44 lb/ton (/) 2000 lb/ton = 1,714.70 tons/yr
TOTAL = (38.44 + 1,714.70) (x) (1-0.997)= ***5.26 TONS/YEAR***

Boiler No. 3 - Bldg. 1515

CO Emissions:

I) (Bituminous Coal - Spreader Stoker) 10,124 tons/yr (x) 5 lb/ton (/) 2000 lb/ton = 25.31 tons/yr
(RDF) 64,028 tons/yr (x) 3.6 lb/ton (/) 2000 lb/ton = 115.25 tons/yr
TOTAL = 25.31 + 115.25 = ***140.56 TONS/YEAR***

NOx Emissions:

J) (Bituminous Coal - Spreader Stoker) 10,124 tons/yr (x) 14 lb/ton (/) 2000 lb/ton = 70.87 tons/yr
(RDF) 64,028 tons/yr (x) 3.8 lb/ton (/) 2000 lb/ton = 121.65 tons/yr
TOTAL = 70.87 + 121.65 = ***192.52 TONS/YEAR***

VOC Emissions:

K) (Bituminous Coal - Spreader Stoker) 10,124 tons/yr (x) 0.07 lb/ton (/) 2000 lb/ton = 0.35 tons/yr
(RDF) 64,028 tons/yr (x) 2.0 lb/ton (/) 2000 lb/ton = 64.03 tons/yr
TOTAL = 0.35 + 64.03 = ***64.38 TONS/YEAR***

PM10 Emissions:

L) (Bituminous Coal - Spreader Stoker) 10,124 tons/yr (x) 12 lb/ton (/) 2000 lb/ton = 60.74 tons/yr
(RDF) 64,028 tons/yr (x) 44 lb/ton (/) 2000 lb/ton = 1,408.62 tons/yr
TOTAL = (60.74 + 1,408.62) (x) (1-0.997)= ***4.41 TONS/YEAR***

Boiler No. 4 - Bldg. 1515

CO Emissions:

M) (Bituminous Coal - Spreader Stoker) 5,169 tons/yr (x) 5 lb/ton (/) 2000 lb/ton = 12.92 tons/yr
(RDF) 55,137 tons/yr (x) 3.6 lb/ton (/) 2000 lb/ton = 99.25 tons/yr
TOTAL = 12.92 + 99.25= ***112.17 TONS/YEAR***

NOx Emissions:

N) (Bituminous Coal - Spreader Stoker) 5,169 tons/yr (x) 14 lb/ton (/) 2000 lb/ton = 36.18 tons/yr
(RDF) 55,137 tons/yr (x) 3.8 lb/ton (/) 2000 lb/ton = 104.76 tons/yr
TOTAL = 36.18 + 104.76 = ***140.94 TONS/YEAR***

VOC Emissions:

O) (Bituminous Coal - Spreader Stoker) 5,169 tons/yr (x) 0.07 lb/ton (/) 2000 lb/ton = 0.18 tons/yr
(RDF) 55,137 tons/yr (x) 2.0 lb/ton (/) 2000 lb/ton = 55.14 tons/yr
TOTAL = 0.18 + 55.14 = ***55.32 TONS/YEAR***

PM10 Emissions:

P) (Bituminous Coal - Spreader Stoker) 5,169 tons/yr (x) 12 lb/ton (/) 2000 lb/ton = 31.01 tons/yr
(RDF) 55,137 tons/yr (x) 44 lb/ton (/) 2000 lb/ton = 1,213.01 tons/yr
TOTAL = (31.01 + 1,213.01) (x) (1-0.997)= ***3.73 TONS/YEAR***

1990 EMISSIONS CALCULATIONS
ST. JULIEN'S CREEK ANNEX

All calculations are based on fuel consumed and AP-42 emission factors.

Emissions based on amount of ***fuel burned*** (lb/mmcf or lb/mgal) multiplied by ***emission factor*** and divided by ***2000 lb/ton***

Note:
mgal=thousand gallons
mmcf=million cubic feet

Boiler No. 2 - Bldg. 283

CO Emissions:
A) (No. 5 Fuel Oil) 707 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = ***1.77 tons/yr***

NOx Emissions:
B) (No. 5 Fuel Oil) 707 mgal/yr (x) 55 lb/mgal (/) 2000 lb/ton = ***19.44 tons/yr***

VOC Emissions:
C) (No. 5 Fuel Oil) 707 mgal/yr (x) 1.13 lb/mgal (/) 2000 lb/ton = ***0.40 tons/yr***

PM10 Emissions:
D) (No. 5 Fuel Oil) 707 mgal/yr (x) 10 lb/mgal (/) 2000 lb/ton = ***3.54 tons/yr***

Activity: NPWC NORFOLK

Primary UIC: N00187

5d.

	Emissions Sources (Tons/Year)				
Pollutant	Permitted Stationary	Personal Automobiles	Aircraft Emissions	Other Mobile	Total
CO	784.52	N/A	N/A	N/A	784.52
NOx	1361.38	N/A	N/A	N/A	1361.38
VOC	358.02	N/A	N/A	N/A	358.02
PM10	63.98	N/A	N/A	N/A	63.98

Source Document: 1990 Source Registration Update

PERMITTED STATIONARY SOURCES
SUMMARY OF 1993 EMISSIONS PER SITE

5d. (CONTINUED) SOURCES AND CALCULATIONS

PWC SITE	CO (TONS/YEAR)	NOx (TONS/YEAR)	VOC (TONS/YEAR)	PM10 (TONS/YEAR)
Dam Neck	2.95	11.83	0.22	1.41
*Little Creek	0	0	0	0
Norfolk Naval Base	78.09	454.97	5.23	31.17
Oceana	6.81	27.18	0.52	3.24
Portsmouth Naval Hospital	2.22	10.08	0.17	1.53
Refuse Derived Fuel Plant	692.43	839.42	351.52	23.57
St. Julien's Creek Annex	2.02	17.9	0.36	3.06
TOTAL (TONS/YEAR)	***784.52***	***1361.38***	***358.02***	***63.98***

*No permitted sources

SUMMARY OF 1993 EMISSIONS
NAVY PUBLIC WORKS CENTER
DAM NECK
VIRGINIA BEACH, VIRGINIA
PERMITTED STATIONARY SOURCES

SOURCE	CO (TPY)	NOx (TPY)	VOC (TPY)	PM10 (TPY)	COMMENTS
Boiler No. 1 - Bldg. 529	0.82 (See Calc. A)	3.27 (See Calc. B)	0.06 (See Calc. C)	0.36 (See Calc. D)	Emissions based on the use of #4 Fuel Oil and Natural Gas
Boiler No. 2 - Bldg. 529	1.12 (See Calc. E)	4.49 (See Calc. F)	0.08 (See Calc. G)	0.53 (See Calc. H)	Emissions based on the use of #4 Fuel Oil and Natural Gas
Boiler No. 3 - Bldg. 529	1.01 (See Calc. I)	4.07 (See Calc. J)	0.08 (See Calc. K)	0.52 (See Calc. L)	Emissions based on the use of #4 Fuel Oil and Natural Gas
TOTAL (Tons/Year)	***2.95***	***11.83***	***0.22***	***1.41***	

SUMMARY OF 1993 EMISSIONS
NAVY PUBLIC WORKS CENTER
NORFOLK, VIRGINIA
PERMITTED STATIONARY SOURCES

SOURCE	CO (TPY)	NOx (TPY)	VOC (TPY)	PM10 (TPY)
Boiler No. 55 - Bldg. P-1	1.57 (See Calc. A)	15.98 (See Calc. B)	0.09 (See Calc. C)	1.79 (See Calc. D)
Boiler No. 56 - Bldg. P-1	2.73 (See Calc. E)	25.56 (See Calc. F)	0.15 (See Calc. G)	2.77 (See Calc. H)
Boiler No. 57 - Bldg. P-1	3.00 (See Calc. I)	27.19 (See Calc. J)	0.15 (See Calc. K)	2.90 (See Calc. L)
Boiler No. 58 - Bldg. P-1	11.71 (See Calc. M)	139.29 (See Calc. N)	1.57 (See Calc. O)	10.56 (See Calc. P)
Boiler No. 59 - Bldg. P-1	13.53 (See Calc. Q)	40.55 (See Calc. R)	0.53 (See Calc. S)	1.52 (See Calc. T)
Boiler No. 60 - Bldg. P-1	14.67 (See Calc. U)	43.42 (See Calc. V)	0.56 (See Calc. W)	1.52 (See Calc. X)
Boiler No. 61 - Bldg. P-1	16.44 (See Calc. Y)	48.54 (See Calc. Z)	0.63 (See Calc. AA)	1.67 (See Calc. BB)
Boiler No. 62 - Bldg. P-1	8.01 (See Calc. CC)	82.23 (See Calc. DD)	0.92 (See Calc. EE)	6.06 (See Calc. FF)
Boiler No. 83 - Bldg. NH-200	0.48 (See Calc. GG)	4.41 (See Calc. HH)	0.02 (See Calc. II)	0.48 (See Calc. JJ)

SUMMARY OF 1993 EMISSIONS
NAVY PUBLIC WORKS CENTER
NORFOLK, VIRGINIA
PERMITTED STATIONARY SOURCES

SOURCE	CO (TPY)	NOx (TPY)	VOC (TPY)	PM10 (TPY)
Boiler No. 79 - Bldg. SP-85	1.19 (See Calc. KK)	4.76 (See Calc. LL)	0.05 (See Calc. MM)	0.24 (See Calc. NN)
Boiler No. 80 - Bldg. SP-85	1.14 (See Calc. OO)	4.54 (See Calc. PP)	0.04 (See Calc. QQ)	0.23 (See Calc. RR)
Boiler No. 219 - Bldg. Z-309	0.80 (See Calc. SS)	6.39 (See Calc. TT)	0.04 (See Calc. UU)	0.64 (See Calc. VV)
Boiler No. 220 - Bldg. Z-309	0.48 (See Calc. WW)	4.12 (See Calc. XX)	0.03 (See Calc. YY)	0.43 (See Calc. ZZ)
Boiler No. 1 - Bldg. LP-167	0.08 (See Calc. a)	0.33 (See Calc. b)	0 (See Calc. c)	0.02 (See Calc. d)
Boiler No. 2 - Bldg. LP-167	0.09 (See Calc. e)	0.34 (See Calc. f)	0 (See Calc. g)	0.02 (See Calc. h)
Boiler No. 1 - Pier 12	0.26 (See Calc. i)	1.03 (See Calc. j)	0.01 (See Calc. k)	0.05 (See Calc. l)
Generator No. 1 - Bldg. P-1	0.29 (See Calc. m)	0.93 (See Calc. n)	0.08 (See Calc. o)	0.04 (See Calc. p)
Generator No. 2 - Bldg. P-1	0.42 (See Calc. q)	1.31 (See Calc. r)	0.12 (See Calc. s)	0.06 (See Calc. t)

SUMMARY OF 1993 EMISSIONS
NAVY PUBLIC WORKS CENTER
NORFOLK, VIRGINIA
PERMITTED STATIONARY SOURCES

SOURCE	CO (TPY)	NOx (TPY)	VOC (TPY)	PM10 (TPY)
Generator No. 3 - Bldg. P-1	0.26 (See Calc. u)	0.83 (See Calc. v)	0.08 (See Calc. w)	0.04 (See Calc. x)
Generator No. 4 - Bldg. P-1	0.35 (See Calc. y)	1.10 (See Calc. z)	0.01 (See Calc. aa)	0.05 (See Calc. bb)
Generator No. 5 - Bldg. P-1	0.40 (See Calc. cc)	1.25 (See Calc. dd)	0.11 (See Calc. ee)	0.05 (See Calc. ff)
Boiler No. 1 - Bldg. H	0.06 (See Calc. gg)	0.27 (See Calc. hh)	0.01 (See Calc. ii)	0.01 (See Calc. jj)
Boiler No. 2 - Bldg. H	0.06 (See Calc. kk)	0.28 (See Calc. ll)	0.01 (See Calc. mm)	0.01 (See Calc. nn)
Boiler No. 3 - Bldg. H	0.07 (See Calc. oo)	0.32 (See Calc. pp)	0.02 (See Calc. qq)	0.01 (See Calc. rr)
TOTAL (Tons/Year)	***78.09***	***454.97***	***5.23***	***31.17***

SUMMARY OF 1993 EMISSIONS
NAVY PUBLIC WORKS CENTER
OCEANA
VIRGINIA BEACH, VIRGINIA
PERMITTED STATIONARY SOURCES

SOURCE	CO (TPY)	NOx (TPY)	VOC (TPY)	PM10 (TPY)	COMMENTS
Boiler No. 1 - Bldg. 601	2.22 (See Calc. A)	8.87 (See Calc. B)	0.17 (See Calc. C)	1.06 (See Calc. D)	Emissions based on the use of #4 Fuel Oil and Natural Gas
Boiler No. 2 - Bldg. 601	2.22 (See Calc. A)	8.87 (See Calc. B)	0.17 (See Calc. C)	1.06 (See Calc. D)	Emissions based on the use of #4 Fuel Oil and Natural Gas
Boiler No. 3 - Bldg. 601	2.22 (See Calc. A)	8.87 (See Calc. B)	0.17 (See Calc. C)	1.06 (See Calc. D)	Emissions based on the use of #4 Fuel Oil and Natural Gas
Boiler No. 1 - Bldg. 4000	0.05 (See Calc. E)	0.19 (See Calc. F)	0.004 (See Calc. G)	0.02 (See Calc. H)	Emissions based on the use of #2 Fuel Oil and Natural Gas
Boiler No. 2 - Bldg. 4000	0.05 (See Calc. E)	0.19 (See Calc. F)	0.004 (See Calc. G)	0.02 (See Calc. H)	Emissions based on the use of #2 Fuel Oil and Natural Gas
Boiler No. 3 - Bldg. 4000	0.05 (See Calc. E)	0.19 (See Calc. F)	0.004 (See Calc. G)	0.02 (See Calc. H)	Emissions based on the use of #2 Fuel Oil and Natural Gas
TOTAL (Tons/Year)	***6.81***	***27.18***	***0.52***	***3.24***	

SUMMARY OF 1993 EMISSIONS
NAVY PUBLIC WORKS CENTER
NAVAL HOSPITAL
PORTSMOUTH, VIRGINIA
PERMITTED STATIONARY SOURCES

SOURCE	CO (TPY)	NOx (TPY)	VOC (TPY)	PM10 (TPY)	COMMENTS
Boiler No. 105 - Bldg. 20	0.74 (See Calc. A)	3.36 (See Calc. B)	0.06 (See Calc. C)	0.51 (See Calc. D)	*Emissions based on the use of #2 Fuel Oil, #6 Fuel Oil, and Natural Gas
Boiler No. 106 - Bldg. 20	0.74 (See Calc. A)	3.36 (See Calc. B)	0.06 (See Calc. C)	0.51 (See Calc. D)	*Emissions based on the use of #2 Fuel Oil, #6 Fuel Oil, and Natural Gas
Boiler No. 107 - Bldg. 20	0.74 (See Calc. A)	3.36 (See Calc. B)	0.06 (See Calc. C)	0.51 (See Calc. D)	*Emissions based on the use of #2 Fuel Oil, #6 Fuel Oil, and Natural Gas
Boiler No. 108 - Bldg. 20	0.74 (See Calc. A)	3.36 (See Calc. B)	0.06 (See Calc. C)	0.51 (See Calc. D)	*Emissions based on the use of #2 Fuel Oil, #6 Fuel Oil, and Natural Gas
TOTAL (Tons/Year)	***2.22***	***10.08***	***0.17***	***1.53***	

* - As of March 1993, boilers no longer use #6 Fuel Oil

SUMMARY OF 1993 EMISSIONS
NAVY PUBLIC WORKS CENTER
REFUSE DERIVED FUEL PLANT
PORTSMOUTH, VIRGINIA
PERMITTED STATIONARY SOURCES

SOURCE	CO (TPY)	NOx (TPY)	VOC (TPY)	PM10 (TPY)	COMMENTS
Boiler No. 1 - Bldg. 1515	154.10 (See Calc. A)	188.23 (See Calc. B)	77.82 (See Calc. C)	5.22 (See Calc. D)	Emissions based on the use of #2 Fuel Oil, Coal, and RDF
Boiler No. 2 - Bldg. 1515	167.20 (See Calc. E)	201.83 (See Calc. F)	85.11 (See Calc. G)	5.71 (See Calc. H)	Emissions based on the use of #2 Fuel Oil, Coal, and RDF
Boiler No. 3 - Bldg. 1515	184.68 (See Calc. I)	229.03 (See Calc. J)	92.19 (See Calc. K)	6.20 (See Calc. L)	Emissions based on the use of #2 Fuel Oil, Coal, and RDF
Boiler No. 4 - Bldg. 1515	186.45 (See Calc. M)	220.33 (See Calc. N)	96.4 (See Calc. O)	6.44 (See Calc. P)	Emissions based on the use of #2 Fuel Oil, Coal, and RDF
TOTAL (Tons/Year)	***692.43***	***839.42***	***351.52***	***23.57***	

SUMMARY OF 1993 EMISSIONS
NAVY PUBLIC WORKS CENTER
ST. JULIEN'S CREEK ANNEX
CHESAPEAKE, VIRGINIA
PERMITTED STATIONARY SOURCES

SOURCE	CO (TPY)	NOx (TPY)	VOC (TPY)	PM10 (TPY)	COMMENTS
Boiler No. 1 - Bldg. 283	1.01 (See Calc. A)	8.95 (See Calc. B)	0.18 (See Calc. C)	1.53 (See Calc. D)	$Emissions based on the use of #2 and #5 Fuel Oil
Boiler No. 2 - Bldg. 283	1.01 (See Calc. A)	8.95 (See Calc. B)	0.18 (See Calc. C)	1.53 (See Calc. D)	$Emissions based on the use of #2 and #5 Fuel Oil
Boiler No. 3 - Bldg. 283	0	0	0	0	Under Construction
TOTAL (Tons/Year)	**2.02**	**17.9**	**0.36**	**3.06**	

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$ - As of March 1993, boilers no longer use #5 Fuel Oil

1993 EMISSIONS CALCULATIONS
DAM NECK
VIRGINIA BEACH, VIRGINIA

All calculations are based on fuel consumed and AP-42 emission factors.

Emissions based on amount of ***fuel burned*** (lb/mmcf or lb/mgal) multiplied by ***emission factor*** and divided by ***2000 lb/ton***

Note:
mgal=thousand gallons
mmcf=million cubic feet

Boiler No. 1 - Bldg. 529

CO Emissions:

A) (No. 4 Fuel Oil) 13 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.03 tons/yr
(Natural Gas) 45 mmcf/yr (x) 35 lb/mmcf (/) 2000 lb/ton = 0.79 tons/yr
TOTAL = 0.03 + 0.79 = ***0.82 TONS/YEAR***

NOx Emissions:

B) (No. 4 Fuel Oil) 13 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.13 tons/yr
(Natural Gas) 45 mmcf/yr (x) 140 lb/mmcf (/) 2000 lb/ton = 3.41 tons/yr
TOTAL = 0.13 + 3.14 = ***3.27 TONS/YEAR***

VOC Emissions:

C) (No. 4 Fuel Oil) 13 mgal/yr (x) 0.2 lb/mgal (/) 2000 lb/ton = 0.001 tons/yr
(Natural Gas) 45 mmcf/yr (x) 2.8 lb/mmcf (/) 2000 lb/ton = 0.06 tons/yr
TOTAL = 0.001 + 0.06 = ***0.06 TONS/YEAR***

PM10 Emissions:

D) (No. 4 Fuel Oil) 13 mgal/yr (x) 7 lb/mgal (/) 2000 lb/ton = 0.05 tons/yr
(Natural Gas) 45 mmcf/yr (x) 13.7 lb/mmcf (/) 2000 lb/ton = 0.31 tons/yr
TOTAL = 0.05 + 0.31 = ***0.36 TONS/YEAR***

Boiler No. 2 - Bldg. 529

CO Emissions:

E) (No. 4 Fuel Oil) 37 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.09 tons/yr
(Natural Gas) 59 mmcf/yr (x) 35 lb/mmcf (/) 2000 lb/ton = 1.03 tons/yr
TOTAL = 0.09 + 1.03 = ***1.12 TONS/YEAR***

NOx Emissions:

F) (No. 4 Fuel Oil) 37 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.37 tons/yr
(Natural Gas) 59 mmcf/yr (x) 140 lb/mmcf (/) 2000 lb/ton = 4.12 tons/yr
TOTAL = 0.37 + 4.12 = ***4.49 TONS/YEAR***

VOC Emissions:

G) (No. 4 Fuel Oil) 37 mgal/yr (x) 0.2 lb/mgal (/) 2000 lb/ton = 0.004 tons/yr
(Natural Gas) 59 mmcf/yr (x) 2.8 lb/mmcf (/) 2000 lb/ton = 0.08tons/yr
TOTAL = 0.004+ 0.08= ***0.08 TONS/YEAR***

PM10 Emissions:

H) (No. 4 Fuel Oil) 37gal/yr (x) 7 lb/mgal (/) 2000 lb/ton = 0.13 tons/yr
(Natural Gas) 59 mmcf/yr (x) 13.7 lb/mmcf (/) 2000 lb/ton = 0.40 tons/yr
TOTAL = 0.13 + 0.40 = ***0.53 TONS/YEAR***

Boiler No. 3 - Bldg. 529

CO Emissions:

I) (No. 4 Fuel Oil) 49 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.12 tons/yr
(Natural Gas) 51 mmcf/yr (x) 35 lb/mmcf (/) 2000 lb/ton = 0.89 tons/yr
TOTAL = 0.12 + 0.89 = ***1.01 TONS/YEAR***

NOx Emissions:

J) (No. 4 Fuel Oil) 49 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.49 tons/yr
(Natural Gas) 51 mmcf/yr (x) 140 lb/mmcf (/) 2000 lb/ton = 3.58 tons/yr
TOTAL = 0.49 + 3.58 = ***4.07 TONS/YEAR***

VOC Emissions:

K) (No. 4 Fuel Oil) 49 mgal/yr (x) 0.2 lb/mgal (/) 2000 lb/ton = 0.005 tons/yr
(Natural Gas) 51 mmcf/yr (x) 2.8 lb/mmcf (/) 2000 lb/ton = 0.07tons/yr
TOTAL = 0.005+ 0.07= ***0.08 TONS/YEAR***

PM10 Emissions:

L) (No. 4 Fuel Oil) 49gal/yr (x) 7 lb/mgal (/) 2000 lb/ton = 0.17 tons/yr
(Natural Gas) 51 mmcf/yr (x) 13.7 lb/mmcf (/) 2000 lb/ton = 0.35 tons/yr
TOTAL = 0.17 + 0.35 = ***0.52 TONS/YEAR***

1993 EMISSIONS CALCULATIONS
NORFOLK

All calculations are based on fuel consumed and AP-42 emission factors.

Emissions based on amount of ***fuel burned*** (lb/mmcf or lb/mgal) multiplied by ***emission factor*** and divided by ***2000 lb/ton***

Note:
mgal=thousand gallons
mmcf=million cubic feet

Boiler No. 55 - Bldg. P-1

CO Emissions:

A) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 72 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.18 tons/yr
(No. 4 Fuel Oil - NSFO) 555 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 1.39 tons/yr
TOTAL = 0.18 + 1.39 = ***1.57 TONS/YEAR***

NOx Emissions:

B) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 72 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.72 tons/yr
(No. 4 Fuel Oil - NSFO) 555 mgal/yr (x) 55 lb/mgal (/) 2000 lb/ton = 15.26 tons/yr
TOTAL = 0.72 + 15.26 = ***15.98 TONS/YEAR***

VOC Emissions:

C) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 72 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(No. 4 Fuel Oil - NSFO) 555 mgal/yr (x) 0.28 lb/mgal (/) 2000 lb/ton = 0.08 tons/yr
TOTAL = 0.01 + 0.08 = ***0.09 TONS/YEAR***

PM10 Emissions:

D) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 72 mgal/yr (x) 7.41 lb/mgal (/) 2000 lb/ton = 0.27 tons/yr
(No. 4 Fuel Oil - NSFO) 555 mgal/yr (x) 42.04 mgal (/) 2000 lb/ton = 11.67 tons/yr
TOTAL = (0.27 + 11.67) (x) (1-0.85)= ***1.79 TONS/YEAR***

Boiler No. 56 - Bldg. P-1

CO Emissions:

E) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 251 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.63 tons/yr
(No. 4 Fuel Oil - NSFO) 838 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 2.10 tons/yr
TOTAL = 0.63 + 2.10 = ***2.73 TONS/YEAR***

NOx Emissions:

F) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 251 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 2.51 tons/yr
(No. 4 Fuel Oil - NSFO) 838 mgal/yr (x) 55 lb/mgal (/) 2000 lb/ton = 23.05 tons/yr
TOTAL = 2.51 + 23.05 = ***25.56 TONS/YEAR***

VOC Emissions:

G) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 251 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.03 tons/yr
(No. 4 Fuel Oil - NSFO) 838 mgal/yr (x) 0.28 lb/mgal (/) 2000 lb/ton = 0.12 tons/yr
TOTAL = 0.03 + 0.12 = ***0.15 TONS/YEAR***

PM10 Emissions:

H) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 251 mgal/yr (x) 7.41 lb/mgal (/) 2000 lb/ton = 0.93 tons/yr
(No. 4 Fuel Oil - NSFO) 838 mgal/yr (x) 42.04 mgal (/) 2000 lb/ton = 17.62 tons/yr
TOTAL = (0.93 + 17.62) (x) (1-0.85)= ***2.77 TONS/YEAR***

Boiler No. 57 - Bldg. P-1

CO Emissions:

I) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 326 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.82 tons/yr
(No. 4 Fuel Oil - NSFO) 870 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 2.18 tons/yr
TOTAL = 0.82 + 2.18 = ***3.00 TONS/YEAR***

NOx Emissions:

J) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 326 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 3.26 tons/yr
(No. 4 Fuel Oil - NSFO) 870 mgal/yr (x) 55 lb/mgal (/) 2000 lb/ton = 23.93 tons/yr
TOTAL = 3.26 + 23.93 = ***27.19 TONS/YEAR***

VOC Emissions:

K) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 326 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.03 tons/yr
(No. 4 Fuel Oil - NSFO) 870 mgal/yr (x) 0.28 lb/mgal (/) 2000 lb/ton = 0.12 tons/yr
TOTAL = 0.03 + 0.12 = ***0.15 TONS/YEAR***

PM10 Emissions:

L) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 326 mgal/yr (x) 6.54 lb/mgal (/) 2000 lb/ton = 1.07 tons/yr
(No. 4 Fuel Oil - NSFO) 870 mgal/yr (x) 41.99 mgal (/) 2000 lb/ton = 18.27 tons/yr
TOTAL = (1.07 + 18.27) (x) (1-0.85)= ***2.90 TONS/YEAR***

Boiler No. 58 - Bldg. P-1

CO Emissions:

M) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 747 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 1.87 tons/yr
(No. 4 Fuel Oil - NSFO) 3,935 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 9.84 tons/yr
TOTAL = 1.87 + 9.84 = ***11.71 TONS/YEAR***

NOx Emissions:

N) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 747 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 7.47 tons/yr
(No. 4 Fuel Oil - NSFO) 3,935 mgal/yr (x) 67 lb/mgal (/) 2000 lb/ton = 131.32 tons/yr
TOTAL = 7.47 + 131.82 = ***139.29 TONS/YEAR***

VOC Emissions:

O) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 747 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.075 tons/yr
(No. 4 Fuel Oil - NSFO) 3,935 mgal/yr (x) 0.76 lb/mgal (/) 2000 lb/ton = 1.50 tons/yr
TOTAL = 0.075 + 1.50 = ***1.57 TONS/YEAR***

PM10 Emissions:

P) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 747 mgal/yr (x) 1 lb/mgal (/) 2000 lb/ton = 0.37 tons/yr
(No. 4 Fuel Oil - NSFO) 3,935 mgal/yr (x) 5.18 mgal (/) 2000 lb/ton = 10.19 tons/yr
TOTAL = (0.37 + 10.19) = ***10.56 TONS/YEAR***

Boiler No. 59 - Bldg. P-1:

CO Emissions:

Q) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 20 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.05 tons/yr
(No. 4 Fuel Oil - NSFO) 208 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.52 tons/yr
(Natural Gas) 648 mmcf/yr (x) 40 lb/mmcf (/) 2000 lb/ton = 12.96 tons/yr
TOTAL = 0.05 + 0.52 + 12.96 = ***13.53 TONS/YEAR***

NOx Emissions:

R) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 20 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.20 tons/yr
(No. 4 Fuel Oil - NSFO) 208 mgal/yr (x) 33.38 lb/mgal (/) 2000 lb/ton = 3.47 tons/yr
(Natural Gas) 648 mmcf/yr (x) 113.83 lb/mmcf (/) 2000 lb/ton = 36.88 tons/yr
TOTAL = 0.20 + 3.47 + 36.88 = ***40.55 TONS/YEAR***

VOC Emissions:

S) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 20 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.002 tons/yr
(No. 4 Fuel Oil - NSFO) 208 mgal/yr (x) 0.76 lb/mgal (/) 2000 lb/ton = 0.079 tons/yr
(Natural Gas) 648 mmcf/yr (x) 1.4 lb/mmcf (/) 2000 lb/ton = 0.45 tons/yr
TOTAL = 0.002 + 0.079 + 0.45 = ***0.53 TONS/YEAR***

PM10 Emissions:

T) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 20 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.02 tons/yr
(No. 4 Fuel Oil - NSFO) 208 mgal/yr (x) 8.65 lb/mgal (/) 2000 lb/ton = 0.90 tons/yr
(Natural Gas) 648 mmcf/yr (x) 4.99 lb/mmcf (/) 2000 lb/ton = 1.62 tons/yr
TOTAL = (0.02 + 0.90 + 1.62) (x) (1-0.4)= ***1.52 TONS/YEAR***

Boiler No. 60 - Bldg. P-1

CO Emissions:

U) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 17 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.04 tons/yr
(No. 4 Fuel Oil - NSFO) 170 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.43 tons/yr
(Natural Gas) 710 mmcf/yr (x) 40 lb/mmcf (/) 2000 lb/ton = 14.20 tons/yr
TOTAL = 0.04 + 0.43 + 14.20 = ***14.67 TONS/YEAR***

NOx Emissions:

V) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 17 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.17 tons/yr
(No. 4 Fuel Oil - NSFO) 170 mgal/yr (x) 33.38 lb/mgal (/) 2000 lb/ton = 2.84 tons/yr
(Natural Gas) 710 mmcf/yr (x) 113.83 lb/mmcf (/) 2000 lb/ton = 40.41 tons/yr
TOTAL = 0.17 + 2.84 + 40.41 = ***43.42 TONS/YEAR***

VOC Emissions:

W) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 17 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.002 tons/yr
(No. 4 Fuel Oil - NSFO) 170 mgal/yr (x) 0.76 lb/mgal (/) 2000 lb/ton = 0.065 tons/yr
(Natural Gas) 710 mmcf/yr (x) 1.4 lb/mmcf (/) 2000 lb/ton = 0.50 tons/yr
TOTAL = 0.002 + 0.065 + 0.50 = ***0.56 TONS/YEAR***

PM10 Emissions:

X) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 17 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.017 tons/yr
(No. 4 Fuel Oil - NSFO) 170 mgal/yr (x) 8.65 lb/mgal (/) 2000 lb/ton = 0.74 tons/yr
(Natural Gas) 710 mmcf/yr (x) 4.99 lb/mmcf (/) 2000 lb/ton = 1.77 tons/yr
TOTAL = (0.017 + 0.74 + 1.77) (x) (1-0.4)= ***1.52 TONS/YEAR***

Boiler No. 61 - Bldg. P-1

CO Emissions:

Y) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 23 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.06 tons/yr
(No. 4 Fuel Oil - NSFO) 177 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.44 tons/yr
(Natural Gas) 797 mmcf/yr (x) 40 lb/mmcf (/) 2000 lb/ton = 15.94 tons/yr
TOTAL = 0.06 + 0.44 + 15.94 = ***16.44 TONS/YEAR***

NOx Emissions:

Z) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 23 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.23 tons/yr
(No. 4 Fuel Oil - NSFO) 177 mgal/yr (x) 33.38 lb/mgal (/) 2000 lb/ton = 2.95 tons/yr
(Natural Gas) 797 mmcf/yr (x) 113.83 lb/mmcf (/) 2000 lb/ton = 45.36 tons/yr
TOTAL = 0.23 + 2.95 + 45.36 = ***48.54 TONS/YEAR***

VOC Emissions:

AA) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 23 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.002 tons/yr
(No. 4 Fuel Oil - NSFO) 177 mgal/yr (x) 0.76 lb/mgal (/) 2000 lb/ton = 0.067 tons/yr
(Natural Gas) 797 mmcf/yr (x) 1.4 lb/mmcf (/) 2000 lb/ton = 0.56 tons/yr
TOTAL = 0.002 + 0.067 + 0.56 = ***0.63 TONS/YEAR***

PM10 Emissions:

BB) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 23 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.023 tons/yr
(No. 4 Fuel Oil - NSFO) 177 mgal/yr (x) 8.65 lb/mgal (/) 2000 lb/ton = 0.77 tons/yr
(Natural Gas) 797 mmcf/yr (x) 4.99 lb/mmcf (/) 2000 lb/ton = 1.99 tons/yr
TOTAL = (0.023 + 0.77 + 1.99) (x) (1-0.4)= ***1.67 TONS/YEAR***

Boiler No. 62 - Bldg. P-1

CO Emissions:

CC) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 1,067 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 2.67 tons/yr
(No. 4 Fuel Oil - NSFO) 2,136 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 5.34 tons/yr
TOTAL = 2.67 + 5.34 = ***8.01 TONS/YEAR***

NOx Emissions:

DD) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 1,067 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 10.67 tons/yr
(No. 4 Fuel Oil - NSFO) 2,136 mgal/yr (x) 67 lb/mgal (/) 2000 lb/ton = 71.56 tons/yr
TOTAL = 10.67 + 71.56 = ***82.23 TONS/YEAR***

VOC Emissions:

EE) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 1,067 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.11 tons/yr
(No. 4 Fuel Oil - NSFO) 2,136 mgal/yr (x) 0.76 lb/mgal (/) 2000 lb/ton = 0.81 tons/yr
TOTAL = 0.11 + 0.81 = ***0.92 TONS/YEAR***

PM10 Emissions:

FF) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 1,067 mgal/yr (x) 1.66 lb/mgal (/) 2000 lb/ton = 0.89 tons/yr
(No. 4 Fuel Oil - NSFO) 2,136 mgal/yr (x) 8.63 lb/mgal (/) 2000 lb/ton = 9.22 tons/yr
TOTAL = (0.89 + 9.22) (x) (1-0.4)= ***6.06 TONS/YEAR***

Boiler No. 83 - Bldg. NH-200

CO Emissions:

GG) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 13 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.03 tons/yr
(No. 2 Fuel Oil) 35 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.09 tons/yr
(No. 4 Fuel Oil - NSFO) 143 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.36 tons/yr
TOTAL = 0.03 + 0.09 + 0.36= ***0.48 TONS/YEAR***

NOx Emissions:

HH) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 13 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.13 tons/yr
(No. 2 Fuel Oil) 35 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.35 tons/yr
(No. 4 Fuel Oil - NSFO) 143 mgal/yr (x) 55 lb/mgal (/) 2000 lb/ton = 3.93 tons/yr
TOTAL = 0.13 + 0.35 + 3.93= ***4.41 TONS/YEAR***

VOC Emissions:

II) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 13 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.001 tons/yr
(No. 2 Fuel Oil) 35 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.004 tons/yr
(No. 4 Fuel Oil - NSFO) 143 mgal/yr (x) 0.28 lb/mgal (/) 2000 lb/ton = 0.02 tons/yr
TOTAL = 0.001 + 0.004 + 0.02 = ***0.02 TONS/YEAR***

PM10 Emissions:

JJ) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 13 mgal/yr (x) 1 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(No. 2 Fuel Oil) 35 mgal/yr (x) 1.14 lb/mgal (/) 2000 lb/ton = 0.02 tons/yr
(No. 4 Fuel Oil - NSFO) 143 mgal/yr (x) 6.29 mgal (/) 2000 lb/ton = 0.45 tons/yr
TOTAL = (0.01 + 0.02 + 0.45) = ***0.48 TONS/YEAR***

Boiler No. 79 - Bldg. SP-85

CO Emissions:

KK) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 305 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.76 tons/yr
(No. 2 Fuel Oil) 171 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.43 tons/yr
TOTAL = 0.76 + 0.43 = ***1.19 TONS/YEAR***

NOx Emissions:

LL) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 305 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 3.05 tons/yr
(No. 2 Fuel Oil) 171 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 1.71 tons/yr
TOTAL = 3.05 + 1.71 = ***4.76 TONS/YEAR***

VOC Emissions:

MM) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 305 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.03 tons/yr
(No. 2 Fuel Oil) 171 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.02 tons/yr
TOTAL = 0.03 + 0.02 = ***0.05 TONS/YEAR***

PM10 Emissions:

NN) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 305 mgal/yr (x) 1 lb/mgal (/) 2000 lb/ton = 0.15 tons/yr
(No. 2 Fuel Oil) 171 mgal/yr (x) 1.14 lb/mgal (/) 2000 lb/ton = 0.09 tons/yr
TOTAL = (0.15 + 0.09) = ***0.24 TONS/YEAR***

Boiler No. 80 - Bldg. SP-85

CO Emissions:

OO) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 214 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.54 tons/yr
(No. 2 Fuel Oil) 240 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.60 tons/yr
TOTAL = 0.54 + 0.60 = ***1.14 TONS/YEAR***

NOx Emissions:

PP) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 214 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 2.14 tons/yr
(No. 2 Fuel Oil) 240 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 2.40 tons/yr
TOTAL = 2.14 + 2.40 = ***4.54 TONS/YEAR***

VOC Emissions:

QQ) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 214 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.02 tons/yr
(No. 2 Fuel Oil) 240 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.02 tons/yr
TOTAL = 0.02 + 0.02 = ***0.04 TONS/YEAR***

PM10 Emissions:

RR) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 214 mgal/yr (x) 1 lb/mgal (/) 2000 lb/ton = 0.11 tons/yr
(No. 2 Fuel Oil) 240 mgal/yr (x) 1 lb/mgal (/) 2000 lb/ton = 0.12 tons/yr
TOTAL = (0.11 + 0.12) = ***0.23 TONS/YEAR***

Boiler No. 219 - Bldg. Z-309

CO Emissions:

SS) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 141 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.35 tons/yr
(No. 4 Fuel Oil - NSFO) 181 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.45 tons/yr
TOTAL = 0.34 + 0.45 = ***0.80 TONS/YEAR***

NOx Emissions:

TT) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 141 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 1.41 tons/yr
(No. 4 Fuel Oil - NSFO) 181 mgal/yr (x) 55 lb/mgal (/) 2000 lb/ton = 4.98 tons/yr
TOTAL = 1.41 + 4.98 = ***6.39 TONS/YEAR***

VOC Emissions:

UU) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 141 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(No. 4 Fuel Oil - NSFO) 181 mgal/yr (x) 0.28 lb/mgal (/) 2000 lb/ton = 0.03 tons/yr
TOTAL = 0.01 + 0.03 = ***0.04 TONS/YEAR***

PM10 Emissions:

VV) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 141 mgal/yr (x) 1 lb/mgal (/) 2000 lb/ton = 0.07 tons/yr
(No. 4 Fuel Oil - NSFO) 181 mgal/yr (x) 6.29 mgal (/) 2000 lb/ton = 0.57 tons/yr
TOTAL = (0.07 + 0.57) = ***0.64 TONS/YEAR***

Boiler No. 220 - Bldg. Z-309

CO Emissions:

WW) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 63 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.16 tons/yr
(No. 4 Fuel Oil - NSFO) 127 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.32 tons/yr
TOTAL = 0.16 + 0.32 = ***0.48 TONS/YEAR***

NOx Emissions:

XX) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 63 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.63 tons/yr
(No. 4 Fuel Oil - NSFO) 127 mgal/yr (x) 55 lb/mgal (/) 2000 lb/ton = 3.49 tons/yr
TOTAL = 0.63 + 3.49 = ***4.12 TONS/YEAR***

VOC Emissions:

YY) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 63 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(No. 4 Fuel Oil - NSFO) 127 mgal/yr (x) 0.28 lb/mgal (/) 2000 lb/tor = 0.02 tons/yr
TOTAL = 0.01 + 0.02 = ***0.03 TONS/YEAR***

PM10 Emissions:

ZZ) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 63 mgal/yr (x) 1 lb/mgal (/) 2000 lb/ton = 0.03 tons/yr
(No. 4 Fuel Oil - NSFO) 127 mgal/yr (x) 6.29 mgal (/) 2000 lb/ton = 0.40 tons/yr
TOTAL = (0.03 + 0.40) = ***0.43 TONS/YEAR***

Boiler No. 1 - Bldg. LP-167

CO Emissions:

a) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 33 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = ***0.08 tons/yr***

NOx Emissions:

b) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 33 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = ***0.33 tons/yr***

VOC Emissions:

c) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 33 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = ***0 tons/yr***

PM10 Emissions:

d) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 33 mgal/yr (x) 1 lb/mgal (/) 2000 lb/ton = ***0.02 tons/yr***

Boiler No. 2 - Bldg. LP-167

CO Emissions:

e) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 34 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = ***0.09 tons/yr***

NOx Emissions:

f) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 34 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = ***0.34 tons/yr***

VOC Emissions:

g) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 34 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = ***0 tons/yr***

PM10 Emissions:

h) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 34 mgal/yr (x) 1 lb/mgal (/) 2000 lb/ton = ***0.02 tons/yr***

Boiler No. 1 - Pier 12

CO Emissions:

i) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 103 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = ***0.26 tons/yr***

NOx Emissions:

j) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 103 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = ***1.03 tons/yr***

VOC Emissions:
k) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 103 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = ***0.01 tons/yr***

PM10 Emissions:
l) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 103 mgal/yr (x) 1 lb/mgal (/) 2000 lb/ton = ***0.05 tons/yr***

Generator No. 1 - Bldg. P-1

CO Emissions:
m) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 6.05 mgal/yr (x) 95.87 lb/mgal (/) 2000 lb/ton = ***0.29 tons/yr***

NOx Emissions:
n) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 6.05 mgal/yr (x) 443.42 lb/mgal (/) 2000 lb/ton = ***1.34 tons/yr***
TOTAL = (1.34) (x) (1-0.31)= ***0.93 TONS/YEAR***

VOC Emissions:
o) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 6.05 mgal/yr (x) 27.8 lb/mgal (/) 2000 lb/ton = ***0.08 tons/yr***

PM10 Emissions:
p) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 6.05 mgal/yr (x) 13.22 lb/mgal (/) 2000 lb/ton = ***0.04 tons/yr***

Generator No. 2 - Bldg. P-1

CO Emissions:
q) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 8.57 mgal/yr (x) 95.87 lb/mgal (/) 2000 lb/ton = ***0.42 tons/yr***

NOx Emissions:
r) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 8.57 mgal/yr (x) 443.42 lb/mgal (/) 2000 lb/ton = ***1.90 tons/yr***
TOTAL = (1.90) (x) (1-0.31)= ***1.31 TONS/YEAR***

VOC Emissions:
s) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 8.57 mgal/yr (x) 27.8 lb/mgal (/) 2000 lb/ton = ***0.12 tons/yr***

PM10 Emissions:
t) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 8.57 mgal/yr (x) 13.22 lb/mgal (/) 2000 lb/ton = ***0.06 tons/yr***

Generator No. 3 - Bldg. P-1

CO Emissions:
u) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 5.44 mgal/yr (x) 95.87 lb/mgal (/) 2000 lb/ton = ***0.26 tons/yr***

NOx Emissions:
v) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 5.44 mgal/yr (x) 443.42 lb/mgal (/) 2000 lb/ton = ***1.21 tons/yr***
TOTAL = (1.21) (x) (1-0.31)= ***0.83 TONS/YEAR***

VOC Emissions:
w) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 5.44 mgal/yr (x) 27.8 lb/mgal (/) 2000 lb/ton = ***0.08 tons/yr***

PM10 Emissions:
x) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 5.44 mgal/yr (x) 13.22 lb/mgal (/) 2000 lb/ton = ***0.04 tons/yr***

Generator No. 4 - Bldg. P-1

CO Emissions:

y) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 7.20 mgal/yr (x) 95.87 lb/mgal (/) 2000 lb/ton = ***0.35 tons/yr***

NOx Emissions:

z) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 7.20 mgal/yr (x) 443.42 lb/mgal (/) 2000 lb/ton = ***1.60 tons/yr***
TOTAL = (1.60) (x) (1-0.31)= ***1.10 TONS/YEAR***

VOC Emissions:

aa) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 7.20 mgal/yr (x) 27.8 lb/mgal (/) 2000 lb/ton = ***0.01 tons/yr***

PM10 Emissions:

bb) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 7.20 mgal/yr (x) 13.22 lb/mgal (/) 2000 lb/ton = ***0.05 tons/yr***

Generator No. 5 - Bldg. P-1

CO Emissions:

cc) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 8.15 mgal/yr (x) 95.87 lb/mgal (/) 2000 lb/ton = ***0.40 tons/yr***

NOx Emissions:

dd) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 8.15 mgal/yr (x) 443.42 lb/mgal (/) 2000 lb/ton = ***1.81 tons/yr***
TOTAL = (1.81) (x) (1-0.31)= ***1.25 TONS/YEAR***

VOC Emissions:

ee) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 8.15 mgal/yr (x) 27.8 lb/mgal (/) 2000 lb/ton = ***0.11 tons/yr***

PM10 Emissions:

ff) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 8.15 mgal/yr (x) 13.22 lb/mgal (/) 2000 lb/ton = ***0.05 tons/yr***

Boiler No. 1 - Bldg. H

CO Emissions:

gg) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 2 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(Natural Gas) 5 mmcf/yr (x) 20 lb/mmcf (/) 2000 lb/ton = 0.05 tons/yr
TOTAL = 0.01 + 0.05 = ***0.06 TONS/YEAR***

NOx Emissions:

hh) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 2 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.02 tons/yr
(Natural Gas) 5 mmcf/yr (x) 100 lb/mmcf (/) 2000 lb/ton = 0.25 tons/yr
TOTAL = 0.02 + 0.25= ***0.27 TONS/YEAR***

VOC Emissions:

ii) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 2 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.00 tons/yr
(Natural Gas) 5 mmcf/yr (x) 5.3 lb/mmcf (/) 2000 lb/ton = 0.01 tons/yr
TOTAL = 0.00 + 0.01 = ***0.01 TONS/YEAR***

PM10 Emissions:

jj) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 2 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.002 tons/yr
(Natural Gas) 5 mmcf/yr (x) 3 lb/mmcf (/) 2000 lb/ton = 0.01 tons/yr
TOTAL = (0.002 + 0.01)= ***0.01 TONS/YEAR***

Boiler No. 2 - Bldg. H

CO Emissions:

kk) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 3 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(Natural Gas) 5 mmcf/yr (x) 20 lb/mmcf (/) 2000 lb/ton = 0.05 tons/yr
TOTAL = 0.01 + 0.05 = ***0.06 TONS/YEAR***

NOx Emissions:

ll) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 3 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.03 tons/yr
(Natural Gas) 5 mmcf/yr (x) 100 lb/mmcf (/) 2000 lb/ton = 0.25 tons/yr
TOTAL = 0.03 + 0.25= ***0.28 TONS/YEAR***

VOC Emissions:

mm) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 3 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.00 tons/yr
(Natural Gas) 5 mmcf/yr (x) 5.3 lb/mmcf (/) 2000 lb/ton = 0.01 tons/yr
TOTAL = 0.00 + 0.01 = ***0.01 TONS/YEAR***

PM10 Emissions:

nn) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 3 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.003 tons/yr
(Natural Gas) 5 mmcf/yr (x) 3 lb/mmcf (/) 2000 lb/ton = 0.01 tons/yr
TOTAL = (0.003 + 0.01)= ***0.01 TONS/YEAR***

Boiler No. 3 - Bldg. H

CO Emissions:

oo) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 2 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(Natural Gas) 6 mmcf/yr (x) 20 lb/mmcf (/) 2000 lb/ton = 0.06 tons/yr
TOTAL = 0.01 + 0.06 = ***0.07 TONS/YEAR***

NOx Emissions:

pp) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 2 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.02 tons/yr
(Natural Gas) 6 mmcf/yr (x) 100 lb/mmcf (/) 2000 lb/ton = 0.30 tons/yr
TOTAL = 0.02 + 0.30= ***0.32 TONS/YEAR***

VOC Emissions:

qq) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 2 mgal/yr (x) 0.20 lb/mgal (/) 2000 lb/ton = 0.00 tons/yr
(Natural Gas) 6 mmcf/yr (x) 5.3 lb/mmcf (/) 2000 lb/ton = 0.02 tons/yr
TOTAL = 0.00 + 0.02 = ***0.02 TONS/YEAR***

PM10 Emissions:

rr) (No. 2 Fuel Oil - Fuel Oil Reclaimed) 2 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.002 tons/yr
(Natural Gas) 6 mmcf/yr (x) 3 lb/mmcf (/) 2000 lb/ton = 0.01 tons/yr
TOTAL = (0.002 + 0.01)= ***0.01 TONS/YEAR***

1993 EMISSIONS CALCULATIONS
OCEANA

All calculations are based on fuel consumed and AP-42 emission factors.

Emissions based on amount of ***fuel burned*** (lb/mmcf or lb/mgal) multiplied by ***emission factor*** and divided by ***2000 lb/ton***

Note:
mgal=thousand gallons
mmcf=million cubic feet

Boiler No. 1 - Bldg. 601

CO Emissions:

A) (No. 4 Fuel Oil) 75 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.19 tons/yr
(Natural Gas) 116 mmcf/yr (x) 35 lb/mmcf (/) 2000 lb/ton = 2.03 tons/yr
TOTAL = 0.19 + 2.03 = ***2.22 TONS/YEAR***

NOx Emissions:

B) (No. 4 Fuel Oil) 75 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.75 tons/yr
(Natural Gas) 116 mmcf/yr (x) 140 lb/mmcf (/) 2000 lb/ton = 8.12 tons/yr
TOTAL = 0.75 + 8.12 = ***8.87 TONS/YEAR***

VOC Emissions:

C) (No. 4 Fuel Oil) 75 mgal/yr (x) 0.2 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(Natural Gas) 116 mmcf/yr (x) 2.8 lb/mmcf (/) 2000 lb/ton = 0.16 tons/yr
TOTAL = 0.01 + 0.16 = ***0.17 TONS/YEAR***

PM10 Emissions:

D) (No. 4 Fuel Oil) 75 mgal/yr (x) 7 lb/mgal (/) 2000 lb/ton = 0.26 tons/yr
(Natural Gas) 116 mmcf/yr (x) 13.7 lb/mmcf (/) 2000 lb/ton = 0.79 tons/yr
TOTAL = 0.26 + 0.79 = ***1.06 TONS/YEAR***

Boiler No. 2 - Bldg. 601

CO Emissions:

A) (No. 4 Fuel Oil) 75 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.19 tons/yr
(Natural Gas) 116 mmcf/yr (x) 35 lb/mmcf (/) 2000 lb/ton = 2.03 tons/yr
TOTAL = 0.19 + 2.03 = ***2.22 TONS/YEAR***

NOx Emissions:

B) (No. 4 Fuel Oil) 75 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.75 tons/yr
(Natural Gas) 116 mmcf/yr (x) 140 lb/mmcf (/) 2000 lb/ton = 8.12 tons/yr
TOTAL = 0.75 + 8.12 = ***8.87 TONS/YEAR***

VOC Emissions:

C) (No. 4 Fuel Oil) 75 mgal/yr (x) 0.2 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(Natural Gas) 116 mmcf/yr (x) 2.8 lb/mmcf (/) 2000 lb/ton = 0.16 tons/yr
TOTAL = 0.01 + 0.16 = ***0.17 TONS/YEAR***

PM10 Emissions:

D) (No. 4 Fuel Oil) 75 mgal/yr (x) 7 lb/mgal (/) 2000 lb/ton = 0.26 tons/yr
(Natural Gas) 116 mmcf/yr (x) 13.7 lb/mmcf (/) 2000 lb/ton = 0.79 tons/yr
TOTAL = 0.26 + 0.79 = ***1.06 TONS/YEAR***

Boiler No. 3 - Bldg. 601

CO Emissions:

A) (No. 4 Fuel Oil) 75 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.19 tons/yr
(Natural Gas) 116 mmcf/yr (x) 35 lb/mmcf (/) 2000 lb/ton = 2.03 tons/yr
TOTAL = 0.19 + 2.03 = ***2.22 TONS/YEAR***

NOx Emissions:

B) (No. 4 Fuel Oil) 75 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.75 tons/yr
(Natural Gas) 116 mmcf/yr (x) 140 lb/mmcf (/) 2000 lb/ton = 8.12 tons/yr
TOTAL = 0.75 + 8.12 = ***8.87 TONS/YEAR***

VOC Emissions:

C) (No. 4 Fuel Oil) 75 mgal/yr (x) 0.2 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(Natural Gas) 116 mmcf/yr (x) 2.8 lb/mmcf (/) 2000 lb/ton = 0.16 tons/yr
TOTAL = 0.01 + 0.16 = ***0.17 TONS/YEAR***

PM10 Emissions:

D) (No. 4 Fuel Oil) 75 mgal/yr (x) 7 lb/mgal (/) 2000 lb/ton = 0.26 tons/yr
(Natural Gas) 116 mmcf/yr (x) 13.7 lb/mmcf (/) 2000 lb/ton = 0.79 tons/yr
TOTAL = 0.26 + 0.79 = ***1.06 TONS/YEAR***

Boiler No. 4 - Bldg. 601: WAS NOT ON-LINE IN 1993

Boiler No. 1 - Bldg. 4000

CO Emissions:

E) (No. 2 Fuel Oil) 5 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(Natural Gas) 2 mmcf/yr (x) 35 lb/mmcf (/) 2000 lb/ton = 0.04 tons/yr
TOTAL = 0.01 + 0.04 = ***0.05 TONS/YEAR***

NOx Emissions:

F) (No. 2 Fuel Oil) 5 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.05 tons/yr
(Natural Gas) 2 mmcf/yr (x) 140 lb/mmcf (/) 2000 lb/ton = 0.14 tons/yr
TOTAL = 0.05 + 0.14 = ***0.19 TONS/YEAR***

VOC Emissions:

G) (No. 2 Fuel Oil) 5 mgal/yr (x) 0.34 lb/mgal (/) 2000 lb/ton = 0.0009 tons/yr
(Natural Gas) 2 mmcf/yr (x) 2.8 lb/mmcf (/) 2000 lb/ton = 0.0028 tons/yr
TOTAL = 0.0009 + 0.0028 = ***0.004 TONS/YEAR***

PM10 Emissions:

H) (No. 2 Fuel Oil) 5 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.005 tons/yr
(Natural Gas) 2 mmcf/yr (x) 13.7 lb/mmcf (/) 2000 lb/ton = 0.01 tons/yr
TOTAL = 0.005 + 0.01 = ***0.02 TONS/YEAR***

Boiler No. 2 - Bldg. 4000

CO Emissions:

E) (No. 2 Fuel Oil) 5 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(Natural Gas) 2 mmcf/yr (x) 35 lb/mmcf (/) 2000 lb/ton = 0.04 tons/yr
TOTAL = 0.01 + 0.04 = ***0.05 TONS/YEAR***

NOx Emissions:

F) (No. 2 Fuel Oil) 5 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.05 tons/yr
(Natural Gas) 2 mmcf/yr (x) 140 lb/mmcf (/) 2000 lb/ton = 0.14 tons/yr
TOTAL = 0.05 + 0.14 = ***0.19 TONS/YEAR***

VOC Emissions:

G) (No. 2 Fuel Oil) 5 mgal/yr (x) 0.34 lb/mgal (/) 2000 lb/ton = 0.0009 tons/yr
(Natural Gas) 2 mmcf/yr (x) 2.8 lb/mmcf (/) 2000 lb/ton = 0.0028 tons/yr
TOTAL = 0.0009 + 0.0028 = ***0.004 TONS/YEAR***

PM10 Emissions:

H) (No. 2 Fuel Oil) 5 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.005 tons/yr
(Natural Gas) 2 mmcf/yr (x) 13.7 lb/mmcf (/) 2000 lb/ton = 0.01 tons/yr
TOTAL = 0.005 + 0.01 = ***0.02 TONS/YEAR***

Boiler No. 3 - Bldg. 4000

CO Emissions:

E) (No. 2 Fuel Oil) 5 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.01 tons/yr
(Natural Gas) 2 mmcf/yr (x) 35 lb/mmcf (/) 2000 lb/ton = 0.04 tons/yr
TOTAL = 0.01 + 0.04 = ***0.05 TONS/YEAR***

NOx Emissions:

F) (No. 2 Fuel Oil) 5 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.05 tons/yr
(Natural Gas) 2 mmcf/yr (x) 140 lb/mmcf (/) 2000 lb/ton = 0.14 tons/yr
TOTAL = 0.05 + 0.14 = ***0.19 TONS/YEAR***

VOC Emissions:

G) (No. 2 Fuel Oil) 5 mgal/yr (x) 0.34 lb/mgal (/) 2000 lb/ton = 0.0009 tons/yr
(Natural Gas) 2 mmcf/yr (x) 2.8 lb/mmcf (/) 2000 lb/ton = 0.0028 tons/yr
TOTAL = 0.0009 + 0.0028 = ***0.004 TONS/YEAR***

PM10 Emissions:

H) (No. 2 Fuel Oil) 5 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.005 tons/yr
(Natural Gas) 2 mmcf/yr (x) 13.7 lb/mmcf (/) 2000 lb/ton = 0.01 tons/yr
TOTAL = 0.005 + 0.01 = ***0.02 TONS/YEAR***

1993 EMISSIONS CALCULATIONS
PORTSMOUTH NAVAL HOSPITAL

All calculations are based on fuel consumed and AP-42 emission factors.

Emissions based on amount of ***fuel burned*** (lb/mmcf or lb/mgal) multiplied by ***emission factor*** and divided by ***2000 lb/ton***

Note:
mgal=thousand gallons
mmcf=million cubic feet

Boiler No. 105 - Bldg. 20

CO Emissions:

A) (No. 6 Fuel Oil) 24 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.06 tons/yr
(No. 2 Fuel Oil) 11 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.03 tons/yr
(Natural Gas) 37 mmcf/yr (x) 35 lb/mmcf (/) 2000 lb/ton = 0.65 tons/yr
TOTAL = 0.06 + 0.03 + 0.65 = ***0.74 TONS/YEAR***

NOx Emissions:

B) (No. 6 Fuel Oil) 24 mgal/yr (x) 55 lb/mgal (/) 2000 lb/ton = 0.66 tons/yr
(No. 2 Fuel Oil) 11 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.11 tons/yr
(Natural Gas) 37 mmcf/yr (x) 140 lb/mmcf (/) 2000 lb/ton = 2.59 tons/yr
TOTAL = 0.66 + 0.11 + 2.59 = ***3.36 TONS/YEAR***

VOC Emissions:

C) (No. 6 Fuel Oil) 24 mgal/yr (x) 0.28 lb/mgal (/) 2000 lb/ton = 0.003 tons/yr
(No. 2 Fuel Oil) 11 mgal/yr (x) 0.34 lb/mgal (/) 2000 lb/ton = 0.002 tons/yr
(Natural Gas) 37 mmcf/yr (x) 2.8 lb/mmcf (/) 2000 lb/ton = 0.052 tons/yr
TOTAL = 0.003 + 0.002 + 0.052= ***0.06 TONS/YEAR***

PM10 Emissions:

D) (No. 6 Fuel Oil) 24 mgal/yr (x) 20.5 lb/mgal (/) 2000 lb/ton = 0.246 tons/yr
(No. 2 Fuel Oil) 11 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.011 tons/yr
(Natural Gas) 37 mmcf/yr (x) 13.7 lb/mmcf (/) 2000 lb/ton = 0.253 tons/yr
TOTAL = 0.246 + 0.011 + 0.253 = ***0.51 TONS/YEAR***

Boiler No. 106 - Bldg. 20

CO Emissions:

A) (No. 6 Fuel Oil) 24 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.06 tons/yr
(No. 2 Fuel Oil) 11 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.03 tons/yr
(Natural Gas) 37 mmcf/yr (x) 35 lb/mmcf (/) 2000 lb/ton = 0.65 tons/yr
TOTAL = 0.06 + 0.03 + 0.65 = ***0.74 TONS/YEAR***

NOx Emissions:

B) (No. 6 Fuel Oil) 24 mgal/yr (x) 55 lb/mgal (/) 2000 lb/ton = 0.66 tons/yr
(No. 2 Fuel Oil) 11 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.11 tons/yr
(Natural Gas) 37 mmcf/yr (x) 140 lb/mmcf (/) 2000 lb/ton = 2.59 tons/yr
TOTAL = 0.66 + 0.11 + 2.59 = ***3.36 TONS/YEAR***

VOC Emissions:

C) (No. 6 Fuel Oil) 24 mgal/yr (x) 0.28 lb/mgal (/) 2000 lb/ton = 0.003 tons/yr
(No. 2 Fuel Oil) 11 mgal/yr (x) 0.34 lb/mgal (/) 2000 lb/ton = 0.002 tons/yr
(Natural Gas) 37 mmcf/yr (x) 2.8 lb/mmcf (/) 2000 lb/ton = 0.052 tons/yr
TOTAL = 0.003 + 0.002 + 0.052= ***0.06 TONS/YEAR***

PM10 Emissions:

D) (No. 6 Fuel Oil) 24 mgal/yr (x) 20.5 lb/mgal (/) 2000 lb/ton = 0.246 tons/yr
(No. 2 Fuel Oil) 11 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.011 tons/yr
(Natural Gas) 37 mmcf/yr (x) 13.7 lb/mmcf (/) 2000 lb/ton = 0.253 tons/yr
TOTAL = 0.246 + 0.011 + 0.253 = ***0.51 TONS/YEAR***

Boiler No. 107 - Bldg. 20

CO Emissions:

A) (No. 6 Fuel Oil) 24 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.06 tons/yr
(No. 2 Fuel Oil) 11 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.03 tons/yr
(Natural Gas) 37 mmcf/yr (x) 35 lb/mmcf (/) 2000 lb/ton = 0.65 tons/yr
TOTAL = 0.06 + 0.03 + 0.65 = ***0.74 TONS/YEAR***

NOx Emissions:

B) (No. 6 Fuel Oil) 24 mgal/yr (x) 55 lb/mgal (/) 2000 lb/ton = 0.66 tons/yr
(No. 2 Fuel Oil) 11 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.11 tons/yr
(Natural Gas) 37 mmcf/yr (x) 140 lb/mmcf (/) 2000 lb/ton = 2.59 tons/yr
TOTAL = 0.66 + 0.11 + 2.59 = ***3.36 TONS/YEAR***

VOC Emissions:

C) (No. 6 Fuel Oil) 24 mgal/yr (x) 0.28 lb/mgal (/) 2000 lb/ton = 0.003 tons/yr
(No. 2 Fuel Oil) 11 mgal/yr (x) 0.34 lb/mgal (/) 2000 lb/ton = 0.002 tons/yr
(Natural Gas) 37 mmcf/yr (x) 2.8 lb/mmcf (/) 2000 lb/ton = 0.052 tons/yr
TOTAL = 0.003 + 0.002 + 0.052= ***0.06 TONS/YEAR***

PM10 Emissions:

D) (No. 6 Fuel Oil) 24 mgal/yr (x) 20.5 lb/mgal (/) 2000 lb/ton = 0.246 tons/yr
(No. 2 Fuel Oil) 11 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.011 tons/yr
(Natural Gas) 37 mmcf/yr (x) 13.7 lb/mmcf (/) 2000 lb/ton = 0.253 tons/yr
TOTAL = 0.246 + 0.011 + 0.253 = ***0.51 TONS/YEAR***

Boiler No. 108 - Bldg. 20

CO Emissions:

A) (No. 6 Fuel Oil) 24 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.06 tons/yr
(No. 2 Fuel Oil) 11 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.03 tons/yr
(Natural Gas) 37 mmcf/yr (x) 35 lb/mmcf (/) 2000 lb/ton = 0.65 tons/yr
TOTAL = 0.06 + 0.03 + 0.65 = ***0.74 TONS/YEAR***

NOx Emissions:

B) (No. 6 Fuel Oil) 24 mgal/yr (x) 55 lb/mgal (/) 2000 lb/ton = 0.66 tons/yr
(No. 2 Fuel Oil) 11 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 0.11 tons/yr
(Natural Gas) 37 mmcf/yr (x) 140 lb/mmcf (/) 2000 lb/ton = 2.59 tons/yr
TOTAL = 0.66 + 0.11 + 2.59 = ***3.36 TONS/YEAR***

VOC Emissions:

C) (No. 6 Fuel Oil) 24 mgal/yr (x) 0.28 lb/mgal (/) 2000 lb/ton = 0.003 tons/yr
(No. 2 Fuel Oil) 11 mgal/yr (x) 0.34 lb/mgal (/) 2000 lb/ton = 0.002 tons/yr
(Natural Gas) 37 mmcf/yr (x) 2.8 lb/mmcf (/) 2000 lb/ton = 0.052 tons/yr
TOTAL = 0.003 + 0.002 + 0.052= ***0.06 TONS/YEAR***

PM10 Emissions:

D) (No. 6 Fuel Oil) 24 mgal/yr (x) 20.5 lb/mgal (/) 2000 lb/ton = 0.246 tons/yr
(No. 2 Fuel Oil) 11 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.011 tons/yr
(Natural Gas) 37 mmcf/yr (x) 13.7 lb/mmcf (/) 2000 lb/ton = 0.253 tons/yr
TOTAL = 0.246 + 0.011 + 0.253 = ***0.51 TONS/YEAR***

1993 EMISSIONS CALCULATIONS
RDF PLANT

All calculations are based on fuel consumed and AP-42 emission factors.

Emissions based on amount of ***fuel burned*** (lb/mmcf or lb/mgal) multiplied by ***emission factor*** and divided by ***2000 lb/ton*** multiplied by (1-Control Efficiency)

Note:
The boilers have pollution control equipment which removes 99.7% of the particulates from being emitted into the atmosphere.

mgal=thousand gallons
mmcf=million cubic feet

Boiler No. 1 - Bldg. 1515

CO Emissions:

A) (No. 2 Fuel Oil) 143 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.36 tons/yr
(Bituminous Coal - Spreader Stoker) 5,620 tons/yr (x) 5 lb/ton (/) 2000 lb/ton = 14.05 tons/yr
(RDF) 77,608 tons/yr (x) 3.6 lb/ton (/) 2000 lb/ton = 139.69 tons/yr
TOTAL = 0.36 + 14.05 + 139.69 = ***154.10 TONS/YEAR***

NOx Emissions:

B) (No. 2 Fuel Oil) 143 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 1.43 tons/yr
(Bituminous Coal - Spreader Stoker) 5,620 tons/yr (x) 14 lb/ton (/) 2000 lb/ton = 39.30 tons/yr
(RDF) 77,608 tons/yr (x) 3.8 lb/ton (/) 2000 lb/ton = 147.50 tons/yr
TOTAL = 1.43 + 39.30 + 147.50 = ***188.23 TONS/YEAR***

VOC Emissions:

C) (No. 2 Fuel Oil) 143 mgal/yr (x) 0.34 lb/mgal (/) 2000 lb/ton = 0.02 tons/yr
(Bituminous Coal - Spreader Stoker) 5,620 tons/yr (x) 0.07 lb/ton (/) 2000 lb/ton = 0.20 tons/yr
(RDF) 77,608 tons/yr (x) 2.0 lb/ton (/) 2000 lb/ton = 77.82 tons/yr
TOTAL = 0.02 + 0.20 + 77.82 = ***77.82 TONS/YEAR***

PM10 Emissions:

D) (No. 2 Fuel Oil) 143 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.14 tons/yr
(Bituminous Coal - Spreader Stoker) 5,620 tons/yr (x) 12 lb/ton (/) 2000 lb/ton = 33.72 tons/yr
(RDF) 77,608 tons/yr (x) 44 lb/ton (/) 2000 lb/ton = 1,707.4 tons/yr
TOTAL = (0.14 + 33.72 + 1,707.4) (x) (1-0.997)= ***5.22 TONS/YEAR***

Boiler No. 2 - Bldg. 1515

CO Emissions:

E) (No. 2 Fuel Oil) 143 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.36 tons/yr
(Bituminous Coal - Spreader Stoker) 5,578 tons/yr (x) 5 lb/ton (/) 2000 lb/ton = 13.95 tons/yr
(RDF) 84,936 tons/yr (x) 3.6 lb/ton (/) 2000 lb/ton = 152.89 tons/yr
TOTAL = 0.36 + 13.95 + 152.89 = ***167.20 TONS/YEAR***

NOx Emissions:

F) (No. 2 Fuel Oil) 143 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 1.43 tons/yr
(Bituminous Coal - Spreader Stoker) 5,578 tons/yr (x) 14 lb/ton (/) 2000 lb/ton = 39.0 tons/yr
(RDF) 84,936 tons/yr (x) 3.8 lb/ton (/) 2000 lb/ton = 161.4 tons/yr
TOTAL = 1.43 + 39.0 + 161.4 = ***201.83 TONS/YEAR***

VOC Emissions:

G) (No. 2 Fuel Oil) 143 mgal/yr (x) 0.34 lb/mgal (/) 2000 lb/ton = 0.02 tons/yr
(Bituminous Coal - Spreader Stoker) 5,578 tons/yr (x) 0.07 lb/ton (/) 2000 lb/ton = 0.19 tons/yr
(RDF) 84,936 tons/yr (x) 2.0 lb/ton (/) 2000 lb/ton = 84.9 tons/yr
TOTAL = 0.02 + 0.19 + 84.9 = ***85.11 TONS/YEAR***

PM10 Emissions:

H) (No. 2 Fuel Oil) 143 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.14 tons/yr
(Bituminous Coal - Spreader Stoker) 5,578 tons/yr (x) 12 lb/ton (/) 2000 lb/ton = 33.47 tons/yr
(RDF) 84,936 tons/yr (x) 44 lb/ton (/) 2000 lb/ton = 1,868.59 tons/yr
TOTAL = (0.14 + 33.47 + 1,868.59) (x) (1-0.997)= ***5.71 TONS/YEAR***

Boiler No. 3 - Bldg. 1515

CO Emissions:

I) (No. 2 Fuel Oil) 143 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.36 tons/yr
(Bituminous Coal - Spreader Stoker) 7,576 tons/yr (x) 5 lb/ton (/) 2000 lb/ton = 18.94 tons/yr
(RDF) 91,880 tons/yr (x) 3.6 lb/ton (/) 2000 lb/ton = 165.38 tons/yr
TOTAL = 0.36 + 18.94 + 165.38 = ***184.68 TONS/YEAR***

NOx Emissions:

J) (No. 2 Fuel Oil) 143 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 1.43 tons/yr
(Bituminous Coal - Spreader Stoker) 7,576 tons/yr (x) 14 lb/ton (/) 2000 lb/ton = 53.0 tons/yr
(RDF) 91,880 tons/yr (x) 3.8 lb/ton (/) 2000 lb/ton = 174.6 tons/yr
TOTAL = 1.43 + 53.0 + 174.6 = ***229.03 TONS/YEAR***

VOC Emissions:

K) (No. 2 Fuel Oil) 143 mgal/yr (x) 0.34 lb/mgal (/) 2000 lb/ton = 0.02 tons/yr
(Bituminous Coal - Spreader Stoker) 7,576 tons/yr (x) 0.07 lb/ton (/) 2000 lb/ton = 0.27 tons/yr
(RDF) 91,880 tons/yr (x) 2.0 lb/ton (/) 2000 lb/ton = 91.9 tons/yr
TOTAL = 0.02 + 0.27 + 91.9 = ***92.19 TONS/YEAR***

PM10 Emissions:

L) (No. 2 Fuel Oil) 143 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.14 tons/yr
(Bituminous Coal - Spreader Stoker) 7,576 tons/yr (x) 12 lb/ton (/) 2000 lb/ton = 45.46 tons/yr
(RDF) 91,880 tons/yr (x) 44 lb/ton (/) 2000 lb/ton = 2,021.36 tons/yr
TOTAL = (0.14 + 45.46 + 2,021.36) (x) (1-0.997)= ***6.20 TONS/YEAR***

Boiler No. 4 - Bldg. 1515

CO Emissions:

M) (No. 2 Fuel Oil) 143 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.36 tons/yr
(Bituminous Coal - Spreader Stoker) 5,184 tons/yr (x) 5 lb/ton (/) 2000 lb/ton = 12.96 tons/yr
(RDF) 96,182 tons/yr (x) 3.6 lb/ton (/) 2000 lb/ton = 173.13 tons/yr
TOTAL = 0.36 + 12.96 + 173.13= ***186.45 TONS/YEAR***

NOx Emissions:

N) (No. 2 Fuel Oil) 143 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 1.43 tons/yr
(Bituminous Coal - Spreader Stoker) 5,184 tons/yr (x) 14 lb/ton (/) 2000 lb/ton = 36.2 tons/yr
(RDF) 96,182 tons/yr (x) 3.8 lb/ton (/) 2000 lb/ton = 182.7 tons/yr
TOTAL = 1.43 + 36.2 + 182.7 = ***220.33 TONS/YEAR***

VOC Emissions:

O) (No. 2 Fuel Oil) 143 mgal/yr (x) 0.34 lb/mgal (/) 2000 lb/ton = 0.02 tons/yr
(Bituminous Coal - Spreader Stoker) 5,184 tons/yr (x) 0.07 lb/ton (/) 2000 lb/ton = 0.18 tons/yr
(RDF) 96,182 tons/yr (x) 2.0 lb/ton (/) 2000 lb/ton = 96.2 tons/yr
TOTAL = 0.02 + 0.18 + 96.2 = ***96.4 TONS/YEAR***

PM10 Emissions:

P) (No. 2 Fuel Oil) 143 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.14 tons/yr
(Bituminous Coal - Spreader Stoker) 5,184 tons/yr (x) 12 lb/ton (/) 2000 lb/ton = 31.10 tons/yr
(RDF) 96,182 tons/yr (x) 44 lb/ton (/) 2000 lb/ton = 2,116 tons/yr
TOTAL = (0.14 + 31.10 + 2,116) (x) (1-0.997)= ***6.44 TONS/YEAR***

1993 EMISSIONS CALCULATIONS
ST. JULIEN'S CREEK ANNEX

All calculations are based on fuel consumed and AP-42 emission factors.

Emissions based on amount of ***fuel burned*** (lb/mmcf or lb/mgal) multiplied by ***emission factor*** and divided by ***2000 lb/ton***

Note:
mgal=thousand gallons
mmcf=million cubic feet

Boiler No. 1 - Bldg. 283

CO Emissions:

A) (No. 2 Fuel Oil) 125.5 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.31 tons/yr
(No. 5 Fuel Oil) 279.5 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.07 tons/yr
TOTAL = 0.31 +0.07 = ***1.01 TONS/YEAR***

NOx Emissions:

B) (No. 2 Fuel Oil) 125.5 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 1.26 tons/yr
(No. 5 Fuel Oil) 279.5 mgal/yr (x) 55 lb/mgal (/) 2000 lb/ton = 7.69 tons/yr
TOTAL = 1.26 + 7.69 = ***8.95 TONS/YEAR***

VOC Emissions:

C) (No. 2 Fuel Oil) 125.5 mgal/yr (x) 0.34 lb/mgal (/) 2000 lb/ton = 0.02 tons/yr
(No. 5 Fuel Oil) 279.5 mgal/yr (x) 1.13 lb/mgal (/) 2000 lb/ton = 0.16 tons/yr
TOTAL = 0.02 + 0.16 = ***0.18 TONS/YEAR***

PM10 Emissions:

D) (No. 2 Fuel Oil) 125.5 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.13 tons/yr
(No. 5 Fuel Oil) 279.5 mgal/yr (x) 10 lb/mgal (/) 2000 lb/ton = 1.40 tons/yr
TOTAL = 0.13 + 1.40 = ***1.53 TONS/YEAR***

Boiler No. 2 - Bldg. 283

CO Emissions:

A) (No. 2 Fuel Oil) 125.5 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.31 tons/yr
(No. 5 Fuel Oil) 279.5 mgal/yr (x) 5 lb/mgal (/) 2000 lb/ton = 0.07 tons/yr
TOTAL = 0.31 + 0.07 = ***1.01 TONS/YEAR***

NOx Emissions:

B) (No. 2 Fuel Oil) 125.5 mgal/yr (x) 20 lb/mgal (/) 2000 lb/ton = 1.26 tons/yr
(No. 5 Fuel Oil) 279.5 mgal/yr (x) 55 lb/mgal (/) 2000 lb/ton = 7.69 tons/yr
TOTAL = 1.26 + 7.69 = ***8.95 TONS/YEAR***

VOC Emissions:

C) (No. 2 Fuel Oil) 125.5 mgal/yr (x) 0.34 lb/mgal (/) 2000 lb/ton = 0.02 tons/yr
(No. 5 Fuel Oil) 279.5 mgal/yr (x) 1.13 lb/mgal (/) 2000 lb/ton = 0.16 tons/yr
TOTAL = 0.02 + 0.16 = ***0.18 TONS/YEAR***

PM10 Emissions:

D) (No. 2 Fuel Oil) 125.5 mgal/yr (x) 2 lb/mgal (/) 2000 lb/ton = 0.13 tons/yr
(No. 5 Fuel Oil) 279.5 mgal/yr (x) 10 lb/mgal (/) 2000 lb/ton = 1.40 tons/yr
TOTAL = 0.13 + 1.40 = ***1.53 TONS/YEAR***

5e. Public Works Center is planning to convert the NAB 757 Steam Plant from coal to natural gas operation.
Estimated decrease in air emissions will be reported on NAVBASE Little Creek BRAC 95 Report.

5f. Richmond, Virginia is approximately 100 miles from all PWC sites and is currently identified as an ozone non-attainment area. Richmond obtained this status in 1990 and has until 1996 to meet EPA compliance.

5g. No restrictions as indicated above are currently in place nor are any anticipated in near future for the Hampton Roads area.

5h. The Common Wealth of Virginia has not implemented Emission Reduction Credits as of May 1994.

6. ENVIRONMENTAL COMPLIANCE

6a.

Program	Survey Completed?	Costs in $K to correct deficiencies					
		FY94	FY95	FY96	FY97	FY98-99	FY00-01
Air	Yes	0	0	0	0	0	0
Hazardous Waste	Yes	100K	0	0	0	0	0
Safe Drinking Water Act	Yes	0	230K	200K	0	0	0
PCBs	Yes	0	0	0	0	0	0
Other (non-PCB) Toxic Substance Control Act	Yes	0	0	0	0	0	0
Lead Based Paint	Yes	0	0	0	0	0	0
Radon	Yes	0	0	0	0	0	0
Clean Water Act	Yes	115K	1100K	100K	100K	200K	0
Solid Waste	Yes	500K	3000K	400K	0	0	0
Oil Pollution Act	Yes	50K	384K	600K	0	0	0
USTs	Yes	329K	301K	150K	0	0	0
Other	Yes	36K	135K	29K	29K	31.6K	0
Total		1130K	5150K	1479K	129K	231.6K	0

NORFOLK					
	FY 94	FY 95	FY 96	FY 97	FY 98-99
Air	0	0	0	0	0
Hazardous Waste					
Reseal Floor @ SDA-215	100K				
Clean Water Act					
LP-178 P.S.	115K				
Repair Alarms					
Various Stations		100K	100K	100K	200K
Replace LF-4 P.S.		500K			
NH-200 P.S.		500K			
Solid Waste					
Z-309 Trash Transfer	500K	3000K	400K		
USTs/ASTs					
Phase III UST Removal (6 USTs)	100K				
Q-65 UST Removal		100K			
Q-50 AST Upgrades (10 ASTs)			150K		
Oil Pollution Act					
Revise SPCC Plan for PWC Facilities at NOB, Ports. Sites, and VA. Beach Sites	50K				
Oil Spill Prevention Prog. (3 ASTs)		324K			
AST Berm Repair			600K		

				FENTRESS			
			FY 94	FY 95	FY 96	FY 97	FY 98-99
Safe Drinking Water							
Water Plant				230K	200K		
USTs/ASTs							
AST Remove/ Replace			13K				
UST Removal				2K			

PORTSMOUTH NAVAL HOSPITAL						
	FY 94	FY 95	FY 96	FY 97	FY 98-99
USTs/ASTs					
UST Removal/AST					
Replacement (2 USTs)	25K				

				ST. JULIANS			
			FY 94	FY 95	FY 96	FY 97	FY 98-99
Oil Pollution Act							
Oil Spill Prevention							
Project (BLD. 321)				60K			
Other							
Site Remediation				100K			

				OCEANA			
			FY 94	FY 95	FY 96	FY 97	FY 98-99
USTs/ASTs							
AST Remove/Replace(Housing)			13K				
UST Remove/Replace with AST				15K			
UST Remove/Replace with AST				30K			
UST Remove/Replace with AST				15K			

				DAM NECK			
			FY 94	FY 95	FY 96	FY 97	FY 98-99
USTs/ASTs							
UST Remove/Replace with AST			18K				
UST Remove/Replace with AST			18K				
AST Removal				84K			

NORFOLK NAVAL SHIPYARD						
		FY 94	FY 95	FY 96	FY 97	FY 98-99
USTs/ASTs						
AST Remove/Replace		70K				
AST Site Preparation-						
DEMO & CONSTR		50K				
Other						
Site Remediation		36K	35K	29K	29K	31.6K

6a. Continued

BRAQ.XLS

RDF PLANT

	FY 94	FY 95	FY 96	FY 97	FY 98-99
USTs/ASTs					
AST Upgrades (3 ASTs)	30K				

				LITTLE CREEK			
			FY 94	FY 95	FY 96	FY 97	FY 98-99
USTs/ASTs							
AST Upgrades (2 ASTs)				30K			

6b. Yes

100%

Yes - Maintenance and repair activities will dictate some additional surveys (i.e., roof, tile under carpet)

Unknown at this time.

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

Funding Source	FY92	FY93	FY94	FY95	FY96	FY97	FY98-99	FY00-01
O&MN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other (specify) DBOF	14842	16732	33323	26060	20953	22411	N/A	N/A
TOTAL	14842	16732	33323	26060	20953	22411	N/A	N/A

6d. No

7. INSTALLATION RESTORATION

7a. Yes

No

7b. N/A

7c. No

7d. N/A

7e. N/A

7f. Yes

PWC operates one bay in one cell that has a capacity to hold 7,590 gallons of non-RCRA regulated hazardous materials in SDA-215. Covered under Part B permit for SDA-215.

7g. Yes

PWC operates SDA-215 which has four cell for a total capacity of 131,340 gallons. Operating under interim statues under CFR 265 until issuance of Part B Permits in September 1994.

7h. N/A

7i. N/A

7j. N/A

7k. N/A

8. LAND / AIR / WATER USE

8a. N/A

8b. N/A

8c. N/A

8d. N/A
N/A
N/A

8e. N/A

8f. N/A

8g. N/A

8h. N/A
N/A
N/A

8.i. N/A

8j. N/A

8k. N/A

8l. N/A

9. WRAPUP

9a. N/A

9b. No

9c. N/A

9d. None known at this time.

#33

PWC Norfolk

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

MAJOR CLAIMANT LEVEL

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

Signature

COMMANDER
Title

6/10/94
Date

NAVAL FACILITIES ENGINEERING COMMAND
Activity

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

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

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

Signature

ACTING
Title

6/24/94
Date

RWC Norfolk
#33

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

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

Signature

ACTING COMMANDER
Title

6-6-94
Date

NAVAL FACILITIES ENGINEERING COMMAND
Activity

BRAC-95 CERTIFICATION

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

ACTIVITY COMMANDER

CAPT THOMAS J. TANNER
NAME

Signature

COMMANDING OFFICER
TITLE

6/3/94
Date

NAVY PUBLIC WORKS CENTER, NORFOLK
ACTIVITY

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

MAJOR CLAIMANT LEVEL

NAME

Signature

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

Signature

TITLE

Date

CAPACITY ANALYSES

DATA CALL

FOR

NAVY PUBLIC WORKS CENTER

NORFOLK, VIRGINIA

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

Activity: NPWC NORFOLK

CAPACITY ANALYSIS DATA CALL
For
PUBLIC WORK CENTERS

Primary UIC: N00187

Mission Area

1. Budget/Workyears

Table 1.a: **Budget/Workyears**

Information required	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993
Total funds budgeted ($K)	183,736	193,030	216,945	213,904	213,676	239,342	283,439	424,861
Total funds received ($K)	185,935	204,476	211,625	209,090	225,536	232,192	268,340	397,832
*Budgeted Workyears	2,361	2,424	2,124	2,065	2,095	2,101	2,255	3,010
*Actual Workyears	~~2,247~~ 2060 TSS	~~2,181~~ 1937 TSS	~~2,297~~ 2072 TSS	~~2,267~~ 2061 TSS	~~2,376~~ 2156 TSS	~~2,341~~ 2139 TSS	~~2,425~~ 2210 TSS	~~3,236~~ 3018 TSS

Teresa Snider
Code 1324 5/27/94

Table 1.b: **Budget/Workyears**

Information required	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
Total funds budgeted ($K)	462,247	415,993	407,630	414,893	0	0	0	0
Total funds received ($K)	467,207							
*Budgeted Workyears	~~2,318~~ TSS 3071	~~3,404~~ TSS 3239	~~3,383~~ TSS 3214	~~3,380~~ TSS 3213	0	0	0	0
*Actual Workyears	~~3,501~~ TSS 3215							

*Includes Regular and OT

Activity: NPWC NORFOLK

Primary UIC: N00187

Mission Area

2. Revenue/Direct Cite

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

Product/ Service	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991
Utilities	96,728	105,460	106,422	99,129	106,192	100,891
Sanitation Service	3,958	4,918	6,171	8,355	10,177	12,635
Transportation Service	10,540	13,144	12,332	11,943	12,226	24,383
Maintenance/ Repair	46,147	45,188	49,380	52,251	46,985	70,059
Design	1,954	2,066	2,755	2,763	4,339	12,330
Contracting	1,415	1,676	1,662	1,420	1,744	2,153
*Direct Cite	1,032	1,491	3,418	1,212	665	844
Others	25,193	32,024	32,903	33,229	43,873	9,741
Total	185,935	204,476	211,625	209,090	225,536	232,192

*Not Included in Total

Primary UIC: NOO187

Activity: NPWC NORFOLK

2. Revenue/Direct Cite, continued

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

Product/ Service	FY 1992	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997
Utilities	112,318	184,809	228,697	189,583	180,191	180,089
Sanitation Services	20,543	22,227	22,863	23,352	21,416	21,665
Transportation Services	27,156	34,918	33,058	37,568	33,816	35,234
Maintenance/ Repair	66,543	104,342	137,977	123,126	129,480	134,529
Design	15,957	15,270	14,083	13,810	13,703	13,756
Contracting	4,019	6,787	9,987	7,510	7,453	7,510
*Direct Cite	732	1,090	925	0	0	0
Others	21,804	29,479	20,542	21,044	21,571	22,110
Total	268,340	397,832	467,207	415,993	407,630	414,893

*Not Included in Total

Activity: NPWC NORFOLK

Primary UIC: NO0187

Mission Area

3. Maximum Potential Workload

3.1 The success of DMRD 967 has shown that PWC's, operating financially under the DBOF concept, are capable of expanding the productive workforce with only marginal increases in overhead. This is made possible by using an approach consistent with the NAVFAC EFD/EFA approach where additional activities are served with a decentralized productive work execution function supported by centralized command overhead.

The combination of proven management initiatives/practices and the application of advanced automated data processing equipment and techniques make it possible for PWC Norfolk to expand services to any Navy or Marine Corps activity located on the Eastern seaboard. Expansions should only be undertaken, however, after a thorough study has proven that it is in the best economic and operational interest of the Navy. Specific areas that have expressed an interest in being served by PWC Norfolk are:

a. Naval Weapons Station Yorktown, VA (30 miles North)
b. Naval Weapons Station Earle, N.J. (292 miles North)

The resources (labor, equipment, etc.) needed to expand services to these and other remote sites are extremely difficult to predict. Experience has shown, however, that significant savings can be achieved in areas such as utilities and transportation.

Additional services:

REGIONAL FAMILY HOUSING MANAGEMENT

South Hampton Roads contains seven separate military installations. These include Naval Base Norfolk, Little Creek Amphibious Base, Oceana Naval Air Station, Fleet Combat Training Center Atlantic, Dam Neck, Portsmouth Naval Hospital, Norfolk Naval Shipyard and Fort Story. All of these facilities are within 20 miles of Naval Base Norfolk. Maximum commute time to any of the bases is approximately 30 to 45 minutes at rush hour.

In April 1993, Norfolk Naval Shipyard housing was consolidated with Public Works Center (PWC) Norfolk, The other installations however, continued to manage their own assets. PWC Norfolk currently manages the largest inventory in the area with over 3,000 units. PWC Norfolk also serves as the housing technical advisor to the area coordinator, COMNAVBASE Norfolk. Given the close proximity of all the housing and the success of the consolidation with the shipyard, PWC Norfolk could easily assume regional responsibility for all family housing management. Central assignments and housing referral operations would provide consistent, equitable service to all military stationed in south Hampton Roads. Centralized purchasing and contracting also offer potential dollar savings.

PWC Norfolk currently operates the Navy Housing Welcome Center which provides extended weekday and Saturday office hours. The Welcome Center also provides a supervised child play area, home buying and home selling workshops, showing service to assist military members in locating economic housing and a Departure Service to help families and bachelors locate housing at their new duty station. Although these services are available to all personnel, many do not take advantage of them because they check in at one of the other bases in the area. Establishing PWC Norfolk as the regional housing authority will ensure that all personnel stationed in south Hampton Roads have maximum access to these services.

3. Maximum Potential Workload, continued

No additional funds are required to implement a regional housing authority. Currently the Naval Bases in south Hampton Roads use 127.5 manyears. This excludes Fort Story which is a contract operation. Three to four manyears would be required to operate housing at Fort Story. Anticipate that total manyears could be reduced by at least 5 through a regional operation.

PROFESSIONAL ENGINEERING SERVICES

The following services are currently provided by PWC NORVA ON A REGIONAL basis. In addition, several of these commodities are provided outside of the NORVA region to include large portions of the east coast and overseas NAVY and DOD locations. The recommendation is to consider a broad region (east coast, fleet alignment, claimant alignment, etc.) where PWC NORVA would be the focal point for delivering these commodities:

- Facilities condition assessment and Long Range Maintenance Planning (LRMP)
- LEAD Assessment of Abatement Program
- East Coast Navy Center of Excellence for Energy Planning, Management and Execution
- Execution of Program for Backflow Prevention devices including certification, consultation, maintenance/repair planning and estimating, and work execution by contract and in-house forces

  ••Additionally, applicable to elevator
  ••Additionally, applicable to boilers

- NAVY center of expertise for family housing rehabilitation program supporting the Neighborhoods of Excellence (NOE)
- Technical consultation, testing/certification, and program management for weight handling equipment

Since PWC Norfolk is already providing these services, additional resources required for an expanded service would be incremental and dependent on quantity and duration of additional workload.

Activity: NPWC NORFOLK

Primary UIC: N00187

Features and Capabilities

4. Facility Utilization

4.1.a Production Facilities

Table 4.1.a: **Production Facilities**

		Installation Space (KSF)			
NPWC NORFOLK	CCN	Adequate	Sub-standard	In-adequate	Total
Quality Assurance	213-48	3.8	0	0	3.8
Boat Shop	213-58	0	0	10.61	10.61
Service Shop	213-66	2.86	19.02	0	21.88
Waterfront Support Service Bldg	213-70	0	0	1.6	1.6
Auto Vehicle Shop	214-20	58.86	56.82	76.43	192.11
Refuel Vehicle Shop	214-30	4.03	0	0	4.03
Vehicle Holding Shed	214-40	3.1	0	14.07	17.17
Container Repair Test Bldg.	218-10	0	0	5.04	5.04
Railroad Equipment Shop	218-40	0	0.96	0	0.96
Battery Recharging Shop	218-51	0	13.44	1.4	14.84
Repair Shop Storage	218-77	20	0	6.9	26.9
Mobile Van Ship	218-91	14.04	0	2.8	16.84
Public Works Shop	219-10	167.86	28.75	0.106	196.72
Public Works Shop Storage	219-25	1.04	15.47	0	16.51
Painting and Related Operations Building	219-30	1.66	0	0	1.66
Public Works Maintenance Storage	219-77	81.17	13.02	18.87	113.06

4.1.b Production Facilities

There are no programmed MILCON and/or BRACON projects for production facilities at PWC Norfolk.

4.2 Inadequate Facilities
For all categories cited in 4.1.a where inadequate space exists, the following information is provided:

a. **Facility type/category code: Boat Shop-Waterfront Pier Operations Facility/213-58**

b. The existing facility is a makeshift facility constructed of two aircraft storage containers. The physical condition of the facility is deterioration due to age and type of construction. The functional layout is not conducive to that of a Boat Shop-Waterfront Pier Operations Facility.

c. The existing facility is being utilized as a machine shop and to store parts in support of barge repair operations and repair and construction of waterfront pier structures.

d. It will cost approximately $2,000,000 to upgrade the facility to substandard.

e. This facility is located on the waterfront and can only be utilized as a support function to waterfront activities. It will cost approximately $2,250,000 to make the facility completely adequate for its present function.

f. A MILCON project (P-247, PWC Shops, Waterfront Pier Operations Facility), was programmed in the FY95 MILCON program. However, the project was deferred and is now in an unprogrammed status. There are no plans to renovate this facility because it is more cost effective to completely rebuild the existing facility.

g. The facility condition has resulted in a C3 designation on the PWC Norfolk BASEREP.

a. **Facility type/Category code: Waterfront Service Support Building/213-70**

b. This facility is small and showing signs of obvious deterioration. The facility is a makeshift concrete masonry unit building which is small, weathered, and is aesthetically displeasing.

c. The facility is being utilized to perform hydrographic surveys in support of dredging requirements at the Naval Base Norfolk within a 50 mile radius.

d. Upgrading this facility cannot be accomplished because the facility is too deteriorated. A new facility is required.

e. This facility cannot be converted to another function by providing facility upgrades. A new facility is required for such a conversion.

f. This facility is planned for demolition and the existing function will be relocated to another facility.

g. The facility condition has not been identified in the PWC Norfolk BASEREP because the existing function will be relocated to another facility. The building is planned for demolition.

4.2 Inadequate Facilities, continued

a. Facility type/Category code: Auto Vehicle Shop/214-10

b. The building interior configuration is not adequate for shop maintenance. The aisle spaces are narrow which impedes maintenance on the larger PWC vehicles. The existing facilities were not originally designed to support vehicle maintenance; therefore, maintenance equipment and parts have been placed in areas of the facility that functionally hamper maintenance operations.

c. The Auto Vehicle Shop facilities are being utilized for maintenance of PWC and fleet vehicles. This includes the heavy truck type vehicles as well.

d. The interior spaces are an integral part of the facilities and cannot be upgraded to substandard. A state-of-the-art facility is required to satisfy the deficiencies.

e. The spaces could be converted to administrative space. However, this conversion would cost approximately $1,500,000 and would be of MILCON scope.

f. This command has tentatively planned a MILCON project (P-772, Auto Vehicle Maintenance Facility) which is estimated at a cost of $3,850,000. This project is presently unprogrammed.

g. The facility condition has resulted in a C3 designation on the PWC Norfolk BASEREP.

a. Facility type/Category code: Vehicle Holding Shed/214-40

b. The overall facilities are old and in a deteriorated state. The facilities are also located away from the Auto Vehicle Shop which is an added impediment to maintenance operations.

c. The Vehicle Holding Shed facilities are utilized to store vehicles pending maintenance work.

d. The cost to upgrade the facility is approximately $352,000.

e. The existing facilities could be used for warehouse storage at approximately the $352,000 since the facilities are all open bay.

f. These facilities have been planned for incorporation in a MILCON project (P-772), Auto Vehicle Maintenance Facility). This will allow for all of the Auto Vehicle facilities to be consolidated.

g. The facilities condition has resulted in a C3 designation on the PWC BASEREP.

a. Facility type/Category code: Container Repair Test Building/218-10

b. The facilities are inadequate because they were constructed as temporary structures. The deterioration of the pre-fabricated tin structure is quite apparent and is aesthetically displeasing.

c. The existing facilities are utilized to repair and reconstruct refuse containers which are used throughout areas served by PWC.

4.2 Inadequate Facilities, continued

d. The facilities cannot be upgraded to substandard because they were originally constructed as temporary structures. The cost to significantly upgrade the facilities would be of MILCON scope.

e. These makeshift buildings provide minimum facilities to repair and reconstruct refuse containers. There are no other discernible uses for the facilities.

f. A MILCON project (P-896, Trash bin Repair Facility) has been planned to replace the existing antiquated facilities with repair facility. The estimated cost of this project is $460,000. The project is presently unprogrammed.

g. The facilities condition has resulted in a C3 designation on the PWC BASEREP.

a. Facility type/Category code: Battery Recharging shop/218-51

b. The facility is inadequate due to the building configuration, structural condition, and general deterioration due to facility age. A bridge crane is needed to facilitate the battery recharging operation; however, the facility was not originally designed to accommodate such a load.

c. The facility is used to store and recharge batteries for a variety of light and heavy vehicles.

d. It would cost approximately $42,000 to upgrade the facility to substandard.

e. The facility could be utilized for storage with an investment of at least $42,000 to upgrade the facility to substandard.

f. This operation will be incorporated in the Auto Vehicle Maintenance Facility MILCON project P-772. The MILCON project is currently unprogrammed.

g. The facility condition has resulted in a C3 designation on the PWC BASEREP.

a. Facility type/Category code: Repair Shop Storage/218-77

b. The existing facilities provide inefficient working conditions due to a lack of proper space and overall interior building configuration. The facilities are also very old building which are showing pronounced signs of deterioration.

c. The facilities are being utilized to store parts critical to repairing and outfitting mobile vans.

d. The cost to upgrade these facilities to substandard would be approximately $276,000.

e. The facilities could be utilized as a combination of warehouse and office spaces. The cost would be approximately $1,035,000 for the complete conversion.

f. A MILCON project (P-251, Van Workshop Additions) has been planned to correct the existing facilities deficiencies. The project cost is estimated at $1,350,000. The project is presently unprogrammed.

Inadequate Facilities, continued

g. The facilities have been designated C3 on the PWC Norfolk BASEREP.

a. Facility type/Category code: Mobile Van Shop/218-91

b. The existing facilities provide inefficient working conditions due to a lack of proper space and overall interior building configuration. The facilities are also very old buildings which are showing pronounced signs of deterioration.

c. The facilities are being utilized to repair and outfit mobile vans.

d. It would cost approximately $420,000 to upgrade the facilities to substandard.

e. The facilities could be utilized as a combination of warehouse and office spaces. The cost would be approximately $1,035,000 for the complete conversion.

f. A MILCON project (P-251, Van Workshop Additions) has been planned to correct the existing facilities deficiencies. The project cost is estimated at $1,350,000. The project is presently unprogrammed.

g. The facilities have been designated C3 on the PWC Norfolk BASEREP.

a. Facility type/Category code: Public Works Shop/219-10

b. The existing facility does not provide enough area for shop work.

c. The facility serves as a Public Works Shop.

d. The existing facility cannot be upgraded to substandard without increasing the area. Increasing the area cannot be accomplished because other functions are located in the facility which precludes expansion. The space occupied for the particular shop function is only 100 SF.

e. The area could be used for small administrative storage. The cost for this conversion would be a nominal $3,000 to $4,000.

f. There is a plan to provide a new Public Works Shop (P-329, Public Works Shop) to allow PWC to relocate the Zone 3 Maintenance Shop. However, this is due to logistic problems. The 100 SF shop function supports building N26 on the Naval Base Norfolk, and no plans have been formulated to upgrade the space either through relocation or construction of another facility.

g. The designation for the Public Works Shop Zone 3 is C3 on the PWC BASEREP.

a. Facility type/Category code: Public Works Maintenance Storage/219-77

b. The existing facilities conditions are lack of space, deterioration due to age, and functional inefficiencies.

c. The existing facilities are being utilized for storage of maintenance materials.

Inadequate Facilities, continued

d. It would cost approximately $754,000 to upgrade the facilities to substandard.

e. The facilities are best suited as maintenance support type facilities. Reconfiguring these type facilities to some other use, for example administrative space, would be of MILCON scope.

f. The facilities will be incorporated between three planned MILCON projects (P-772, Auto Vehicle Maintenance Facility: P-667, Classified Incinerator/Shredder: P-896, Trash Bin Repair Facility). These MILCON projects are presently unprogrammed.

g. The designation for the facilities condition is C3 on the PWC Norfolk BASEREP.

Facility Utilization

4.3 Housing Assets

Table 4.3: **Housing Assets**

Type of Quarters	Number of Bedrooms	Total Number of Units	Number Adequate	Number Substandard	Number In-adequate
Officer	4+	199	197	2	0
Officer	3	197	195	2	0
Officer	1 or 2	15	14	0	0
Enlisted	4+	870	870	0	0
Enlisted	3	889	863	26	0
Enlisted	1 or 2	944	723	221	0
Mobile Homes	0	0	0	0	0
Mobile Homes Lots	0	0	0	0	0

Note: (1) 127 officer quarters at the Armed Forces Staff College will be permanently diverted for use as bachelor officer quarters.

(2) 388 Ben Moreell units being constructed to go on line Sept 96. Project replaces substandard units (608) at Ben Moreell.

Primary UIC: N00187

4.3 Housing Assets, continued

Table 4.3: **Housing Assets**

Housing Area: ST JULIEN CREEK **Site Location:** PORTSMOUTH, VA

Type of Quarters	Number of Bedrooms	Total Number of Units	Number Adequate	Number Substandard	Number In-adequate
Officer	4+	5	5	0	0
Officer	3	3	3	0	0
Officer	1 or 2	0	0	0	0
Enlisted	4+	0	0	0	0
Enlisted	3	0	0	0	0
Enlisted	1 or 2	0	0	0	0
Mobile Homes	0	0	0	0	0
Mobile Homes Lots	0	0	0	0	0

Activity: NFWC NORFOLK

Primary UIC: N00187

4.3 Housing Assests, continued

Table 4.3: **Housing Assets**

Housing Area: NAVAL SHIPYARD Site Location: PORTSMOUTH, VA

Type of Quarters	Number of Bedrooms	Total Number of Units	Number Adequate	Number Substandard	Number In-adequate
Officer	4+	23	23	0	0
Officer	3	3	3	0	0
Officer	1 or 2	0	0	0	0
Enlisted	4+	0	0	0	0
Enlisted	3	0	0	0	0
Enlisted	1 or 2	0	0	0	0
Mobile Homes	0	0	0	0	0
Mobile Homes Lots	0	0	0	0	0

Activity: NPWC NORFOLK

Primary UIC: N00187

4.3 Housing Assets, continued

Table 4.3: **Housing Assets**

Housing Area: ON BASE **Site Location:** NORFOLK, VA

Type of Quarters	Number of Bedrooms	Total Number of Units	Number Adequate	Number Substandard	Number In-adequate
Officer	4+	48	46	2	0
Officer	3	26	23	3	0
Officer	1 or 2	13	13	0	0
Enlisted	4+	0	0	0	0
Enlisted	3	0	0	0	0
Enlisted	1 or 2	0	0	0	0
Mobile Homes	0	0	0	0	0
Mobile Homes Lots	0	0	0	0	0

Activity: NIWC NORFOLK

Primary UIC: N00187

4.3 Housing Assets, continued

Table 4.3: **Housing Assets**

Housing Area: WILLOUGHBY BAY **Site Location:** NORFOLK, VA

Type of Quarters	Number of Bedrooms	Total Number of Units	Number Adequate	Number Substandard	Number In-adequate
Officer	4+	1	1	0	0
Officer	3	2	2	0	0
Officer	1 or 2	2	2	0	0
Enlisted	4+	70	70	0	0
Enlisted	3	270	270	0	0
Enlisted	1 or 2	100	100	0	0
Mobile Homes	0	0	0	0	0
Mobile Homes Lots	0	0	0	0	0

Activity: NAVWC NORFOLK

Primary UIC: N00187

4.3 Housing Assets, continued

Table 4.3: **Housing Assets**

Housing Area: LAFAYETTE RIVER **Site Location:** NORFOLK, VA

Type of Quarters	Number of Bedrooms	Total Number of Units	Number Adequate	Number Substandard	Number Inadequate
Officer	4+	2	2	0	0
Officer	3	4	4	0	0
Officer	1 or 2	0	0	0	0
Enlisted	4+	0	0	0	0
Enlisted	3	0	0	0	0
Enlisted	1 or 2	0	0	0	0
Mobile Homes	0	0	0	0	0
Mobile Homes Lots	0	0	0	0	0

Activity: NIWC NORFOLK

Primary UIC: N00187

4.3 Housing Assets, continued

Table 4.3: **Housing Assets**

Housing Area: FLAG **Site Location:** NORFOLK, VA

Type of Quarters	Number of Bedrooms	Total Number of Units	Number Adequate	Number Substandard	Number In-adequate
Officer	4+	30	30	0	0
Officer	3	1	1	0	0
Officer	1 or 2	0	0	0	0
Enlisted	4+	0	0	0	0
Enlisted	3	0	0	0	0
Enlisted	1 or 2	0	0	0	0
Mobile Homes	0	0	0	0	0
Mobile Homes Lots	0	0	0	0	0

Activity: NIWC NORFOLK

Primary UIC: NQ0187

4.3 Housing Assets, continued

Table 4.3: **Housing Assets**

Housing Area: CINCLANTFLT **Site Location:** NORFOLK, VA

Type of Quarters	Number of Bedrooms	Total Number of Units	Number Adequate	Number Substandard	Number Inadequate
Officer	4+	0	0	0	0
Officer	3	3	3	0	0
Officer	1 or 2	0	0	0	0
Enlisted	4+	0	0	0	0
Enlisted	3	0	0	0	0
Enlisted	1 or 2	0	0	0	0
Mobile Homes	0	0	0	0	0
Mobile Homes Lots	0	0	0	0	0

Activity: NAVWC NORFOLK

Primary UIC: N00187

4.3 Housing Assets, continued

Table 4.3: **Housing Assets**

Housing Area: ARMED FORCES **Site Location:** NORFOLK, VA

Type of Quarters	Number of Bedrooms	Total Number of Units	Number Adequate	Number Substandard	Number In-adequate
Officer	4+	90	90	0	0
Officer	3	154	154	0	0
Officer	1 or 2	0	0	0	0
Enlisted	4+	1	1	0	0
Enlisted	3	4	4	0	0
Enlisted	1 or 2	0	0	0	0
Mobile Homes	0	0	0	0	0
Mobile Homes Lots	0	0	0	0	0

Activity: NPWC NORFOLK

Primary UIC: N00187

4.3 Housing Assets, continued

Table 4.3: **Housing Assets**

Housing Area: STANLEY COURT **Site Location:** PORTSMOUTH, VA

Type of Quarters	Number of Bedrooms	Total Number of Units	Number Adequate	Number Substandard	Number In-adequate
Officer	4+	0	0	0	0
Officer	3	0	0	0	0
Officer	1 or 2	0	0	0	0
Enlisted	4+	32	32	0	0
Enlisted	3	26	26	0	0
Enlisted	1 or 2	67	67	0	0
Mobile Homes	0	0	0	0	0
Mobile Homes Lots	0	0	0	0	0

Activity: NAVWC NORFOLK

Primary UIC: N00187

4.3 Housing Assets, continued

Table 4.3: **Housing Assets**

Housing Area: NEW GOSPORT **Site Location:** PORTSMOUTH, VA

Type of Quarters	Number of Bedrooms	Total Number of Units	Number Adequate	Number Substandard	Number In-adequate
Officer	4+	0	0	0	0
Officer	3	0	0	0	0
Officer	1 or 2	0	0	0	0
Enlisted	4+	0	0	0	0
Enlisted	3	26	0	26	0
Enlisted	1 or 2	221	0	221	0
Mobile Homes	0	0	0	0	0
Mobile Homes Lots	0	0	0	0	0

Activity: NPWC NORFOLK

Primary UIC: N00187

4.3 Housing Assets, continued

Table 4.3: **Housing Assets**

Housing Area: HEWITT FARMS Site Location: NORFOLK, VA

Type of Quarters	Number of Bedrooms	Total Number of Units	Number Adequate	Number Substandard	Number In-adequate
Officer	4+	0	0	0	0
Officer	3	0	0	0	0
Officer	1 or 2	0	0	0	0
Enlisted	4+	111	111	0	0
Enlisted	3	68	68	0	0
Enlisted	1 or 2	211	211	0	0
Mobile Homes	0	0	0	0	0
Mobile Homes Lots	0	0	0	0	0

Primary UIC: N00187

Activity: NAVWC NORFOLK

4.3 Housing Assets, continued

Table 4.3: **Housing Assets**

Housing Area: CARPER **Site Location:** VIRGINIA BEACH, VA

Type of Quarters	Number of Bedrooms	Total Number of Units	Number Adequate	Number Substandard	Number In-adequate
Officer	4+	0	0	0	0
Officer	3	0	0	0	0
Officer	1 or 2	0	0	0	0
Enlisted	4+	600	600	0	0
Enlisted	3	0	0	0	0
Enlisted	1 or 2	0	0	0	0
Mobile Homes	0	0	0	0	0
Mobile Homes Lots	0	0	0	0	0

Primary UIC: N00187

Activity: NPWC NORFOLK

4.3 Housing Assets, continued

Table 4.3: **Housing Assets**

Housing Area: WOODBRIDGE CROSSING **Site Location:** NEWPORT NEWS, VA

Type of Quarters	Number of Bedrooms	Total Number of Units	Number Adequate	Number Substandard	Number In-adequate
Officer	4+	0	0	0	0
Officer	3	0	0	0	0
Officer	1 or 2	0	0	0	0
Enlisted	4+	0	0	0	0
Enlisted	3	0	0	0	0
Enlisted	1 or 2	300	300	0	0
Mobile Homes	0	0	0	0	0
Mobile Homes Lots	0	0	0	0	0

4. Facility Utilization, continued

4.4

Inadequate Officer Unit - On Base

Inadequate due to size (square footage)
Currently occupied as family housing units
Repairs/improvements planned for FY-98
No projects as of this date
Cost* SP-76 - $96,000 - 2 BR - FY98
SP-79 - $88,000 - 3 BR - FY98
SP-80 - $80,000 - 3 BR - FY98
*Economic analysis will be performed to determine if cost effective to repair/improve.

Inadequate New Gosport Units - Enlisted

Inadequate due to size, parking, no air conditioning.
Currently occupied as family housing units
PWC Norfolk does not plan to correct deficiencies. Current plan is to divest units in FY99. FY96 family housing survey does not show need for the units.

Programmed Project - H-258

Ben Moreell Enlisted Housing - FY94
Demolish 608 World War II units
Replace with 388 units on same site
Bedroom composition: 188 - 3 BR
175 - 4 BR
25 - 5 BR

Programmed Project - H -272

Carper Housing Replacement
Phase I * - 202 units
New Site
Bedroom Composition: 52 - 2 BR
150 - 3 BR
*Existing Carper Units will be demolished beginning in FY97.

4. Facility Utilization, continued

4.5 Expansion Capability

A vast majority of the facilities at PWC Norfolk are production oriented facilities. The functions in the facilities provide a variety of services to customer naval activities in support of the fleet at the Naval Base Norfolk. There are no present or foreseeable facilities expansion capabilities at PWC Norfolk based on the premise of underutilized facilities. This command's MILCON program will provide for some facilities expansion; however, the program also entails replacement facilities for PWC functions located in antiquated deteriorated buildings and functionally inadequate buildings.

Table 4.5: **Space Available for Expansion**

N/A

4.6 Expansion Potential

There is no discernible facilities expansion potential at PWC Norfolk except through new construction in the MILCON program.

4.7 Real Estate Resources
N/A

4.8 Other Constraints
At Naval Base Norfolk, COMNAVBASE holds all Class I property. PWC holds records for numerous Class II facilities - not for the land on which these facilities sit.

PWC Norfolk utilizes approximately 90,342 SF of parking on the Naval Base Norfolk. A majority of this parking is adjacent to PWC owned and occupied facilities. This precludes expansion of existing facilities. In addition, parking is very limited aboard the Naval Base Norfolk. The parking areas that PWC occupy are a small fraction of the overall parking areas on the Naval Base Norfolk. Therefore, it is imperative that this parking remain in support of the many military and civilian personnel who work for PWC Norfolk.

4.9 Tenant Occupied Space

Table 4.9: **Tenant Activities**

Tenant Name	UIC	Space Occupied (SF)
LANTNAVFACENGCOM	N62470	BLDG Z-140 7,801
NADEP SATELLITE HUMAN RESOURCE OFFICE	N65887	BLDG A-81 5,658

4. Facility Utilization, continued

4.10 Facility Measures

Table 4.10.a: Expenditures and Equipment Values

FY	MRP ($ K)	CPV ($ K)	ACE ($ K)
1986	18,264	DATA NOT AVAIL	30,945
1987	14,770	DATA NOT AVAIL	35,340
1988	20,543	DATA NOT AVAIL	55,431
1989	29,460	705,251	61,628
1990	28,643	717,186	61,648
1991	28,378	667,805	64,775
1992	31,216	679,945	65,525
1993	56,037	1,289,535	106,629
1994	65,977	0	0
1995	61,794	0	0
1996	59,683	0	0
1997	57,922	0	0

Activity: NAVWC NORFOLK

Primary UIC: N00187

4. Facility Utilization, continued

4.10 Facility Measures

Table 4.10.b: Family Housing Expenditures and Equipment Values

FY	MRP ($ K)	CPV ($ K)	ACE ($ K)
1986	5,307	DATA NOT AVAIL	216
1987	6,877	DATA NOT AVAIL	247
1988	7,495	DATA NOT AVAIL	387
1989	8,594	56,263	430
1990	9,417	58,326	453
1991	10,281	57,995	465
1992	8,936	59,081	474
1993	11,054	63,740	490
1994	17,121	0	0
1995	17,862	0	0
1996	18,662	0	0
1997	20,679	0	0

* Portsmouth Naval Shipyard housing consolidated with PWC Norfolk.

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

MAJOR CLAIMANT LEVEL

L. M. SMITH, CAPT, CEC, USN
NAME (Please type or print)

Signature

Acting Commander
Title

5/27/94
Date

COMNAVFACENGCOM
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

2 JUN 1994
Date

BRAC-95 CERTIFICATION

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

ACTIVITY COMMANDER

CAPT PETER M. VAN DYK
NAME

ACTING
COMMANDING OFFICER

~~EXECUTIVE OFFICER~~
TITLE

Signature

5/24/94
Date

NAVY PUBLIC WORKS CENTER, NORFOLK
ACTIVITY

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

MAJOR CLAIMANT LEVEL

NAME

Signature

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

Signature

TITLE

Date

DATA CALL 1: GENERAL INSTALLATION INFORMATION

1. ACTIVITY

OFFICIAL NAME: NAVY PUBLIC WORKS CENTER, NORFOLK, VA

ACRONYM: NPWC NORFOLK

SHORT TITLE: PWC NORFOLK

COMPLETE MAILING ADDRESS:
NAVY PUBLIC WORKS CENTER
9742 MARYLAND AVENUE
NORFOLK, VA 23511-3095

PLAD: PWC NORFOLK

PRIMARY UIC: N00187

ALL OTHER UIC(S): N/A

2. PLANT ACCOUNT HOLDER:
YES √

3. ACTIVITY TYPE:

HOST COMMAND:
YES √
TENANT COMMAND
N/A
INDEPENDENT ACTIVITY:
N/A

4. SPECIAL AREAS:

A. NAME	LOCATION	UIC
LITTLE CREEK AMPHIBIOUS BASE	NORFOLK, VA	N00187
NAVAL AIR STATION OCEANA	VIRGINIA BEACH VIRGININA	N00187
NORFOLK NAVAL SHIPYARD/ SAINT JULIEN'S CREEK	PORTSMOUTH VIRGINIA	N00187
FLEET COMBAT TRAINING CENTER	VIRGINIA BEACH VIRGINIA	N00187
NAVAL MEDICAL CENTER PORTSMOUTH	PORTSMOUTH VIRGINIA	N00187

COMMENTS:

Per Defense Management Review Decision (DMRD) 967, Public Works Center Norfolk recently consolidated with the Public Works Departments located at the above

listed sites. This decision requires that PWC Norfolk operate as a regional Public Works Center providing a full range of Base Operating Support Services to Navy activities located in Southside Hampton Roads. It further required that PWC Norfolk take over the responsibility for operations and ownership of all utility systems and other selected Class II buildings necessary to house materials, equipment, and administrative and shop personnel located at the above sites. DMRD 967 has increased both the plant value of Class II facilities and personnel on the rolls of the PWC. These increases by site are as follows:

CLASS II	INCREASE IN PLANT VALUE
LITTLE CREEK AMPHIBIOUS BASE	$ 2[illegible],861,615
NORFOLK NAVAL SHIPYARD/SAINT JULIEN'S CREEK	154,260,709
NAVAL AIR STATION OCEANA	1[illegible],503,620
FLEET COMBAT TRAINING CENTER, DAM NECK	1[illegible],509,625
NAVAL MEDICAL CENTER PORTSMOUTH	[illegible],517,639
TOTAL	$21[illegible],653,208

PERSONNEL	AMOUNT
LITTLE CREEK AMPHIBIOUS BASE	259
NORFOLK NAVAL SHIPYARD/SAINT JULIEN'S CREEK	327
NAVAL AIR STATION OCEANA	188
FLEET COMBAT TRAINING CENTER, DAM NECK	98
NAVAL MEDICAL CENTER PORTSMOUTH	79

B. NAME	LOCATION	UIC
FAMILY HOUSING	HEWITT FARMS NORFOLK (390 UNITS)	N00187
	CARPER, VIRGINIA BEACH (600 UNITS)	N00187
	*WOODBRIDGE CROSSING NEWPORT NEWS, VA (300 UNITS)	N/A

LAFAYETTE BRANCH RIVER CLINIC, NORFOLK (6 UNITS)	N00187
NEW GOSPORT PORTSMOUTH, VA (247 UNITS)	N00187
STANLEY COURT PORTSMOUTH, VA (125 UNITS)	N00187
NAVAL SHIPYARD PORTSMOUTH, VA (27 UNITS)	N00187
SAINT JULIEN'S CREEK PORTSMOUTH, VA (8 UNITS)	N00187

* Leased Housing -- title to pass to U.S. Government at end of lease period.

COMMENTS:

PWC Norfolk is responsible for the management and maintenance of 3,722 units of family housing. Of this number 1,703 units are not located on or contiguous to Naval Base Norfolk. These units are listed above. Of the remaining housing units, 608 Ben Moreell units are in process of demolition. They are to be replaced by 388 units scheduled for completion late FY95 or early FY96. The estimated operations and maintenance cost for family housing in FY94 is approximately $35M.

C.

NAME	UIC	LOCATION	PLANT VALUE
DRIVER DEEP POTABLE WELLS	N00187	DRIVER VIRGINIA	$1,582,324

COMMENTS:

The above wells are located at the Naval Radio Transmission Facility (NRTF) Driver. The reason these wells were located on NRTF Driver is their proximity to the city of Norfolk's raw water line which crosses Driver and for which there is an existing easement. The wells feed directly into the raw water pipe line and, when and if required, the city of Norfolk, under its utility contract with the Navy, would wheel and treat water for the Navy during drought conditions. BRAC 93 recommended the closure of NRTF Driver allowing the wells to become available to public agencies. These wells are mission essential to the Navy. Request BRAC 95 address the status of these wells and that they remain the property of the Navy Public Works Center, Norfolk.

5. DETACHMENTS:

NAME	UIC	LOCATION	HOST NAME	HOST UIC
NAVY PUBLIC WORKS CENTER	N00187	FORT STORY VIRGINIA	U.S. ARMY TRANSPORTATION CENTER FORT EUSTIS, VIRGINIA	W26CJU

The Navy Public Works Center and the U.S. Army transportation Center entered into a support agreement in 1973 to provide maintenance service for equipment,

buildings, roadways, parking areas and utility systems. In addition PWC provides utility service, i.e., electricity, water, sanitary sewage, insect, rodent and pest control services, trash and refuse collection and disposal functions, fuel oil and LP gas, janitorial services, grounds maintenance and environmental services as required.

The agreement covers Headquarters, Family Housing and the 80th Division (USAR) all located at Fort Story, Virginia Beach, VA. In addition, PWC provides miscellaneous maintenance service to the U.S. Army Reserve Center 29th and Gazel Streets, Norfolk and at the Army Reserve Center, Suffolk, Virginia. Total PWC sales to the Army is approximately $4M annually and requires 34 man years of effort.

6. BRAC IMPACT:

Previous BRAC decisions, including BRAC 93 proposals to close/realign the Naval Aviation Depot (UIC 65887), the Naval Under Warfare Engineering Command Detachment, Norfolk (UIC N64281) and the Naval Electronics Systems Engineering Center (UIC 65580) are anticipated to have a minimal impact on PWC Norfolk. Thru realignment, it is expected that the areas affected will be occupied and that the total PWC Norfolk business volume should remain relatively constant. One reasonably serious issue, however, does exist as a result of BRAC 93. The Public Works Center owns two wells at Naval Radio Transmission Facility (NRTF) Driver, a facility scheduled for closure. These wells are on PWC's Class II property and were constructed to support the Norfolk Naval Base during drought conditions. BRAC 95 needs to address this situation and clear up any ambiguity about control over the wells, as they are essential to the Navy's regional water plan.

7. MISSION:

Current Missions

- Navy Public Works Center provides a full range of Base Operating Support Services (BOSS) to all activities within the Tidewater Virginia geographical area. These services include maintenance and repair of all Class I and II properties and facilities, operations, maintenance and sales of electricity, steam, water, sewage, and other utilities, maintenance and operations of more than 6,200 pieces of transportation equipment, management and maintenance of 3,722 units of family housing, a wide spectrum of engineering services and environmental services including laboratory testing, packaging and disposal.

  Prior to implementation of DMRD 967, PWC sales for FY92 totaled $268.3M. Implementation of DMRD 967 increased PWC's sales by 48% in FY93. Total sales by customer and product for FY93 are as follows:

FY93 SALES BY MAJOR CUSTOMER		FY93 SALES BY PRODUCT LINE	
SHIPS	$69.6M	STEAM	$22.5M
NNSY, PORTSMOUTH	54.2M	ELECTRICITY	87.9M
NAVAL STATION	33.8M	WATER	8.1M
HOUSING	33.0M	SEWAGE	8.1M
NAS	20.7M	GAS	1.5M
CINCLANTFLT/HSA	20.5M	DEMINERALIZED WATER	.3M

NAB, LITTLE CREEK	20.4M*
NADEP	19.8M
NAS, OCEANA	14.2M*
NAVAL HOSPITAL	9.9M*
FISC, NORFOLK	8.6M
FCTC, DAM NECK	6.8M*
DEFENSE DIST REG EAST	6.5M
LANTDIV	4.7M
U.S. ARMY	3.8M
MILITARY SEALIFT COM	3.3M
FLEET TRAINING CTR	3.0M
NAVAIR	2.8M
NAVELEX	2.6M
NAVFAC	2.3M
CAMP ELMORE	2.1M
CAMERON STATION	2.1M
COMNAVBASE	2.0M
NAVAL AIR FORCE	1.8M
NCTAMSLANT	1.8M
SIMA, PORTSMOUTH	1.6M
SIMA, NORFOLK	1.5M
AFSC	1.2M
NAVSEACENLANT	1.2M
FLEET ASW TRAINING CTR	1.2M
NAVAL UNDERSEA WARFARE CENTER	1.1M
NARDAC	1.1M
OTHERS	38.6M
TOTAL	$397.8M

TELEPHONE	15.7M
CLEAN STEAM	48.7M
EMERGENCY WORK	5.1M
SERVICE WORK	8.2M
PEST CONTROL	.9M
SALT WATER	1.9M
LAB SERVICES	1.3M
SHREDDER	.2M
OIL SPILL	2.0M
GARBAGE COLL-DD	7.8M
GARBAGE COLL-CANS	.4M
SHIPBOARD WASTE	1.0M
HAZ WASTE DISPOSAL	11.2M
PREDETERMINED LABOR	66.1M
EQUIPMENT RENTAL	27.3M
CONTRACT ADMIN	9.3M
DIR MAT/CONTRACTS	60.2M
ASBESTOS REMOVAL	1.5M
MISC	.6M
TOTAL	$397.8M

*These activities transitioned to PWC during FY93. FY94 sales to these activities will increase.

- Maintenance Services
  - Major and Minor structural, mechanical and electrical repairs for shore facilities.
  - Emergency Service - Immediate response to eliminate a hazardous situation or restore essential services.
  - Routine Service - Work performed on a first-in, first-out basis, usually completed within two weeks.
  - Minor Work - Maintenance, repair and other work with a cost of up to $10,000.
  - Specific Work - Service that normally exceeds $10,000. This work is scoped in advance to provide accurate cost estimates and includes renovation and custom building.
  - Recurring Work - Periodic service for preventive maintenance.
  - Maintenance Service Agreements can extend the life of facilities or equipment with scheduled preventive maintenance.
  - Waterfront maintenance - pier, fender and barge repair and barge overhaul.
- Mobile Facilities Program - Configuration of special mobile facilities, i.e., communications vans, weather vans, medical vans, etc. to be utilized to sustain the support of tactical forces and other systems during worldwide combat operations.
- Utility Services
  - PWC generates and distributes steam. In addition, the Center maintains the on-base distribution systems for electricity, gas, water and sewage in support of the Fleet and Shore Facilities.
  - Manages the Refuse Derived Fuel plant to produce steam and generate electricity at NNSY.
  - Generates "clean steam" for ships.
  - Maintains and supports utility connections for shore services to ships.
  - Supports a variety of energy conservation programs.
- Engineering Support
  - Prepares plans, specifications, contract documentation, cost estimates, investigations, studies, designs and customer reports.
  - Develops long range maintenance planning (structural, mechanical and electrical).
  - Worldwide asbestos and lead identification and removal planning.
  - Hydrographic and topographic surveys.

- Inspection and certification of:
  - Boilers
  - Elevators
  - Backflow devices
  - Unfired pressure vessels
  - Weight handling equipment
- Test, adjust and balance (TAB) heating, ventilation and air conditioning systems.
- Navy wide identification of energy conservation measures.

■ Contract support

- Mission essential services that are not specifically available or services requiring special time restraints can be obtained through our facilities support contracts.

■ Transportation Services

- Maintains approximately 6,200 vehicles and pieces of equipment that range from sedans to heavy construction equipment.
- Provides short term and long term vehicle rental to ships and shore community, crane support to piers based on customer requirements.
- Provides day and night fuel service to customers.
- Quickline service available for preventive maintenance and minor repairs.
- Maintain customer equipment including emergency vehicles, cranes, materials handling equipment, etc.
- Personnel transport and heavy equipment operations including asphalt repair and snow removal.
- Vehicle licensing for special equipment, i.e., manlifts, forklifts, one ton or more trucks, and heavy equipment training available to customers.
- Solid waste management services including providing dumpsters for trash removal on a scheduled basis, cans and bulk pickups at all family housing areas.
- Quarantined waste (foreign and medical) pick up and disposal service provided.
- Management of a recycling facility to recover items for reuse.

■ Environmental Services

- Participate actively in effort to maintain and preserve a clean environment.
- Provide oil spill prevention and recovery services oil salvaged and processed for reuse.
- Clean up and disposal of hazardous waste spills.

- Collection, identification and disposal services for hazardous waste materials including shipboard waste, asbestos, pesticides, paint, etc.

- Providing analytical laboratory services including inspections, quality assurance, sample tracking and assistance in interpretation of test results. Tests not routinely done by in-house personnel are obtained for customers through local contractors but monitored by in-house lab personnel.

- Pest, weed and rodent control provided to area customers including family housing areas.

- Operate Industrial Waste Treatment Plant.

- Family Housing

  - Administer/Manages 3,722 on base and remote family housing units and government-owned quarters, housing over 15,000 military personnel and their families.

  - PWC, in concert with the City of Norfolk, established a Housing Referral Office located at JANAF Shopping Center. The office provides housing information to more than 20,000 customers annually.

- Ship Support Office - insures the fleet is provided with reliable and prompt services including utility connections, telecommunications, crane services, trash collection, oil spill recovery, etc.

Projected Missions for FY 2001

- Maintenance Services

  - Major and Minor structural, mechanical and electrical repairs for shore commands, Sewells Point, Little Creek, Oceana/Dam Neck, Shipyard and Fort Story.

  - Emergency Service - Immediate response to eliminate a hazardous situation or restore essential services.

  - Routine Service - Work performed on a first-in, first-out basis, usually completed within two weeks.

  - Minor Work - Maintenance, repair and other work with a cost of up to $10,000.

  - Specific Work - Service that normally exceeds $10,000. This work is scoped in advance to provide accurate cost estimates and includes renovation and custom building.

  - Recurring Work - Periodic service for preventive maintenance.

  - Maintenance Service Agreements can extend the life of facilities or equipment with scheduled preventive maintenance.

- Waterfront maintenance - pier, fender and barge repair and barge overhaul.

- Mobile Facilities Program - Configuration of special mobile facilities, i.e., communications, vans, weather vans, medical vans, etc. to be utilized to sustain the support of tactical forces and other systems during worldwide combat operations.

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  - Manages the Refuse Derived Fuel plant to produce steam and generate electricity at NNSY.

  - Generates "clean steam" for ships.

  - Maintains and supports utility connections for shore services to ships.

  - Supports a variety of energy conservation programs.

- Engineering Support

  - Prepare plans, specifications, contract documentation, cost estimates, investigations, studies, designs and customer reports.

  - Long range maintenance planning (structural, mechanical and electrical).

  - Worldwide asbestos and lead identification and removal planning.

  - Hydrographic and topographic surveys.

  - Inspection and certification of:
    Boilers
    Elevators
    Backflow devices
    Unfired pressure vessels
    Weight handling equipment

  - Test, adjust and balance (TAB) heating, ventilation and air conditioning systems.

  - Navy wide identification of energy conservation measures.

- Contract support

  - Mission essential services that are not specifically available or services requiring special time restraints can be obtained through our facilities support contracts.

- Transportation Services

  - Maintains approximately 6,200 vehicles and pieces of equipment that range from sedans to heavy construction equipment. If equipment needed by the customer is not available we will go out in the private sector to obtain.

- Provides a short term and long term vehicle rental to ships and shore community, crane support to piers based on customer requirements.
- Provides day and night fuel service to customers.
- Quickline service available for preventive maintenance and minor repairs.
- Maintain customer equipment including emergency vehicles, cranes, materials handling equipment, etc.
- Personnel transport and heavy equipment operations including asphalt repair and snow removal.
- Vehicle licensing for special equipment, i.e., manlifts, forklifts, one ton or more trucks, and heavy equipment training available to customers.
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- Providing analytical laboratory services including inspections, quality assurance, sample tracking and assistance in interpretation of test results. Tests not routinely done by in-house personnel are obtained for customer through local contractors but monitored by in-house lab personnel.
- Pest, weed and rodent control provided to area customers including family housing areas.
- Operate Industrial Waste Treatment Plant.

- Family Housing

  - Administer/Manages 3,722 on and remote housing units and government-owned quarters, housing over 15,000 military personnel and their families.

  - PWC, in concert with the City of Norfolk, established a Housing Referral Office located at JANAF Shopping Center. The office provides housing information to more than 20,000 customers annually.

- Ship Support Office - insures the fleet is provided with reliable and prompt services including utility connections, telecommunications, crane services, trash collection, oil spill recovery, etc.

8. UNIQUE MISSIONS:

Current Unique Missions

- Mobile Facilities Program - Configuration of special mobile facilities, i.e., communications, weather vans, medical vans, etc. to be utilized to sustain the support of tactical forces and other systems during worldwide combat operations.

- Ship support office maintained and operated in conjunction with the Naval Station to insure fleet is provided with reliable and prompt services as required including utility connections, Telecommunications, crane services, trash collection, oil spill recovery, etc.

- Manage operation of refuse derived fuel plant by SPSA to produce steam and generate electricity at NNSY using trash as an alternative energy source.

- Worldwide asbestos and lead identification. This includes the necessary planning for the removal of lead base paints from all DOD housing, child care centers and DOD schools.

Projected Unique Missions for FY 2001

- Mobile Facilities Program - Configuration of special mobile facilities, i.e., communications, weather vans, medical vans, etc. to be utilized to sustain the support of tactical forces and other systems during worldwide combat operations.

- Ship support office maintained and operated in conjunction with the Naval Station to insure fleet is provided with reliable and prompt services as required including utility connections, Telecommunications, crane services, trash collection, oil spill recovery, etc.

- Manage operation of refuse derived fuel plant by SPSA to produce steam and generate electricity at NNSY using trash as an alternative energy source.

- Worldwide asbestos and lead identification. This includes the necessary planning for the removal of lead base paints from all DOD housing, child care centers and DOD schools.

9. IMMEDIATE SUPERIOR IN COMMAND (ISIC):

OPERATIONAL NAME	UIC
COMMANDER, NAVAL BASE NORFOLK	N61463

FUNDING SOURCE	UIC
DBOF BUDGET THRU NAVAL FACILITIES ENGINEERING COMMAND	N00025

10. PERSONNEL NUMBERS:

On Board Count as of 01 January 1994

	Officers Billet Structure	Enlisted	DBOF) Civilian
Reporting Command	15	0	3,201
Tenants (total)	7	0	61*

* 25 DBOF/36 Appropriated

Authorized Positions as of 30 September 1994

	Forecasted Officers Billet Structure	Enlisted	(DBOF) Civilian
Reporting Command	17	0	3,187
Tenants (total)	6	0	57**

** PWC Norfolk currently receives HRO services from a satellite personnel office staffed by 25 Naval Aviation Depot, Norfolk, personnel. These personnel are scheduled to be consolidated into HRO Norfolk in the near future. They will continue to provide HRO services to PWC Norfolk but will become appropriated personnel.

11. KEY POINTS OF CONTACT (POC):

Title/Name	Office	Fax	Home
THOMAS J. TANNER, CAPT COMMANDING OFFICER	804-444-7141	804-444-4889	804-451-8479
Duty Officer Various Officer Personnel	804-444-7141	804-444-4889	804-434-6557
ROBERT W. HUTTEN BUSINESS MANAGER	804-445-2979	804-444-4889	804-480-2827
Billy D.FENTRESS COMPTROLLER	804-444-3464	804-444-6957	804-588-0301

12. TENANT ACTIVITY LIST:

- **Tenants residing on main complex (Naval Base, Norfolk)**

Tenant Command Name	UIC	OFFICER	ENLISTED	CIVILIAN
Resident Officer In Charge of Construction	N45806	7	0	36
Naval Aviation Depot Human Resource Office	N65887	0	0	25 (DBOF)

- **Tenants residing on main complex (homeported units)**

TENANT COMMAND NAME	UIC	OFFICER	ENLISTED	CIVILIAN
N/A	N/A	N/A	N/A	N/A

- **Tenants residing in Special Areas**

TENANT COMMAND NAME	UIC	LOCATION	OFFICER	ENLISTED	CIVILIAN
N/A	N/A	N/A	N/A	N/A	N/A

- **Tenants (Other)**

TENANT COMMAND NAME	UIC	LOCATION	OFFICER	ENLISTED	CIVILIAN
Naval Air Station Oceana	N60191	Virginia Beach Virginia	0	0	9
Southeastern Public Service Authority	N/A	Portsmouth Virginia	0	0	123* (Contractors)

*Refuse Derived Fuel Plant, Bldg 1515 located at Norfolk Naval Shipyard, Portsmouth, VA. Plant is owned by PWC, Norfolk and operated by Southeastern Public Service Authority.

13. REGIONAL SUPPORT: *PWC Norfolk provides the full range of Base Operations Support Services, primarily to activities within the Tidewater Virginia area. These services include maintenance and repair of Class I and II properties and facilities, sales of more than $200M of electricity, steam, water, sewage and natural gas. Maintenance and operations of more than 6,000 pieces of transportation equipment, management and maintenance of 3,722 units of family housing, a wide spectrum of engineering services and environmental services that include laboratory testing, packaging and disposal. These services are provided to approximately 1,300 customers and includes more than 100 ships.

UIC	ACTNAME	CITY	ST/COUNTRY	REGIONAL SUPPORT FUNCTION
N/A	436 AW/FMA	DOVER AFB	DE	*
N/A	905 AREFS/CCRA	GRAND FORKS AFB	ND	
N/A	A-1 ENVIRONMENTAL SVC INC	VIRGINIA BEACH	VA	
N/A	A-LERT CORP	FREDONIA	KA	
N/A	ABOU EL BARAKAT AL BARBARI		MOROCCO	
N/A	ACSC	MAXWELL AFB	AL	
N/A	ALROD	DISPUTANTA	VA	
N/A	APVA S E BRANCH	VIRGINIA BEACH	VA	
N/A	ARA LIBERTAD		ARGENTINA	
N/A	ARC ROYAL		GREAT BRITAIN	
N/A	ARMADA HOFFLER	CHESAPEAKE	VA	
N/A	ATLANTIC DISPOSAL OF TIDEWATER	NORFOLK	VA	
N/A	ATLANTIC FLEET CREDIT UNION	NORFOLK	VA	
N/A	BAP ILO		PERU	
N/A	BAY CONTRACTING	PORTSMOUTH	VA	
N/A	BRITISH AIRFORCE			
N/A	BUSINESS OPPORTUNITIES FOR THE BLIND	RICHMOND	VA	
N/A	C & P TELEPHONE	NORFOLK AREA		
N/A	CAE LINK CORPORATION	BINGHAMTON	NY	
N/A	CANADIAN COMMERICIAL CORPORATION	OTTAWA	CANADA	
N/A	CANCOMDESRON 1 HMCS HALIFAX		CANADA	
N/A	CBC ENTERPRISES, INC	NORFOLK	VA	
N/A	CENTREX TELEPHONE	NORFOLK		
N/A	CENTURY CONCRETE SERVICE INC	VIRGINIA BEACH	VA	
N/A	CFAV RIVERTON		CANADA	
N/A	CFS AIR CARGO, INC	SEEKONK	MA	
N/A	CHEMICAL NUCLEAR SYSTEMS INC	COLUMBIA	SC	
N/A	CHESAPEAKE GROUNDS	CHESAPEAKE	VA	
N/A	CIC US ATLANTIC FLEET	NORFOLK	VA	

N/A	CINCLANT FLT COMP REC	NORFOLK	VA	
N/A	CIVILIAN EMPLOYEES CAFE	NORFOLK	VA	
N/A	CNF CONSTRUCTION	MERIDAN	CT	
N/A	CO NAVAL AVIATION OPERATIONS CENTER	PATUXENT RIVER	MD	
N/A	CO NAVAL ELECTRONIC SYSTEM SECURITY ENG. CTR.	WASHINGTON	DC	
N/A	CO US COAST GUARD MARINE SAFETY OFFICE	NORFOLK	VA	
N/A	COASTAL GUNITE CONSTRUCTION CO.	CAMBRIDGE	MD	
N/A	COMMANDER COAST GUARD GOVERNORS ISLAND	FPO	AE	
N/A	COMMISSIONED OFF.MESS, ARMED FORCES STAFF COLLEGE	NORFOLK	VA	
N/A	COMMISSIONED OFFICERS MESS, NAS	NORFOLK	VA	
N/A	CONSOLIDATED MESS OPEN			
N/A	CONSOLIDATED PACKAGE STORE	NORFOLK	VA	
N/A	CONTRACTOR'S PAVING COMPANY	VIRGINIA BEACH	VA	
N/A	CURRENTS GENERAL, INC	NORFOLK	VA	
N/A	CURTEX CONSTRUCTION CORP	NORFOLK	VA	
N/A	DECA CENTRAL REGION, LITTLE CREEK	NORFOLK	VA	
N/A	DECA CENTRAL REGION, NAVAL BASE	NORFOLK	VA	
N/A	DECA CENTRAL REGION, OCEANA	NORFOLK	VA	
N/A	DECA CENTRAL REGION, PORTSMOUTH	NORFOLK	VA	
N/A	DEFENSE FINANCIAL ACCOUNTING SERVICE	ST LOUIS	MO	
N/A	DEFENSE MAPPING AGENCY	FAIRFAX	VA	
N/A	DIVERSIFIED INDUSTRIAL CONCEPTS	VIRGINIA BEACH	VA	
N/A	DONOHOE CO	WASHINGTON	DC	
N/A	DOREY ELETRIC CO	NORFOLK	VA	
N/A	DRAKE CONSTRUCTION COMPANY	VIRGINIA BEACH	VA	
N/A	DREADNOUGHT MARINE INC	NORFOLK	VA	
N/A	EXECUTIVE DIRECTOR SHIPBOARD BRANCH	NORFOLK	VA	
N/A	FEDERAL AVIATION ADMINISTRATION (FAA)	VIRGINIA BEACH	VA	
N/A	FGF BREMEN		GERMANY	

N/A	FGF LUEBACK		GERMANY	
N/A	FS EMERAUDE		FRANCE	
N/A	G E AIRCRAFT ENGINES	VIRGINIA BEACH	VA	
N/A	GOVERNMENT VEHICLE	NORFOLK	VA	
N/A	GRUMMAN AEROSPACE	HICKSVILLE	NY	
N/A	GTM CONSTRUCTION INC	NORFOLK	VA	
N/A	HATHAWAY-DUKE CONSTRUCTION	VIRGINIA BEACH	VA	
N/A	HDMS TRITON		CANADA	
N/A	HITT ELECTRIC CORP	VIRGINIA BEACH	VA	
N/A	HMCS ALGONQUIN		CANADA	
N/A	HMCS ANTI COSTI		CANADA	
N/A	HMCS FRASER		CANADA	
N/A	HMCS GATINEAU		CANADA	
N/A	HMCS HALIFAX		CANADA	
N/A	HMCS HALIFAX		CANADA	
N/A	HMCS HURON		CANADA	
N/A	HMCS MONTREAL		CANADA	
N/A	HMCS MORESBY		CANADA	
N/A	HMCS MORESBY		CANADA	
N/A	HMCS NIPIGON		CANADA	
N/A	HMCS OJIBWA		CANADA	
N/A	HMCS OTTAWA		CANADA	
N/A	HMCS PROTECTUER		CANADA	
N/A	HMCS PROVIDER		CANADA	
N/A	HMCS RESTIGOUCHE		CANADA	
N/A	HMCS TERRA NOVA		CANADA	
N/A	HMCS TORONTO		CANADA	
N/A	HMS BIRMINGHAM		GREAT BRITAIN	
N/A	HMS BOXER		GREAT BRITAIN	
N/A	HMS EXETER		GREAT BRITAIN	
N/A	HMS LANCASTER		GREAT BRITAIN	
N/A	HMS MARLBOROUGH		GREAT BRITAIN	
N/A	HMS SUPERB		GREAT BRITAIN	

N/A	HMS TURBULENT		GREAT BRITAIN	
N/A	HNLMS WITTE DE WITH		NETHERLANDS	
N/A	HOSPITALITY DEPARTMENT, NAS			
N/A	HR MS DOLFYN		NETHERLANDS	
N/A	HS KIMON		GREECE	
N/A	HUDGINS CONSTRUCTION CO. INC.	NEWPORT NEWS	VA	
N/A	HUGHES AIRCRAFT	NORFOLK	VA	
N/A	INNOVATIVE SERVICES	DEPEW	NY	
N/A	ITS GARIBALDI		ITALY	
N/A	J.B. DENNY CO	VIRGINIA BEACH	VA	
N/A	J.C. DRISKILL INC.	VIRGINIA BEACH	VA	
N/A	J.W. CREECH INC	NORFOLK	VA	
N/A	JDS KATORI		JAPAN	
N/A	JET SERVICES (AIRLINE REPRESENT)	CHESAPEAKE	VA	
N/A	JMSA SHIKISHIMA		JAPAN	
N/A	KNM TRONDHEIM		NORWAY	
N/A	LOTT CONSTRUCTION	MCLEAN	VA	
N/A	MARINE CORP EXCHANGE	NORFOLK	VA	
N/A	MARINE CORP EXCHANGE MWR	NORFOLK	VA	
N/A	MCDONALD'S PORTSMOUTH SITE	CLEARWATER	FL	
N/A	MCDONALDS #2187	CLEARWATER	FL	
N/A	MCDONALDS #7848	CLEARWATER	FL	
N/A	MCDONALDS #7884	CLEARWATER	FL	
N/A	MEKENZIE CONSTRUCTION CORP	VIRGINIA BEACH	VA	
N/A	METRO MACHINE	NORFOLK	VA	
N/A	MICHAEL A. EVERINGHAM	RICHMOND	VA	
N/A	MID EASTERN BUILDERS	CHESAPEAKE	VA	
N/A	MILANO'S PIZZA	NORFOLK	VA	
N/A	MORALE,WELFARE AND RECREATION, NNSY	PORTSMOUTH	VA	
N/A	MORRISON KNUDSEN	NORFOLK	VA	
N/A	MWR DAM NECK	VIRGINIA BEACH	VA	
N/A	MWR LITTLE CREEK	NORFOLK	VA	
N/A	MWR OCEANA	VIRGINIA BEACH	VA	
N/A	NAFRESO	NORFOLK,	VA	

N/A	NATIONSBANK CORP	CHARLOTTE	NC	
N/A	NATO AIRBORNE EARLY WARNING FORCE	APO		
N/A	NAVAL AIR FEDERAL CREDIT UNION	VIRGINIA BEACH	VA	
N/A	NAVY EXCHANGE DAM NECK	VIRGINIA BEACH	VA	
N/A	NAVY EXCHANGE LITTLE CREEK	NORFOLK	VA	
N/A	NAVY EXCHANGE NNSY	PORTSMOUTH	VA	
N/A	NAVY EXCHANGE OCEANA	VIRGINIA BEACH	VA	
N/A	NAVY EXCHANGE SVC CENTER NAVAL BASE	NORFOLK	VA	
N/A	NAVY FEDERAL CREDIT UNION	VIRGINIA BEACH	VA	
N/A	NAVY RESALE ACTIVITY	NORFOLK	VA	
N/A	NAVY RESALE ACTIVITY	NORFOLK	VA	
N/A	NAVY RESALE ACTIVITY, CONSOL. PACKAGE STORE	NORFOLK	VA	
N/A	NEWPORT NEWS SHIPBUILDING AND DRY DOCK CO	NEWPORT NEWS	VA	
N/A	NEXCOM	CHESAPEAKE	VA	
N/A	NNSY COOPERATIVE ASSOC.	PORTSMOUTH	VA	
N/A	NOAA/NESDIS OFFICE OF RESEARCH & APPLICATONS	CAMP SPRINGS	MD	
N/A	NORFOLK CONVENTION & VISITOR BUREAU	NORFOLK,	VA	
N/A	NORFOLK FLYING CLUB	NORFOLK	VA	
N/A	NORFOLK LIVE	NORFOLK	VA	
N/A	NORFOLK SHIPBUILDING & DRYDOCK CORP	NORFOLK	VA	
N/A	NORTH AMERICAN CONSTRUCTION CORP	SAN ANTONIO	TX	
N/A	NRP ALVARES CABAREL		PORTUGAL	
N/A	OHM CORPORATION	FINDLAY	OH	
N/A	OLD DOMINION UNIVERSITY	NORFOLK	VA	
N/A	P.A. ORR	VIRGINIA BEACH	VA	
N/A	PARSON BRINKEROFF QUADE AND DOUGLAS INC	NORFOLK	VA	
N/A	POSTMASTER U S POST OFFICE	NORFOLK	VA	
N/A	PRATT & WHITNEY	EAST HARTFORD	CT	
N/A	RC THEATRES	REISTERSTOWN	MD	
N/A	RECRATION DEPARTMENT	NORFOLK	VA	
N/A	RECREATION FUND USS PETERSON	FPO NEW YORK	NY	

N/A	RECREATION FUND USS SCOTT	FPO	AE	
N/A	REID ASSOCIATES	VA BEACH	VA	
N/A	RSA REGENT		GREAT BRITAIN	
N/A	RYDERS JANITORIAL	NEWPORT NEWS	VA	
N/A	S. C. JONES SVC INC	HAMPTON	VA	
N/A	S.W. DAY 90-C-0183C	CHESAPEAKE	VA	
N/A	SACLANT HEADQUARTERS	NORFOLK	VA	
N/A	SEAWARD MARINE SERVICES	NORFOLK	VA	
N/A	SERVICE TECHNICIANS, INC	POWAY	CA	
N/A	SHIRLEY CONSTRUCTION CORP	PORTSMOUTH	VA	
N/A	SIGNET BANK	RICHMOND	VA	
N/A	SNAP CONTRACTING CORP	NORFOLK	VA	
N/A	SNS EXTREMADURA		SPAIN	
N/A	SNS SERVIOLA		SPAIN	
N/A	SOUTHERN AIR TRANSPORTATION INC	MIAMI	FL	
N/A	SOVRAN BANK (NATIONS)	NORFOLK	VA	
N/A	STILLEY COMPANY	NEWPORT NEWS	VA	
N/A	STS YOUNG ENDEAVOR		AUSTRALIA	
N/A	SUBURBAN GRADING & UTILITIES	NORFOLK	VA	
N/A	SUPREME ALLIED COMMAND,ATLANTIC	NORFOLK	VA	
N/A	TELECOMMUNICATIONS TECH INC	MINNEAPOLIS	MN	
N/A	THE BOEING COMPANY	WICHITA	KS	
N/A	TMC MUAVENET		TURKEY	
N/A	U.S. ARMY CORPS OF ENGINEERS	NORFOLK	VA	
N/A	U.S. ARMY CORPS OF ENGINEERS	NORFOLK	VA	
N/A	UNISYS	DETROIT	MI	
N/A	USO HAMPTON ROADS	HAMPTON	VA	
N/A	USPS PROCUREMENT OFFICE	NORFOLK	VA	
N/A	VA PILOT ASSOCIATION	VIRGINIA BEACH	VA	
N/A	VARIOUS NJROTC	VARIOUS		
N/A	VETERAN'S ADMINISTRATION	HAMPTON	VA	
N/A	W. B. MEREDITH II INC	NORFOLK	VA	
N/A	W. M. JORDAN (AIR MAINT HANGAR)	NEWPORT NEWS	VA	

N/A	WELFARE AND REC FUND USS AUSTIN	NEW YORK	NY	
N/A	WELFARE AND REC FUND USS TRENTON	FPO	AE	
N/A	WELFARE AND REC FUND USS YELLOWSTONE	FPO	AE	
N/A	WELWARE AND REC FUND USS GEORGE WASHINGTON	FPO	AE	
(AFCC)	SCOTT AFB	SCOTT AFB	IL	
(NASA)	GODDARD SPACE FLIGHT CENTER	GREENBELT	MD	
(NASA)	NATIONAL AERONAUTICS/SPACE ADMIN. (NASA)	HAMPTON	VA	
(NASA)	NATIONAL AERONAUTICS/SPACE ADMIN. (NASA)	WALLOPS ISLAND	VA	
000000	AIR COMMAND AND STAFF COLLEGE	MAXWELL AFB	AL	
033181	DECA CENTRAL REGION FT STORY	NORFOLK	VA	
033181	DECA CENTRAL REGION NORFOLK	NORFOLK	VA	
067290	347 OG/CCR (KIM LEWIS AV 460-4030)	MOODY AFB	GA	
068093	NAVAL HOSPITAL CHERRY POINT	CHERRY POINT	NC	
133324	ATLANTIC MARINE CTR	NORFOLK	VA	
501700	SOUTHEAST AIR DEFENSE SECTOR/DE	TYNDALL AFB	FL	
504300	AGMC/MLEP	NEWARK AFB	OH	
AK3NXC	CO NAVAL SUPPLY SYSTEMS COMMAND	ARLINGTON	VA	
C90485	INTER-AMERICAN DEFENSE COLLEGE	WASHINGTON	DC	
CT1112	VETERANS MEDICAL CENTER	AUSTIN	TX	
D10122	DOD-WASHINGTON HEADQUARTERS SERVICES	WASHINGTON	DC	
DTCG27	FIFTH COAST GUARD DISTRICT	PORTSMOUTH	VA	
DTCG27	USCG GROUP HAMPTON ROADS	PORTSMOUTH	VA	
E87914	US ARMY ENG. DIV,HUNTSVILLE U.S.	HUNTSVILLE	AL	
F05108	ASD/PKXAK COMMANDER AFSC	WRIGHT-PATTERSON AFB	OH	
F70700	4500ABW (ACFMS)	LANGLEY AFB	VA	
FB2006	NEWARK AFB	NEWARK	OH	
FDZ040	SM-ALC/LHAF	MCCLELLAN AFB	CA	
GLAC	USATCFE (M)	FORT EUSTIS	VA	
H98230	NATIONAL SECURITY AGENCY	FORT MEADE	MD	
H98265	INFORMATION PROCESSING CENTER	NORFOLK	VA	

HHM440	DEFENSE INTELLIGENCE AGENCY	WASHINGTON	DC	
HM0018	CO DEFENSE MAPPING AGENCY CSCLANT	NORFOLK	VA	
HQCCAA	DECA CENTRAL REGION LITTLE CREEK	NORFOLK	VA	
HQCCBH	COMMISSARY STORE OFFICER	NORFOLK	VA	
HS1500	DEFENSE INVESTIGATIVE SERVICE	ALEXANDRIA	VA	
M00146	MARINE CORPS AIR STATION	CHERRY POINT	NC	
M03003	MARINE AIR CONTROL SQUADRON #24	VIRGINIA BEACH	VA	
M03007	SUPPLY OFFICER MARINE AIRCRAFT GROUP 41	DALLAS	TX	
M03020	MAG-46 DET "A"	NORFOLK	VA	
M03026	MARINE AIRCRAFT GROUP 49	WILLOW GROVE	PA	
M12001	2ND MARINE DIV. FMF	CAMP LEJEUNE	NC	
M20000	MARINE CORPS LOGISTICS CTR	ALBANY	GA	
M20034	HQ SVC. CO. 4TH MEB	NORFOLK	VA	
M20133	II MARINE AMPHIB. FORCE	CAMP LEJEUNE	NC	
M20179	CO 22 MEU	CAMP LEJEUNE	NC	
M20198	MSSG-26 26TH MEU	CAMP LEJEUNE	NC	
M21830	PURCHASING OFFICER	NORFOLK	VA	
M26382	MARINE CORPS COMMANDING GENERAL (BOS) 4TH. MARDIV	NEW ORLEANS	LA	
M53530	MARINE CORPS SECURITY BATTALION	NORFOLK	VA	
M53560	MARINE CORPS SECURITY FORCE COMPANY	NORFOLK	VA	
M60169	MARINE CORPS AIR STATION	BEAUFORT	SC	
M67001	MARINE BARRACKS	CAMP LEJEUNE	NC	
M67004	MARINE CORPS LOGISTICS BASE	ALBANY	GA	
M67011	HEADQUARTERS 1ST MARINE CORPS DISTRICT	GARDEN CITY	NY	
M67355	LANDING FORCE TRAINING COMMAND ATLANTIC	NORFOLK	VA	
M67391	CAMP ELMORE	NORFOLK	VA	
M67848	CO MARINE CORPS DETACHMENT NMITC	VIRGINIA BEACH	VA	
M67854	COMMANDER MARINE CORPS SYSTEMS COMMAND	WASHINGTON	DC	
M93004	COMMANDING GENERAL HEADQUARTERS AND SVC BATTALION	QUANTICO	VA	
M93923	CO USMC RECRUITING STATION	RICHMOND	VA	

N00014	OFFICE OF NAVAL RESEARCH	ARLINGTON	VA	
N00015	NAVAL TECHNICAL INTELLIGENCE CENTER	WASHINGTON	DC	
N00018	BUREAU OF MEDICINE AND SURGERY	WASHINGTON	DC	
N00018	CHIEF BUREAU OF MEDICINE AND SURGERY	WASHINGTON	DC	
N00019	NAVAL AIR SYSTEMS COMMAND	WASHINGTON	DC	
N00022	NAVAL MILITARY PERSONNEL COMMAND (PERS 842)	WASHINGTON	DC	
N00023	NAVAL SUPPLY SYSTEMS COMMAND	WASHINGTON	DC	
N00024	NAVAL SEA SYSTEMS COMMAND	WASHINGTON	DC	
N00025	NAVAL FACILITIES ENGINEERING COMMAND	WASHINGTON	DC	
N00025	NAVAL FACILITIES ENGINEERING COMMAND	ALEXANDRIA	VA	
N00027	HEADQUARTERS, US MARINE CORPS	WASHINGTON	DC	
N00031	NAVY FOOD SERVICE SYS OFFICE	WASHINGTON	DC	
N00032	JOINT CRUISE MISSILES PROJECT	WASHINGTON	DC	
N00033	MILITARY SEALIFT COMMAND N7	WASHINGTON	DC	
N00037	CHIEF OF NAVAL MATERIAL	WASHINGTON	DC	
N00038	CIC US PACIFIC COMMAND	CAMP H.S. SMITH	HI	
N00039	SPAWAR, NAVAL ELECTRONIC SYSTEMS COMMAND, HQS	WASHINGTON	DC	
N00043	NAVY LOGISTIC SUPPORT DET HOTEL	FPO	AE	
N00046	NAVAL SPACE COMMAND	DAHLGREN	VA	
N00061	OIC FOSIC EUROPE	FPO	AE	
N00062	NAVAL EDUCATION & TRAINING CENTER (NJROTC)	PENSACOLA	FL	
N00063	NAVAL TELECOMMUNICATIONS COMMAND	WASHINGTON	DC	
N00066	U.S. ATLANTIC COMMAND	NORFOLK	VA	
N00069	NAVAL SECURITY GROUP COMMAND	WASHINGTON	DC	
N00072	NAVY RESERVE FORCE	NEW ORLEANS	LA	
N00074	CO NAVAL SPECIAL WARFARE COMMAND	SAN DIEGO	CA	
N00101	NAVAL AIR STATION	SOUTH WEYMOUTH	MA	
N00102	PORTSMOUTH NAVAL SHIPYARD	PORTSMOUTH	NH	
N00104	NAVY SHIPS PARTS CONTROL CENTER	MECHANICSBURG	PA	
N00105	NAVY MEDICAL CLINIC	PORTSMOUTH	NH	

N00109	NAVAL WEAPONS STATION	YORKTOWN	VA	
N00111	BOSTON NAVAL SHIPYARD	BOSTON	MS	
N00124	NAVAL WAR COLLEGE	NEWPORT	RI	
N00140	NAVAL REGIONAL CONTRACTING CENTER	PHILADELPHIA	PA	
N00146	MARINE CORPS AIR STATION	CHERRY POINT	NC	
N00151	PHILADELPHIA NAVAL SHIPYARD	PHILADELPHIA	PA	
N00158	CONSOLIDATED CIVILIAN PERSONNEL OFFICE	NAVAL BASE	PA	
N00158	NAVAL AIR STATION	WILLOW GROVE	PA	
N00161	U.S. NAVAL ACADEMY	ANNAPOLIS	MD	
N00162	CO NAVAL MEDICAL CLINIC	ANNAPOLIS	MD	
N00163	NAVY AVIONICS CENTER, CODE 510	INDIANAPOLIS	IN	
N00164	NAVAL WEAPONS SUPPORT CENTER	CRANE	IN	
N00166	NAVAL AIR FACILITY ANDREWS AFB	WASHINGTON	DC	
N00167	DAVID TAYLOR RESEARCH DEV. CENTER	BETHESDA	MD	
N00168	NATIONAL NAVAL MEDICAL CENTER	BETHESDA	MD	
N00171	OFFICE OF FACILITIES & SERVICE HQTRS NAVAL DIST	WASHINGTON	DC	
N00173	NAVAL RESEARCH LABORATORY	WASHINGTON	DC	
N00174	NAVAL ORDNANCE STATION	INDIAN HEAD	MD	
N00175	COMMANDER NAVAL BASE	PHILADELPHIA	PA	
N00178	NAVAL WEAPONS LAB (SURFACE CENTER)	DAHLGREN	VA	
N00181	NORFOLK NAVAL SHIPYARD	PORTSMOUTH	VA	
N00183	NAVAL HOSPITAL PORTSMOUTH	PORTSMOUTH	VA	
N00188	AIRCRAFT INTERMEDIATE MAINT. DEPT. (AIMD)	NORFOLK	VA	
N00188	CO HELMINEROON 14 (HM 14)	NORFOLK	VA	
N00188	CO NAVAL AIR STATION	NORFOLK	VA	
N00188	CO NAVAL AIR STATION	NORFOLK	VA	
N00188	VRC-40 NAVAL AIR STATION	NORFOLK	VA	
N00189	FLEET INDUSTRIAL SUPPLY CENTER	NORFOLK	VA	
N00189	FLEET INDUSTRIAL SUPPLY CENTER, CHEATHAM ANNEX	WILLIAMSBURG	VA	
N00189	SUPPLY SYSTEMS SECURITY GROUP	NORFOLK	VA	
N00191	CHARLESTON NAVAL SHIPYARD	CHARLESTON	SC	
N00193	NAVAL WEAPONS STATION	CHARLESTON	SC	

N00196	PUBLIC WORKS DEPARTMENT NAS ATLANTA	MARIETTA	GA	
N00197	NAVAL ORDNANCE STATION	LOUISVILLE	KY	
N00205	US NAVAL SUPPORT ACTIVITY	NEW ORLEANS	LA	
N00206	CO NAVAL AIR STATION	NEW ORLEANS	LA	
N00207	CO NAVAL AIR STATION	JACKSONVILLE	FL	
N00210	COMMANDER NAVAL TRAINING CENTER	GREAT LAKES	IL	
N00213	CO NAVAL AIR STATION	KEY WEST	FL	
N00215	CO NAVAL AIR STATION, FITRON 201	DALLAS	TX	
N00228	NAVAL SUPPLY CENTER	OAKLAND	CA	
N00231	CO NAVAL MEDICAL CLINIC	QUANTICO	VA	
N00251	COMMANDER PUGET SOUND NAVAL SHIPYARD	BREMERTON	WA	
N00253	NAVAL UNDERSEA WARFARE ENGINEERING STATION	KEYPORT	WA	
N0025A	FLTCOMBATSYSTRAUPAC	SAN DIEGO	CA	
N00267	NAVAL MEDICAL CLINIC	KEY WEST	FL	
N00274	VP-93 NAVAL AIR FACILITY DETROIT	MT CLEMENS	MI	
N00275	FACILITIES MAINT. DIVISION NAS	GLENVIEW	IL	
N00281	FLEET COMBAT TRAINING CENTER	VIRGINIA BEACH	VA	
N00288	NAVAL PUBLICATIONS & FORMS CENTER	PHILADELPHIA	PA	
N00296	CO NAVAL AIR STATION	MOFFETT FIELD	CA	
N00311	PEARL HARBOR NAVAL SHIPYARD	PEARL HARBOR	HI	
N00319	NAVY FOOD MANAGEMENT TEAM	NORFOLK	VA	
N0031A	NAVAL SPECIAL WARFARE GROUP 2 (V48120,V49375)	NORFOLK	VA	
N00367	NAVSUP INTERN DEVELOPMENT CENTER	MECHINICSBURG	PA	
N00383	NAVY AVIATION SUPPLY OFFICE	PHILADELPHIA	PA	
N00389	NAVAL STATION	FPO	AA	
N00421	NAVAL AIR TEST CENTER	PATUXENT RIVER	MD	
N00424	NAVY PETROLEUM OFFICE	ALEXANDRIA	VA	
N00612	NAVAL SUPPLY CENTER	CHARLESTON	SC	
N00620	NAVAL AIR STATION	OAK HARBOR	WA	
N00628	NAVAL EDUCATION & TRAINING SECURITY ASSISTANCE	PENSACOLA	FL	
N00702	NAVAL SECURITY GROUP ACTIVITY	WINTER HARBOR	ME	

N00743	CO US NAVCOMTLSTA PR	FPO	AA	
N00788	NAVAL COMMUNICATION UNIT, WASHINGTON	WASHINGTON	DC	
N01056	USNS ALBERT J. MYER T-ARC6	FPO	AP	
N03002	SUPPLY OFFICER MAG 41 DET A ANDREWS AFB	WASINGTON	DC	
N0338A	SUPPLY OFFICER OCEANOGRAPHIC UNIT 2	FPO	AE	
N0379A	TACTICAL AIR CONTROL GROUP 2	FPO	AE	
N0381A	HELSUPPRON 6 NAS	NORFOLK	VA	
N0387A	FLEET INTELLIGENCE TRAINING CENTER (FITCLANT)	NORFOLK	VA	
N0404A	TRAINING SQD. VT 25	BEEVILLE	TX	
N0432A	NAVAL AVIATION MUSEUM	PENSACOLA	FL	
N0463A	NAVY EXPERIMENTAL DIVING UNIT	PANAMA CITY	FL	
N0464A	NAVAL EXPLOSIVE ORDINANCE DISPOSAL TECH CENTER	INDIAN HEAD	MD	
N0537A	NAVAL ENERGY & ENVIRONMENTAL SUPPORT ACTIVITY	PORT HUENEME	CA	
N05842	USNS BARTLETT TAG OR138	FPO	AE	
N0586A	FLEET INTELLIGENCE CENTER, EUROPE & ATLANTIC	NORFOLK	VA	
N0597A	OFFICE OF CIVILIAN PERSONNEL	NORFOLK	VA	
N0618A	CO SCHOOL OF MUSIC	NORFOLK	VA	
N0622A	NAVAL SCHOOL HEALTH SCIENCES	PORTSMOUTH	VA	
N0763A	SUPPLY OFFICER RECRUIT TRAINING COMMAND	GREAT LAKKS	IL	
N08861	CO NMCB-21	LAKEHURST	NJ	
N09123	MATERIAL CONTROL OFFICER HSL-30 NAS	NORFOLK	VA	
N09146	PATRON SQUADRON NINE TWO NAS	SO WEYMOUTH	MA	
N09289	TACTICAL ELECTRONIC WARFARE SQ. 130	WHIDBEY ISLAND	WA	
N09354	TACTICAL ELECTRONIC WARFARE SQ. 33 (VAQ-33)	KEY WEST	FL	
N09393	ATTACK CARRIER AIR WING RESERVE NAS	JACKSONVILLE	FL	
N09465	CARRIER AIRBORNE EARLY WARNING TRAINING SQUAD. 116	FPO	AP	
N09476	CARRIER AIRBORNE EARLY WARNING TRAINING SQUAD. 122	FPO	AE	
N09477	CARRIER AIRBORNE EARLY WARNING TRAINING SQUAD. 123	FPO	AE	

N09526	CARRIER AIRBORNE EARLY WARNING TRAINING SQUAD. 124	FPO	AE	
N09572	AIR ANTI-SUBMARINE SQUADRON LANT 31 (VS-31)	FPO	AA	
N09615	TACTICAL ELECTRONIC WARFARE SQ. 132 (VAQ-132)	FPO	AP	
N09922	CARRIER AIRBORNE EARLY WARNING TRAINING SQUAD. 125	FPO	AE	
N09963	CARRIER AIRBORNE EARLY WARNING TRAINING SQUAD. 126	FPO	AE	
N09969	TACTICAL ELECTRONIC WARFARE SQ. 133	FPO	AP	
N09983	HELICOPTER WING RESERVE NAS	SAN DEIGO	CA	
N09985	CARRIER AIRBORNE EARLY WARNING TRAINING SQUAD. 117	FPO	AP	
N18033	LOGISTICAL SUPPORT UNIT 32	CAMP LEJUENE	NC	
N21024	USS OLYMPIA (SSN-717)	FPO	AE	
N21525	USNS LEROY GRUMMAN (T-AO 195)	FPO	AE	
N2154W	COUNSELING AND ASSISTANCE CENTER NAVAL STATION	NORFOLK	VA	
N21621	USNS BIG HORN (T-AO 198)	FPO	AE	
N21651	USNS SATURN T-AFS-10	FPO	AE	
N30328	NEESU DETACHMENT OCEANA	VIRGINIA BEACH	VA	
N30335	NAESU DETACHMENT NORFOLK	NORFOLK	VA	
N30492	DAVID TAYLOR RESEARCH DET.	BREMERTON	WA	
N30571	OFFICE OF THE GENERAL COUNSEL NAVY	WASHINGTON	DC	
N31094	DEFENSE DEPOT, MEMPHIS	MEMPHIS	TN	
N31140	DEFENSE COURIER DET. NAS	NORFOLK	VA	
N31149	NAVAL SEA LOGISTICS CENTER	MECHANICSBURG	PA	
N31188	CO NAVAL SECURITY GROUP ACTIVITY	SURGAR GROVE	WV	
N31698	OFFICE OF THE SECRETARY OF NAVY	WASHINGTON	DC	
N31705	NAVY OFFICE OF INFORMATION	WASHINGTON	DC	
N32172	SURFACE EFFECTS SHIP SUPPORT OFFICE	PATUXENT RIVER	MD	
N32678	COMMUNICATIONS SEC MATERIAL SYSTEMS	NORFOLK	VA	
N32858	DIRECTOR COMMUNICATION SECURITY GROUP	WASHINGTON	DC	
N32960	U.S. NAVY SUPPORT OFFICE	FPO	AE	
N33181	DEFENSE COMMISARY AGENCY	FORT LEE	VA	

N35105	NJROTC	NORFOLK	VA	
N35355	NAVY INACTIVE FLEET	PORTSMOUTH	VA	
N41738	NAVY TACTICAL INTEROPERABILITY SUPPORT ACTIVITY	SAN DIEGO	CA	
N41756	NAVY ENGINEERING LOGISTICS OFFICE	ARLINGTON	VA	
N42237	NAVAL SUBMARINE BASE	KINGS BAY	GA	
N42469	NAVY FINANCE CENTER	CLEVELAND	OH	
N42582	NAVY BROADCASTING SVC. DET. #36	ARLINGTON	VA	
N42608	NAVY FLEET MATERIAL SUPPORT OFFICE	MECHANICSBURG	PA	
N43677	NAVY TECHNICAL TRAINING SUPPORT GROUP	NORFOLK	VA	
N43683	AVIATION SUPPLY OFFICE	WASHINGTON	DC	
N44018	CIC US ATLANTIC FLEET	NORFOLK	VA	
N45045	NAVCOMPTSSA DETACHMENT	MEMPHIS	TN	
N45405	NAVAL SEA SYSTEMS COMMAND	PORTSMOUTH	VA	
N45406	NAVSEADET (PERA CV)	BREMERTON	WA	
N45534	AEGIS COMBAT SYSTEMS CENTER	WALLOPS ISLAND	VA	
N45679	SUBMARINE TRAINING FACILITY	NORFOLK	VA	
N45701	COMMANDER MARITIME PREPOSITION SHIP SQUADRON 1	FPO	AE	
N45735	OFFICE OF CIVILIAN PERSONNEL MGT. SER.	NORFOLK	VA	
N45770	NAVY LIASON GROUP WASHINGTON	WASHINGTON	DC	
N45854	FLEET SURVEILLANCE SUPPORT COMMAND	CHESAPEAKE	VA	
N45855	FLEET SURVEILLANCE SUPPORT COMMAND DET. 1	CHESAPEAKE	VA	
N45856	FLEET SURVEILLANCE SUPPORT COMMAND DET 2	CHESAPEAKE	VA	
N46019	NAVSUP PRICE FIGHTER DET.	NORFOLK	VA	
N46077	MSC TAGOS UNIT ATLANTIC	NORFOLK	VA	
N46605	NAS MEASURE OPERATIONAL CONT CTR	NORFOLK	VA	
N47039	CHIEF OF NAVAL OPERATIONS	WASHINGTON	DC	
N47344	JOINT DOCTRINE CENTER	NORFOLK	VA	
N47767	NAVAL RESERVE RECRUITING COMMAND	SILVER SPRING	MD	
N48695	DIRECTOR PUGET SOUND NAVAL SHIPYARD	BOSTON	MA	

N49116	BUPERS (PERS-659)	WASHINGTON	DC	
N52850	OIC, CTG 168.2	NORFOLK	VA	
N52956	HELICOPTER ANTISUBMARINE WING ONE	JACKSONVILLE	FL	
N52994	CO NAVAL AIR RESERVE	NORFOLK	VA	
N52994	US ARMY WAR COLLEGE	CARLISLE BARRACKS	PA	
N54000	CO MOBILE MINE ASSEMBLY GROUP UNIT 11	NORTH CHARLESTON	SC	
N55214	HELMINERON EIGHTEEN NAS	NORFOLK	VA	
N55300	LOGISTICS SUPPORT GROUP 4	CAMP LEJUENE	NC	
N55421	SERVICE SQUADRON 8 (COMSERVRON 8) LITTLE CREEK	NORFOLK	VA	
N55485	MIUWU 203	BROOKLYN	NY	
N55496	MOBILE SALVAGE & DIVING UNIT 2	NORFOLK	VA	
N55631	NAVINACTSHIPMAINTFAC	PORTSMOUTH	VA	
N57005	COMMANDER SERVICE FORCE SIXTH FLEET	FPO	AE	
N57021	COMMANDER TRAINING GROUP - SHORE	NORFOLK	VA	
N57023	OPERATIONAL TEST AND EVALUATION FORCE	NORFOLK	VA	
N57025	COMNAVAIRFAC NAS NORTH ISLAND	SAN DIEGO	CA	
N57041	NAVAL FACILITY CAPE HATTERAS	BUXTON	NC	
N57074	ATLANTIC FLEET HEADQUARTERS SUPPORT ACTIVITY	NORFOLK	VA	
N57075	U.S. NAVAL FACILITY ARGENTIA NEWFOUNDLAND		CANADA	
N57095	ATLANTIC FLEET HEADQUARTERS SUPPORT ACTIVITY	NORFOLK	VA	
N60087	NAVAL AIR STATION	BRUNSWICK	ME	
N60191	NAVAL AIR STATION, OCEANA	VIRGINIA BEACH	VA	
N60200	STAFF CIVIL ENGR NAS CECIL FIELD	CECIL FIELD	FL	
N60201	NAVAL STATION	MAYPORT	FL	
N60258	LONG BEACH NAVAL SHIPYARD	LONG BEACH	CA	
N60259	NAVAL AIR STATION, MIRAMAR	SAN DIEGO	CA	
N60268	NAVY RECRUITING DISTRICT, CHICAGO	GLENVIEW	IL	
N60376	CO NAS CHASE FIELD	BEEVILLE	TX	
N60478	NAVAL WEAPONS STATION, EARLE	COLTS NECK	NJ	
N60508	NAVAL AIR STATION, CIVILIAN PERSONNEL OFFICE	MILTON	FL	

N60514	NAVAL STATION GITMO	FPO	AE	
N60530	NAVAL WEAPONS CENTER	CHINA LAKE	CA	
N60672	NAVAL EDUCATION & TRAINING CENTER	NEWPORT	RI	
N60681	COMMISSARY STORE DIVISION-LONG BEACH BRANCH	SAN DIEGO	CA	
N60701	NAVAL WEAPONS STATION	SEAL BEACH	CA	
N60921	NAVAL SURFACE WEAPONS CENTER	SILVER SPRINGS	MD	
N60951	FLEET ACCOUNTING & DISBURSING CENTER	NORFOLK	VA	
N61158	NAVAL STATION	CHARLESTON	SC	
N61174	CO NAVAL STATION	STATEN ISLAND	NY	
N61189	PHILADELPHIA NAVAL STATION	PHILADELPHIA	PA	
N61331	NAVAL COASTAL SYSTEMS CENTER	PANAMA CITY	FL	
N61339	NAVAL TRAINING SYSTEMS CENTER	NORFOLK	VA	
N61414	NAVAL AMPHIBIOUS BASE LITTLE CREEK	NORFOLK	VA	
N61463	NAVAL BASE NORFOLK	NORFOLK	VA	
N61564	US NAVAL HOSPITAL GITMO	FPO	AE	
N61690	FTC NAVSTA	SAN DIEGO	CA	
N61726	CO NAVAL HOSPITAL	CRONTON	CT	
N61762	NAVAL ORDNANCE MISSILE TEST STA.	WHITE SANDS	NM	
N61797	FLEET TRAINING CENTER	NORFOLK	VA	
N61823	MTUW 504 - NRC.	PERTH AMBOY	NJ	
N61843	NAVMARCURESCEN	FORT SCHUYLER, BRONX	NY	
N61905	NAVMARCORESCEN	ROANOKE	VA	
N61999	MIUWU 201 BAYVIEW PARK	TOLEDO	OH	
N62078	CO NAVAL AND MARINE CORPS RESERVE	LOUISVILLE	KY	
N62269	NAVAL AIR DEVELOPMENT CENTER	WARMINSTER	PA	
N62271	NAVAL POST GRADUATE SCHOOL	MONTEREY	CA	
N62276	NAVAL RESEVE CENT	STAUNTON	VA	
N62285	U.S. NAVAL OBSERVATORY	WASHINGTON	DC	
N62287	NAVMED CLINIC	SAN FRANCISCO	CA	
N62306	NAVAL OCEANOGRAPHIC OFFICE	BAY ST LOUIS	MS	
N62306	NAVAL OCEANOGRAPHIC OFFICE	WASHINGTON	DC	
N62376	NAVAL AIR PROPULSION CENTER	TRENTON	NJ	

N62381	MILITARY SEALIFT COMMAND ATLANTIC	BAYONNE	NJ	
N62395	NAVY PUBLIC WORKS CENTER, GUAM	FPO	AP	
N62416	NAVY RECRUITING DISTRICT	COLUMBUS	OH	
N62423	NAVY RECRUITING DISTRICT	LITTLE ROCK	AK	
N62430	NAVY RECRUITING DISTRICT	RALEIGH	NC	
N62431	NAVY RECRUITING DISTRICT	RICHMOND	VA	
N62432	NAVY RECRUITING DISTRICT	ST LOUIS	MO	
N62446	NAVY RECRUITING DISTRICT	PHILADELPHIA	PA	
N62447	NAVY RECRUITING DISTRICT	PITTSBURGH	PA	
N62450	NAVY RECRUITING DISTRICT	HYATTSVILLE	MD	
N62470	ATLANTIC DIVISION, NAVAL FAC. ENG. COMM. HOUSING	NORFOLK	VA	
N62470	ATLANTIC DIVISION, NAVAL FACILITIES ENG. COMM.	NORFOLK	VA	
N62474	WESTERN DIVISION, NAVAL FACILITIES ENG. COMM.	SAN BRUNO	CA	
N62477	CHESAPEAKE DIVISION, NAVAL FACILITIES ENG. COMM.	WASHINGTON	DC	
N62481	NAVAL AIR STATION		BERMUDA	
N62537	ENGINEERING OFFICER MSCMED	NAPLES	IT	
N62538	MILITARY SEALIFT COMMAND OFFICE	NORFOLK	VA	
N62538	MILITARY SEALIFT COMMAND OFFICE	NORFOLK	VA	
N62575	NAVAL PUBLICATIONS & PRINTING SERVICE DET. OFFICE	NORFOLK	VA	
N62583	CONSTRUCTION BATTALION CENTER	PORT HUENEME	CA	
N62585	WILLIAMS AFB	WILLIAMS AFB	AZ	
N62588	U.S. NAVAL SUPPORT ACTIVITY, NAPLES, ITALY	FPO	AE	
N62604	NAVAL CONSTRUCTION BATTALION CENTER	GULFPORT	MS	
N62638	NAVAL INSHORE UNDERSEA WARFARE GROUP 2	WILLIAMSBURG	VA	
N62645	CO NAVAL MEDICAL LOGISTICS COMMAND	FREDICK	MD	
N62645	DEFENSE DEPOT, OGDEN	OGDEN	UT	
N62661	NAVAL EDUCATION & TRAINING CENTER	NEWPORT	RI	
N62670	SUPERVISOR SHIPBUILDING CONVERSION & REPR MAYPORT	JACKSONVILLE	FL	
N62676	NEEACT PAC	PEARL HARBOR	HI	

N62678	SUPERVISOR SHIPBUILDING CONVERSION & REPR NNSY	PORTSMOUTH	VA	
N62688	NAVAL STATION	NORFOLK	VA	
N62741	NAVY SUPPLY CORPS SCHOOL	ATHENS	GA	
N62742	PACIFIC DIVISION NAVAL FACILITIES ENG. COMM	PEARL HARBOR	HI	
N62753	NAVY REGIONAL DENTAL CENTER	NORFOLK	VA	
N62755	NAVY PUBLIC WORKS CENTER	PEARL HARBOR	HI	
N62761	NAVAL AUDIT SERVICE, SOUTHEAST REGION	VIRGINIA BEACH	VA	
N62767	NAVAL AIR TECHNICAL SVC. FAC.	PHILADELPHIA	PA	
N62770	US NAVAL SHIP REPAIR FACILITY	SAN FRANCISCO	CA	
N62786	SUPERVISOR SHIPBUILIDNG, CONVERSION CENTER BATH	BATH	ME	
N62789	SUPERVISOR SHIPBUILDING, CONVERSION & REPR GROTON	GROTON	CT	
N62791	SUPERVISOR SHIPBUILDING, CONVERSION & REPR SAN DIE	SAN DIEGO	CA	
N62793	SUPERVISOR SHIPBUILDING, CONVERSION & REPR N.NEWS	NEWPORT NEWS	VA	
N62795	SUPERVISOR SHIPBUILDING, CONVERSION & REPR PASCAGO	PASCAGOULA	MS	
N62799	SUPERVISOR SHIPBUILDING, CONVERSION & REPR SEATTLE	SEATTLE	WA	
N62808	NAVY PUBLIC WORKS CENTER, SUBIC BAY	FPO	AP	
N62849	NAVAL AVIATION ENGINEERING SVC. UNIT NORFOLK	PHILADELPHIA	PA	
N62863	NAVAL STATION ROTA	FPO	AE	
N62873	NAVY DISEASE VECTOR ECOLOGY & CONTROL CENTER	JACKSONVILLE	FL	
N62896	BOARD OF INSPECTION & SURVEY, ATL	NORFOLK	VA	
N62911	NAVY RECRUITING AREA 1	SCOTIA	NY	
N62914	NAVY RECRUITING AREA 4	COLUMBUS	OH	
N62915	NAVY RECRUITING AREA 5	GREAT LAKES	IL	
N62980	SUPPLY OFFICER NAVMAC	CHESAPEAKE	VA	
N62995	NAVAL AIR STATION SIGONELLA	FPO	AE	
N63007	NUCLEAR WEAPONS TRAINING GROUP, ATLANTIC	NORFOLK	VA	
N63015	NAVAL EDUCATION & TRAINING SUPPORT CTR, LANT	SAN DIEGO	CA	
N63021	NAVAL AMPHIBIOUS SCHOOL LITTLE CREEK	NORFOLK	VA	

N63023	BOARD OF INSPECTION AND SURVEY	WASHINGTON	DC	
N63028	POLARIS MISSILE FACILITY	CHARLESTON	SC	
N63032	NAVAL STATION	KEFLAVIK	ICELAND	
N63038	NAVAL COMPUTER AND TELECOMMUNICATIONS STATION	CUTLER EAST MACHIAS	ME	
N63042	NAVAL AIR STATION	LEMOORE	CA	
N63043	CO NAVAL AIR STATION	MERIDIAN	MS	
N63055	NAVAL INVESTIGATIVE SERVICE REGIONAL OFFICE	VIRGINIA BEACH	VA	
N63061	NAVAL ATLANTIC METEROOLOGY AND OCEANOGRAPHY CNTR	NORFOLK	VA	
N63063	ARMED FORCES EXPERIMENTAL ACT.	WILLIAMSBURG	VA	
N63093	CO NAVAL AIR TECHNICAL TRAINING CENTER	MILLINGTON	TN	
N63094	NAVAL AIR TECHNICAL TRAINING CENTER	LAKEHURST	NJ	
N63099	NAVAL AIR RESERVE UNIT	JACKSONVILLE	FL	
N63102	CARRIER AIRBORNE EARLY WARNING SQ. 78	NORFOLK	VA	
N63102	NAVAL AIR RESERVE UNIT, NAS	NORFOLK	VA	
N63110	CHIEF OF NAVAL AIR TRAINING & RESERVE	CORPUS CHRISTI	TX	
N63117	NAVY ENVIRONMENTAL & PREVENTATIVE MEDICINE	NORFOLK	VA	
N63124	SUPERVISOR SHIPBUILDING, CONVERSION & REPR NEW ORL	NEW ORLEANS	LA	
N63126	PACIFIC MISSILE TEST CENTER	POINT MUGU	CA	
N63135	NAVY PUBLISHING & PRINTING SERVICE	WASHINGTON	DC	
N63184	SOCLANT	NORFOLK	VA	
N63239	HARVEY POINT DEFENSE TEST. ACTIVITY	HERTFORD	NC	
N63248	OICC TRIDENT	ST MARY'S	GA	
N63273	FLEET COMBAT DIR. SYS. SUPP. ACT.	VIRGINIA BEACH	VA	
N63274	NAVAL ELECTRONIC SYSTEMS ENGINEERING CENTER	VALLEJO	CA	
N63285	NAVAL INVESTIGATIVE SERVICE HDQTRS	WASHINGTON	DC	
N63291	CO NROTCU UNIT	ITHACA	NY	
N63308	NJROTC UNIT UNIVERSITY OF NORTH CAROLINA	CHAPEL HILL	NC	
N63311	NROTC UNIT	PHILADELPHIA	PA	

N63317	NROTC MAURY HALL	CHARLOTTESVILLE	VA	
N63325	NAVAL EDUCATION & TRAINING SUPPORT CTR, LANT	NORFOLK	VA	
N63367	NAVY RESALE SYSTEM FIELD SUPPORT OFFICE	NORFOLK	VA	
N63376	FLEET HOME TOWN NEWS CENTER	NORFOLK	VA	
N63387	NAVY PUBLIC WORKS CENTER	SAN DIEGO	CA	
N63393	NAVAL SAFETY CENTER	NORFOLK	VA	
N63394	NAVAL SHIP WEAPON SYSTEM ENGINEERING STATION	PORT HUENEME	CA	
N63395	NAVAL COMMUNICATION STATION THURSO, SCOTLAND	NEW YORK	NY	
N63401	FLEET ASW TRAINING CENTER, ATLANTIC	NORFOLK	VA	
N63408	NAVY MATERIAL TRANSPORTATION OFFICE	NORFOLK	VA	
N63410	NAVY MANPOWER ENGINEERING CENTER	NORFOLK	VA	
N63420	NAVAL INTELLIGENCE SUPPORT CENTER	WASHINGTON	DC	
N63438	NAVY & MARINE CORPS RESERVE CENTER	NORFOLK	VA	
N63439	CO NAVAL OPHTHLAMIC SUPPORT & TRAINING CENTER	YORKTOWN	VA	
N63565	OFFICE OF LEGISLATIVE AFFAIRS	WASHINGTON	DC	
N63891	NAVAL SECURITY GROUP ACTIVITY	CHESAPEAKE	VA	
N63891	NAVY REGIONAL FINANCE CENTER	WASHINGTON	DC	
N63902	ATLANTIC FLEET HEADQUARTERS SUPPORT ACTIVITY	NORFOLK	VA	
N63902	NAVAL SECURITY GROUP DETACHMENT	NORFOLK	VA	
N64223	CONSOLIDATED CIVILIAN PERSONNEL CMCNCR	BETHESDA	MD	
N64281	NAVAL UNDERSEA WARFARE CENTER	SUFFOLK	VA	
N64356	NAVAL ADMINISTRATIVE COMMAND	NORFOLK	VA	
N64619	NAVY GUIDED MISSILE SCHOOL	VIRGINIA BEACH	VA	
N65113	NAVY PUBLIC WORKS CENTER	GREAT LAKES	IL	
N65114	CONSOLIDATED CIVILIAN PERSONNEL OFFICE	PENSACOLA	FL	
N65114	NAVY PUBLIC WORKS CENTER	PENSACOLA	FL	
N65115	NAVY PUBLIC WORKS CENTER, YOKASUKA, JAPAN	FPO	AP	
N65126	NAVAL MEDICAL DATA SERVICE CENTER	BETHESDA	MD	

N65146	CHIEF OF NAVAL OPERATIONS	WASHINGTON	DC	
N65236	NAVAL ELECTRONICS SYSTEMS ENGINEERING CENTER	NORTH CHARLESTON	SC	
N65428	CO US NAVAL HOSPITAL ROOSEVELT ROADS, PR	FPO	AA	
N65538	CO NAVAL SEA LOGISTICS CENTER	MECHANICSBURG	PA	
N65540	NAVAL SHIP SYS. ENGINEERING STATION	PHILADELPHIA	PA	
N65580	NAVAL ELECTRONIC SYSTEMS ENGINEERING CENTER	PORTSMOUTH	VA	
N65582	NAVAL ELECTRONIC SYSTEMS ENGINEERING CENTER	GREAT LAKES	IL	
N65584	NAVAL ELECTRONIC SYSTEMS ENGINEERING CENTER	SAN DIEGO	CA	
N65792	ATLANTIC COMMAND ELECTRONIC INTELLIGENCE CENTER	NORFOLK	VA	
N65792	US ATLANTIC COMMAND	NORFOLK	VA	
N65876	OIC NAVLANTMETOCFAC	VIRGINIA BEACH	VA	
N65885	NAVAL AIR REWORK FACILITY, PROD. ENG. DEPT.	ALADEMA	CA	
N65886	NAVAL AIR REWORK FACILITY	JACKSONVILLE	FL	
N65887	NAVAL AVIATION DEPOT	NORFOLK	VA	
N65888	NAVAL AIR REWORK FACILITY	SAN DIEGO	CA	
N65912	NAVAL SEA SUPPORT CENTER	PORTSMOUTH	VA	
N65916	NAVY INTERNATIONAL LOGISTICS CONTROL OFFICE	BAYONNE	NJ	
N65923	NAVAL AVIATION DEPOT	CHERRY POINT	NC	
N65928	NAVAL TRAINING CENTER	ORLANDO	FL	
N65966	FITTING OUT SUPPLY SUPPORT ASSISTANCE CTR.	NORFOLK	VA	
N65979	NAVAL ELECTRONIC SYSTEMS ENGINEERING CENTER	WASHINGTON	DC	
N65980	NAVELEX	ST INIGOES	MD	
N65991	CO NAVAL SECURITY GROUP ACTIVITY	NEW LONDON	CT	
N65995	U.S. NAVAL SUPPORT ACTIVITY	FPO SCOTLAND	AE	
N66001	NAVAL OCEAN SYSTEMS CENTER	SAN DIEGO	CA	
N66045	MANTRAGRU DETS OCEANA	VIRGINIA BEACH	VA	
N66046	NAVAL AIR MAINT. TRAINING GROUP ACT.	NORFOLK	VA	
N66094	CO NAVAL HOSPITAL	CHERRY POINT	NC	
N66096	CO NAVAL HOSPITAL	NAPLES	IT	

N66098	CO NAVAL HOSPITAL	PATUXENT RIVER	MD	
N66101	US NAVAL HOSPITAL, ROTA,SPAIN	FPO	AE	
N66598	TASK GROUP 168.2	NORFOLK	VA	
N66604	NAVAL UNDERWATER SYSTEMS CENTER	NEW LONDON	CT	
N66604	NAVAL UNDERWATER SYSTEMS CENTER	NEWPORT	RI	
N66691	U.S. NAVAL SUPPORT ACTIVITY CRETE	FPO	AE	
N66715	NAVY RECRUITING COMMAND	ARLINGTON	VA	
N66833	CO NAVAL STATION 1	FPO	AA	
N66842	FLEET OCEAN SURVEILLANCE INFORMATION FACILITY	FPO	AE	
N66846	NAVAL RESEARCH LABORATORY	PORT HUENEME	CA	
N66897	NAVY ENVIRONMENTAL HEALTH CENTER	CINCINNATI	OH	
N66953	DEFENSE PRINTING SERVICE DETACHMENT OFFICE	NORFOLK	VA	
N67004	MARINE CORPS LOGISTICS BASE	ALBANY	GA	
N67399	MARINE CORPS AIR GROUND COMBAT CENTER	TWENTYNINE PALMS	CA	
N67558	ALCOHOL REHAB. CENTER	NORFOLK	VA	
N68042	NAVY INTERNAL RELATIONS ACTIVITY	ALEXANDRIA	VA	
N68045	COORDINATION TRAINING MIDSHIPMEN AVIATION EAST	NORFOLK	VA	
N68045	NAVAL EDUCATION & TRAINING CENTER (NJROTC)	PENSACOLA	FL	
N68057	NAVY REGIONAL DATA AUTOMATION CENTER	NORFOLK	VA	
N68086	CO NAVAL HOSPITAL	NEWPORT	RI	
N68093	CO NAVAL HOSPITAL	CAMP LEJEUNE	NC	
N68142	NAVY REGIONAL DATA AUTOMATION CENTER	PENSACOLA	FL	
N68166	NAVAL TECHNICAL INTELLIGENCE CTR	WASHINGTON	DC	
N68305	NAVAL CIVIL ENGINEERING LAB.	PORT HUENEME	CA	
N68306	NAVAL RESERVE READINESS COMMAND	WASHINGTON	DC	
N68316	NAVAL SUBMARINE SUPPORT FACILITY	GROTON	CT	
N68322	CONSOLIDATED CIVILIAN PERSONNEL OFFICER	PENSACOLA	FL	

N68329	NAVAL RESERVE READINESS COMMAND	RAVENNA	OH	
N68331	NAVAL RESERVE READINESS COMMAND	PHILADELPHIA	PA	
N68335	NAVAL AIR ENGINEERING CENTER	LAKEHURST	NJ	
N68353	HEADQUARTERS MARINE CORPS, HH	ARLINGTON	VA	
N68356	NAVAL RESERVE READINESS COMMAND	CHARLESTON	SC	
N68357	NAVAL RESERVE READINESS COMMAND	SCOTIA	NY	
N68358	NAVAL RESERVE READINESS COMMAND	JACKSONVILLE	FL	
N68359	NAVAL RESERVE READINESS COMMAND	DALLAS	TX	
N68363	NAVAL LEGAL SERVICE OFFICE	NORFOLK	VA	
N68378	NAVY PUBLIC WORKS CENTER	OAKLAND	CA	
N68406	NAVY PUBLIC AFFAIRS CENTER	NORFOLK	VA	
N68436	NAVAL SUBMARINE BASE, BANGOR	BREMERTON	WA	
N68474	NAVAL SEA SYSTEMS COMMAND	PHILADELPHIA	PA	
N68481	NAVY BROADCASTING SVC.	WASHINGTON	DC	
N68510	WASHINGTON NAVAL YARD	WASHINGTON	DC	
N68519	NAVAL DATA AUTOMATION COMMAND	WASHINGTON	DC	
N68520	NAVAL AVIATION DEPOT OPERATIONS CENTER	PATUXENT RIVER	MD	
N68546	NAVY ENVIRONMENTAL HEALTH CENTER	NORFOLK	VA	
N68547	PERSONNEL SUPPORT ACTIVITY	NORFOLK	VA	
N68558	NAVAL ELECTRONICS SYSTEMS COMMAND DET.	PATUXENT RIVER	MD	
N68561	NAVY MGMT SYSTEMS SUPPORT OFFICE	NORFOLK	VA	
N68588	US NAVAL SUPPORT ACTIVITY	FPO	AE	
N68626	NAVAL AVIATION MAINT. OFFICE	PATUXENT RIVER	MD	
N68699	NROTC UNIT, HAMPTON ROADS	NORFOLK	VA	
N68722	NAVAL MEDICAL CLINIC	NORFOLK	VA	
N68724	AEGIS TRAINING CENTER	DAHLGREN	VA	
N68733	CO STRATEGIC WEAPONS FACILITY ATLANTIC	KINGS BAY	GA	
N68842	NAVY SUBMARINE TORPEDO FACILITY	YORKTOWN	VA	
N68845	CONSOLIDATED CIVILIAN PERSONNEL OFFICE	NORFOLK	VA	

N68851	NAVY DRUG SCREENING LABORATORY	NORFOLK	VA	
N68869	CO NAVAL SPECIAL WARFARE CENTER	SAN DEIGO	CA	
N68870	NAVAL EDUCATION & TRAINING SECURITY ASSISTANCE	PENSACOLA	FL	
N68873	NAVAL CIVILIAN PERSONNEL COMM.	ARLINGTON	VA	
N68908	OIC NAVAL HEALTH CARE SUPPORT OFF	NORFOLK	VA	
N68925	NAVY PUBLIC WORKS CENTER	WASHINGTON	DC	
N68931	NAVY PUBLIC WORKS CENTER	JACKSONVILLE	FL	
N68944	CO NCCOSC ISE WC DIV	VALLEJO	CA	
N68948	COMMANDER NAVAL DOCTRINE CMD	NORFOLK	VA	
N70092	NAVAL SECURITY STATION	WASHINGTON	DC	
N70272	NAVAL COMMUNICATION AREA MASTER STATION, ATLANTIC	NORFOLK	VA	
N70295	NAVAL COMMUNICATION STATION ROTA, SPAIN	FPO	AE	
N80002	MOBILE INSHORE UNDERSEA WARFARE UNIT 206	NEW ORLEANS	LA	
N80010	MOBILE INSHORE UNDERSEA WARFARE UNIT 211	CHARLOTTE	NC	
N81464	NAVIUWGRU TWO	WILLIAMSBURG	VA	
N81990	MOBILE INSHORE UNDERSEA WARFARE UNIT 209	MOBILE	AL	
N81991	MOBILE INSHORE UNDERSEA WARFARE UNIT 206	NEW ORLEANS	LA	
N81994	MOBILE INSHORE UNDERSEA WARFARE UNIT 204	LAKEHURST	NJ	
N87237	COM TWO ZERO RNCR	GUFLPORT	MS	
N91732	CO NAVAL SAFETY SUPPLY SCHOOL	NORFOLK	VA	
N91CS8	AFDW AFO/ARMCSC BOLLING AFB	WASHINGTON	DC	
R01936	USS POINT LOMA (AGDS-3)	FPO	AP	
R03363	USS KITTY HAWK (CV-63)	FPO	AE	
R03364	USS CONSTELLATION (CV-64)	FPO	AP	
R03368	USS NIMITZ (CVN-68)	FPO	AE	
R08861	HARPERS FERRY MRP	HARPERS FERRY	WV	
R09164	HELANTISUBRON	FPO	AP	
R09458	CARRIER AIRBORNE EARLY WARNING TRAINING SQUAD. 112	SAN FRANCISCO	CA	
R09579	COMMATVAQWINGPAC	OAK HARBOR	WA	
R09607	VRC-30 NAS NORTH ISLAND	SAN DIEGO	CA	

R20887	USS SAN FRANCISCO (SSN-711)	NORFOLK	VA	
R21043	USS NEVADA (SSBN-733)	NEWPORT NEWS	VA	
R21100	USS CHICAGO (SSN-721)	FPO	AE	
R21313	USS JOHN PAUL JONES (DDG-53)	FPO	AP	
R21466	USS ASHEVILLE (SSN-758)	FPO	AE	
R21605	USS JEFFERSON CITY (SSN-759)	FPO	AE	
R21623	USS COWPENS	FPO	AP	
R21657	USS SHILOW (CG-67)	FPO	AP	
R21827	USS LAKE ERIE (CG-70)	FPO	AP	
R48069	FASOTRAGRUPAC DET	NORFOLK	VA	
R53824	COMNAVSURFPAC	SAN DIEGO	CA	
R53919	HSL-49 NAS NORTH ISLAND	SAN DIEGO	CA	
R55201	MM-15 MCM	NORFOLK	VA	
R55281	NAVAL CONSTRUCTION BATTALION CTR.	PORT HUENEME	CA	
R55443	TRIESTE II DSV-1	FPO	AP	
R55447	EOD - MOBILE UNITS	SAN DIEGO	CA	
R55522	SUBMARINE DEVELOPMENT GROUP 1	SAN DIEGO	CA	
R55602	COMMANDER STRATEGIC COMMNICATIONS	TINKER AFB	OK	
R55752	NAVAL CONSTRUCTION REGIMENT 31	PORT HUENEME	CA	
R65185	CO STRIKE FIGHTER SQUADRON 27	FPO	AP	
RP0007	COMMANDER NAVAL SURFACE FORCE	SAN DIEGO	CA	
S03603	DEFENSE PERSONNEL SUPPORT CENTER	PHILADELPHIA	PA	
S0F739	160TH SOAR (A) ATTN: AOAV-BO	FT CAMPBELL	KY	
S20114	DEFENSE REUTILIZATION & MARKETING SERV FED CTR	BATTLE CREEK	MI	
S22185	RESOURCE SERVICES-WASHINGTON	WASHINGTON	DC	
S23185	NATIONAL COMM EMPLOYER SUPPT GUARD & RESERVE	ARLINGTON	VA	
S28043	US ARMY INFORMATION SYSTEM MANAGEMENT ACTIVITY	FORT MONMOUTH	NJ	
S28113	MILITARY AIR TRAFFIC COORDINATING UNIT	NORFOLK	VA	
S31001	FT BRAGG	FORT BRAGG	NC	
S33181	DEFENSE DISTRIBUTION REGION EAST	NEW CUMBERLAND	PA	
S33181	DEFENSE LOGISTICS AGENCY	ALEXANDRIA	VA	
S33181	DFAS-CL	CLEVELAND	OH	

S41014	COMMANDER 11TH ADADBE	FORT BLISSE	TX	
S44019	COMMANDANT USAESOM NAB LITTLE CREEK	NORFOLK	VA	
S44019	COMMANDER USATCFE	FORT EUSTIS	VA	
S44019	DIRECTORATE OF RESOURCE MANAGEMENT	FORT MONROE	VA	
S44019	TRANS CENTER	FORT EUSTIS	VA	
S44019	USATCFE (010)	FORT EUSTIS	VA	
S44203	DEFENSE FUEL SUPPLY CENTER	ALEXANDRIA	VA	
S49092	NATIONAL DEFENSE UNIVERSITY	WASHINGTON	DC	
S49447	OFFICE OF THE ASST. INSPECTOR GENERAL FOR AUDITING	NEWPORT NEWS	VA	
S49451	DEPT OF DEFENSE DEPENDENTS SCHOOLS	ALEXANDRIA	VA	
S91372	SUPERINTENDENT ISLAND DISTRICT	FPO	AE	
SX1282	PRECIOUS METALS RECOVERY OFFICE	COLTS NECK	NJ	
V00060	CIC US ATLANTIC FLEET	NORFOLK	VA	
V00060	NAVAL AIR FORCE, ATLANTIC	NORFOLK	VA	
V00060	US ATLANTIC FLEET (AABE, BEAA)	NORFOLK	VA	
V00129	NAVAL SUBMARINE BASE, NEW LONDON	GROTON	CT	
V00221	MARE ISLAND NAVAL SHIPYARD	VALLEJO	CA	
V0022A	FLEET TRNG UNIT ATL	NORFOLK	VA	
V0031A	COMMANDER NAVAL SPECIAL WARFARE GROUP 2	NORFOLK	VA	
V0033A	MOTU 2	NORFOLK	VA	
V0067A	U.S. ATLANTIC FLEET SOAP TEAM (ILO TEAM)	PORTSMOUTH	VA	
V0107A	COMCRUDESGRU 8	FPO	AE	
V0111A	COMMANDER DESTROYER SQDN 2	NORFOLK	VA	
V0119A	COMMANDER DESTROYER SQDN 10	NORFOLK	VA	
V0131A	COMMANDER DESTROYER SQDN 22	FPO	AE	
V0133A	COMMANDER DESTROYER SQDN 24	FPO	AA	
V0135A	COMMANDER DESTROYER SQDN 26	FPO	AE	
V0137A	COMMANDER DESTROYER SQDN 32	FPO	AE	
V0215A	COMLOGRON2	LEONARDO	NJ	
V0245A	AMPHIBIOUS SQUADRON 10 NAB LITTLE CREEK	NORFOLK	VA	

V0246A	COMPHIBRON 12 NAVAL STATION NORFOLK	NORFOLK	VA	
V02508	USS PRESERVER (ARS-8)	FPO	AE	
V02535	USS HOIST (ARS-40)	FPO	AE	
V02536	USS OPPORTUNE (ARS-41)	FPO	AE	
V02538	USS RECOVERY (ARS-43)	FPO	AE	
V03061	USS IOWA (BB-61)	FPO	AE	
V03064	USS WISCONSIN (BB-64)	000	AE	
V03129	USS PLYMOUTH ROCK	FPO	AE	
V03130	USS FORT SNELLING (LSD-30)	FPO	AE	
V03132	USS SPIEGEL GROVE (LSD-32)	FPO	AE	
V03134	USS HERMITAGE (LSD-34)	FPO	AE	
V03318	USS LEXINGTON (AVT-16)	PENSACOLA	FL	
V03343	USS CORAL SEA	FPO	AE	
V03359	USS FORRESTAL (CV-59)	FPO	AA	
V03360	USS SARATOGA (CV-60)	FPO	AE	
V03362	USS INDEPENDENCE (CV-62)	FPO	AE	
V03365	USS ENTERPRISE CVN65	FPO	AP	
V03366	USS AMERICA (CV-66)	FPO	AE	
V03367	USS JOHN F. KENNEDY (CV-67)	FPO	AE	
V03369	USS DWIGHT D. EISENHOWER (CVN-69)	FPO	AE	
V0339A	CO OCEANOGRAPHIC UNIT THREE	FPO	AP	
V0379A	TACTICAL AIR CONTROL GROUP TWO NAB LITTLE CREEK	NORFOLK	VA	
V03863	USS WILLIAM C. LAWE (DD-763)	FPO		
V04619	USS FULTON (AS-11)	FPO		
V04628	USS ORION (AS-18)	FPO	AE	
V04638	USS SIERRA (AD-18)	FPO	AA	
V04639	USS YOSEMITE (AD-19)	FPO	AA	
V04662	USS EDSON (DD-946)	FPO	AE	
V04668	USS CHARLES F. ADAMS DDG-2	MIAMI	FL	
V04669	USS JOHN KING (DDG-3)	FPO	AE	
V04670	USS LAWRENCE (DDG-4)	FPO	AE	
V04671	USS CLAUDE V. RICKETTS (DDG-5)	FPO	AE	
V04672	USS BARNEY (DDG-6)	FPO	AE	
V04676	USS SAMPSON (DDG-10)	FPO	AA	

V04683	USS CONYNGHAM (DDG-17)	FPO	AE	
V04684	USS SEMMES	FPO	AA	
V04685	USS TATTNALL (DOG-19)	FPO		
V04689	USS HUNLEY (AS-31)	FPO	AE	
V04690	USS RICHARD E. BYRD (DDG-23)	FPO	AE	
V04695	USS TALBOT (FFG-4)	FPO		
V04696	USS HOLLAND	FPO	AA	
V04697	USS SIMON LAKE (AS-33)	FPO	AE	
V04698	USS RICHARD L. PAGE (FFG-5)	FPO	AE	
V04699	USS JULIUS A. FURER (FFG-6)	FPO		
V04712	USS KITTIWAKE (ASR-13)	FPO	AE	
V04714	USS SUNBIRD (ASR-15)	FPO	AE	
V04720	USS CANOPUS (AS-34)	FPO	AA	
V04756	USS NOXUBEE (AOG-56)	FPO		
V04848	USS CALOOSAHATCHIE (AO-98)	FPO	AE	
V04849	USS CANISTEO (AO-99)	FPO	AE	
V05051	USS SCAMP (SSN-588)	FPO		
V05053	USS SCULPIN	FPO	AE	
V05075	USS NATHAN HALE (SSBN-623)	FPO	AA	
V05076	USS WOODROW WILSON (SSBN-624)	FPO		
V05077	USS HENRY CLAY	FPO	AA	
V05113	USS JACK (SSN-605)	FPO	AE	
V05119	USS JOHN MARSHALL (SSN-611)	FPO	AE	
V05123	USS LAFAYETTE (SSBN-616)	FPO	AE	
V05124	USS ALEXANDER HAMILTON (SSBN-617)	FPO	AE	
V05126	USS GATO (SSN-615)	FPO	AE	
V05130	USS STURGEON (SSN-637)	APO	AA	
V05131	USS WHALE (SN-638)	FPO	AE	
V05136	USS SUNFISH (SSN-649)	FPO	AA	
V05142	USS LAPON (SSN-661)	FPO	AE	
V05144	USS HAMMERHEAD (SSN-663)	FPO	AE	
V05145	USS SEA DEVIL (SSN-664)	FPO	AE	
V05149	USS BERGALL (SSN-667)	FPO	AE	
V05150	USS SPADEFISH (SSN-668)	FPO	AE	
V05151	USS SEAHORSE (SSN-669)	FPO	AE	

V05152	USS FINBACK (SSN-670)	FPO	AE	
V05154	USS FLYING FISH (SSN-673)	FPO	AE	
V05369	OAKRIDGE ARDM-1 NAVAL SUBMARINE BASE	KINGS BAY	GA	
V05605	USS BONEFISH (SS-582)	CHARLESTON	SC	
V05606	USS SKIPJACK (SSN-585)	FPO	AE	
V05701	USS JAMES MADISON (SSBN-627)	FPO	AA	
V05702	USS TECUMSEH (SSBN-628)	NEWPORT NEWS	VA	
V05703	USS DANIEL BOONE (SSBN-629)	FPO	AA	
V05706	USS VON STEUBEN (SSBN-632)	FPO	AA	
V05707	USS CASIMIR PULASKI (SSBN-633)	FPO	AE	
V05708	USS STONEWALL JACKSON (SSBN-634)	FPO		
V05710	USS NATHANIEL GREENE (SSBN-636)	FPO	AE	
V05711	USS BENJAMIN FRANKLIN (SSBN-640)	FPO	AE	
V05713	USS KAMMEHAMEHA (SSBN 642)	FPO	AE	
V05714	USS GEORGE BANCROFT SSBN-643 (BLUE)	FPO	AA	
V05716	USS JAMES K POLK	FPO	AE	
V05720	USS FRANCIS SCOTT KEY (SSBN-657)	FPO		
V05722	USS WILL ROGERS (SSBN-659)	FPO	AE	
V05723	USS BLUEFISH (SSN-675)	FPO	AE	
V05836	USS CONCORD (AFS-5)	FPO	AE	
V05837	USS PUGET SOUND (AD-38)	FPO	AE	
V05839	USS BUTTE (AE-27)	FPO	AE	
V05844	USS CHARLESTON (LKA-113)	FPO	AE	
V05848	USS SEATTLE (AOE-3)	FPO	AE	
V05850	USS MILWAUKEE (AOR-2)	FPO	AE	
V05851	USS L.Y. SPEAR (AS-36)	FPO	AE	
V05904	USS MISSISSINEWA (AO-144)	FPO		
V07159	USS PAIUTE (ATF-159)	FPO	AE	
V07160	USS PAPAGO (ATF-160)	FPO	AE	
V07170	USS RALEIGH (LPD-1)	FPO	AE	
V07172	USS LASALLE (AFG-3)	FPO	AE	
V07175	USS AUSTIN (LPD-4)	FPO	AE	
V07178	USS GUAM (LPH-9)	FPO	AE	

V07194	USS CORONADO (LPD-11)	FPO	AE	
V07195	USS SHREVEPORT (LPD-12)	FPO	AE	
V07196	USS NASHVILLE (LPD-13)	FPO	AE	
V07200	USS TRENTON (LPD-14)	FPO	AE	
V07201	USS PONCE (LPD-15)	FPO	AE	
V07350	USS IWO JIMA (LPH-2)	FPO	AE	
V07352	USS GUADALCANAL (LPH-7)	FPO	AE	
V07963	USS EMGAGE	FPO	AA	
V07970	USS EXPLOIT (MSO-440)	FPO	AE	
V07973	USS FIDELITY (MSO-443)	FPO		
V07976	USS FORTIFY (MSO-446)	FPO	AE	
V07979	USS IMPERUIOUS	FPO	AA	
V07986	USS INFLICT (MSO-456)	FPO	AE	
V08157	USS ADROIT MSO-509	FPO	AE	
V08159	USS AFFRAY MSO-511	FPO	AE	
V08391	USS NITRO (AE-23)	FPO	AE	
V08808	USS VULCAN (AR-5)	FPO	AE	
V08821	USS SURIBACHI (AE-21)	FPO	AE	
V08842	SDV TEAM 2 NAB LITTLE CREEK	NORFOLK	VA	
V08943	SEAL TEAM 4 NAB LITTLE CREEK	NORFOLK	VA	
V08961	COMMANDER SECOND FLEET	FPO	AE	
V09052	CARRIER AIRBORNE EARLY WARNING WING 12 (VAW-120)	NORFOLK	VA	
V09062	ATTACK SQUADRON 42 NAS OCEANA	VIRGINIA BEACH	VA	
V09070	ATKRON 34	FPO	AE	
V09114	MARINE AVIATION LOGISTIC SQUADRON	CHERRY POINT	NC	
V09122	STRKFITRON EIGHT TWO DET ALFA	FPO	AA	
V09134	HSL-32 NAS	NORFOLK	VA	
V09201	FLEET TACTICAL SUPPORT SQUADRON 1 NAS	NORFOLK	VA	
V09206	HELICOPTER MINECOUNTERMEASURES SQ. 12 NAS	NORFOLK	VA	
V09212	HELICOPTER COMBAT SUPPORT SQUADRON 2	NORFOLK	VA	
V09216	FIGHTER WING ONE NAS OCEANA	VIRGINIA BEACH	VA	
V09224	FITRON EIGHTY FOUR NAS OCEANA	VIRGINIA BEACH	VA	
V09303	FLEET LOGISTICS SUPPORT SQUADRON 40 (VRC-40) NAS	NORFOLK	VA	

V09384	MAG 31 MCAS	BEAUFORT	SC	
V09467	VAW-121	FPO	AE	
V09506	MARINE AIRCRAFT GROUP 26 MCAS NEW RIVER	JACKSONVILLE	FL	
V09527	RVAW-120 NAS	NORFOLK	VA	
V09576	COMMANDER CARRIER GROUP 2	FPO	AE	
V09577	COMMANDER CARRIER GROUP 4	FPO	AE	
V09602	PATRON TWO FOUR	FPO	AA	
V09629	VS 24 NAS	CECIL FIELD	FL	
V09736	CARRIER AIR WING 7 NAS OCEANA	VIRGINIA BEACH	VA	
V09774	CO NAVAL AIR STATION OCEANA	VIRGINIA BEACH	VA	
V09806	VC-6 NAS	NORFOLK	VA	
V09810	FASOTRAGRULANT NAS	NORFOLK	VA	
V09946	FAIRECONRON TWO	FPO	AE	
V09988	HELANTISUBRON SEVEN	JACKSONVILLE	FL	
V09997	7EMW/ACF	CARSWELL AFB	TX	
V13863	AFDM-7 SUSTAIN	NORFOLK	VA	
V13867	AFDM-10 RESOLUTE	NORFOLK	VA	
V14806	DYNAMIC AFDL-6	NORFOLK	VA	
V17658	OIC SMMS TMT	FPO	AE	
V17700	USS GLOVER (FF-1098)	FPO	AE	
V20001	USS MOUNT WHITNEY (LCC-20)	FPO	AE	
V20004	USS EL PASO (LKA-117)	FPO	AE	
V20009	USS INCHON (LPH-12)	FPO	AE	
V20012	USS PORTLAND (LSP-37)	FPO	AE	
V20013	USS PENSACOLA (LSD-381)	FPO	AE	
V20019	USS MANITOWOC (LST-1180)	FPO	AE	
V20020	USS SUMTER (LST-1181)	FPO	AE	
V20027	USS SAGINAW (LST-1188)	FPO	AE	
V20029	USS BOULDER (LST-1190)	FPO	AE	
V20031	USS SPARTANBURG COUNTY (LST-1192)	FPO	AE	
V20032	USS FAIRFAX COUNTY (LST-1193)	FPO	AE	
V20033	USS LAMOURE COUNTY (LST-1194)	FPO	AE	
V20041	USS ARCHERFISH (SSN-678)	FPO		
V20042	USS SILVERSIDES (SSN-679)	FPO	AE	
V20044	USS BATFISH (SSN-681)	FPO	AA	

V20049	USS JOSEPH HEWES FFT-1078	FPO	AA	
V20050	USS BOWEN (FF-1079)	FPO	AE	
V20051	USS PAUL (FF-1080)	FPO	AA	
V20052	USS AYLWYN (FF-1081)	FPO	AA	
V20053	USS ELMER MONTGOMERY (FF-1082)	FPO	AA	
V20055	USS McCANDLESS (FF-1084)	FPO	AE	
V20056	USS DONALD B. BEARY (FF-1085)	FPO	AE	
V20067	USS JESSE L. BROWN (FF-1089)	FPO	AA	
V20068	USS AINSWORTH FF-1090	FPO	AE	
V20069	USS MILLER (FF-1091)	FPO	AE	
V20070	USS THOMAS C. HART (FF-1092)	FPO	AE	
V20071	USS CAPODANNO (FF-1093)	FPO	AE	
V20072	USS PHARRIS	FPO	AE	
V20073	USS TRUETT (FF-1095)	FPO	AE	
V20074	USS VALDEZ (FF-1096)	FPO	AA	
V20075	USS MOINESTER (FF-1097)	FPO	AE	
V20111	USS SANTA BARBARA (AE-28)	FPO	AA	
V20115	USS MOUNT BAKER (AE-34)	FPO	AA	
V20116	USS SAN DIEGO (AFS-6)	FPO	AE	
V20120	USS DETROIT (AOE-4)	FPO	AE	
V20123	USS SAVANNAH (AOR-4)	FPO	AE	
V20125	USS KALAMAZOO (AOR-6)	FPO	AE	
V20144	USS ORTOLAN (ASR-22)	FPO		
V20151	USS EDENTON (ATS-1)	FPO	AE	
V20165	NAVAL SUB. BASE, NEW LONDON	GROTON	CT	
V20203	USS BATON ROUGE (SSN-689)	FPO	AE	
V20204	USS PHILADELPHIA (SSN-690)	FPO		
V20222	USS HARLAN COUNTY (LST-1196)	FPO	AE	
V20223	USS BARNSTABLE COUNTY (LST-1197)	FPO	AE	
V20347	USS GLENARD P. LIPSCOMB (SSN-685)	FPO	AE	
V20574	USS SPRUANCE (DD-963)	FPO	AE	
V20588	USS ARTHUR W. RADFORD (DD-968)	FPO	AE	
V20589	USS PETERSON	FPO	AE	
V20590	USS CARON (DD-970)	FPO	AE	
V20600	USS COMTE DE GRASSE (DD-974)	FPO	AE	

V20603	USS BRISCOE (DD-977)	FPO	AE	
V20604	USS STUMP (DD-978)	FPO	AE	
V20611	USS CONOLLY (DD-979)	FPO	AE	
V20612	USS MOOSBRUGGER (DD-980)	FPO	AA	
V20613	USS JOHN HANCOCK	FPO	AA	
V20614	USS NICHOLSON (DD-982)	FPO	AA	
V20615	USS JOHN RODGERS (DD-983)	FPO	AA	
V20624	USS MISSISSIPPI (CGN-40)	FPO	AE	
V20632	USS SAIPAN (LHA-2)	FPO	AE	
V20635	USS EMORY S. LAND (AS-39)	FPO	AE	
V20642	USS R.B. RUSSELL (SSN-687)	FPO		
V20669	USS SOUTH CAROLINA (CGN-37)	FPO	AE	
V20681	USS VIRGINIA (CGN-38)	FPO	AE	
V20682	USS TEXAS (CGN-39)	FPO	AE	
V20725	USS NASSAU (LHA-4)	FPO	AE	
V20782	USS MEMPHIS (SSN-691)	FPO	AE	
V20784	USS CINCINNATI (SSN-693)	FPO	AE	
V20785	USS GROTON (SSN-694)	FPO		
V20786	USS BIRMINGHAM (SSN-695)	FPO	AE	
V20807	USS ARKANSAS (CGN-41)	FPO	AE	
V20811	USS DALLAS (SSN 700)	FPO	AE	
V20825	USS JACKSONVILLE (SSN-699)	FPO	AE	
V20827	USS PHOENIX (SSN-702)	FPO	AE	
V20830	USS BOSTON (SSN-703)	FPO	AE	
V20831	USS BALTIMORE (SSN-704)	FPO	AE	
V20832	USS CITY OF CORPUS CHRISTI (SSN-705)	FPO	AE	
V20834	USS OBANNON (DD-987)	FPO	AA	
V20835	USS THORN	FPO	AA	
V20836	USS DEYO (DD-989)	FPO	AA	
V20862	USS MONONGAHELA (AO-178)	FPO	AE	
V20884	USS MINNEAPOLIS/ST. PAUL (SSN-708)	FPO	AE	
V20885	USS HYMAN G. RICKOVER (SSN-709)	FPO	AE	
V20888	USS ATLANTA (SSN-712)	FPO	AE	
V20893	USS PEGASUS (PHM-1)	FPO		

V20964	USS CLARK (FFG-11)	FPO	AA	
V20966	USS SAMUEL E. MORISON (FFG-13)	FPO	AA	
V20968	USS ESTOCIN (FFG-15)	MAYPORT	FL	
V20969	USS CLIFTON SPRAGUE	FPO	AE	
V20973	USS ANTRIM (FFG-20)	FPO	AA	
V20974	USS FLATLEY (FFG-21)	FPO	AA	
V20975	USS FAHRION (FFG-22)	FPO	AA	
V20977	USS JACK WILLIAMS (FFG-24)	FPO	AA	
V20979	USS GALLERY (FFG-26)	FPO	AA	
V20995	USS NORFOLK (SSN-714)	FPO	AE	
V20996	USS BUFFALO (SSN-715)	FPO		
V21001	USS ALBUQUERQUE (SSN-706)	FPO	AE	
V21007	USS MERRIMACK (AO-179)	FPO	AE	
V21025	SSN-718 PRECOMUNIT (UN-NAMED) USS HONOLULU	NEWPORT NEWS	VA	
V21028	USS OLIVER HAZARD PERRY (FFG-7)	FPO	AA	
V21030	USS PITTSBURGH (SSN-720)	FPO	AE	
V21032	USS McINERNEY (FFG-8)	FPO	AA	
V21045	USS PENNSYLVANIA (SSBN-735)	FPO	AA	
V21046	USS YELLOWSTONE (AD-41)	FPO	AE	
V21049	USS PLATTE (AO-186)	FPO	AE	
V21053	USS BOONE (FFG-28)	NORFOLK	VA	
V21054	USS STEPHEN W. GROVES (FFG-29)	FPO	AA	
V21056	USS STARK (FFG-31)	FPO	AA	
V21057	USS JOHN L. HALL (FFG-32)	FPO	AA	
V21059	USS AUBREY FITCH (FFG-34)	FPO	AA	
V21098	USS SHENANDOAH (AD-44)	FPO	AE	
V21101	USS KEY WEST (SSN-722)	FPO	AE	
V21102	USS OKLAHOMA CITY (SSN-723)	FPO	AE	
V21103	USS UNDERWOOD (FFG-36)	FPO	AA	
V21106	USS DOYLE (FFG-49)	FPO	AA	
V21107	USS HALYBURTON (FFG-40)	FPO	AA	
V21109	USS KLAKRING (FFG-42)	FPO	AA	
V21138	SHIPPINGPORT (ARDM-4)	GROTON	CT	
V21197	USS DE WERT (FFG-45)	FPO	AA	
V21199	USS NICHOLAS (FFG-47)	FPO	AA	

V21201	USS ROBERT G BRADLEY (FFG-49)	FPO	AA	
V21218	USS WHIDBEY ISLAND (LSD-41)	FPO	AE	
V21219	USNS JOSHUA HUMPHREYS (TAO-188)	FPO	AE	
V21225	USS YORKTOWN (CG-48)	FPO	AE	
V21231	USS TAYLOR (FFG-50)	FPO	AA	
V21233	USS CARR (FFG-52)	FPO	AA	
V21234	USS HAWES (FFG-53)	FPO	AA	
V21236	USS ELROD (FFG-55)	FPO	AA	
V21247	USS THEODORE ROOSEVELT (CVN-71)	FPO	AE	
V21281	USS TICONDEROGA (CG-47)	FPO	AE	
V21297	USS ABRAHAM LINCOLN (CVN-72)	FPO	AE	
V21307	USNS H. J. KAISER	FPO	AE	
V21312	US NUCLEAR REGULATORY COMMISSION, REGION II	ATLANTA	GA	
V21344	USS THOMAS S. GATES (CG-51)	FPO	AE	
V21346	USS MOBILE BAY (CG-53)	FPO	AA	
V21350	USS SIMPSON (FFG-56)	FPO	AE	
V21352	USS SAMUEL B. ROBERTS (FFG-58)	FPO	AE	
V21365	USS WEST VIRGINIA	GROTON	CT	
V21368	USS MIAMI (SSN-755)	FPO	AE	
V21388	USS LEYTE GULF (CG-55)	FPO	AA	
V21389	USS SAN JACINTO (CG-56)	FPO	AE	
V21390	USS KAUFFMAN (FFG-59)	FPO	AE	
V21403	USS DEFENDER	FPO	AE	
V21404	USS SENTRY (MCM 3)	FPO	AA	
V21406	USS GUARDIAN (MCM 5)	FPO	AA	
V21411	USS NEWPORT NEWS (SSN-750)	FPO	AE	
V21412	USS GEORGE WASHINGTON CVN 73	FPO	AE	
V21416	USS HAYLER (DD-997)	FPO	AE	
V21422	USS GUNSTON HALL	FPO	AE	
V21427	USS DEVASTATOR (MCM 6)	FPO	AE	
V21429	USS PHILIPPINE SEA	FPO	AA	
V21436	USS KIDD (DDG-993)	FPO	AE	
V21438	USS SCOTT (DDG-995)	FPO	AE	
V21441	USS GRAPPLE (ARS-53)	FPO	AE	

V21449	USS NORMANDY	FPO	AE	
V21450	USS MONTEREY (CG-61)	FPO	AA	
V21455	USS SCOUT MCM8	FPO		
V21462	USS ALBANY (SSN-753)	FPO	AE	
V21464	USS SCRANTON SSN-756	FPO	AE	
V21467	USS GRASP	FPO	AE	
V21487	USS ARLEIGH BURKE DDG-51	FPO	AE	
V21531	USS ASHLAND	FPO	AE	
V21560	USS WASP (LHD-1)	FPO	AE	
V21562	USS TORTUGA (LSD-46)	FPO	AE	
V21624	USS GETTYSBURY (CG-64)	FPO	AA	
V21656	USS HUE CITY (CG-66)	FPO	AA	
V21658	USS ANZIO (CG-68)	FPO	AE	
V21660	USS BARRY	FPO	AE	
V21684	USS VICKSBURG	FPO	AA	
V21690	USS ANNAPOLIS	FPO	AE	
V21700	USS KEARSARGE	FPO	AE	
V21761	USS BOISE (SSN-764)	FPO	AE	
V21762	USS MONTPELIER (SSN-765)	FPO	AE	
V21764	USS HAMPTON (SSN-767)	FPO	AE	
V21828	USS CAPE ST GEORGE (CG-71)	FPO	AE	
V21829	USS VILLA GOLF (CG-72)	FPO	AE	
V21865	PROSPECTIVE EXECUTIVE OFFICE	NORFOLK	VA	
V21900	USS ARDENT (MCM-12)	FPO	AA	
V21930	USS CYCLONE (PC-1)	NORFOLK	VA	
V21931	USS TEMPEST	FPO	AE	
V30121	UNDERWATER CONSTRUCTION TEAM ONE NAB LITTLE CREED	NORFOLK	VA	
V30724	CO FLEET BALLISTIC MISSLE OPERA TEST SUPPORT (FBM)	FPO	AA	
V32732	SIMA LITTLE CREEK	NORFOLK	VA	
V32770	SIMA - SHORE INTERMED. MAINT. ACT.	NORFOLK	VA	
V33212	SUBMARINE SQUADRON 18	CHARLESTON	SC	
V33248	COMMANDER SUBMARINE FORCE US ATLANTIC FLEET	NORFOLK	VA	
V33341	SIMA PORTSMOUTH	PORTSMOUTH	VA	
V35316	PHMRON 12 MLSG	KEY WEST	FL	

V35322	NAVAL SURFACE FORCE READINESS SUPPORT GROUP ATLANT	NORFOLK	VA	
V35323	DESTROYER SQDN 14	MAYPORT	FL	
V35324	NAVSURFLANT READSUPPGRU	CHARLESTON	SC	
V39282	PERFORMANCE MONITORING TEAM (SEMMSS)	NORFOLK	VA	
V42148	CO NAVAL AIR MAINT TRGNG GRP NAS MEMPHIS	MILLINGTON	TN	
V42223	SPECIAL BOAT UNIT 20 NAB LITTLE CREEK	NORFOLK	VA	
V42224	SPECIAL BOAT UNIT 24 NAB LITTLE CREEK	NORFOLK	VA	
V43394	FBM NAVIGATION TEST UNIT COLONNA'S SHIPYARD	NORFOLK	VA	
V43538	COMDESRON EIGHT	MAYPORT	FL	
V43594	FLEET CROSS DEVELOPMENT AND IMPLEMENTATION TEAM	NORFOLK	VA	
V44890	COMHELTACWING ONE	NORFOLK	VA	
V45472	ASSAULT CRAFT UNIT 4 NAB LITTLE CREEK	NORFOLK	VA	
V45662	READINESS TRAINING FACILITY DAM NECK	VIRGINIA BEACH	VA	
V46063	CO TWR-1 DIAMOND	NORFOLK	VA	
V46063	OIC US OPERATIONS SUPPORT CENTER NAB LITTLE CREEK	NORFOLK	VA	
V46094	NAVAL SECURITY COORINATION TEAM	NORFOLK	VA	
V46421	NAVAL RESERVE CARGO HANDLING TRAINING BATTALION	WILLIAMSBURG	VA	
V46580	COMMANDER SUBMARINE FORCE US ATLANTIC FLEET	NORFOLK	VA	
V46581	NAVAL SURFACE FORCE US ATLANTIC FLEET	NORFOLK	VA	
V46582	COMMANDER TRAINING GROUP	NORFOLK	VA	
V46904	ASWTRAGRULANT	NORFOLK	VA	
V46985	SEAL TEAM 8 NAB LITTLE CREEK	NORFOLK	VA	
V47144	NAVAL SURFACR FORCE US ATLANTIC FLEET	NORFOLK	VA	
V47194	SPECIAL BOAT UNIT 26	FPO	AA	
V47705	FTG DET NORFOLK	NORFOLK	VA	
V47898	NAVAL SPECIAL WARFARE DEVELOPMENT GROUP DAM NECK	VIRGINIA BEACH	VA	
V49081	SPECIAL BOAT SQUADRON TWO NAB LITTLE CREEK	NORFOLK	VA	

V49375	SPECIAL BOAT SQUADRON TWO NAB LITTLE CREEK	NORFOLK	VA	
V49613	SPECIAL BOAT SQUADRON TWO NAB LITTLE CREEK	NORFOLK	VA	
V52117	USS CORRY DD-817)	FPO		
V52118	USS NEW (DD-818)	FPO		
V52124	USS BASILONE (DD-824)	FPO	AE	
V52162	USS VOGELGESANG (DD-862)	FPO	AE	
V52163	USS STEINAKER (DD-863)	FPO	AE	
V52164	USS H.J. ELLISON (DD-864)	FPO	AE	
V52171	USS DAMATO (DD-871)	FPO		
V52173	USS HAWKINS (DD-873)	FPO		
V52193	USS BARRY (DD-933)	FPO	AE	
V52199	USS MANLEY (DD-940)	FPO	AA	
V52200	USS DUPONT (DD-941)	FPO	AE	
V52202	USS BLANDY (DD-943)	FPO	AE	
V52203	USS MULLINNIX (DD-944)	FPO	AA	
V52231	USS FARRAGUT (DDG-37)	FPO	AE	
V52232	USS LUCE (DDG-38)	FPO		
V52234	USS COONTZ (DDG-40)	FPO	AE	
V52235	USS KING (DDG-41)	FPO	AE	
V52236	USS MAHAN (DDG-42)	FPO	AA	
V52683	USS DAHLGREN (DDG-43)	FPO	AE	
V52684	USS WM. V. PRATT	FPO	AA	
V52686	USS PREBLE (DDG-46)	FPO	AP	
V52687	USS LEAHY (DLG-16)	FPO		
V52688	USS HARRY E. YARNELL (CG-17)	FPO	AE	
V52690	USS DALE (CG-19)	FPO	AA	
V52691	USS RICHMOND K. TURNER (CG-20)	FPO	AA	
V52700	USS BAINBRIDGE (CGN-25)	FPO	AE	
V52701	USS BELKNAP (CG-26)	FPO	AE	
V52702	USS JOSEPHUS DANIELS (CG-27)	FPO	AE	
V52703	USS WAINWRIGHT (CG-28)	FPO	AA	
V52709	USS BIDDLE (CG-34)	FPO	AE	
V52738	SPECIAL BOAT SQUADRON 2 NAB LITTLE CREEK	NORFOLK	VA	
V52874	HSL 34 NAS	NORFOLK	VA	

V52875	CO HSL THREE SIX	MAYPORT	FL	
V52903	SIMA CHARLESTON	CHARLESTON	SC	
V52911	HELICOPTER SEA CONTROL WING ONE NAS	NORFOLK	VA	
V53210	ASSAULT CRAFT UNIT 2 NAB LITTLE CREEK	NORFOLK	VA	
V53211	BEACHMASTER UNIT TWO NAB LITTLE CREEK	NORFOLK	VA	
V53823	PATROL WING FIVE NAS	BRUNSWICK	ME	
V53825	NAVAL SURFACE FORCE US ATLANTIC FLEET	NORFOLK	VA	
V53827	HELMINERON FOURTEEN NAS	NORFOLK	VA	
V53828	HM-16 NAS	NORFOLK	VA	
V53841	COMBAT LOGISTICS GROUP 2	NORFOLK	VA	
V53843	MAG-14 MCAS	CHERRY POINT	NC	
V53863	COMMANDER SURFACE WARFARE DEVELOPMENT GROUP	NORFOLK	VA	
V53869	OIC PATRON SPECIAL PROJECTS UNIT ONE	BRUNSWICK	ME	
V53889	COMMANDER, CARRIER GROUP 8	FPO	AE	
V53989	TACTICAL TRAINING GROUP ATLANTIC	VIRGINIA BEACH	VA	
V54036	USS McCLOY (FF-1038)	FPO	AE	
V54037	USS GARCIA (FF-1040)	NORFOLK	VA	
V54039	USS EDWARD McDONNELL (FF-1043)	FPO	AA	
V54042	USS VOGE (FF-1047)	FPO	AA	
V54044	USS KOELSCH (FF-1049)	FPO		
V54051	USS CONNOLE (FF-1056)	FPO	AE	
V54054	USS W.S. SIMS (FF-1059)	FPO	AA	
V54056	USS PATTERSON (FF-1061)	FPO	AE	
V54063	USS VREELAND (FF-1068)	FPO	AE	
V54067	USS BLAKELY (FF-1072)	FPO	AA	
V54070	USS TRIPPE (FF-1075)	FPO	AA	
V55105	AMPHIBIOUS CONSTRUCTION BATTALION 2 NAB LITTLE CRK	NORFOLK	VA	
V55131	NAVY CARGO HANDLING & PORT GROUP	WILLIAMSBURG	VA	
V55212	HELICOPTER ANTI-SUBMARINE	MAYPORT	FL	
V55218	HELSUPPRON EIGHT NAS	NORFOLK	VA	
V55243	FLEET COMPOSITE SQUADRON ATLANTIC NAS	NORFOLK	VA	

V55322	EOD GROUP 2 FT STORY	VIRGINIA BEACH	VA	
V55322	EXPLOSIVE ORDNANCE DISPOSAL GROUP TWO	NORFOLK	VA	
V55333	AMPHIBIOUS GROUP TWO	NORFOLK	VA	
V55335	COMPHIBRON 2	FPO	AE	
V55336	COMPHIBRON 4	FPO	AE	
V55337	COMPHIBRON 6	FPO	AE	
V55338	COMPHIBRON 8	FPO	AE	
V55421	COMSUPPRON 8 NAB LITTLE CREEK	NORFOLK	VA	
V55496	MOBILE DIVING AND SALVAGE UNIT TWO NAB LITTLE CRK	NORFOLK	VA	
V55640	SPECIAL BOAT SQUADRON TWO NAB LITTLE CREEK	NORFOLK	VA	
V55647	CJTF-HAG	FPO	AA	
V55722	FLEET TACTICAL DECEPTION GROUP, ATLANTIC	NORFOLK	VA	
V55728	PMOLANTSSNSUPT DET	NORFOLK	VA	
V55730	USS L.Y. SPEAR (AS-36) SUBMARINE SQUADRON 6	FPO	AE	
V55731	COMSUBRON 8	FPO	AE	
V55771	CRUISER-DESTROYER GROUP 2	CHARLESTON	SC	
V55778	SEAL TEAM TWO NAB LITTLE CREEK	NORFOLK	VA	
V57012	NAVAL AIR FORCE, US ATLANTIC FLEET	NORFOLK	VA	
V57016	COMMANDER SUBMARINE FORCE US ATLANTIC FLEET	NORFOLK	VA	
V57021	COMMANDER TRAINING GROUP - SHIP	NORFOLK	VA	
V57034	NAVAL CONSTRUCTION BATTALION ATLANTIC FLEET	NORFOLK	VA	
V57061	SOUTH ATLANTIC FORCE US ATLANTIC FLEET	FPO	AA	
V57067	AMPHIBIOUS GROUP 2 (COMNABEACHGRU-2)	NORFOLK	VA	
V57068	SERVICE SQUADRON 4 (COMLOGRON 4)	FPO	AE	
V57070	UNDERSEA SURVEILLANCE US ATLANTIC FLEET	NORFOLK	VA	
V57072	OIC FTG DET NORFOLK	NORFOLK	VA	
V57093	ATLANTIC FLEET AUDIO VISUAL COMMAND	NORFOLK	VA	
V58179	USS NEWPORT (LST-1179)	FPO	AE	

V62387	MILITARY SEALIFT COMMAND	WASHINGTON	DC	
V64045	USNS CHAUVENET (T-AGS-29)	NORFOLK	VA	
V65671	COMMANDER NAVAL AIR FORCE US ATLANTIC FLEET	NORFOLK	VA	
V65684	COMMANDER, NAVAL AIR FORCE, ATLANTIC FLT	NORFOLK	VA	
V66236	FLEET ELECTRONIC WARFARE SUPP. GROUP	NORFOLK	VA	
V66431	OCEANOGRAPHIC UNIT 4	FPO	AP	
V66923	CONSTRUCTION BATTALION UNIT 415 NAS OCEANA	VIRGINIA BEACH	VA	
V67400	CAMP SMEDLEY D. BUTLER, OKINAWA	SEATTLE	WA	
V68593	NAVY OCEAN PROCESSING FACILITY DAM NECK	VIRGINIA BEACH	VA	
V68652	MAPRAGLANT NAB LITTLE CREEK	NORFOLK	VA	
V68713	SIMA GITMO	FPO	AE	
V74025	USS SYLVANIA (AFS-2)	FPO	AE	
V79103	SNEP FIT SAUDI NAVAL EXPANSION PROGRAM	NORFOLK	VA	
V82631	CO NR-EODMU-10	FORT STORY	VA	
X00189	FITTING OUT & SUPPLY SUPPORT ASSISTANCE CTR.	NORFOLK	VA	
X00274	NAVAL AIR RESERVE CENTER	COLUMBUS	OH	
X23990	DET 8, 2762D LOG SQ (SP)/AC	ROBINS AFB	GA	
X65966	NAVY ACQUISITION MGT TRAINING OFFICE	NORFOLK	VA	
XKA089	DEFENSE PROPERTY DISPOSAL REGION (DRMO)	COLUMBUS	OH	
Z11104	USCGC INGHAM (WHEC-35)	PORTSMOUTH	VA	
Z11401	USCG HAMILTON (WHEC-715)	BOSTON	MA	
Z11402	USCGC DALLAS (WHEC 716)	FPO	AE	
Z11404	USCGC CHASE (WHEC 718)	BOSTON	MA	
Z11407	USCGC GALLATIN (WHEC-721)	FPO	AE	
Z11501	DMAHTC	WASHINGTON	DC	
Z11501	USCGC BEAR WMEC 901	PORTSMOUTH	VA	
Z11502	USCGC TAMPA	PORTSMOUTH	VA	
Z11503	USCGC HARRIET LANE WHEC 903	PORTSMOUTH	VA	
Z11504	USCGC NORTHLAND (WMEC 904)	PORTSMOUTH	VA	
Z11505	USCGC SPENCER (WMEC 905)	BOSTON	MD	
Z11506	USCGC SENECA (WMEC-906)	BOSTON	MA	

Z11507	USCGC ESCANABA (WMEC-907)	BOSTON	MA	
Z11508	USCG TAHOMA (WMEC9081) MAINTENANCE & LOGISTICS	GOVERNOR'S ISLAND	NY	
Z11509	USCGC CAMPBELL	NEW BEDFORD	MA	
Z11511	USCGC FORWARD (WMEC 911)	PORTSMOUTH	VA	
Z11512	USCGC LEGARE (WMEC 912)	PORTSMOUTH	VA	
Z11513	USCGC MOHAWK	KEY WEST	FL	
Z12101	USCGC RELIANCE (WMEC 615)	NEW CASTLE	NH	
Z12102	USCGC DILIGENCE (WMEC 616)	WILMINGTON	NC	
Z12103	NISC FOB #5	WASHINGTON	DC	
Z12103	USAMPS	FORT McCLELLAN	AL	
Z12103	USCGC VIGILANT WMEC 617	CAPE CANAVERAL	FL	
Z12107	USCGC VALIANT (WMEC-621)	GALVESTON	TX	
Z12111	USCGC VENTUROUS (WMEC 625)	WARENTON	OR	
Z12113	USCGC VIGOROUS(WMEC-627)	CAPE MAY	NJ	
Z12114	USCGC DURABLE WMEC 628	ST PETERSBURG	FL	
Z12304	USCGC TAMAROA (WMEC 166)	NEW CASTLE	NH	
Z13233	USCGC POINT HIGHLAND (WPB82333)	CHINCOTEAGUE	VA	
Z13240	USCGC POINTER BATON WPB 82340	CAPE MAY	NJ	
Z13409	BUREAU OF PRISONS	WASHINGTON	DC	
Z13415	USCGC MATINICUS (WPB-1315)	CAPE MAY	NJ	
Z13444	USCGC BLOCK ISLAND (WPB 1344)	ATLANTIC BEACH	NC	
Z13445	USCGC STATEN ISLAND (WPB 1345)	ATLANTIC BEACH	NC	
Z13447	USCGC PEA ISLAND	MAYPORT	FL	
Z14202	USCGC NORTHWIND (WAGB-282)	WILMINGTON	NC	
Z14502	USCGC POLAR SEA (WAGB-11)	FPO	AP	
Z15204	USCGC BITTERSWEET (WLB-389)	WOODS HOLE	MA	
Z15208	USCGC BUTTONWOOD (WLB-306)	SAN FRANCISCO	CA	
Z15213	USCGC COWSLIP	PORTSMOUTH	VA	
Z15216	USCGC GENTIAN (WLB-290)	ATLANTIC BEACH	NC	
Z15217	USCGC HORNBEAM	CAPE MAY	NJ	
Z15220	USCGC MAUREL (WLB 291)	MAYPORT	FL	
Z15221	USCGC MADRONA (WLB 302)	CHARLESTON	SC	
Z15231	USCGC SORREL (WLB-296)	GOVERNOR'S ISLAND	NY	
Z15232	USCGC SPAR (WLB-403)	SO PORTLAND	ME	
Z15235	USCGC SWEETGUM (WLB-309)	MAYPORT	FL	

Z15403	USCGC RED BIRCH (WLM 687)	BALTIMORE	MD	
Z15404	USCGC RED CEDAR	PORTSMOUTH	VA	
Z15405	USCGC RED OAK	PHILA	PA	
Z16305	USCGC PRIMROSE	ATLANTIC BEACH	NC	
Z17003	USCGC KENNEBEC(WLIC-802)	PORTSMOUTH	VA	
Z20130	USCG AIR STATION	ELIZABETH CITY	NC	
Z36232	USCG GROUP EASTERN SHORE	CHINCOTEAGUE	VA	
Z36235	USCG GROUP	PORTSMOUTH	VA	
Z47100	USCG SUPPORT CENTER	PORTSMOUTH	VA	
Z50100	AIRCRAFT REPAIR SUPPLY CENTER	ELIZABETH CITY	NC	
Z51800	SEVENTH COAST GUARD DISTRICT	MIAMI	FL	
Z51800	SEVENTH COAST GUARD DISTRICT	MIAMI	FL	
Z51800	USCGC BAINBRIDGE ISLAND WPB 1343	HIGHLANDS	NJ	
Z60100	US COAST GUARD ACADEMY	NEWLONDON	CT	
Z63100	USCG RESERVE TRAINING CTR	YORKTOWN	VA	
Z75121	US COAST GUARD ATLANTIC AREA	NEW YORK	BR	
Z75130	MAINTENANCE AND LOGISTIC COMMAND ATLANTIC	GOVERNORS ISLAND	NY	

14. FACILITY MAPS

- All maps requested, with the exception of aerial photos for NNSY, NAS Oceana, and Little Creek, are forwarded with this package. The aerial maps requested for the above mentioned areas are not available at this time and would significantly delay submission of this data call.

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

MAJOR CLAIMANT LEVEL

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

Signature

Acting Commander
Title

2-14-94
Date

Naval Facilities Engineering Command
Activity

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

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

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

Signature

Acting
Title

15 Feb 1994
Date

BRAC-95 CERTIFICATION

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

ACTIVITY COMMANDER

CAPT THOMAS J. TANNER
NAME

Signature

COMMANDING OFFICER
TITLE

2/7/94
Date

NAVY PUBLIC WORKS CENTER, NORFOLK
ACTIVITY

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

MAJOR CLAIMANT LEVEL

NAME

Signature

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

Signature

TITLE

Date

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DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

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

Activity Name:	NAVY PUBLIC WORKS CENTER NORFOLK
UIC:	N00187
Major Claimant:	COMNAVFACENGCOM

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 (DCN) average cost factors, the BSEC will also be conducting more sophisticated economic and community infrastructure analyses requiring more precise, activity-specific data. For example, activity-specific salary rates are required to reflect differences in salary costs for activities with large concentrations of scientists and engineers and to address geographic differences in wage grade salary rates. Questions relating to "Community Infrastructure" are required to assist the BSEC in evaluating the ability of a community to absorb additional employees and functions as the result of relocation from a closing or realigning DON activity.

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

Enclosure (1)

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

General Instructions/Background (Continued):

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

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

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

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

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

1. Workforce Data

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

Average Appropriated Fund Civilian Salary Rate:	$32,628.14

Source of Data (1.a. Salary Rate): CIVPERS Object Class 11 Data

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

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

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

County of Residence City of:	State	No. of Employees Residing in County		Percentage of Total Employees	Average Distance From Base (Miles)	Average Duration of Commute (Minutes)
		Military	Civilian			
Norfolk	VA	1	673	27.6	7.9	20
Virginia Beach	VA	14	637	26.7	13.3	40
Portsmouth	VA	1	252	10.3	10.4	40
Chesapeake	VA	1	423	17.4	16.3	45
Hampton	VA	N/A	89	3.6	13.0	30
Newport News	VA	N/A	60	2.5	20.0	45
All Other - VA	VA	N/A	206	8.4	N/A	N/A
All Other - NC	NC	N/A	85	3.5	N/A	N/A
				= 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:

City of Norfolk - 1 Military

DATA CALL 65
ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Source of Data (1.b. 1) & 2) Residence Data): Defense Civilian Personnel Data System

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)
Norfolk	N/A	7.9
Portsmouth	N/A	12.4
Chesapeake	N/A	16.3
Virginia Beach	N/A	13.3
Hampton	N/A	13.0
Newport News	N/A	20.0

Source of Data (1.c. Metro Areas): Hampton Roads Planning District Commission

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	29	1.2%
20 - 24 Years	59	2.4%
25 - 34 Years	415	17.1%
35 - 44 Years	893	36.9%
45 - 54 Years	706	29.1%

55 - 64 Years	294	12.1%
65 or Older	29	1.2%
TOTAL	2,425 Note 1	100%

Source of Data (1.d.) Age Data): Defense Civilian Personnel Data System

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	37	1.5%
9th through 11th Grade	253	10.4%
12th Grade or High School Equivalency	1,564	64.5%
1-3 Years of College	307	12.7%
***4 Years of College (Bachelors Degree)**	214	8.8%
5 or More Years of College (Graduate Work)	47	2.0%
Unknown	3	.1%
TOTAL	2,425 Note 1	100%

* Includes employees with more than sufficient number of hours to qualify for Bachelors Degree, i.e., 120 semester/160 quarter hours, but has not been awarded diploma.

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

Note 1: Does not include approximately 900 PWC employees located at additional sites, i.e., NAS Oceana, Norfolk Naval Shipyard, Little Creek Amphibious Base, etc. This direction is per BSAT response dated 8 July 1994.

avoid double counting, only identify the highest degree obtained by a worker (e.g., if an employee has both a Master's Degree and a Doctorate, only include the employee under the category "Doctorate").

Degree	Number of Civilian Employees
Terminal Occupation Program - Certificate of Completion, Diploma or Equivalent (for areas such as technicians, craftsmen, artisans, skilled operators, etc.)	107
Associate Degree	63
**Bachelor Degree	202
Masters Degree	27
Doctorate	1

** Number of employees with degree

Source of Data (1.e.1) and 2) Education Level Data): Defense Civilian Personnel Data System

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

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

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Industry	SIC Codes	No. of Civilians	% of Civilians
1. Agriculture, Forestry & Fishing	01-09	N/A	N/A
2. Construction (includes facility maintenance and repair)	15-17	1,130	46.6%
3. Manufacturing (includes Intermediate and Depot level maintenance)	20-39		
3a. Fabricated Metal Products (include ordnance, ammo, etc.)	34	N/A	N/A
3b. Aircraft (includes engines and missiles)	3721 et al	N/A	N/A
3c. Ships	3731	N/A	N/A
3d. Other Transportation (includes ground vehicles)	various	N/A	N/A
3e. Other Manufacturing not included in 3a. through 3d.	various	N/A	N/A
Sub-Total 3a. through 3e.	20-39	N/A	N/A
4. Transportation/Communications/Utilities	40-49		
4a. Railroad Transportation	40	N/A	N/A
4b. Motor Freight Transportation & Warehousing (includes supply services)	42	40	1.6%
4c. Water Transportation (includes organizational level maintenance)	44	N/A	N/A
4d. Air Transportation (includes organizational level maintenance)	45	N/A	N/A
4e. Other Transportation Services (includes organizational level maintenance)	47	202	8.3%
4f. Communications	48	3	.1%
4g. Utilities	49	99	4.1%

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Industry	SIC Codes	No. of Civilians	% of Civilians
Sub-Total 4a. through 4g.	40-49	344	14.1%
5. Services	70-89		
5a. Lodging Services	70	51	2.1%
5b. Personal Services (includes laundry and funeral services)	72	N/A	N/A
5c. Business Services (includes mail, security guards, pest control, photography, janitorial and ADP services)	73	45	1.9%
5d. Automotive Repair and Services	75	52	2.1%
5e. Other Misc. Repair Services	76	57	2.4%
5f. Motion Pictures	78	N/A	N/A
5g. Amusement and Recreation Services	79	N/A	N/A
5h. Health Services	80	N/A	N/A
5i. Legal Services	81	1	-
5j. Educational Services	82	N/A	N/A
5k. Social Services	83	N/A	N/A
5l. Museums	84	N/A	N/A
5m. Engineering, Accounting, Research & Related Services (includes RDT&E, ISE, etc.)	87	285	11.7%
5n. Other Misc. Services	89	443	18.3%
Sub-Total 5a. through 5n.:	70-89	934	38.5%
6. Public Administration	91-97		
6a. Executive and General Government, Except Finance	91	N/A	N/A

Industry	SIC Codes	No. of Civilians	% of Civilians
6b. Justice, Public Order & Safety (includes police, firefighting and emergency management)	92	N/A	N/A
6c. Public Finance	93	N/A	N/A
6d. Environmental Quality and Housing Programs	95	17	.8%
Sub-Total 6a. through 6d.		17	.8%
TOTAL Note 1		2,425	100%

Source of Data (1.f.) Classification By Industry Data): Defense Civilian Personnel Data System

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

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

Note 1: Does not include approximately 900 PWC employees located at additional sites, i.e., NAS Oceana, Norfolk Naval Shipyard, Little Creek Amphibious Base, etc. This direction is per BSAT response dated 8 July 1994.

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Occupation	Number of Civilian Employees	Percent of Civilian Employees
1. Executive, Administrative and Management	400	16.5%
2. Professional Specialty		
2a. Engineers	83	3.4%
2b. Architects and Surveyors	15	.6%
2c. Computer, Mathematical & Operations Research	5	.2%
2d. Life Scientists	1	-
2e. Physical Scientists	12	.5
2f. Lawyers and Judges	N/A	N/A
2g. Social Scientists & Urban Planners	N/A	N/A
2h. Social & Recreation Workers	N/A	N/A
2i. Religious Workers	N/A	N/A
2j. Teachers, Librarians & Counselors	N/A	N/A
2k. Health Diagnosing Practitioners (Doctors)	N/A	N/A
2l. Health Assessment & Treating(Nurses, Therapists, Pharmacists, Nutritionists, etc.)	N/A	N/A
2m. Communications	1	-
2n. Visual Arts	N/A	N/A
Sub-Total 2a. through 2n.:	117	4.7%
3. Technicians and Related Support		
3a. Health Technologists and Technicians	201	8.3%
3b. Other Technologists	N/A	N/A
Sub-Total 3a. and 3b.:	201	8.3%
4. Administrative Support & Clerical	248	10.2%
5. Services		

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Occupation	Number of Civilian Employees	Percent of Civilian Employees
5a. Protective Services (includes guards, firefighters, police)	N/A	N/A
5b. Food Preparation & Service	N/A	N/A
5c. Dental/Medical Assistants/Aides	N/A	N/A
5d. Personal Service & Building & Grounds Services (includes janitorial, grounds maintenance, child care workers)	N/A	N/A
Sub-Total 5a. through 5d.	N/A	N/A
6. Agricultural, Forestry & Fishing	N/A	N/A
7. Mechanics, Installers and Repairers	342	14.1%
8. Construction Trades	647	26.7%
9. Production Occupations	202	8.3%
10. Transportation & Material Moving	159	6.6%
11. Handlers, Equipment Cleaners, Helpers and Laborers (not included elsewhere)	109	4.6%
TOTAL	2,425	100 %

Source of Data (1.g.) Classification By Occupation Data): Defense Civilian Personnel Data System

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

1. **Executive, Administrative and Management.** Accountants and auditors; administrative services managers; budget analysts; construction and building inspectors; construction contractors and managers; cost estimators; education administrators; employment interviewers; engineering, science and data processing managers; financial managers; general managers and top executives; chief executives and legislators; health services managers; hotel managers and assistants; industrial production managers; inspectors and compliance officers, except construction; management analysts and consultants; marketing,

advertising and public relations managers; personnel, training and labor relations specialists and managers; property and real estate managers; purchasing agents and managers; restaurant and food service managers; underwriters; wholesale and retail buyers and merchandise managers.

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

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

1. Percentage of Military Employees Who Are Married:	94%
2. Percentage of Military Spouses Who Work Outside of the Home:	75%
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:	25%
3b. Employed "On-Base" - Non-Appropriated Fund:	N/A
3c. Employed "Off-Base" - Federal Employment:	N/A
3d. Employed "Off-Base" - Other Than Federal Employment	75%

Source of Data (1.h.) Spouse Employment Data): Activity Personnel Files

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

A - Growth can be accommodated with little or no adverse impact to existing community infrastructure and at little or no additional expense.

B - Growth can be accommodated, but will require some investment to improve and/or expand existing community infrastructure.

C - Growth either cannot be accommodated due to physical/environmental limitations or would require substantial investment in community infrastructure improvements.

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

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

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

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

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

Category	20% Increase	50% Increase	100% Increase
Off-Base Housing	A	A	A
Schools - Public	A	A	A
Schools - Private	A	A	A
Public Transportation - Roadways	A	A	A
Public Transportation - Buses/Subways	A	A	A
Public Transportation - Rail	N/A	N/A	N/A
Fire Protection	A	A	B
Police	A	A	B
Health Care Facilities	A	A	B
Utilities:			
Water Supply	A	A	B
Water Distribution	A	A	A
Energy Supply	A	A	A
Energy Distribution	A	A	A
Wastewater Collection	A	A	B
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 and magnitude of improvements required and/or the nature of any barriers that preclude expansion.

In this table there were no "C" ratings assigned to any of the infrastructure categories.

Source of Data (2.a. 1) & 2) - Local Community Table): Hampton Roads Planning District Commission

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

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

Category	20% Increase	50% Increase	100% Increase
Off-Base Housing	A	A	B
Schools - Public	A	A	B
Schools - Private	A	A	B
Public Transportation - Roadways	A	A	B
Public Transportation - Buses/Subways	A	A	B
*Public Transportation - Rail	N/A	N/A	N/A
Fire Protection	A	A	B
Police	A	A	B
Health Care Facilities	A	A	B
Utilities:			
Water Supply	A	A	B
Water Distribution	A	A	B
Energy Supply	A	A	B
Energy Distribution	A	A	B

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Category	20% Increase	50% Increase	100% Increase
Wastewater Collection	A	A	B
Wastewater Treatment	A	A	B
Storm Water Collection	A	A	B
Solid Waste Collection and Disposal	A	A	B
Hazardous/Toxic Waste Disposal	A	A	B
Recreation Facilities	A	A	A

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

* N/A was assigned to the Public Transportation - Rail category because the region does not have a commuter rail system.

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.

In this table there were no "C" ratings assigned to any of the infrastructure categories.

Source of Data (2.b. 1) & 2) - Regional Table): Hampton Roads Planning District Commission

3. Public Facilities Data:

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

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Rental Units:

Number of Bedrooms	Vacant Units for Rent	Vacancy Rate (Percent)
1 Bedroom	4,254	9.4%
2 Bedroom	11,884	11.4%
3 Bedroom	3,208	6.2%
4+ Bedroom	107	0.9%
Total for the Region	19,453	10%

Units for Sale:

City	Vacant Units for Sale	Vacancy Rate (Percent)
Virginia Beach	5,043	3.3%
Norfolk	5,862	6.2%
Portsmouth	2,292	5.5%
Chesapeake	1,552	2.4%
Newport News	3,340	4.6%
Hampton	2,099	3.5%
Williamsburg	766	3.7%
*Total for the Region	20,954	4.5%

* PWC Norfolk unable to confirm total data reflected in city breakdown. This table not addressed in previous PWC data calls.

Source of Data (3.a. Off-Base Housing):	For rental units: Metro Market Trends, Inc. For sale units: 1993-93 HUD Housing Survey

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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	
Virginia Beach		53	11	10	74,880	***	20.0	25	Yes
Norfolk		37	8	5	36,450	***	20.7	25	Yes
Chesapeake		26	7	5	33,182	***	21.0	25	No
Portsmouth		16	4	4	17,921	***	23.0	25	Yes
Suffolk		10	3	2	9,443	***	21.2	25	No
Newport News		25	7	4	31,894	***	19.1	25	Yes
Hampton		24	5	4	22,991	***	19.6	25	Yes
Poquoson		2	1	1	2,403	***	20.0	25	No
Williamsburg/James City County	Williamsburg/ James County	6	3	1	6,637	***	17.7	25	Yes
York County	York County	10	3	3	10,619	***	20.4	25	Yes
Gloucester County	Gloucester County	5	2	1	6,235	***	17.4	25	No

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

*** This figure is unavailable because capacity fluctuates due to the following reasons:

1. Mobile trailers can be used for classrooms if a school needs additional capacity.
2. Some schools are currently being renovated or additions are under construction.
3. Reconfiguration, rescheduling, and redistricting are all possible solutions for school systems if additional space is needed.
4. Classroom sizes vary according to the needs of the students. Example: If additional special education students are registered in a school the "capacity" can decrease due to the State requirements of smaller pupil to teacher ratios for special education students.

School districts in this table include all of the Public School Systems in the Metropolitan Statistical Area with the exception of the Isle of Wight County School System and the Matthews County School System.

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Source of Data (3.b.1) Education Table):	Hampton Roads Planning District Commission

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.

Source of Data (3.b.2) On-Base Schools):	Hampton Roads Planning District Commission

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 :

Institution Name	Certificate	Associate Degree	Bachelor Degree	Graduate Degree
College of William and Mary	No	No	Yes	Yes
Christopher Newport University	No	No	Yes	Yes
Old Dominion University	No	No	Yes	Yes
Norfolk State University	No	No	Yes	Yes
Thomas Nelson Community College	Yes	Yes	No	No
Commonwealth College	No	Yes	No	No
Eastern Virginia Medical School	No	No	No	Yes
Hampton University	No	No	Yes	Yes
Virginia Wesleyan College	No	No	Yes	Yes

Both Old Dominion University and Tidewater Community College offer courses during the spring and fall semesters as well as during the summer session on NOB Norfolk and NAS Oceana. Additionally, George Washington University, Emory Riddle Aeronautical, Southern

Illinois University, and St. Leo's College have extension campuses located in Hampton Roads. These educational institutions offer classes and programs designed especially for activy duty military personnel stationed in the area.

One program of special interest available on-base to service members and their adult dependents is the Military career Transition Program offered by Old Dominion University. This program offers senior enlisted and officers due to retire or separate from the military a course of study resulting in a Masters of Science in Education and teaching certification by the Commonwealth of Virginia. Classes are offered at Dam Neck, NAS Norfolk, the Virginia Beach Graduate Center, Langley AFB, and Fort Monroe.

Source of Data (3.b.3) Colleges): Hampton Roads Planning District Commission

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:

Advanced Technology, Inc.
Automotive Training Institute
Career Development Institute
Career Works, Inc.
Careercom
Centec Learning
Charm Associates Inc.
Commonwealth Technical Institute
Community Alternatives, Inc.
Comptrain
Computer Dynamics, Inc.
Computron
Dalfort Aircraft Tech
Danny's Barber College
Deens' Beauty School
Eastern School of Technology
Electronic Computer Programming Institute
Electronic Institute of Technology
Emost Training Academy
Financial Systems Academy
Gibson World Travel School
Glick & Glick Tax Consultants
Stop Organization
USA Training Academy
Virginia Beach Beauty Academy
Virginia Institute of Technology
Virginia School of Polygraph
Wards Corner Beauty Academy
Ymlth Unlimited
Green Thumb Employment & Training
Hitek Learning Systems, Inc.
International Air Academy, Inc.
ITT Employment and Training Systems Inc.
Jenkins Barber College
Johnson and Whales College
Kee Business College Campus
Lucas Travel School
Mansfield School of Business
MTA School
Norfolk School of Boat Building
OIE Learning Inc.
Paralegal Institute of America
Performance Training Inc.
Platt Career School
Portsmouth School of Beauty Culture
Productivity Computer Training Inc.

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The Wackenhut Institute
Tidewater Builders Association
Tidewater Maritime Training Institute
Tidewater School of Navigation
Tidewater Tech
Training and Development Service
Tri-State Semi-Driver Training Inc.
Pruden Vo-Tech Center
Reporting Academy of Va., LTD
Rice Aviation Aircraft
School of Practical Nursing
Step-Up, Inc.

Source of Data (3.b.4) Vo-tech Training): Hampton Roads Planning District Commission

c. **Transportation.**

1) Is the activity served by public transportation?

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

Source of Data (3.c.1) Transportation): Hampton Roads Planning District Commission

2) Identify the location of the nearest passenger railroad station (long distance rail service, not commuter service within a city) and the distance from the activity to the station.

Amtrack - 9304 Warwick Blvd., Newport News, VA, 10 miles

Source of Data (3.c.2) Transportation): Hampton Roads Planning District Commission

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.

Norfolk International Airport - 8 miles

Source of Data (3.c.3) Transportation): Hampton Roads Planning District Commission

4) How many carriers are available at this airport?

There are 8 carriers which service this airport. They are American Airlines, Continental Airlines, Delta Airlines, Northwest Airlines, Trans World Airlines, USAir, United Airlines, and Southeast Airlines.

Source of Data (3.c.4) Transportation): Hampton Roads Planning District Commission

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

Interstate 564 - 0 miles

Source of Data (3.c.5) Transportation): Hampton Roads Planning District Commission

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.)

Access to the activity is via I-64 and I-564, International Terminal Blvd., and Hampton blvd. These routes provide excellent access to the facility. In 1993 HOV lanes on I-64 were completed at a cost of $120,000,000.

b) Do access roads transit residential neighborhoods?

The only road to transit residential neighborhoods is through Hampton Blvd.

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

No

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

No

Source of Data (3.c.6) Transportation): Hampton Roads Planning District Commission

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.

Commander, Naval Base, Norfolk has a written mutual aid firefighting assistance agreement with the City of Norfolk. The agreementindicates that the base or the city will respond personnel and equipment to requests for firefighting assistance from either party.

There is no written or verbal agreement with the local community for hazardous materials response that I an aware of. The City of Norfolk and the Virginia Department of Emergency Services have previously responded to the base for assistance on a few hazardous materials incidents.

Source of Data (3.d. Fire/Hazmat): Naval Station, Norfolk

e. **Police Protection.**

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

Concurrent Jurisdiction

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

N/A

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

No, however a memorandum of understanding between the City of Norfolk and Commander, Naval Base, Norfolk is in place to provide juvenile protection services.

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.

Since the Naval Base, Norfolk, Security Department does not have an emergency services team, the Federal Bureau of Investigations (FBI) provides a special weapons and tactics team (SWAT) when requested by the Naval Criminal Investigative Service. The FBI's SWAT is sometimes augmented by the City of Norfolk's Police Department SWAT when requested by FBI.

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.

N/A

Source of Data (3.e. 1) - 5) - Police): Commander, Naval Base, Norfolk

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.

While monitored as an individual account, this activity is supplied with water by the City of Norfolk under a general contract between the Navy and the City of Norfolk. The current contract which is being renegotiated includes a reserve capacity of an undisclosed amount to accommodate increased demand across all activities serviced under the Navy contract.

The activity has sewer lines connected directly to the HRSD sewer lines. Wastewater is treated at the HRSD Army base treatment plant which has capacity available for increased flows. Increases may require a seperate agreement with the City of Norfolk if the city's sewer lines are impacted.

COMNAVBASE has an NPDES/VPDES discharge permit. Naval Base Norfolk operates their own stormwater collection system. Norfolk is not billing the base for stormwater collection at this time.

LANTDIV has a refuse disposal agreement with SPSA. Collection and delivery is handled by the activity.

Naval Base Norfolk receives electricity under a contract negotiated with Virginia Power.

The activity purchases natural gas from Virginia Natural Gas under a 1940s Navy purchase agreement which is based on a general rate structure and not minimum/ maximum quantities.

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

The City of Norfolk has never required this activity to implement water conservation restrictions, however, the Navy has self-imposed restrictions to curtail unnecessary water use during drought periods. There has been no interruption in service delivery except for routine system maintenance and repair.

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.

There are no known significant disruptions in utility service at this facility.

Source of Data (3.f. 1) - 3) Utilities): Hampton Roads Planning District Commission

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

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ECONOMIC AND COMMUNITY INFRASTRUCTURE DATA

Employer	Product/Service	No. of Employees
1. Naval Station Norfolk	National Defense	60,000
2. Newport News Shipbuilding and Drydock Co.	Shipbuilding/Repair	21,000
3. Fort Eustis	National Defense	14,583
4. Langley Air Force Base	National Defense	11,600
5. Naval Amphibious Base Little Creek	National Defense	11,029
6. Naval Air Station Oceana	National Defense	10,200
7. Sentara Health Systems	Health Care	9,800
8. Virginia Beach Public Schools	Education	8,200
9. Norfolk Naval Shipyard	Ship Repair	7,706
10. Farm Fresh, Inc.	Grocery Chain	8,000

Source of Data (4. Business Profile): Hampton Roads Planning District Commission

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:

The region has lost few major employers within the past five years. However, the Jonathan Corporation has been forced into foreclosure by a fall off in its defense business. Defense cuts have significantly impacted the area and caused defense contractors to cut back on the number of their workers. The Newport News Shipbuilding and Drydock Company has reduced its workforce from over thirty thousand a few years ago to just over twenty thousand today with a target employment level of fifteen thousand by 1996. Some four thousand jobs have also been lost at the Norfolk Naval Shipyard. Small contractors and subcontractors have also reduced their employment levels.

b. Introduction of New Businesses/Technologies:

CIGNA and USAA have recently located service centers within the area as have QVC and Lilian Vernon. CEBAF, an electronic beam accelerator, has been under construction for the past several years and will begin operations in 1994. Canon USA has also opened a facility for producing copiers.

c. Natural Disasters:

In the past 5 years there have not been any natural disasters in the Norfolk/Virginia Beach/Newport MSA which have negatively impacted the regional economy.

d. Overall Economic Trends:

Defense cuts continue to hamper the regional economy. Employment growth rates were in the 4-7 percent per year range in the mid 1980s and are today in the 0.5-1.5 percent range. Further defense downsizing will continue to hold down growth rates and elevate the unemployment rate. The region's population continues to expand along with the associated residential construction. The regional tax base has expanded accordingly with higher levels of retail sales, personal property and real estate taxes collected. Finally, the region is growing short of water, and this has forced growth to shift o the west into Chesapeake and Suffolk and out of Virginia Beach in recent years. This growth shift is anticipated to continue. Should the region be delayed in acquiring new water supply sources, regional growth rates will deteriorate from current levels.

Source of Data (5. Other Socio/Econ): Hampton Roads Planning District Commission

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

1. The Norfolk Navy Housing Welcome Center opened in April 1991, and is a landmark endeavor between Navy Family Housing and the City of Norfolk to provide a one-stop housing and community information service for military and Department of Defense personnel and their families. The focus of the Navy Housing Welcome Center is to address quality of life issues that impact military and Department of Defense personnel and their families when relocating to the Hampton Roads area. Naval complex Norfolk consists of all naval activities located in Norfolk, Virginia Beach, Chesapeake, and Portsmouth, Virginia, with the exception of Naval Security Group Activity Northwest. There are over 109,000 navy and marine corps personnel stationed here, with a support system of over 40,000 civilian employees. The facility

is centrally located in the JANAF shopping center - convenient to major highways. At the hub of the Hampton Roads area, it provides a convenient site for both customers and local community interaction. The Navy Housing Welcome Center also provides interface capabilities with Navy-Marine Corps Relief, Navy Family Service Center, Personnel Support Detachments, Commands, and Community Support Agencies. As a member of the Norfolk Housing task force - we are able to provide for interaction between the local community and Navy Family Housing. We assist 1,300 customers per month - families and bachelors. This figure does not include customers assisted at BEN-84.

2. On June 11, PWC employees and their families participated in Clean the Bay Day, an annual community-wide effort to clear debris from area beaches and parks. PWC employees have participated in this event for the past four years.

3. On April 22 (Earth Day), PWC employees participated in the Environmental Fair sponsored by Commander Naval Base. PWC's Environmental, Housing, and Transportation Departments provided a number of educational displays, ranging from safe disposal of household products to an "open house" aboard PWC's 56-foot command boat, Joint Venture, which assists the Coast Guard in oil recovery operations. The fair was open to the public and thousands of area school children attended.

4. PWC employees also volunteer for the Commander Naval Base Speaker's Bureau. In this program, PWC subject matter experts volunteer to speak to community organizations and schools to help keep the local community apprised of various responsilibities of the U.S. Navy.

5. In 1993, PWC participated in the Ameurop Cultural Relations Foundation German-American exchange program. This program awards fellowships to young technical students for study in Germany and the United States. The exchange program fosters understanding between American students and those from different countries. PWC hosted two German apprentices who were each assigned to a PWC Department that would help them learn more about their chosen trade.

Source of Data (6. Other): Activity Files

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

MAJOR CLAIMANT LEVEL

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

Signature

COMMANDER
Title

7/21/94
Date

NAVAL FACILITIES ENGINEERING COMMAND
Activity

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

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

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

Signature

Title

8/2/94
Date

BRAC-95 CERTIFICATION

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

ACTIVITY COMMANDER

CAPT THOMAS J. TANNER	
NAME	Signature
COMMANDING OFFICER	7/14/94
TITLE	Date

NAVY PUBLIC WORKS CENTER, NORFOLK
ACTIVITY

Enclosure (2)

DATA CALL 66
INSTALLATION RESOURCES

122

Activity Information:

Activity Name:	Navy Public Works Center, Norfolk, VA
UIC:	N00187
Host Activity Name (if response is for a tenant activity):	N/A
Host Activity UIC:	N/A

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

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

a. Table 1A - Base Operating Support Costs (Other Than DBOF Overhead). This Table should be completed to identify "Other Than DBOF Overhead" Costs. Display, in the format shown on the table, the O&M, R&D and MPN resources currently budgeted for BOS services. O&M cost data must be consistent with data provided on the BS-1 exhibit. Report only direct funding for the activity. Host activities should not include reimbursable support provided to tenants, since tenants will be separately reporting these costs. Military personnel costs should be included on the appropriate lines of the table. Please ensure that individual lines of the table do not include duplicate costs. Add additional lines to the table (following line 2j., as necessary, to identify any additional cost elements not currently shown). **Leave shaded areas of table blank.**

DATA CALL 66
INSTALLATION RESOURCES

Table 1A - Base Operating Support Costs (Other Than DBOF Overhead)			
Activity Name: Navy Public Works Center, Norfolk, VA		UIC: N00187	
Category	FY 1996 BOS Costs ($000)		
	Non-Labor	Labor	Total
1. Real Property Maintenance Costs:			
1a. Maintenance and Repair	N/A	N/A	N/A
1b. Minor Construction	N/A	N/A	N/A
1c. Sub-total 1a. and 1b.	N/A	N/A	N/A
2. Other Base Operating Support Costs:			
2a. Utilities	N/A	N/A	N/A
2b. Transportation	N/A	N/A	N/A
2c. Environmental	N/A	N/A	N/A
2d. Facility Leases	N/A	N/A	N/A
2e. Morale, Welfare & Recreation	N/A	N/A	N/A
2f. Bachelor Quarters	N/A	N/A	N/A
2g. Child Care Centers	N/A	N/A	N/A
2h. Family Service Centers	N/A	N/A	N/A
2i. Administration	N/A	N/A	N/A
2j. Other (Specify)	N/A	N/A	N/A
2k. Sub-total 2a. through 2j:	N/A	N/A	N/A
3. Grand Total (sum of 1c. and 2k.):	N/A	N/A	N/A

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

Appropriation	Amount ($000)
N/A	N/A

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:Navy Public Works Center, Norfolk, VA		UIC:N00187	
Category	FY 1996 Net Cost From UC/FUND-4 ($000)		
	Non-Labor	Labor	Total
1. Real Property Maintenance Costs:			
1a. Real Property Maintenance (>$15K)	39,177	11,623	50,800
1b. Real Property Maintenance (<$15K)	3,590	6,668	10,258
1c. Minor Construction (Expensed)	12	22	34
1d. Minor Construction (Capital Budget)	1169 ~~1,493~~	N/A	1169 ~~1,493~~
1c. Sub-total 1a. through 1d.	43948 ~~44,272~~	18,313	62261 ~~62,585~~
2. Other Base Operating Support Costs:			
2a. Command Office	2,089	3,362	5,451
2b. ADP Support	1,518	1,855	3,373
2c. Equipment Maintenance	72	N/A	72
2d. Civilian Personnel Services	2,005	N/A	2,005
2e. Accounting/Finance	380	1,818	2,198
2f. Utilities	N/A	N/A	N/A
2g. Environmental Compliance	44	N/A	44
2h. Police and Fire	36	N/A	36
2i. Safety	153	552	705
2j. Supply and Storage Operations	793	3,174	3,967
2k. Major Range Test Facility Base Costs	N/A	N/A	N/A
2l. Other (Specify)			
Physical Science	30	174	204
Admin	169	833	1,002
Base Communication	189	N/A	189
FECA	1,950	N/A	1,950
NAVFAC	156	N/A	156
NAVFAC (PDC)	202	N/A	202

Teresa Smith
Code 1324
7-22-94

DATA CALL 66
INSTALLATION RESOURCES

2m. Sub-total 2a. through 2l:	9,786	11,768	21,554
3. Depreciation	4,677	N/A	4,677
4. Grand Total (sum of 1c., 2m., and 3.) :	~~58,735~~	30,081	~~88,816~~

58411 TBS

88492 TBS

Teresa Lockard
code 1324
7-22-94

DATA CALL 66
INSTALLATION RESOURCES

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

Table 2 - Services/Supplies Cost Data	
Activity Name:Navy Public Works Center, Norfolk, VA	**UIC:N00187**
Cost Category	**FY 1996 Projected Costs ($000)**
Travel:	1,908
Material and Supplies (including equipment):	53,726
Industrial Fund Purchases (other DBOF purchases):	8,762
Transportation:	21
Other Purchases (Contract support, etc.):	225,583
Total:	290,000

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:Navy Public Works Center, Norfolk, VA	**UIC:N00187**
Contract Type	**FY 1996 Estimated Number of Workyears On-Base**
Construction:	142
Facilities Support:	580
Mission Support:	189
Procurement:	N/A
Other:*	N/A
Total Workyears:	911

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

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)):

* 911

2) Estimated number of workyears which would be eliminated:

0

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

0

* Understated because of economy of scale.

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.)
N/A	N/A

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

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

MAJOR CLAIMANT LEVEL

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

Signature

COMMANDER
Title

7/22/94
Date

NAVAL FACILITIES ENGINEERING COMMAND
Activity

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

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

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

Signature

Title

8/3/94
Date

BRAC-95 CERTIFICATION

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

ACTIVITY COMMANDER

CAPT THOMAS J. TANNER
NAME

Signature

COMMANDING OFFICER
TITLE

7/18/94
Date

NAVY PUBLIC WORKS CENTER, NORFOLK
ACTIVITY

BRAC-95 CERTIFICATION

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

EUNICE P. HUTCHINGS
NAME

Eunice P. Hutchings
Signature

DIRECTOR, BUDGET/COST ACCOUNTING
Title

7/18/94
Date

CODE 152
Division

COMPTROLLER DEPARTMENT
Department

NAVY PUBLIC WORKS CENTER
Activity

BRAC-95 CERTIFICATION

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

RUTH A. GALLUP
NAME

Ruth A. Gallup
Signature

MANAGER, BUDGET BRANCH
Title

7-18-94
Date

BUDGET/COST ACCOUNTING DIVISION
Division

COMPTROLLER DEPARTMENT
Department

NAVY PUBLIC WORKS CENTER
Activity