

Check Sheet

Company Name: Naval Station Mayport
Permit Number: AC16-121383
PSD Number: _____
Permit Engineer: _____

Application:

- ☒ Initial Application
- ☒ Incompleteness Letters
- ☒ Responses
- ☐ Waiver of Department Action
- ☐ Department Response
- ☐ Other

Cross References:

- ☒ AC¹⁶135747
- ☐
- ☐

Intent:

- ☒ Intent to Issue
- ☒ Notice of Intent to Issue
- ☒ Technical Evaluation
- ☒ BACT or LAER Determination
- ☒ Unsigned Permit
- Correspondence with:
 - ☐ EPA
 - ☐ Park Services
 - ☐ Other
- ☒ Proof of Publication
 - ☐ Petitions - (Related to extensions, hearings, etc.)
 - ☐ Waiver of Department Action
 - ☐ Other

Final

Determination:

- ☒ Final Determination
- ☒ Signed Permit
- ☒ BACT or LAER Determination
- ☐ Other

Post Permit Correspondence:

- ☐ Extensions/Amendments/Modifications
- ☒ Other

In the folder labeled as follows there are documents, listed below, which were not reproduced in this electronic file. That folder can be found in one of the file drawers labeled Supplementary Documents Drawer. Folders in that drawer are arranged alphabetically, then by permit number.

Folder Name: Naval Station, Mayport.

Permit(s) Numbered:

AC	16	-	121383
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Period during
which document
was received:

Detailed Description

APPLICATION 12 JUN 1986	1.	36"×24" BLUEPRINT: GENERAL WAREHOUSE ADDITION TITLE SHEET, VICINITY & LOCATION MAPS (DRAWING NUMBER: F 80091)
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Sam Rogers

DEPARTMENT OF REGULATORY &
ENVIRONMENTAL SERVICES
Air Quality Division



January 29, 1993

J. H. Schroeder
Department Head, Public Works Center
Naval Air Station
P.O. Box 30
Jacksonville FL 32212-0030

Re: Modeled Sulfur Dioxide Exceedances

Dear Mr. Schroeder:

The Air Quality Division (AQD) has received the U.S. Geological Survey topographic map with Naval Station Mayport's property boundary and boilers outlined. It has been determined that the sulfur dioxide exceedances projected from AQD modeling fall within the fenceline of Naval Station Mayport. Due to this determination, permit modifications and emission reductions will not be required.

If further information is needed, contact me or Lori Tilley at (904) 630-3666.

Very truly yours,

Robert S. Pace
Robert S. Pace, P.E.
Acting Chief
Air Quality Division

RSP/ema

cc: J.S. Veal
Deputy Staff Civil Engineer
Naval Station, Mayport

disc/S:\Tilley\JHSC



421 West Church Street - Suite 412
Jacksonville, Florida 32202-4111

Area Code 904/630-3666

PM
18 Feb. 1988
Jacksonville, FL

file copy

**DEPARTMENT OF HEALTH, WELFARE
& BIO-ENVIRONMENTAL SERVICES**
Bio-Environmental Services Division
Air and Water Pollution Control

February 17, 1988



Mr. Bruce Mitchell
Central Air Permitting Section
Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301-8241

DER

FEB 22, 1988 (m)

BAQM


**Subject: Duval County - AP
Naval Air Station - Jacksonville
Seven (7) fuel test stands
Construction Permit No. AC16-135747**

Dear Mr. Mitchell:

The above referenced permit (enclosed) was issued by Bio-Environmental Services Division (BESD) and the Department of Environmental Regulation (DER) on January 7, 1988. The application for this source should have been referred to DER-Central Air Permitting Section (CAPS) for processing. Upon discovery of this error, it was found that the 90-day permitting clock had progressed beyond a point of reasonably referring the application to DER-CAPS.

BESD regrets this digression from the standard procedure, and trusts that the permit as issued will be acceptable to DER-CAPS.

Very truly yours,


Jerry E. Woosley
Associate Engineer

JEW/JWL/bgm

Enclosure

cc: Mr. Bill Stewart, P.E., DER
BESD Air Permitting File
BESD File 1910 Z

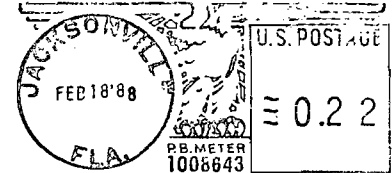
Disc: 3, 22

Copy: Bruce Mitchell } 2.22.88 (m)
CHF/BT



AREA CODE 904 / 630-3210 — NIGHTS/WEEKENDS - 630-3215
515 WEST 6TH STREET / JACKSONVILLE, FLORIDA 32206-4397

BIO-ENVIRONMENTAL SERVICES
Air and Water Pollution Control
515 West 6th Street
Jacksonville, FL 32206-4397



Mr. Bruce Mitchell
Central Air Permitting Section
Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301-8241

2-22-88
~~CAT~~
~~BE~~ } FYI
I was aware
of this ~~problem~~
no problem
in

12 Feb 1988
Jacksonville, FL

DEPARTMENT OF HEALTH, WELFARE
& BIO-ENVIRONMENTAL SERVICES
Bio-Environmental Services Division
Air and Water Pollution Control

February 17, 1988



DER

FEB 22, 1988 (m)

BAQM

Mr. Bruce Mitchell
Central Air Permitting Section
Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301-8241

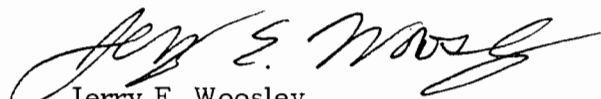
**Subject: Duval County - AP
Naval Air Station - Jacksonville
Seven (7) fuel test stands
Construction Permit No. AC16-135747**

Dear Mr. Mitchell:

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BESD regrets this digression from the standard procedure, and trusts that the permit as issued will be acceptable to DER-CAPS.

Very truly yours,


Jerry E. Woosley
Associate Engineer

JEW/JWL/bgm

Enclosure

cc: Mr. Bill Stewart, P.E., DER
BESD Air Permitting File
BESD File 1910 Z

Disc: 3, 22

Copy: Bruce Mitchell } 2.22.88 (m)
CHF/BT



PM
Feb. 12, 1988
Jacksonville, FL

File Copy

DEPARTMENT OF HEALTH, WELFARE
& BIO-ENVIRONMENTAL SERVICES
Bio-Environmental Services Division
Air and Water Pollution Control

February 11, 1988



DER

FEB 15

BAQM

Mr. Bruce Mitchell
Central Air Permitting Section
Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301-8241

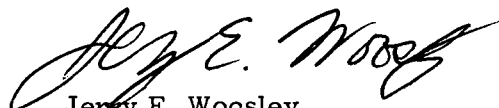
Subject: Duval County - AP
Naval Air Station - Jacksonville
Seven (7) fuel test stands
Construction Permit No. AC16-135747

Dear Mr. Mitchell:

The above referenced permit (enclosed) was issued by Bio-Environmental Services Division (BESD) and the Department of Environmental Regulation (DER) on January 7, 1988. The application for this source should have been referred to DER Central Air Permitting Section (CAPS) for processing. Upon discovery of this error, it was found that the 90-day permitting clock had progressed beyond a point of reasonably referring the application to DER CAPS.

BESD regrets this digression from the standard procedure and trusts that the permit as issued will be acceptable to DER CAPS.

Very truly yours,


Jerry E. Woosley
Associate Engineer

JEW/bgm

Enclosure

cc: Mr. Bill Stewart, P.E., DER
BESD Air Permitting File
BESD File 1910 Z

Disc: 3, 21

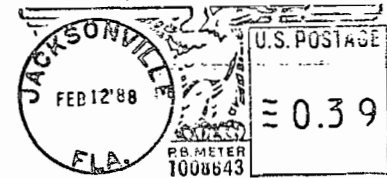
Copied: Willard Hanks }
CHF/BT } 2-15-88mr



AREA CODE 904 / 630-3210 — NIGHTS/WEEKENDS - 630-3215
515 WEST 6TH STREET / JACKSONVILLE, FLORIDA 32206-4397

BIO-ENVIRONMENTAL SERVICES

Air and Water Pollution Control
515 West 6th Street
Jacksonville, Florida 32206-4397

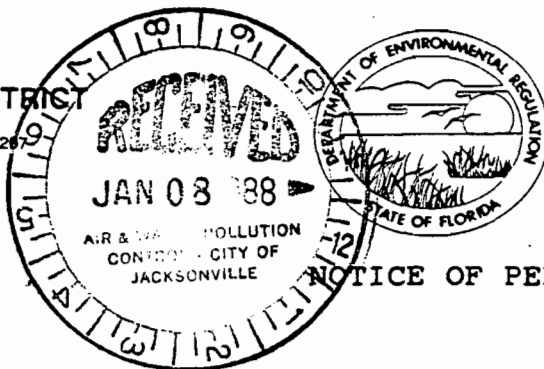


Mr. Bruce Mitchell
Central Air Permitting Section
Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301-8241

BES

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

NORTHEAST DISTRICT
3426 BILLS ROAD
JACKSONVILLE, FLORIDA 32207
904/798-4200



BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY
ERNEST E. FREY
DISTRICT MANAGER
GARY L. SHAFFER
ASSISTANT DISTRICT MANAGER

A. C. Valenti, CAPT, CEC, USN
Naval Air Station - Jacksonville
Public Works Department
Code 180, Box 5
Jacksonville, Florida 32212

Dear Captain Valenti:

Duval County - AP
Naval Air Station - Jacksonville
Seven (7) Fuel Test Stands

Enclosed is Permit Number AC16-135747, dated January 7, 1988, to construct an air pollution source, issued pursuant to Section 403.084, Florida Statutes.

Persons whose substantial interests are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing) on it. The petition must conform to the requirements of Chapters 17-103 and 28-5.201, Florida Administrative Code, (copies attached), and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of receipt of this notice. Failure to file a petition within the fourteen (14) days constitutes a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes. This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with this paragraph or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, Florida Administrative Code. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

Captain A. C. Valenti
Page Two
Permit No. AC16-135747

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed on this 7th day of January 1988 in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

Ernest E. Frey
Ernest E. Frey
District Manager

DPW
EEF:bs/ddb

Copies furnished to: Jacksonville BES
Lloyd H. Stebbins, P.E., ESE
CO, Southern Division, Charleston, SC

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on January 7, 1988 to the listed persons.

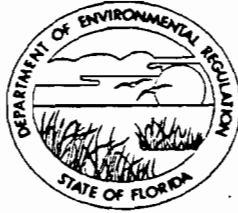
FILED, on this date, pursuant to S120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.
FILING AND ACKNOWLEDGEMENT
Date _____ Clerk _____

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to S120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.
Date 1/7/88 Clerk *W. Kelley*

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

NORTHEAST DISTRICT

3426 BILLS ROAD
JACKSONVILLE, FLORIDA 32207
904/798-4200



BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY
ERNEST E. FREY
DISTRICT MANAGER
GARY L. SHAFFER
ASSISTANT DISTRICT MANAGER

Permittee:

Department of the Navy
Naval Air Station
Public Works Department
Code 180, Box 5
Jacksonville, FL 32212

LD. Number:

Permit/Certification Number:

Date of Issue:

Expiration Date:

County:

Latitude/Longitude:

UTM:

Project:

31-16-0215(38,39,40)
AC16-135747
January 7, 1988
November 30, 1988
Duval
30:13:44/81:40:12
E-7435.47 N-3343.58
Seven (7) Fuel Test
Stands

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-2 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

For the construction of seven (7) fuel test stands using Stoddard solvent. Emissions are vented through three (3) twenty-six foot (26') stacks to the ambient air.

Emission point(s) shall be as follows:

<u>Point</u>	<u>Source</u>
38	Emission Point "A", Five (5) Test Stands
39	Emission Point "B", One (1) Test Stand
40	Emission Point "C", One (1) Test Stand

Located at Building 795 (S.E.) Naval Air Station, Jacksonville, FL 32212

Supporting documents shall be as follows:

- (1) Construction permit application dated March 30, 1987
- (2) Additional information received on June 5, 1987
- (3) Notice of Proposed Agency Action on Permit Application published October 15, 1987
- (4) Proof of Publication of Proposed Agency Action on Permit Application received November 23, 1987

Permittee:

Department of the Navy
Naval Air Station

LD. Number:

Permit/Certification Number:

Date of Issue:

Expiration Date:

31-16-0215(38,39,40)

AC16-135747

January 7, 1988

November 30, 1988

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants, or representatives.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life, or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.
6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
 - a. Having access to and copying any records that must be kept under the conditions of the permit;
 - b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with, or will be unable to comply with, any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:
 - a. A description of and cause of non-compliance; and
 - b. the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

Permittee:

LD. Number:

31-16-0215(38,39,40)

Permit/Certification Number:

AC16-135747

Department of the Navy

Date of Issue:

January 7, 1988

Naval Air Station

Expiration Date:

November 30, 1988

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.
10. The permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or department rules.
11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.
12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)
 - () Compliance with New Source Performance Standards
14. The permittee shall comply with the following monitoring and record keeping requirements:
 - a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.
 - b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report, or application unless otherwise specified by department rule.
 - c. Records of monitoring information shall include:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses
5. When requested by the department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the department, such facts or information shall be submitted or corrected promptly.

Permittee:

Department of the Navy
Naval Air Station

LD. Number:

Permit/Certification Number:

Date of Issue:

Expiration Date:

31-16-0215(38,39,40)

AC16-135747

January 7, 1988

November 30, 1988

SPECIFIC CONDITIONS:

1. The construction of this installation shall be completed on or before May 31, 1988.
The operation permit application shall be submitted on or before August 31, 1988.
2. Any revision(s) to a permit (and application) shall be submitted and approved prior to implementing.
3. Stack sampling ports and platforms shall not be required.
4. Permittee shall submit an annual operation report to BESD for each source listed herein on the form supplied for each calendar year on or before March 1, in accordance with Rule 17-4.140, FAC.

5. The applicable emission limiting rules shall be as follows:

<u>PT. NO.</u>	<u>POLLUTANT</u>	<u>¹FAC</u>	<u>²JEPB</u>	<u>OTHER</u>
38	Volatile Organic Compounds (VOC)	17-2.620(1)	2.205(b)	
	Objectionable Odors (OO)	17-2.620(2)	2.205(a)	
39	VOC	17-2.620(1)	2.205(b)	
	OO	17-2.620(2)	2.205(a)	
40	VOC	17-2.620(1)	2.205(b)	
	OO	17-2.620(2)	2.205(a)	

6. The maximum allowable emissions shall be as follows:


<u>Pt. No.</u>	<u>Pollutant</u>	<u>lbs/hr</u>	<u>T/yr</u>	<u>Other</u>	<u>Opacity</u>
38	VOC	0.476	2.08		
	OO			None allowed	
39	VOC	0.111	0.486		
	OO			None allowed	
40	VOC	0.038	0.166		
	OO			None allowed	

7. Operation for each source shall be limited as follows:

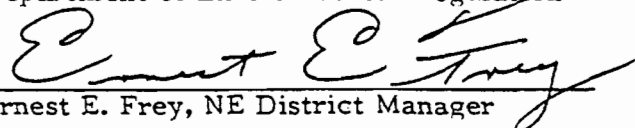
<u>Pt. No.</u>	<u>Hours Per Year</u>
38	8760
39	8760
40	8760

8. The Department of the Navy shall maintain monthly records of the total amount of Stoddard solvent used in the seven (7) stands, and the total solvent reclaimed for disposal. These records shall be retained for a minimum period of two (2) years, and shall be made available to BESD upon request.

City of Jacksonville
Bio-Environmental Services Division


Donald C. Bayly, Division Chief

State of Florida
Department of Environmental Regulation


Ernest E. Frey, NE District Manager

¹ Florida Administrative Code

² Jacksonville Environmental Protection Board
(Disc: 11, 34 & 35)

4 Pages Attached

Page 4 of 4

P 408 530 528

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to J. B. Emison, Jr., Capt. CEC,	
Street, City, State, and ZIP Code USN, Acting Comm. Officer Mayport Naval Station	
P.O., State and ZIP Code Mayport, FL 32233	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date 3/24/87 AC 16-121383	

PS Form 3800, Feb. 1982

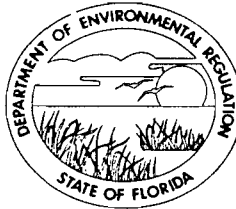
PS Form 3811, July 1983 447-845

<p>SENDER: Complete items 1, 2, 3 and 4.</p> <p>Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. <u>The return receipt fee will provide you the name of the person delivered to and the date of delivery.</u> For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.</p>	
<p>1. <input checked="" type="checkbox"/> Show to whom, date and address of delivery.</p> <p>2. <input type="checkbox"/> Restricted Delivery.</p>	
<p>3. Article Addressed to: J. B. Emison, Jr., Capt. CEC, USN Acting Commanding Officer Mayport Naval Station Mayport, FL 32233</p>	
<p>4. Type of Service:</p> <p><input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail</p>	<p>Article Number P 408 530 528</p>
<p>Always obtain signature of addressee <u>or</u> agent and DATE DELIVERED.</p>	
<p>5. Signature — Addressee X</p>	
<p>6. Signature — Agent X <i>Billy Boyd</i></p>	
<p>7. Date of Delivery</p>	
<p>8. Addressee's Address (<i>ONLY if requested and fee paid</i>)</p>	

DOMESTIC RETURN RECEIPT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT

J. B. Emison, Jr., Capt. CEC, USN
Acting Commanding Officer
Mayport Naval Station
Mayport, Florida 32233

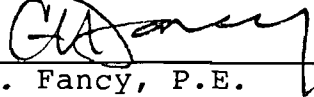
March 24, 1987

Enclosed is Permit Number AC 16-121383 to Mayport Naval Station which authorizes the construction of a 2.1×10^6 Btu/hr low pressure hotwater boiler using No. 2 fuel oil at your existing facility in Duval County, Florida. This permit is issued pursuant to Section 403, Florida Statutes.

Any Party to this permit has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this permit is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION


C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality
Management

Copy furnished to:

K. Mehta
W. P. Stewart
G. Bradley
H. A. McKim

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on March 24, 1987 to the listed persons.

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to
§120.52(9), Florida Statutes, with
the designated Department Clerk,
receipt of which is hereby
acknowledged.

A Bruce Mitchell
Clerk

3/24/87
Date

Final Determination

Mayport Naval Station
Duval County
Jacksonville, Florida

Permit Number:
AC 16-121383

Florida Department of Environmental Regulation
Bureau of Air Quality Management
Central Air Permitting

March 18, 1987

Final Determination

The construction application has been reviewed by the department. Public Notice of the department's Intent to Issue was published in the Florida Times-Union on February 27, 1987. The Technical Evaluation and Preliminary Determination were available for public inspection at the Northeast District office, the Duval County Department of Health, Welfare and Bio-Environmental Service (BESD), and the Bureau of Air Quality Management.

Mayport Naval Station and Mr. Jerry Woosley (BESD) submitted comments on the draft permit to the bureau on February 19, 1987. Their comments and the bureau's responses will follow.

Mayport's comments:

1. Florida Administrative Code (FAC) Rule 17-2.600(6), Emission Limiting and Performance Standards, does not apply to this source. The source is a "hot water boiler" used for space heating and is not a "fossil fuel steam generator" as specified by the above rule. The applicable rule is 17-2.610(2).
2. This source should not be subject to BACT since 17-2.600 is not applicable.
3. The requirement for opacity should be 20% as specified in 17-2.610(2).

Mr. Woosley's comments:

1. Specific Condition (S.C.) No. 2:
The fuel oil sulphur content test method should be specified. ASTM D 1266 or other applicable ASTM method is recommended.
2. S.C. No. 3:
The visible emission limit as determined by the BACT determination should be specified (i.e., 5% opacity continuous) and the test method (DER No. 9) should be specified in the permit. The BESD should be notified of the test date in lieu of the N.E. District office.
3. S.C. No. 5:
The operation permit application should be submitted to BESD in lieu of the N.E. District office.

The department has approved these changes and which have been addressed in the specific conditions of the Final Determination. Also, the department does not feel it is necessary for Mayport

Naval Station to submit documentation of contemporaneous emissions for 1984 and 1985 since the proposed construction is a minor source.

The final action of the department will be to issue the construction permit as amended.

-)

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY

PERMITTEE:
Mayport Naval Station
Mayport, Florida 32233

Permit Number: AC 16-121383
Expiration Date: September 30, 1989
County: Duval
Latitude/Longitude: 30° 23' 12" N
81° 24' 24" W
Project: Boiler B-1, 2.1 x 10⁶
Btu/hr Hotwater Boiler

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

Installation of a 2.1 x 10⁶ Btu/hr low pressure hotwater boiler, using No. 2 fuel oil.

The project shall be in accordance with the attached permit application, plans, documents, and drawings, except as noted in the specific conditions of this permit.

Attachments:

1. Application to Construct Air Pollution Sources, DER Form 17-1.202(1), received July 15, 1986.
2. Don Summerfield's letter of incompleteness dated July 9, 1986.
3. D. R. Spell's letter of response dated October 31, 1986.

PERMITTEE:
Mayport Naval Station

Permit Number: AC 16-121383
Expiration Date: September 30, 1989

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.

PERMITTEE:
Mayport Naval Station

Permit Number: AC 16-121383
Expiration Date: September 30, 1989

GENERAL CONDITIONS:

6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:
Mayport Naval Station

Permit Number: AC 16-121383
Expiration Date: September 30, 1989

GENERAL CONDITIONS:

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

10. The permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or department rules.

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

- () Determination of Best Available Control Technology (BACT)
- () Determination of Prevention of Significant Deterioration (PSD)
- () Compliance with New Source Performance Standards.

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:
Mayport Naval Station

Permit Number: AC 16-121383
Expiration Date: September 30, 1989

GENERAL CONDITIONS:

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

15. When requested by the department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the department, such facts or information shall be submitted or corrected promptly.

SPECIFIC CONDITIONS:

- 1. Except as required pursuant to these specific conditions, the proposed hotwater generator construction shall be carried out in accordance with the statements in the application.
- 2. The sulfur content of No. 2 fuel oil to be burned in the proposed generator shall not exceed 0.3 percent by weight. The fuel analysis reports of the oil used shall be recorded and these records shall be kept for a minimum of two years for regulatory agency inspection. ASTM D 1266 Method should be used to determine the fuel oil sulfur content.

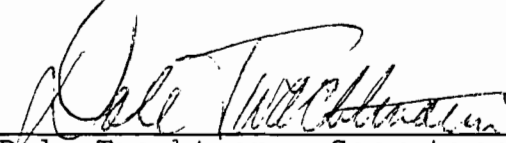
PERMITTEE:
Mayport Naval Station

Permit Number: AC 16-121383
Expiration Date: September 30, 1989

SPECIFIC CONDITIONS:

3. The test visible emissions shall be accomplished at 90 to 100 percent of the design capacity. The permittee shall notify DER's Northeast District office 15 days prior to the compliance test.
4. No. 2 fuel oil consumption in this hotwater generator shall not exceed 15.4 gallons per hour.
5. Visible emissions shall not be greater than 20% opacity as demonstrated in Rule 17-2.610(2)(a). FAC, in accordance with DER Method 9 (Rule 17-2.700(b)(A)9, FAC).
6. A complete operation permit application, with a compliance test and oil analysis report, shall be submitted to the Bio-Environmental Service Division 90 days prior to expiration of the construction permit.

Issued this 23 day of March 1987
STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION


Dale Twachtman, Secretary

_____ pages attached.

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION



Interoffice Memorandum

TO: Dale Twachtmann
THRU: Howard Rhodes *HR*
FROM: Clair Fancy *CAF* ← CALL WHEN SIGNED 8-1344
DATE: March 18, 1987
SUBJ: Approval of Air Construction Permit

FOR ROUTING TO OTHER THAN THE ADDRESSEE

TO: _____	LOCTN: _____
TO: _____	LOCTN: _____
TO: _____	LOCTN: _____
FROM: _____	DATE: _____

Attached for your approval and signature is an air construction permit for **Mayport Naval Station** to authorize the construction of a 2.1×10^6 Btu/hr low pressure hot water heater using No. 2 fuel oil at the applicant's existing facility in Jacksonville, Duval County, Florida. There have been no controversies regarding this permit.

Day 90, after which the permit would be issued by default, is March 27, 1987.

The bureau recommends your approval and signature.

CF/ks

Attachment

PM
3-5-87
Jax, FL

**DEPARTMENT OF HEALTH, WELFARE
& BIO-ENVIRONMENTAL SERVICES**
Bio-Environmental Services Division
Air and Water Pollution Control

DER

MAR 6 1987

BAQM



Mr. Bill Thomas, P.E.
Bureau of Air Quality Management
Department of Environmental Regulation
2600 Blair Stone Road
Twin Towers Office Bldg.
Tallahassee, Florida 32301

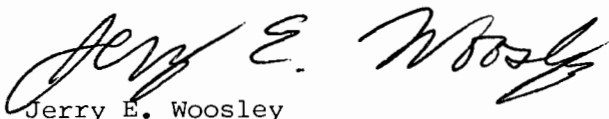
Re: Department of the Navy
Mayport, Florida
Hot Water Boiler

Dear Mr. Thomas:

The Bio-Environmental Services Division (BESD) supports the captioned facilities comments in the enclosed letter except for comment No. 4. Although the boiler is small the Naval Station is a major facility and contemporaneous actual emission increases and decreases are important. In support of this statement the Department of the Navy constructed a classified waste incinerator at this facility during the past two years. It is possible that SO₂ emissions from the classified waste incinerator and the proposed hot water boiler could trigger PSD review.

Your attention to this matter is appreciated.

Very truly yours,



Jerry E. Woosley
Associate Pollution Control Engineer

JEW/ecr

cc: Mr. Bill Stewart, P.E., DER
Mr. Mike Goldston, US Navy
BESD 1920 I & J



AREA CODE 904 / 630-3210 — NIGHTS/WEEKENDS - 630-3215
515 WEST 6TH STREET / JACKSONVILLE, FLORIDA 32206-4397

The Florida Times-Union



Jacksonville Journal

FLORIDA PUBLISHING COMPANY

Publishers

JACKSONVILLE, DUVAL COUNTY, FLORIDA

STATE OF FLORIDA }
COUNTY OF DUVAL }Before the undersigned authority personally appeared George A. Dan

_____ who on oath says that he is
Retail Advertising Manager _____ of The Florida Times-Union, and
Jacksonville Journal, daily newspapers published at Jacksonville in Duval County,
Florida; that the attached copy of advertisement, being a _____

Legal Notice

in the matter of Notice of Intent

in the _____ Court,

was published in The Florida Times-Unionin the issues of February 27

Affiant further says that the said The Florida Times-Union and Jacksonville Journal are each newspapers published at Jacksonville, in said Duval County, Florida, and that the said newspapers have each heretofore been continuously published in said Duval County, Florida, The Florida Times-Union each day, and Jacksonville Journal each day except Sundays, and each has been entered as second class mail matter at the postoffice in Jacksonville, in said Duval County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in said newspaper.

Sworn to and subscribed before me
this 27th day of
February, A.D. 1987

[Signature]
Notary Public,
State of Florida at Large.

My Commission Expires _____

DA 444

NOTARIAL PUBLIC
My commission expires Feb. 19, 1988

PM
2-27-87
Fax, FL

DER
MAR 2 1987
BAQM

State of Florida
Department of Environmental Regulation
Notice of Intent
The Department gives notice of its intent to issue a permit to Mayport Naval Station to install a 2.1 x 106 Btu/hr low pressure hot water boiler, using No. 2 fuel oil at the applicant's facility in Jacksonville, Duval County, Florida. A determination of best available control technology (BACT) was required.
Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative determination (hearing) in accordance with Section 120.57, Florida Statutes. The petition must conform to the requirements of Chapters 17-103 and 28-5, Florida Administrative Code, and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Failure to file a petition within this time period constitutes a waiver of any right such person has to request an administrative determination (hearing) under Section 120.57, Florida Statutes.
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the proposed agency action. Therefore, persons who may not wish to file a petition may wish to intervene in the proceeding. A petition for intervention must be filed pursuant to Rule 28-5.207, Florida Administrative Code, at least five (5) days before the final hearing and be filed with the hearing officer if one has been assigned at the Division of Administrative Hearings, Department of Administration, 2009 Apalachee Parkway, Tallahassee, Florida 32301. If no hearing officer has been assigned, the petition is to be filed with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee Florida 32301. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes.
The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:
Dept. of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
Dept. of Environmental Regulation
Northeast District
3426 Billis Road
Jacksonville, Florida 32207
Duval County Dept. of Health, Welfare and Bio-Environmental Services
515 West 6th Street
Jacksonville, Florida 32206
Any person may send written comments on the proposed action to Mr. Bill Thomas at the department's Tallahassee address. All comments mailed within 14 days of the publication of this notice will be considered in the department's final determination.

DEPARTMENT OF HEALTH, WELFARE
& BIO-ENVIRONMENTAL SERVICES
Bio-Environmental Services Division



February 18, 1987

DER
FEB 19 1987
BAQM

Mr. Bill Thomas, P.E.
Bureau of Air Quality Management
Department of Environmental Regulation
2600 Blair Stone Road
Twin Towers Office Bldg.
Tallahassee, Florida 32301

Re: Mayport Naval Station
Mayport, Florida
Hot Water Boiler
Proposed Permit AC16-121383

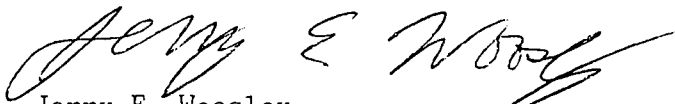
Dear Mr. Thomas.

Bio-Environmental Services Division (BESD) provides the following comments on the captioned item:

1. Specific Condition (S.C.) No. 2:
The fuel oil sulphur content test method should be specified. ASTM D 1266 or other applicable ASTM method is recommended.
2. S.C. No. 3:
The visible emission limit as determined by the BACT determination should be specified (i.e. 5% opacity continuous) and the test method (DER No. 9) should be specified in the permit. The BESD should be notified of the test date in lieu of the N.E. District office.
3. S.C. No. 5:
The operation permit application should be submitted to BESD in lieu of the N.E. District office.

Your consideration of these comments is appreciated.

Very truly yours,


Jerry E. Woosley
Associate Pollution Control Engineer

JEW/ecr

cc: Mr. Bill Stewart, P.E., DER
BESD File 1920-J



PERMITTEE:
Mayport Naval Station

Permit Number: AC 16-121383
Expiration Date: September 30, 1989

SPECIFIC CONDITIONS:

3. The test visible emissions shall be accomplished at 90 to 100 percent of the design capacity. The permittee shall notify DER's Northeast District office 15 days prior to the compliance test.

4. No. 2 fuel oil consumption in this hotwater generator shall not exceed 15.4 gallons per hour.

5. ~~Visible emissions shall not be greater than 20% opacity as demonstrated in Rule 17-2.610(2)(a)., FAC.~~ *Method 9*

6. A complete operation permit application, (with a compliance test and oil analysis report, shall be submitted ~~to the Northeast District office 90 days prior to expiration of the construction permit.~~ *To*

Issued this _____ day of _____, 19____

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

Dale Twachtmann, Secretary

_____ pages attached.

3) Visible emissions shall not be greater than 20% opacity as demonstrated in Rule 17-2.610(2)(a)., FAC. in accordance with DER Method 9 (Rule 17-2.700(6))

PERMITTEE:
Mayport Naval Station

Permit Number: AC 16-121383
Expiration Date: September 30, 1989

GENERAL CONDITIONS:

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

15. When requested by the department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the department, such facts or information shall be submitted or corrected promptly.

SPECIFIC CONDITIONS:

1. Except as required pursuant to these specific conditions, the proposed hotwater generator construction shall be carried out in accordance with the statements in the application.

2. The sulfur content of No. 2 fuel oil to be burned in the proposed generator shall not exceed 0.3 percent by weight. The fuel analysis reports of the oil used shall be recorded and these records shall be kept for a minimum of two years for regulatory agency inspection.

Also ASTM D 1268 Method should be used to determine the fuel oil Sulfur content.

Final Determination

The construction application has been reviewed by the department. Public Notice of the department's Intent to Issue was published in the Florida Times-Union on February 27, 1987. The Technical Evaluation and Preliminary Determination were available for public inspection at the Northeast office, the Duval County Department of Health, Welfare and Bio-Environmental Service, and the Bureau of Air Quality Management.

And Mr. Jerry E. Woods (oy (RES))

Mayport Naval Station submitted comments on the draft permits to the bureau on February 19, 1987. Mayport's comments and the bureau's response follow.

and Woosley's

Mayport's Comments

1. Florida Administrative Code (FAC) Rule 17-2.600(b), Emission Limiting and Performance Standards does not apply to this source. The source is a "hot water boiler" used for space heating and is not a "fossil fuel steam generator" as specified by the above rule. The applicable rule is 17-2.610(2).

2. This source should not be subject to BACT since 17-2.600 is not applicable.

3. The requirement for opacity should be 20% as specified in 17-2.610(2).

Mr. Woosley's Comments :- *list # 1, 2 and 3 as listed in Attached Paper*

↓ The department has approved these changes and which have been addressed in the specific conditions of the Final Determination. Also the department does not feel it is necessary for Mayport Naval Station to submit documentation of contemporaneous emissions for 1984 and 1985 since the proposed construction is a small source.

The final action of the Department will be to issue construction permit as amended.

PM
2-18-87
Fax, FL

**DEPARTMENT OF HEALTH, WELFARE
& BIO-ENVIRONMENTAL SERVICES**
Bio-Environmental Services Division



February 18, 1987

DER
FEB 19 1987
BAQM

Mr. Bill Thomas, P.E.
Bureau of Air Quality Management
Department of Environmental Regulation
2600 Blair Stone Road
Twin Towers Office Bldg.
Tallahassee, Florida 32301

Re: Mayport Naval Station
Mayport, Florida
Hot Water Boiler
Proposed Permit AC16-121383

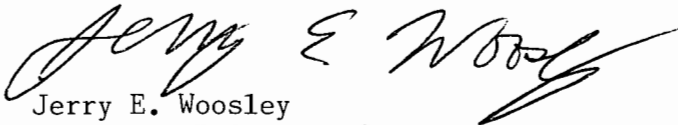
Dear Mr. Thomas.

Bio-Environmental Services Division (BESD) provides the following comments on the captioned item:

1. Specific Condition (S.C.) No. 2:
The fuel oil sulphur content test method should be specified. ASTM D 1266 or other applicable ASTM method is recommended.
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3. S.C. No. 5:
The operation permit application should be submitted to BESD in lieu of the N.E. District office.

Your consideration of these comments is appreciated.

Very truly yours,


Jerry E. Woosley
Associate Pollution Control Engineer

JEW/ecr

cc: Mr. Bill Stewart, P.E., DER
BESD File 1920-J



Bill - 2/19/87

Maker has a
copy -

Please return for
file
Patry



PM
2-17-87
Charleston, S.C.
DEPARTMENT OF THE NAVY

SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
2155 EAGLE DR., P. O. BOX 10068
CHARLESTON, S. C. 29411-0068

PLEASE ADDRESS REPLY TO THE
COMMANDING OFFICER, NOT TO
THE SIGNER OF THIS LETTER.
REFER TO:

5090
Code 1141/P1

DER
FEB 19 1987
BAQM
13 FEB 1987

Mr. Bill Thomas
Sr. Permitting Engineer
Department of Environmental Regulation
Central Air Permitting
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301

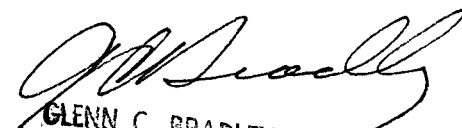
Dear Mr. Thomas:

This letter is in reference to the application for a Permit DER File No. AC 16-121383 for a 2.1 MMBTU/HR Hot Water Boiler for Naval Station, Mayport, Florida. The following comments are provided regarding this application.

1. Florida Administrative Code (FAC) Rule 17-2.600(6) - Emission Limiting and Performance Standards does not apply to this source. The source is a "hot water boiler" used for space heating and is not a "Fossil Fuel Steam Generator" as specified by the above rule. The applicable rule is 17-2.610(2).
2. This source should not be subject to BACT since 17-2.600 is not applicable.
3. The requirement for opacity should be 20% as specified in 17-2.610(2).
4. The requirement specified by Bio-Environmental Services Division in Jacksonville, Florida by letter to the Navy dated July 9, 1986, and part of this application, required documentation of contemporaneous emissions for 1984 and 1985. The annual emissions inventories for those years were submitted to you, however, the requirement of this information is questionable. Please provide reference to the applicable rule requiring this documentation.

We would appreciate your consideration of the comments above. If you have any question, please call Mr. G. M. Goldston at (803) 743-0554.

Sincerely,


GLENN C. BRADLEY, P.E.
Acting Head, Environmental Branch

Copy to:
CO NAVSTA MAYPORT, FL (Mr. Jose Negrón)
Bio-Environmental Services Division

2/19/87

Bill

Maiker & Johnny
cole copied

Please return
for file

Patty

DEPARTMENT OF ENVIRONMENTAL REGULATION

**ROUTING AND
TRANSMITTAL SLIP**

ACTION NO

ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION)

Initial

Date

2. *Commanding Officer*
Southern Division

Initial

Date

3. *Naval Facilities - Engineering Command*

Initial

Date

4. *P.O. Box 10068*

Initial

Date

Charleston, S.C. 29411

REMARKS:

*Attn. Code: 1141**(803) 743-0584**Glen Bradley*

INFORMATION

Review & Return

Review & File

Initial & Forward

Dear Sir:

Please find enclosed a copy
of the TE + PD for the 2.1x
10⁶ Btu Boiler for Mayport NAS.

If the bureau can be of further
assistance, please give us a call.

Sincerely,

DISPOSITION

Review & Respond

Prepare Response

For My Signature

For Your Signature

Let's Discuss

Set Up Meeting

Investigate & Report

Initial & Forward

Distribute

Concurrence

For Processing

Initial & Return

FROM:

R Bruce Mitchell

DATE

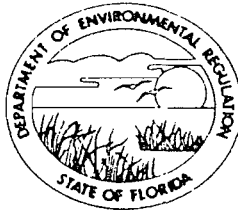
1-27-87

PHONE

(404) 488-1344

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY

January 16, 1986 *7*

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

J. B. Emison, Jr., Capt. CEC, USN
Acting Commanding Officer
Mayport Naval Station
Mayport, Florida 32233

Dear Capt. Emison:

Attached is one copy of the Technical Evaluation and Preliminary Determination, and proposed permit to construct a 2.1×10^6 Btu/hr hot water boiler at your existing facility in Jacksonville, Duval County, Florida.

Please submit, in writing, any comments which you wish to have considered concerning the department's proposed action to Mr. Bill Thomas of the Bureau of Air Quality Management.

Sincerely,

C. H. Fancy
C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality
Management

CHF/pa

Attachments

cc: Khurshid Mehta
W. P. Stewart

**UNITED STATES POSTAL SERVICE
OFFICIAL BUSINESS**



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• Endorse article "Return Receipt Requested" adjacent to number.

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DER
JAN 29 1987
BAQM

Dept. of Environmental Regulation
BAQM (Name of Sender)
2600 Blair Stone Road
(No. and Street, Apt., Suite, P.O. Box or R.D. No.)
Tallahassee, FL 32399-2400
(City, State, and ZIP Code)
Attn: Patty Adams

PS Form 3800, Feb. 1982

Sent to Capt. J. B. Emison	
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P.O., State and ZIP Code	
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State of Florida
Department of Environmental Regulation
Notice of Intent

The Department gives notice of its intent to issue a permit to Mayport Naval Station to install a 2.1×10^6 Btu/hr low pressure hot water boiler, using No. 2 fuel oil at the applicant's facility in Jacksonville, Duval County, Florida. A determination of best available control technology (BACT) was required.

Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative determination (hearing) in accordance with Section 120.57, Florida Statutes. The petition must conform to the requirements of Chapters 17-103 and 28-5, Florida Administrative Code, and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Failure to file a petition within this time period constitutes a waiver of any right such person has to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the proposed agency action. Therefore, persons who may not wish to file a petition may wish to intervene in the proceeding. A petition for intervention must be filed pursuant to Rule 28-5.207, Florida Administrative Code, at least five (5) days before the final hearing and be filed with the hearing officer if one has been assigned at the Division of Administrative Hearings, Department of Administration, 2009, Apalachee Parkway, Tallahassee, Florida 32301. If no hearing officer has been assigned, the petition is to be filed with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32301. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes.

The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Dept. of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Dept. of Environmental Regulation
Northeast District
3426 Bills Road
Jacksonville, Florida 32207

Duval County Dept. of Health, Welfare and
Bio-Environmental Services
515 West 6th Street
Jacksonville, Florida 32206

Any person may send written comments on the proposed action to Mr. Bill Thomas at the department's Tallahassee address. All comments mailed within 14 days of the publication of this notice will be considered in the department's final determination.

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of
Application for Permit by:

Mayport Naval Station
Mayport, Florida 32233

DER File No. AC 16-121383

INTENT TO ISSUE

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit (copy attached) for the proposed project as detailed in the application specified above. The Department is issuing this Intent to Issue for the reasons stated in the attached Technical Evaluation and Preliminary Determination.

The applicant, Mayport Naval Station, applied on July 15, 1986, to the Department of Environmental Regulation for a permit to install a 2.1×10^6 Btu/hr hot water boiler at the applicant's facility in Jacksonville, Duval County, Florida.

The Department has permitting jurisdiction under Chapter 403, Florida Statutes and Florida Administrative Code Rules 17-2 and 17-4. The project is not exempt from permitting procedures. The Department has determined that an air construction permit was needed for the proposed work.

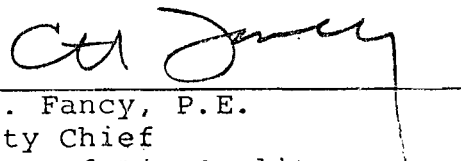
Pursuant to Section 403.815, F.S. and DER Rule 17-103.150, FAC, you (the applicant) are required to publish at your own expense the enclosed Notice of Proposed Agency Action on permit application. The notice must be published one time only in a section of a major local newspaper of general circulation in the county in which the project is located and within thirty (30) days from receipt of this intent. Proof of publication must be provided to the Department within seven days of publication of

the notice. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

The Department will issue the permit with the attached conditions unless petition for an administrative proceeding (hearing) is filed pursuant to the provisions of Section 120.57, F.S. A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. Petitions must comply with the requirement of Florida Administrative Code Rules 17-103.155 and 28-5.201 (copies enclosed) and be filed with (received by) the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permit applicant must be filed within fourteen (14) days of receipt of this intent. Petitions filed by other persons must be filed within fourteen (14) days of publication of the public notice or within fourteen (14) days of receipt of this intent, whichever first occurs. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes, concerning the subject permit application. Petitions which are not filed in accordance with the above provisions will be dismissed.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality
Management

Copies furnished to:

J. B. Emison, Jr., Capt. CEC, USN
Khurshid Mehta
W. P. Stewart

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF INTENT TO ISSUE and all copies were mailed before the close of business on Jan. 20, 1947.

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to
§120.52(9), Florida Statutes, with
the designated Department Clerk,
receipt of which is hereby
acknowledged.

Patricia G. Adams 1/20/47
Clerk Date

RULES OF THE ADMINISTRATIVE COMMISSION
MODEL RULES OF PROCEDURE
CHAPTER 28-5
DECISIONS DETERMINING SUBSTANTIAL INTERESTS

28-5.15 Requests for Formal and Informal Proceedings

- (1) Requests for proceedings shall be made by petition to the agency involved. Each petition shall be printed, typewritten or otherwise duplicated in legible form on white paper of standard legal size. Unless printed, the impression shall be on one side of the paper only and lines shall be double spaced and indented.
- (2) All petitions filed under these rules should contain:
 - (a) The name and address of each agency affected and each agency's file or identification number, if known;
 - (b) The name and address of the petitioner or petitioners;
 - (c) All disputed issues of material fact. If there are none, the petition must so indicate;
 - (d) A concise statement of the ultimate facts alleged, and the rules, regulations and constitutional provisions which entitle the petitioner to relief;
 - (e) A statement summarizing any informal action taken to resolve the issues, and the results of that action;
 - (f) A demand for the relief to which the petitioner deems himself entitled; and
 - (g) Such other information which the petitioner contends is material.

DER1985 RULES OF ADMINISTRATIVE PROCEDURE - NON-RULEMAKING 17-103

of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32301. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to an administrative determination (hearing) under Section 120.57, F.S.

(4) Notice to substantially affected persons concerning applications for Department permits is an essential and integral part of the state environmental licensing process. Therefore, no application for a permit for which publication of notice is required shall be granted until and unless proof of publication of Notice is furnished to the appropriate Department permitting office.

(5)(a) Any applicant or person benefiting from the Department's action may elect to publish notice of proposed agency action in the manner provided by subsection (2) or (3). Any person who elects to publish notice of proposed agency action, upon presentation of proof of publication to the Department, prior to final agency action, shall be entitled to the same benefits under this rule as a person who is required to publish notice of proposed agency action. Since persons whose substantial interests are affected by a Department decision on a permit application may petition for an administrative proceeding within fourteen (14) days after receipt of notice and since, unless notice is given or published as prescribed in this rule, receipt of notice can occur at any time, the applicant or persons benefiting from the Department's action cannot justifiably rely on the finality of

the Department's decision without the notice having been duly given or published.

(b) The notices required by this rule may be combined with other notices required by the Department pursuant to Chapter 403, 376, or 253, F.S., or Chapter 17, FAC.

(c) The provisions of this section shall also apply to the permitting of hazardous waste facilities, but only to the extent it is consistent with Chapter 17-30, Part IV, FAC. Whenever Chapter 17-30, Part IV, FAC, provides for a different time or notice procedure than that set forth in this section the time and notice provisions of Chapter 17-30 shall govern.

(6) Failure to publish any notice of application, notice of proposed agency action, or notice of agency action required by the Department shall be an independent basis for the denial of a permit.

Specific Authority: 120.53, 403.0876, 403.815, F.S. Law

Implemented: 120.53, F.S.

History: New 9-20-79, Amended 4-28-81, Transferred from 17-1.62 and Amended 6-1-84.

17-103.155 Petition for Administrative Hearing; Waiver of Right to Administrative Proceeding.

(1)(a) Any person whose substantial interests may be affected by proposed or final agency action may file a petition for administrative proceeding. A petition shall be in the form required by this Chapter and Chapter 28-5, FAC, and shall be filed (received) in the Office of General Counsel of the Department within fourteen (14) days of receipt of notice of proposed agency action or within fourteen (14) days of receipt of notice of

agency action whenever there is no public notice of proposed agency action. In addition to the requirements of Rule 28-5.201, FAC, the Petition must specify the county in which the project is or will be located.

(b) Failure to file a petition within fourteen (14) days of receipt of notice of agency action or fourteen (14) days of receipt of notice of proposed agency action, whichever notice first occurs, shall constitute a waiver of any right to request an administrative proceeding under Chapter 120, F.S.

(c) When there has been no publication of notice of agency action or notice of proposed agency action as prescribed in Rule 17-103.150, FAC, a person who has actual knowledge of the agency action or has knowledge which would lead a reasonable person to conclude that the Department has taken final agency action, has a duty to make further inquiry within fourteen (14) days of obtaining such knowledge by contacting the Department to ascertain whether action has occurred. The Department shall upon receipt of such an inquiry, if agency action has occurred, promptly provide the person with notice as prescribed by Rule 17-103.150, FAC. Failure of the person to make inquiry with the Department within fourteen (14) days after obtaining such knowledge may estop the person from obtaining an administrative proceeding on the agency action.

(2)(a) "Receipt of notice of agency action" means receipt of written notice of final agency action, as prescribed by Department rule, or the publication, pursuant to Department rule, of notice of final agency action, whichever first

occurs.

(b) "Receipt of notice of proposed agency action" means receipt of written notice (such as a letter of intent) that the Department proposes to take certain action, or the publication pursuant to Department rule of notice of proposed agency action, whichever first occurs.

(3) Notwithstanding any other provision in this Chapter, should a substantially affected person who fails to timely request a hearing under Section 120.57, F.S., administratively appeal the final Department action or order, the record on appeal should be limited to:

(a) the application, and accompanying documentation submitted by the applicant prior to the issuance of the agency's intent to issue or deny the requested permit.

(b) the materials and information relied upon by the agency in determining the final agency action or order;

(c) any notices issued or published; and

(d) the final agency action or order entered concerning the permit application.

(4) In such cases where persons do not timely exercise their rights accorded by Section 120.57(1), Florida Statutes, the allegations of fact contained in or incorporated by the final agency action shall be deemed uncontested and true, and appellants may not dispute the truth of such allegations upon subsequent appeal.

(5) Any applicant may challenge the Department's request for additional information by filing with the Office of General Counsel an appropriate petition for administrative proceeding pursuant to Section 120.60, F.S., following receipt by

the applicant of the Department's notification, pursuant to Section 403.0876, F.S., that additional information is required.

Specific Authority: 120.53, 403.0876, 403.815, F.S. Law

Implemented: 120.53, F.S.

History: New 9-20-79, Amended

4-28-81, Transferred from 17-1.62 and Amended 6-1-84.

17-103.160 Uniformity in Approval and Denial of Applications for Department Permits and Certifications. To the extent possible and consistent with the public interest, the Department approves and denies applications for permits and certifications on a uniform and consistent basis. Final Department actions on applications for permits and certifications shall be consistent with prior Department actions, unless deviation therefrom is explained by the Department in writing or the hearing officer who submits a recommended order to the Department for final agency action in accordance with Section 120.57, Florida Statutes.

Specific Authority: 120.53(1), F.S. Law Implemented: 120.53(1), 120.68(12), F.S. History: New 2-6-78, Transferred from 17-1.63, 6-1-84.

17-103.170 Designation, Preparation and Transmittal of Record for Administrative Appeals.

When any Department action or order is the subject of an administrative appeal under Chapter 17-103, Part II, FAC, the following requirements shall apply:

(1) Designation of Record. Within fifteen (15) days of rendition of the Department's final order, the appellant shall designate

to the Department, in writing, with copies to other parties, those documents or things under the control of or in the possession of the Department which the appellant desires to have included in the record, and which were received or considered in the Department proceeding below. If a proceeding was reported by mechanical recording devices, the appellant shall designate those portions of the proceeding for which it requires written transcription or tapes for transcription. Any other party may designate other portions of the record in the manner provided herein. Such cross-designation shall be filed with the Department, with copies provided other parties, within seven (7) days after receipt of the designation by the appellant.

(2) Original Record. The Department shall thereupon include in the record all of the designated portions of the original papers and exhibits in the proceedings or matter from which administrative appeal is taken, together with a copy of any such parts of the proceedings as were stenographically reported or transcribed from tapes, and as have been designated by the parties and certified by a notary public, the reporter, or other officer for inclusion in the record on appeal or review, and certified copies of the order, if any, of which review is sought. The Department may, at its discretion, substitute certified copies for original papers or documents in its possession.

(3) Preparation of Record. Upon tender or deposit by appellant of the estimated cost of preparation, the Department shall prepare the record in accordance with the designations of the parties. The cost of preparation, and reproduction,

Technical Evaluation
and
Preliminary Determination

Mayport Naval Station
Duval County
Mayport, Florida

Permit Number:
AC 16-121383

Florida Department of Environmental Regulation
Bureau of Air Quality Management
Central Air Permitting

January 16, 1987

I. Project Description

A. Applicant

J. B. Emison, Jr., Capt., CEC, USN
Acting Commanding Officer
Mayport Naval Station
Mayport, Florida 32233

B. Project and Location

The applicant proposes to install a 2.1×10^6 Btu/hr low pressure hot water boiler for general heating in warehouse and administrative areas, using No. 2 fuel oil. This facility will result in full compliance.

It is anticipated that the operation of the boiler B-1, 2.1×10^6 Btu/hr, will satisfy the heat demands most of the time.

The existing facility is located at Massey Avenue, Naval Station in Jacksonville, Florida, with UTM coordinates of 460961m E and 3361442m N.

II. Rule Applicability

The proposed project is subject to preconstruction review under the provisions of Chapter 403, Florida Statutes and Chapter 17-2, Florida Administrative Code.

The proposed facility is located in Duval County, which is an area designated nonattainment for the pollutant ozone in accordance with FAC Rule 17-2.410(1)(a).

The proposed source shall be permitted under Rule 17-2.520, Sources Not Subject to Prevention of Significant Deterioration of Nonattainment Requirements, and shall comply with Rule 17-2.610(2), FAC, General Particulate Emission Limiting Standards.

III. Source Impact Analysis

A. Emission Limitation

The air pollutants emitted from the proposed boiler B-1 will be particulate matter, SO_2 , SO_3 , NO_2 , CO, THC nonmethane, and THC methane. The maximum sulfur content of the No. 2 fuel oil will be 0.3 percent.

The following table summarizes potential to emit all pollutants regulated under the act which are effected by the proposed project. As the table shows, there is not a significant emission increase of any pollutant.

Pollutant	lbs/yr	T/yr
Particulate Matter	0.031	0.136
SO ₂	0.656	2.873
SO ₃	0.009	0.040
NO ₂	0.077	0.337
CO	0.308	1.349
THC nonmethane	0.005	0.022
THC methane	0.003	0.013

B. Air Quality Analysis

From a technical review of the application, the department has determined that the construction and operation of this source will not have a significant impact on Florida's ambient air quality standards.

IV. Conclusion

Based on an evaluation of the application, the department concludes that the proposed source will comply with related state air regulations, provided certain specific conditions are met. The General and Specific conditions are listed in the attached draft state permit.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ
GOVERNOR

DALE TWACHTMANN
SECRETARY

PERMITTEE:
Mayport Naval Station
Mayport, Florida 32233

Permit Number: AC 16-121383
Expiration Date: September 30, 1989
County: Duval
Latitude/Longitude: 30° 23' 12" N
81° 24' 24" W
Project: Boiler B-1, 2.1 x 10⁶
Btu/hr Hotwater Boiler

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

Installation of a 2.1 x 10⁶ Btu/hr low pressure hotwater boiler, using No. 2 fuel oil.

The project shall be in accordance with the attached permit application, plans, documents, and drawings, except as noted in the specific conditions of this permit.

Attachments:

1. Application to Construct Air Pollution Sources, DER Form 17-1.202(1), received July 15, 1986.
2. Don Summerfield's letter of incompleteness dated July 9, 1986.
3. D. R. Spell's letter of response dated October 31, 1986.

PERMITTEE:
Mayport Naval Station

Permit Number: AC 16-121383
Expiration Date: September 30, 1989

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.

PERMITTEE:
Mayport Naval Station

Permit Number: AC 16-121383
Expiration Date: September 30, 1989

GENERAL CONDITIONS:

6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:
Mayport Naval Station

Permit Number: AC 16-121383
Expiration Date: September 30, 1989

GENERAL CONDITIONS:

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

10. The permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or department rules.

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

- (x) Determination of Best Available Control Technology (BACT)
- () Determination of Prevention of Significant Deterioration (PSD)
- () Compliance with New Source Performance Standards.

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:
Mayport Naval Station

Permit Number: AC 16-121383
Expiration Date: September 30, 1989

GENERAL CONDITIONS:

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

15. When requested by the department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the department, such facts or information shall be submitted or corrected promptly.

SPECIFIC CONDITIONS:

- 1. Except as required pursuant to these specific conditions, the proposed hotwater generator construction shall be carried out in accordance with the statements in the application.
- 2. The sulfur content of No. 2 fuel oil to be burned in the proposed generator shall not exceed 0.3 percent by weight. The fuel analysis reports of the oil used shall be recorded and these records shall be kept for a minimum of two years for regulatory agency inspection.

PERMITTEE:
Mayport Naval Station

Permit Number: AC 16-121383
Expiration Date: September 30, 1989

SPECIFIC CONDITIONS:

3. The test visible emissions shall be accomplished at 90 to 100 percent of the design capacity. The permittee shall notify DER's Northeast District office 15 days prior to the compliance test.
4. No. 2 fuel oil consumption in this hotwater generator shall not exceed 15.4 gallons per hour.
5. A complete operation permit application, with a compliance test and oil analysis report, shall be submitted to the Northeast District office 90 days prior to expiration of the construction permit.

Issued this _____ day of _____, 19____

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

Howard L. Rhodes, P.E.
Director, Division of Environmental
Programs

_____ pages attached.

Best Available Control Technology (BACT) Determination
Mayport Naval Station
Duval County

The applicant plans to install a 2.1 MMBTU/hr boiler at their facility in Jacksonville, Florida. The boiler will fire only No. 2 distillate oil and is scheduled to operate around-the-clock or 8760 hours per year.

This BACT determination is established for the source as set forth in the Florida Administrative Code Rule 17-2.600(6) - Emissions Limiting and Performance Standards.

BACT Determination Requested by the Applicant:

Particulate and sulfur dioxide emissions to be controlled by firing of low sulfur content diesel fuel oil.

Date of Receipt of a BACT application:

November 3, 1986

Review of Group Members:

The determination was based upon comments received from the Stationary Source Control Section and the Jacksonville Bio-Environmental Services Division.

Review Determined by DER:

The amount of particulate and sulfur dioxide emissions from the boiler will be limited by the firing of new [1] No.2 distillate oil having a sulfur content not to exceed 0.5 percent, by weight.

Visible Emissions	Not to exceed 5 percent opacity.
-------------------	----------------------------------

DER Method 9 (17-2.700(6)(a)9, FAC) will be used to determine compliance with the opacity standard.

[1] The term "new" means an oil which has been refined from crude oil and has not been used.

BACT Determination Rationale:

Sulfur in fuel oil is a primary air pollution concern, in that most of the fuel sulfur becomes SO₂ and particulate emissions from oil burning are related to the sulfur content. The department agrees with the applicant's proposal that the firing of No.2 diesel oil, containing 0.3 percent or less sulfur by weight, is BACT for the boiler.

The term "new oil" disallows the use of re-refined and waste oils or any non-fossil fuels which were not considered in this BACT analysis.

Details of the Analysis May be Obtained by Contacting:

Barry Andrews, P.E., BACT Coordinator
Department of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, Florida 32301

Recommended By:

C. H. Fancy, P.E., Deputy Bureau Chief

Date: _____

Approved:

Howard L. Rhodes, P.E.
Director, Division of Environmental Programs

Date: _____



DEPARTMENT OF THE NAVY

SOUTHERN DIVISION

NAVAL FACILITIES ENGINEERING COMMAND

2155 EAGLE DR., P. O. BOX 10068

CHARLESTON, S. C. 29411-0068

PLEASE ADDRESS REPLY TO THE
COMMANDING OFFICER, NOT TO
THE SIGNER OF THIS LETTER.
REFER TO:

5090

Code 1141/P1

\$1 OCT 1986

Mr. Bill Thomas
Sr. Permitting Engineer
Department of Environmental Regulation
Central Air Permitting Section
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301

Subj: BOILER B-1, 2.1×10^6 BTU/HR HOTWATER BOILER, MAYPORT NAVAL STATION

Dear Mr. Thomas:

In response to Mr. Don Summerfield's (Department of Health, Welfare & Bio-Environmental Services, Jacksonville) letter dated 9 July 1986, the following information is enclosed:

1. Three additional copies of the application, including calculations, plot diagrams and UTM coordinates.
2. Three copies of boiler specifications. Please note that specific manufacturer is not known at this time. The construction contractor will purchase a boiler based on these specifications.
3. In response to a question regarding increases or decreases in contemporaneous emissions for calendar years 1984 and 1985, annual operating reports for permits numbers A016-65591, A016-65594, A016-17873, and A016-74130 are provided.
4. Three copies of a flow diagram of the boiler and its auxiliary equipment.

This should complete our application for a permit for the subject boiler. Should you have any additional questions, please contact Mr. David Porter at (803) 743-5510.

Sincerely,

D. R. SPELL, P.E.

Head, Environmental Branch

Encl:

- (1) Application (3 copies)
- (2) Specifications (3 copies)
- (3) Operating Reports 1984 & 1985
- (4) Flow Diagram (3 copies)

DER

NOV 3 1986

BAQM



DEPARTMENT OF THE NAVY

U.S. NAVAL STATION
MAYPORT, FLORIDA 32228-5000

IN REPLY REFER TO:
5090
Code N422
16 Oct 86

Mr. Jerry Woosley
Department of Health, Welfare and
Bio-Environmental Services
515 West 6th Street
Jacksonville, Florida 32206

Subj: Annual Operating Report for Permits
No. A016-65591, A016-65594,
A016-17873, and AC16-74130, Naval
Station, Mayport, Florida

Dear Mr. Woosley:

As required by Chapter 17-4 Florida Administrative Code (FAC), subject reports are forwarded.

Should you have any questions or further information is required, please contact Mr. Jose R. Negron at 904-246-5268.

Sincerely,

A handwritten signature in cursive script, appearing to read "A. Corsano", is written above the typed name.

A. CORSANO
CDR, CEC, USN
By direction of the Commanding Officer

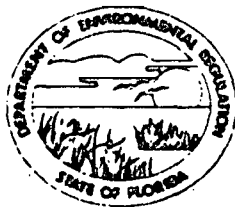
Enclosures

BEST AVAILABLE COPY

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION**

NORTHEAST DISTRICT

3426 BILLS ROAD
JACKSONVILLE, FLORIDA 32207



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

Ernest E. Prev
DISTRICT MANAGER

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 1985 prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Steam Boilers Nos. 1, 2, & 3, Building 1241
2. Permit Number: A016-65591
3. Source Address: NAVAL STATION, MAYPORT, FLORIDA 32228-0265
4. Description of Source: 66 MBTU/HR each using DFM, No. 5 Fuel Oil or Fuel Oil Reclaimed (FOR)

II ACTUAL OPERATING HOURS: 24 hrs/day 7 days/wk 52 wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight
Potable Water	<u>40,000 gal/d (average for one)</u> tons/yr
	<u>Boiler - it increases 25% per</u> tons/yr
	<u>boiler when more than one boiler</u> tons/yr
	<u>is in operation at the same time.</u> tons/yr
	tons/yr

IV PRODUCT OUTPUT (Specify applicable units)

87780 Tons of Steam (Gross)

75492 Tons of Steam (Net) after losses

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

_____ 10 ⁶ cubic feet Natural Gas	_____ 10 ³ Kerosene
687.2 10 ³ gallons FOR Oil, 0.39 %S	_____ tons Coal
_____ 10 ³ gallons Propane	_____ tons Carbonaceous
_____ 10 ⁶ Black Liquor Solids	_____ tons Refuse
Other (Specify type and units) NO. 5 Fuel Oil = 583433 gals w/0.48% S	
FOR = Fuel oil reclaimed	


VI EMISSION RATE(S) (tons/yr)

1.20	Particulates	31.87	Sulfur Dioxide	N/A	Total Reduced Sulfur
7.64	Nitrogen Oxide	1.06	Carbon Monoxide	N/A	Fluoride
N/A	Hydrocarbon	Other (Specify type and units)		Opacity less than 20%	
VOC=0.05 T/YR					

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)
Emission factors calculated using AP-42 Data
EPA Method 9 for Visible Emissions

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.


A. CORSANO, CDR, CEC, USN, PUBLIC WORKS OFFICER

SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

TYPED NAME AND TITLE

16 OCTOBER 1986

DATE

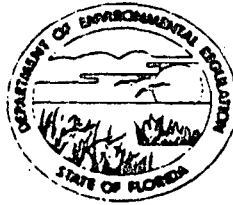
NOTE: Above emission rates were calculated using AP-42 emission factors and are for each boiler.

BEST AVAILABLE COPY

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION**

NORTHEAST DISTRICT

3426 BILLS ROAD
JACKSONVILLE, FLORIDA 32207



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

ERNEST E. FREY
DISTRICT MANAGER

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 1985 prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Steam Boilers 1 & 2, Building 250
2. Permit Number: A016-65594
3. Source Address: Naval Station, Mayport, Florida 32228-0265
4. Description of Source: 57.3 MBTU/HR each, using DFM, No. 5 Fuel or Fuel Oil Reclaimed (FOR)

II ACTUAL OPERATING HOURS: 24 hrs/day 7 days/wk 52 wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight
<u>Potable Water</u>	<u>35,000 gal/d (average for one</u> tons/yr
	<u>boiler, it increases about 20%</u> tons/yr
	<u>when the two boilers are in</u> tons/yr
	<u>operation at the same time.</u> tons/yr
	<u></u> tons/yr

IV PRODUCT OUTPUT (Specify applicable units)

26403 tons of steam (gross)

22708 tons of steam (net) after losses

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
49.50 10³ gallons DFM Oil, 0.48 %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse
Other (Specify type and units) Fuel Oil Reclaimed (FOR) 344,520 gallons with 0.32% S
PCB less than 5.0ppm

VI EMISSION RATE(S) (tons/yr)

0.197* Particulates 1.777* Sulfur Dioxide N/A Total Reduced Sulfur
0.247* Nitrogen Oxide 0.062* Carbon Monoxide N/A Fluoride
N/A Hydrocarbon Other (Specify type and units) Opacity less than 20%
VOC = 0.003

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

Emission factors calculated using AP-42 Data.
EPA method 9 for visible emissions

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.



A. CORSANO, CDR, CEC, USN PUBLIC WORKS OFFICER

SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

TYPED NAME AND TITLE

16 OCTOBER 1986

DATE

NOTE: (1) Above emission rates were calculated using AP-42 emission factors and are for each boiler.

(2)*These values are for No. 2 fuel only. No emission sources were available for waste oil.

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STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

NORTHEAST DISTRICT

3426 BILLS ROAD
JACKSONVILLE, FLORIDA 32207BOB GRAHAM
GOVERNORVICTORIA J. TSCHINKEL
SECRETARYErnest E. Frey
DISTRICT MANAGER

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 1985 prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Carbonaceous Fuel Boiler, Building 1430
2. Permit Number: A016-17873
3. Source Address: Naval Station, Mayport, Florida 32228-0265
4. Description of Source: 48 ton/day solid waste incineration/heat recovery boiler facility with afterburner and cyclone dust collector.

II ACTUAL OPERATING HOURS: 24 hrs/day 6 days/wk 52 wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight
Solid Wastes Type I & II	14976 tons/yr
Potable Water	Varies depending upon the amount tons/yr
	of ships in port (average of 1100 tons/yr
	gallons/hour)
	tons/yr
	tons/yr

IV PRODUCT OUTPUT (Specify applicable units)

16458 Tons of Steam (Gross)

FOR = Fuel Oil Reclaimed

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

10⁶ cubic feet Natural Gas 10³ Kerosene
174.50 10³ gallons FOR Oil, 0.36 %S 10³ tons Coal
10³ gallons Propane PCB less than 5.0ppm 10³ tons Carbonaceous
10⁶ Black Liquor Solids 10³ tons Refuse

Other (Specify type and units)

VOC = 111.87

VI EMISSION RATE(S) (tons/yr)


52.41 Particulates 18.65* Sulfur Dioxide N/A Total Reduced Sulfur
22.37* Nitrogen Oxide 74.58* Carbon Monoxide N/A Fluoride
N/A Hydrocarbon Other (Specify type and units) Opacity less than 20%

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

Emission factors calculated using AP-42 data
EPA Method 9 for visible emissions

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.


A. CORSANO, CDR, CEC, USN PUBLIC WORKS OFFICER

SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

16 OCTOBER 1986

DATE

TYPED NAME AND TITLE

NOTE: (1) Above emission rates were calculated using AP-42 emission factors and are for each boiler.

(2)*These values are for No. 2 Fuel Only. No emission sources were available for waste oil.

BEST AVAILABLE COPY

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION**

NORTHEAST DISTRICT

3426 BILLS ROAD
JACKSONVILLE, FLORIDA 32207



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

Ernest E. Frey
DISTRICT MANAGER

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 1985 prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Classified Waste Incinerator
2. Permit Number: AC16-74130
3. Source Address: Naval Station, Mayport, Florida 32228-0265
4. Description of Source: 575 lb/hr Type O Waste using No. 2 Fuel Oil - Model NO. CA-750-ER with RAM RC-12-96

II ACTUAL OPERATING HOURS: 8 hrs/day 7 days/wk 52 wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight	
Solid Wastes - Type O	500 max	lb/hr 500000x
	300 (average)	lb/hr 500000x
		tons/yr
		tons/yr
		tons/yr

IV PRODUCT OUTPUT (Specify applicable units)

Fly ash - 8 tons/yr max

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
36.40 10³ gallons NO. 2 Oil, 0.26 %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

VOC = 0.66 T/YR


1.53 Particulates 0.55 Sulfur Dioxide N/A Total Reduced Sulfur
0.44 Nitrogen Oxide 2.18 Carbon Monoxide N/A Fluoride
N/A Hydrocarbon Other (Specify type and units) Opacity less than 5%

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

Emission factors calculated using AP-42 data
EPA Method 9 for visible emissions.

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.


A. CORSANO, CDR, CEC, USN PUBLIC WORKS OFFICER

SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

TYPED NAME AND TITLE

16 OCTOBER 1986

DATE

NOTE: The above emission rates were calculated using AP-42 emission factors and are for each boiler.

VISIBLE EMISSION OBSERVATION FORM

SOURCE NAME Bldg 1241 Boiler #1			OBSERVATION DATE 7/14/86				START TIME 11:15				STOP TIME 12:15			
ADDRESS Mayport Naval Station			LOC M 0 15 30 45				LOC M 0 15 30 45							
CITY Jacksonville			STATE Florida				ZIP 32227							
PHONE			SOURCE ID NUMBER A016-65591											
PROCESS EQUIPMENT Boiler #1			OPERATING MODE STEAM											
CONTROL EQUIPMENT			OPERATING MODE											
DESCRIBE EMISSION POINT metal stack														
HEIGHT ABOVE GROUND LEVEL 100 ft			HEIGHT RELATIVE TO OBSERVER 100 ft											
DISTANCE FROM OBSERVER 270'			DIRECTION FROM OBSERVER North 300°											
DESCRIBE EMISSIONS Faint gray plume														
EMISSION COLOR grayish black			PLUME TYPE: CONTINUOUS <input checked="" type="checkbox"/> PUGITIVE <input type="checkbox"/> INTERMITTENT <input type="checkbox"/>											
WATER DROPLETS PRESENT NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>			IS WATER DROPLET PLUME ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/>											
AT WHAT POINT IN THE PLUME WAS OPACITY DETERMINED at the stack														
DESCRIBE BACKGROUND Blue sky														
BACKGROUND COLOR Blue			SKY CONDITIONS clear											
WIND SPEED 10 to 12 knots			WIND DIRECTION west											
AMBIENT TEMPERATURE 90°F			RELATIVE HUMIDITY 49%											
SOURCE LAYOUT SKETCH			DRAW NORTH ARROW											
COMMENTS														

AVERAGE OPACITY FOR HIGHEST PERIOD

0.63

NUMBER OF READINGS ABOVE

20 % WERE 0

RANGE OF OPACITY READINGS

MINIMUM 0

MAXIMUM 5

OBSERVER'S NAME (PRINT)

Mark Edward Hennis

OBSERVER'S SIGNATURE

Mark Edward Hennis

DATE

7/14/86

ORGANIZATION

Envirofact of Jacksonville

CERTIFIED BY

Eastern Technical Assoc

DATE

June 5, 1986

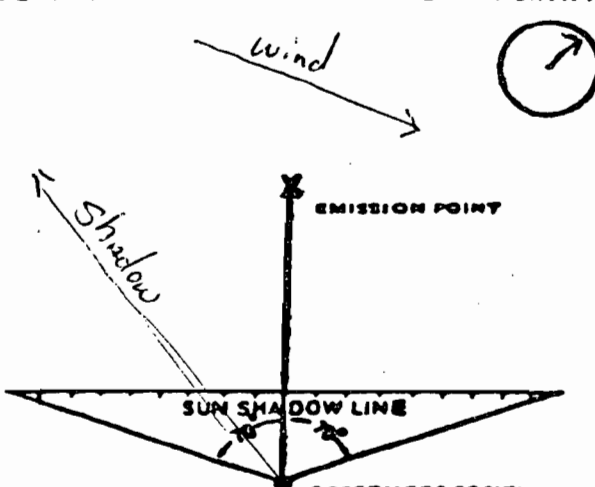

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS

SIGNATURE

DATE 7/17/86

SOURCE NAME			OBSERVATION DATE				START TIME				STOP TIME			
Mayport Naval Station			7/18/86				10:32				11:32			
ADDRESS			LOC				LOC				LOC			
Bldg. 1241 Boiler #3			M 0 15 30				M 0 15 30				M 0 15 30			
CITY			STATE				ZIP							
Jacksonville			FLA.											
PHONE			SOURCE ID NUMBER											
246-5531			A016-65591											
PROCESS EQUIPMENT			OPERATING MODE											
Boiler #3 1241 Bldg.			90% 31500.00											
CONTROL EQUIPMENT			OPERATING MODE											
DESCRIBE EMISSION POINT														
Round stack														
HEIGHT ABOVE GROUND LEVEL			HEIGHT RELATIVE TO OBSERVER											
100'			100'											
DISTANCE FROM OBSERVER			DIRECTION FROM OBSERVER											
150'			NW 304°											
DESCRIBE EMISSIONS														
Clouding Black plume														
EMISSION COLOR			PLUME TYPE: CONTINUOUS <input checked="" type="checkbox"/> PUGITIVE <input type="checkbox"/> INTERMITTENT <input type="checkbox"/>											
Black														
WATER DROPLETS PRESENT			IS WATER DROPLET PLUME ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/>											
NO <input type="checkbox"/> YES <input type="checkbox"/>														
AT WHAT POINT IN THE PLUME WAS OPACITY DETERMINED														
At the stack														
DESCRIBE BACKGROUND														
Blue scattered sky														
BACKGROUND COLOR			SKY CONDITIONS											
Blue			Partly cloudy											
WIND SPEED			WIND DIRECTION											
5 to 10 knots			SW											
AMBIENT TEMPERATURE			RELATIVE HUMIDITY											
90%			50%											
SOURCE LAYOUT SKETCH			DRAW NORTH ARROW											
COMMENTS			AVERAGE OPACITY FOR HIGHEST PERIOD				NUMBER OF READINGS ABOVE							
Emissions for the first 15 mins. were probably dirty air in fuel oil line when boiler was being brought up to 90% capacity.			15.625				20 & WERE 3							
HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS			RANGE OF OPACITY READINGS											
Signature: [Signature] 7/18/86			MINIMUM 0				MAXIMUM 25							
DATE			OBSERVER'S NAME (PRINT)											
			Mark Edward Hennis											
			OBSERVER'S SIGNATURE											
			Mark Edward Hennis											
			DATE											
			7/18/86											
			ORGANIZATION											
			Enviroport of Jacksonville											
			CERTIFIED BY											
			Eastern Technical Assoc.											
			DATE											
			10/25/86											

VISIBLE EMISSION OBSERVATION FORM

SOURCE NAME Bldg. 250 #1 Boiler			OBSERVATION DATE 7/14/86				START TIME 9:45		STOP TIME 10:45		
ADDRESS Mayport NAVAL STATION											
CITY Jacksonville	STATE FLA.	ZIP 32227									
PHONE 246-5268		SOURCE ID NUMBER A016-69954									
PROCESS EQUIPMENT Boiler #1 STEAM		OPERATING MODE 37,000 lb/hr.									
CONTROL EQUIPMENT		OPERATING MODE									
DESCRIBE EMISSION POINT metal stack											
HEIGHT ABOVE GROUND LEVEL 40 FT		HEIGHT RELATIVE TO OBSERVER 40 FT									
DISTANCE FROM OBSERVER 115'		DIRECTION FROM OBSERVER NW 330°									
DESCRIBE EMISSIONS light gray plume											
EMISSION COLOR gray/black		PLUME TYPE: CONTINUOUS <input checked="" type="checkbox"/> FUGITIVE <input type="checkbox"/> INTERMITTENT <input type="checkbox"/>									
WATER DROPLETS PRESENT NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>		IS WATER DROPLET PLUME ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/>									
AT WHAT POINT IN THE PLUME WAS OPACITY DETERMINED at the stack											
DESCRIBE BACKGROUND Blue sky											
BACKGROUND COLOR Blue		SKY CONDITIONS clear									
WIND SPEED 8 to 10 knots		WIND DIRECTION west									
AMBIENT TEMPERATURE 85°F		RELATIVE HUMIDITY 45%									
SOURCE LAYOUT SKETCH 			DRAW NORTH ARROW 								

AVERAGE OPACITY FOR HIGHEST PERIOD 2.29	NUMBER OF READINGS ABOVE 20 % WERE 0
---	---

RANGE OF OPACITY READINGS MINIMUM 0 MAXIMUM 5	
--	--

OBSERVER'S NAME (PRINT) MARK EDWARD HENNIS	DATE 7/14/86
--	------------------------

OBSERVER'S SIGNATURE <i>Mark Edward Hennis</i>	DATE 7/14/86
---	------------------------

ORGANIZATION ENVIROPACT OF JACKSONVILLE	DATE June 5 1986
---	----------------------------

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS
[Signature] **7/18/86**

SIGNATURE
[Signature]

SOURCE NAME Carbonaceous Boiler Bldg 1430			OBSERVATION DATE 11/15/86				START TIME ^{AM} 9:00		STOP TIME ^{PM} 10:00	
ADDRESS NAVAL STATION Mayport										
CITY Jacksonville	STATE FLA.	ZIP 3228								
PHONE 246-5660		SOURCE ID NUMBER A016-17873								
PROCESS EQUIPMENT Type I & II solid waste		OPERATING MODE 90%								
CONTROL EQUIPMENT		OPERATING MODE								
DESCRIBE EMISSION POINT metal stack										
HEIGHT ABOVE GROUND LEVEL 100 Ft		HEIGHT RELATIVE TO OBSERVER 102 Ft								
DISTANCE FROM OBSERVER 304'		DIRECTION FROM OBSERVER NW								
DESCRIBE EMISSIONS light gray smoke										
EMISSION COLOR white		PLUME TYPE: <input checked="" type="checkbox"/> CONTINUOUS <input type="checkbox"/> PUGITIVE <input type="checkbox"/> INTERMITTENT <input type="checkbox"/>								
WATER DROPLETS PRESENT NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>		IS WATER DROPLET PLUME ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/>								
AT WHAT POINT IN THE PLUME WAS OPACITY DETERMINED AT STACK										
DESCRIBE BACKGROUND Blue sky										
BACKGROUND COLOR Blue		SKY CONDITIONS clear								
WIND SPEED 5 knots		WIND DIRECTION NW								
AMBIENT TEMPERATURE 45°F		RELATIVE HUMIDITY 73%								
SOURCE LAYOUT SKETCH			DRAW NORTH ARROW							
<p>The sketch shows a vertical line representing the emission point. A wind arrow points towards it from the upper left. A sun shadow line is drawn from the base of the emission point towards the lower left. An observer's position is marked at the base of the emission point. A north arrow is drawn to the right, pointing upwards.</p>										

M	SEC				M	SEC			
	0	15	30	45		0	15	30	45
1	5	5	5	5	31	10	15	10	15
2	5	5	5	5	32	10	15	10	5
3	5	10	5	10	33	5	5	10	10
4	20	20	25	20	34	10	10	15	10
5	15	15	20	15	35	10	15	10	15
6	15	20	20	15	36	10	15	10	20
7	15	15	10	10	37	15	5	10	20
8	15	20	10	5	38	15	10	15	10
9	15	20	15	20	39	10	10	15	10
10	15	10	10	15	40	10	10	15	10
11	15	15	20	15	41	10	10	10	5
12	10	15	20	15	42	5	10	15	20
13	10	15	10	10	43	10	10	15	5
14	10	10	5	5	44	10	15	15	10
15	5	10	5	5	45	15	10	15	10
16	5	5	5	5	46	5	10	10	20
17	5	5	5	10	47	15	20	20	10
18	10	20	20	25	48	15	20	10	15
19	20	15	20	25	49	10	10	15	10
20	10	10	15	10	50	5	5	5	15
21	15	10	20	15	51	15	20	10	15
22	10	10	5	5	52	10	15	15	10
23	15	10	15	20	53	10	15	10	10
24	20	10	10	15	54	10	15	15	10
25	15	20	15	10	55	10	10	10	10
26	20	15	10	5	56	15	20	15	15
27	5	5	0	0	57	15	15	15	10
28	0	5	15	10	58	15	15	10	15
29	20	20	10	15	59	15	10	10	10
30	10	10	15	10	60	10	10	15	20

AVERAGE OPACITY FOR HIGHEST PERIOD 16.45	NUMBER OF READINGS ABOVE 20 20 WERE 2
--	--

COMMENTS		RANGE OF OPACITY READINGS MINIMUM 0 MAXIMUM 25	
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS SIGNATURE TITLE Envirofact of JAX DATE 12/15/86		OBSERVER'S NAME (PRINT) MARK Edward Hennis	
		OBSERVER'S SIGNATURE Mark Edward Hennis	
		DATE 11/15/86	
CERTIFIED BY Eastern Tech. Assoc. DATE 12/15/86			

SOURCE NAME CLASSIFIED INCINERATOR			OBSERVATION DATE 11/15/86				START TIME 10:30 AM		STOP TIME 11:30 AM																																																																																																																																																																																																																																																																																																																																	
ADDRESS NAVAL STATION Mayport			<table border="1"> <tr> <th>SEC</th> <th>0</th> <th>10</th> <th>30</th> <th>45</th> <th>SEC</th> <th>0</th> <th>10</th> <th>30</th> <th>45</th> </tr> <tr> <td>M</td> <td></td> <td></td> <td></td> <td></td> <td>M</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr><td>1</td><td>0</td><td>0</td><td>0</td><td>0</td><td>31</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>2</td><td>0</td><td>0</td><td>0</td><td>0</td><td>32</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>3</td><td>0</td><td>0</td><td>0</td><td>0</td><td>33</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>4</td><td>0</td><td>0</td><td>0</td><td>0</td><td>34</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>5</td><td>0</td><td>0</td><td>0</td><td>0</td><td>35</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>6</td><td>0</td><td>0</td><td>0</td><td>0</td><td>36</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>7</td><td>0</td><td>0</td><td>0</td><td>0</td><td>37</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>8</td><td>0</td><td>0</td><td>0</td><td>0</td><td>38</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>9</td><td>0</td><td>0</td><td>0</td><td>0</td><td>39</td><td>0</td><td>5</td><td>0</td><td>0</td></tr> <tr><td>10</td><td>0</td><td>0</td><td>0</td><td>0</td><td>40</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>11</td><td>0</td><td>0</td><td>0</td><td>0</td><td>41</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>12</td><td>0</td><td>0</td><td>0</td><td>0</td><td>42</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>13</td><td>0</td><td>0</td><td>0</td><td>0</td><td>43</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>14</td><td>0</td><td>0</td><td>5</td><td>0</td><td>44</td><td>0</td><td>0</td><td>0</td><td>5</td></tr> <tr><td>15</td><td>0</td><td>5</td><td>0</td><td>5</td><td>45</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>16</td><td>0</td><td>0</td><td>0</td><td>0</td><td>46</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>17</td><td>0</td><td>0</td><td>0</td><td>0</td><td>47</td><td>0</td><td>0</td><td>0</td><td>5</td></tr> <tr><td>18</td><td>0</td><td>5</td><td>0</td><td>0</td><td>48</td><td>5</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>19</td><td>0</td><td>5</td><td>0</td><td>0</td><td>49</td><td>5</td><td>0</td><td>5</td><td>5</td></tr> <tr><td>20</td><td>0</td><td>0</td><td>0</td><td>0</td><td>50</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>21</td><td>0</td><td>0</td><td>0</td><td>0</td><td>51</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>22</td><td>0</td><td>0</td><td>0</td><td>0</td><td>52</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>23</td><td>0</td><td>0</td><td>0</td><td>0</td><td>53</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>24</td><td>15</td><td>20</td><td>0</td><td>0</td><td>54</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>25</td><td>0</td><td>0</td><td>0</td><td>0</td><td>55</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>26</td><td>0</td><td>0</td><td>0</td><td>0</td><td>56</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>27</td><td>0</td><td>0</td><td>0</td><td>0</td><td>57</td><td>5</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>28</td><td>5</td><td>0</td><td>5</td><td>5</td><td>58</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>29</td><td>0</td><td>0</td><td>0</td><td>0</td><td>59</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>30</td><td>0</td><td>0</td><td>0</td><td>0</td><td>60</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> </table>								SEC	0	10	30	45	SEC	0	10	30	45	M					M					1	0	0	0	0	31	0	0	0	0	2	0	0	0	0	32	0	0	0	0	3	0	0	0	0	33	0	0	0	0	4	0	0	0	0	34	0	0	0	0	5	0	0	0	0	35	0	0	0	0	6	0	0	0	0	36	0	0	0	0	7	0	0	0	0	37	0	0	0	0	8	0	0	0	0	38	0	0	0	0	9	0	0	0	0	39	0	5	0	0	10	0	0	0	0	40	0	0	0	0	11	0	0	0	0	41	0	0	0	0	12	0	0	0	0	42	0	0	0	0	13	0	0	0	0	43	0	0	0	0	14	0	0	5	0	44	0	0	0	5	15	0	5	0	5	45	0	0	0	0	16	0	0	0	0	46	0	0	0	0	17	0	0	0	0	47	0	0	0	5	18	0	5	0	0	48	5	0	0	0	19	0	5	0	0	49	5	0	5	5	20	0	0	0	0	50	0	0	0	0	21	0	0	0	0	51	0	0	0	0	22	0	0	0	0	52	0	0	0	0	23	0	0	0	0	53	0	0	0	0	24	15	20	0	0	54	0	0	0	0	25	0	0	0	0	55	0	0	0	0	26	0	0	0	0	56	0	0	0	0	27	0	0	0	0	57	5	0	0	0	28	5	0	5	5	58	0	0	0	0	29	0	0	0	0	59	0	0	0	0	30	0	0	0	0	60	0	0	0	0
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EMISSION COLOR light gray			PLUME TYPE: CONTINUOUS <input checked="" type="checkbox"/> FUGITIVE <input type="checkbox"/> INTERMITTENT <input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																							
WATER DROPLETS PRESENT NO			IS WATER DROPLET PLUME ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/>																																																																																																																																																																																																																																																																																																																																							
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TITLE Chief of Station																																																																																																																																																																																																																																																																																																																																										
DATE 11/15/86																																																																																																																																																																																																																																																																																																																																										

Envirofact
of Jacksonville Inc.

Environmental Consulting and Analysis

1627 East 8 Street
Jacksonville, Florida 32206
Telephone: (904) 354-6755

Flo. Watts (904) 432-9706

Client: Commanding Officer
ATT: Mr. Jose Negron
Code # N4214
Naval Station
Mayport, FL 32228

September 13, 1986

Report # J E 111
Lab I.D. # P1111

Date Sampled: 8/07/86

Collected by: Your Fax.

Sample Designation: Work Order # 2907-188

Contract # N62467-86-C-2907

REPORT OF ANALYSIS

FUEL FARM
WASTE OIL

PCB

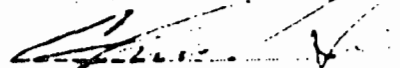
< 5

N. Sulfur

0.32

Analysis made in accordance with E.P.A., A.S.T.M., Standard Methods
or other approved methods.

Respectfully submitted,



Chris Given
Laboratory Supervisor

NOTE: FUEL DEPARTMENT supplies fuel to
all activities at Naval Station Mayport.



BEST AVAILABLE COPY

Envirofact
of Jacksonville, Inc.

Environmental Consulting and Analysis

1627 East B Street
Jacksonville, Florida 32206
Telephone: (904) 354-6755
Fax: Watts, (800) 432-9706

Client: Commanding Officer
ATT: Mr. Jose Negron
Code # N4214
Naval Station
Mayport, FL 32228

September 10, 1986

Report # J 6133
Lab I.D. # 62228

Date Sampled: 8/07/86

Collected by: D. Allen

Sample Designation: Work Order # 2907-188

Contract # N62467-86-C-2907

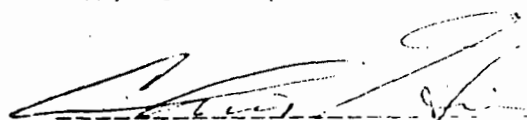
REPORT OF ANALYSIS

BUILDING 1241
WASTE OIL

PCB	< 5	10/12
% Sulfur	0.39	1

Analysis made in accordance with E.P.A., A.S.T.M., Standard Methods
or other approved methods.

Respectfully submitted,



Chris Given
Laboratory Supervisor

BEST AVAILABLE COPY

Envirofact
of Jacksonville, Inc.

Environmental Consulting and Analysis

1627 East 8 Street
Jacksonville, Florida 32206
Telephone: (904) 354-6755
Fis. Watts: (800) 432-9706

Client: Commanding Officer
ATT: Mr. Jose Negron
Code # N4214
Naval Station
Mayport, FL 32228

September 10, 1986

Report # 1-8130
Lab I.D. # P0223

Date Sampled: 8/07/86 Collected by: D. Allen
Sample Designation: Work Order # 2907-188
Contract # N62467-86-C-2907


REPORT OF ANALYSIS

DFM 250

% Sulfur 0.48

Analysis made in accordance with E.P.A., A.S.T.M., Standard Methods
or other approved methods.

Respectfully submitted,



Chris Given
Laboratory Supervisor

*Envirofact
of Jacksonville Inc*

Environmental Consulting and Analysis

1627 East 8 Street
Jacksonville, Florida 32206
Telephone: (904) 354-8755
File Watts: (800) 432-9706Client: Commanding Officer
ATT: Mr. Jose Negron
Code # N4214
Naval Station
Mayport, FL 32228

September 18, 1986

Report # J 8133
Lab I.D. # 82223

Date Sampled: 8/07/86

Collected by: D. Allen.

Sample Designation: Work Order # 2907-188
Contract # N62467-86-C-2907
(NOTE)

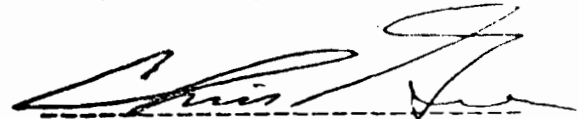
REPORT OF ANALYSIS

BUILDING 1430
WASTE OIL

PCB	< 5	mg/kg
% Sulfur	0.36	%

Analysis made in accordance with E.P.A., A.S.T.M., Standard Methods
or other approved methods.

Respectfully submitted,

Chris Given
Laboratory Supervisor

Envirofact
of Jacksonville Inc
Environmental Consulting and Analysis

1827 East 8 Street
Jacksonville, Florida 32208
Telephone (904) 384 8788
Fle. Watts: (800) 432-9706

Client: Commanding Officer
ATT: Mr. Jose Negron
Code # N4214
Naval Station
Mayport, FL 32228

September 13, 1986

Report # J 8151
Lab I.D. # 82228

Date Sampled: 8/11/86

Collected by: D. Allen.

Sample Designation: Work Order # 2907-192
Contract # N62467-86-C-2907

REPORT OF ANALYSIS

CLASS INCINERATOR

% Sulfur

0.26

%

Analysis made in accordance with E.P.A., A.S.T.M., Standard Methods
or other approved methods.

Respectfully submitted,

Radford S. Murphy

Radford S. Murphy
Laboratory Director



DEPARTMENT OF THE NAVY

U.S. NAVAL STATION
MAYPORT, FLORIDA 32228-5000

IN REPLY REFER TO:

6240
N4214
25 October 1985

CERTIFIED MAIL

Mr. Jerry Woosley
Department of Health, Welfare
and Bio-Environmental Services
515 West 6th Street
Jacksonville, Florida 32206

Subj: Annual Operating Reports for Permit
Nos. A016-65591 and 65594; Boiler
Nos. 1, 2 and 3, Building 1241,
and Two Boilers, Building 250

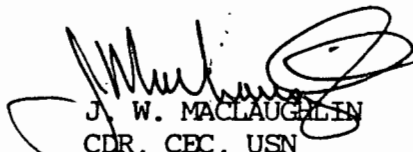
Dear Mr. Woosley:

As required by Chapter 17-4, Florida Administrative Code (FAC), and as requested by your letter dated September 19, 1985, subject reports are forwarded.

Please be informed that Permit No. A016-65629 included in your Notice to Correct (NTC) Source of Pollution/Violation, is not one of our permits. Submittal of its operating report is, therefore, not the responsibility of this command.

Should you have any questions or further information is required, please contact Mr. Carlos Rosado at 246-5268.

Sincerely,


J. W. MACLAUGHLIN
CDR, CEC, USN
Public Works Officer

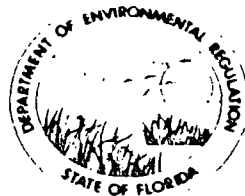
Enclosures (6)

bc:
N4214

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

NORTHEAST DISTRICT

3426 BILLS ROAD
JACKSONVILLE, FLORIDA 32207



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

G. DOUG DUTTON
DISTRICT MANAGER

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 1984 prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Steam Boiler Nos. 1, 2 & 3 - Building 1241
2. Permit Number: AO16-65591
3. Source Address: Naval Station
Mayport, Florida 32228-0265
4. Description of Source: 66 MBTU/Hour Each, Using DFM, No. 5 Fuel Oil,
or Fuel Oil Reclaimed (FOR)

II ACTUAL OPERATING HOURS: 24 hrs/day 7 days/wk 52 wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight
<u>Potable Water</u>	<u>40,000 gal/d (average for one</u> tons/yr
	<u>boiler, it increases about 25%</u> tons/yr
	<u>per boiler when more than one</u> tons/yr
	<u>boiler is in operation.</u> tons/yr
	tons/yr

IV PRODUCT OUTPUT (Specify applicable units)

STEAM 84,752 TONS/YEAR

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
819.5 10³ gallons DFM Oil, 0.4 %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) #5 Fuel Oil; 337, 310 gal; 1.5%

VI EMISSION RATE(S) (tons/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) Opacity less than 20%

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

EPA Method 9 for Visible Emissions

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.


SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

25 October 1985

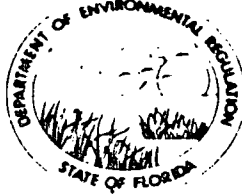
DATE

J. W. MACLAUGHLIN, CDR, CEC, USN
PUBLIC WORKS OFFICER
TYPED NAME AND TITLE

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

NORTHEAST DISTRICT

3426 BILLS ROAD
JACKSONVILLE, FLORIDA 32207



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

G. DOUG DUTTON
DISTRICT MANAGER

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 19 84 prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: 2 BOILERS, Building 250
2. Permit Number: AO16 - 65594
3. Source Address: Naval Station
Mayport, Florida 32228-0265
4. Description of Source: 57.3 MBTU/Hour Each, Using DFM, No. 5 Fuel,
or Fuel Oil Reclaimed (FOR)

II ACTUAL OPERATING HOURS: 24 hrs/day 7 days/wk 52 wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight
<u>POTABLE WATER</u>	<u>35,000 gal/d (average for one</u> tons/yr
	<u>boiler, it increases about 20%</u> tons/yr
	<u>when the two boilers are in</u> tons/yr
	<u>operation at the same time.</u> tons/yr
	tons/yr

IV PRODUCT OUTPUT (Specify applicable units)

Steam 253 tons/year

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
226 10³ gallons DFM Oil, 0.4 %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) FOR; 276,765 gal; 0.4% S

VI EMISSION RATE(S) (tons/yr)

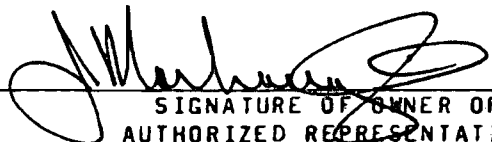
_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) Opacity 1%

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

EPA Method 9 for Visible Emissions

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.



SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

J. W. MACLAUGHLIN, CDR, CEC, USN
PUBLIC WORKS OFFICER

TYPED NAME AND TITLE

25 October 1985
DATE

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
136 10³ gallons RECLAIMED Oil, 0.4 %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

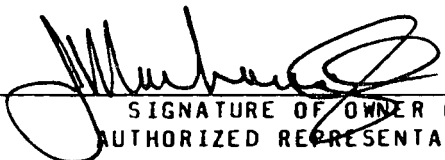
_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) _____ OPACITY 20%

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

EPA METHOD 9 FOR VISIBLE EMISSIONS

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.



SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

25 October 1985

DATE

J. W. MACLAUGHLIN, CDR, CEC, USN
PUBLIC WORKS OFFICER

TYPED NAME AND TITLE

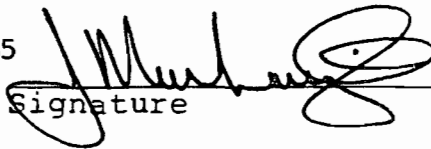
GENERAL INFORMATION

1. Company Name and Address U. S. NAVAL STATION
Mayport, FL 32228
2. Complete all applicable sections below for calendar year ¹⁹⁸⁴~~1983~~:
 - A. Kraft Pulp Mill - Tons of air-dried unbleached pulp produced _____.
 - B. Concrete batch or concrete products plant -
 - (1) Cubic yards of concrete produced (used) _____.
 - (2) Tons of aggregate stored _____.
 - C. Miscellaneous paint and solvent use -
 - (1) lbs. of paint used _____.
 - (2) % solvent in paint _____.
 - (3) lbs. of miscellaneous solvent used _____.
 - D. Small boilers - Bldg. 1241
 - (1) Type fuel used (Please Circle) - #1 #2 #4 #5 #6 DFM
 - (2) % sulfur in fuel 0.4 (DFM) 1.5 (#5).
 - (3) Quantity used (calendar year) 819,521 (DFM) 337,310 (#5).

J. W. MACLAUGHLIN, CDR, CEC, USN
Public Works Officer - 25 October 1985

(Print or Type) Name and Title of
Owner or Authorized Representative

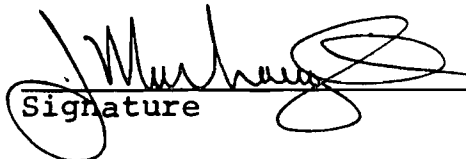
Signature



GENERAL INFORMATION

1. Company Name and Address U.S. NAVAL STATION
Mayport, Florida 32228
2. Complete all applicable sections below for calendar year ¹⁹⁸⁴~~1982~~:
- A. Kraft Pulp Mill - Tons of air-dried unbleached pulp produced _____.
- B. Concrete batch or concrete products plant -
- (1) Cubic yards of concrete produced (used) _____.
- (2) Tons of aggregate stored _____.
- C. Miscellaneous paint and solvent use -
- (1) lbs. of paint used _____.
- (2) % solvent in paint _____.
- (3) lbs. of miscellaneous solvent used _____.
- D. Small boilers - Bldg 250
- (1) Type fuel used (Please Circle) - #1 #2 #4 #5 #6 DFM & FOR
- (2) % sulfur in fuel 0.4.
- (3) Quantity used (calendar year) 226,000 gal (DFM) 276,765 gal. (FOR)

J. W. MACLAUGHLIN, CDR, CEC, USN
Public Works Officer - 25 Oct 1985
(Print or Type) Name and Title of
Owner or Authorized Representative

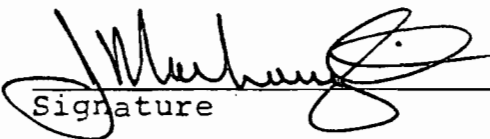

Signature

GENERAL INFORMATION

1. Company Name and Address U.S. NAVAL STATION
Mayport, FL 32228
2. Complete all applicable sections below for calendar year ~~1983~~ ¹⁹⁸⁴:
 - A. Kraft Pulp Mill - Tons of air-dried unbleached pulp produced _____.
 - B. Concrete batch or concrete products plant -
 - (1) Cubic yards of concrete produced (used) _____.
 - (2) Tons of aggregate stored _____.
 - C. Miscellaneous paint and solvent use -
 - (1) lbs. of paint used _____.
 - (2) % solvent in paint _____.
 - (3) lbs. of miscellaneous solvent used _____.
 - D. Small boilers - Bldg 1430
 - (1) Type fuel used (Please Circle) - #1 #2 #4 #5 #6 FOR
 - (2) % sulfur in fuel 0.4.
 - (3) Quantity used (calendar year) 136,300 gal.

J. W. MACLAUGHLIN, CDR, CEC, USN
Public Works Officer - 25 Oct 1985

(Print or Type) Name and Title of
Owner or Authorized Representative


Signature



envirolab

Environmental Laboratory Services

1042 U.S. HIGHWAY 1, NORTH, P.O. BOX 607
ORMOND BEACH, FLORIDA 32074

PHONE (904)672-5668

Report to: Carlos Rosado, Engineer in Charge, U.S. Naval Air Station, Mayport, FL

Sample Identification: Samples collected on 4/8/85 for Work Order 3914-123

Laboratory Sample No. see Sampled by: Envirolab Report No. MP123 Date: 4/19/85
below

Contract: N 62467-84-C-3914, Analytical Testing

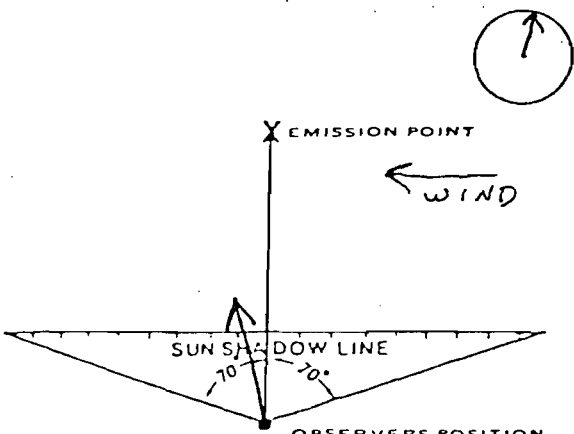

<u>PARAMETER, UNITS</u>	<u>ENVIROLAB SAMPLE NO.</u>	<u>MAYPORT SITE/ BUILDING NO.</u>	<u>TYPE OF SAMPLE</u>	<u>RESULTS</u>
Sulfur, %	85-1338	250	Waste Oil	0.4

RESPECTFULLY SUBMITTED: 

All tests are conducted according to 'Standard Methods for the Examination of Water and Wastewater,'
Latest Edition, and/or other EPA approved methods unless otherwise specified.

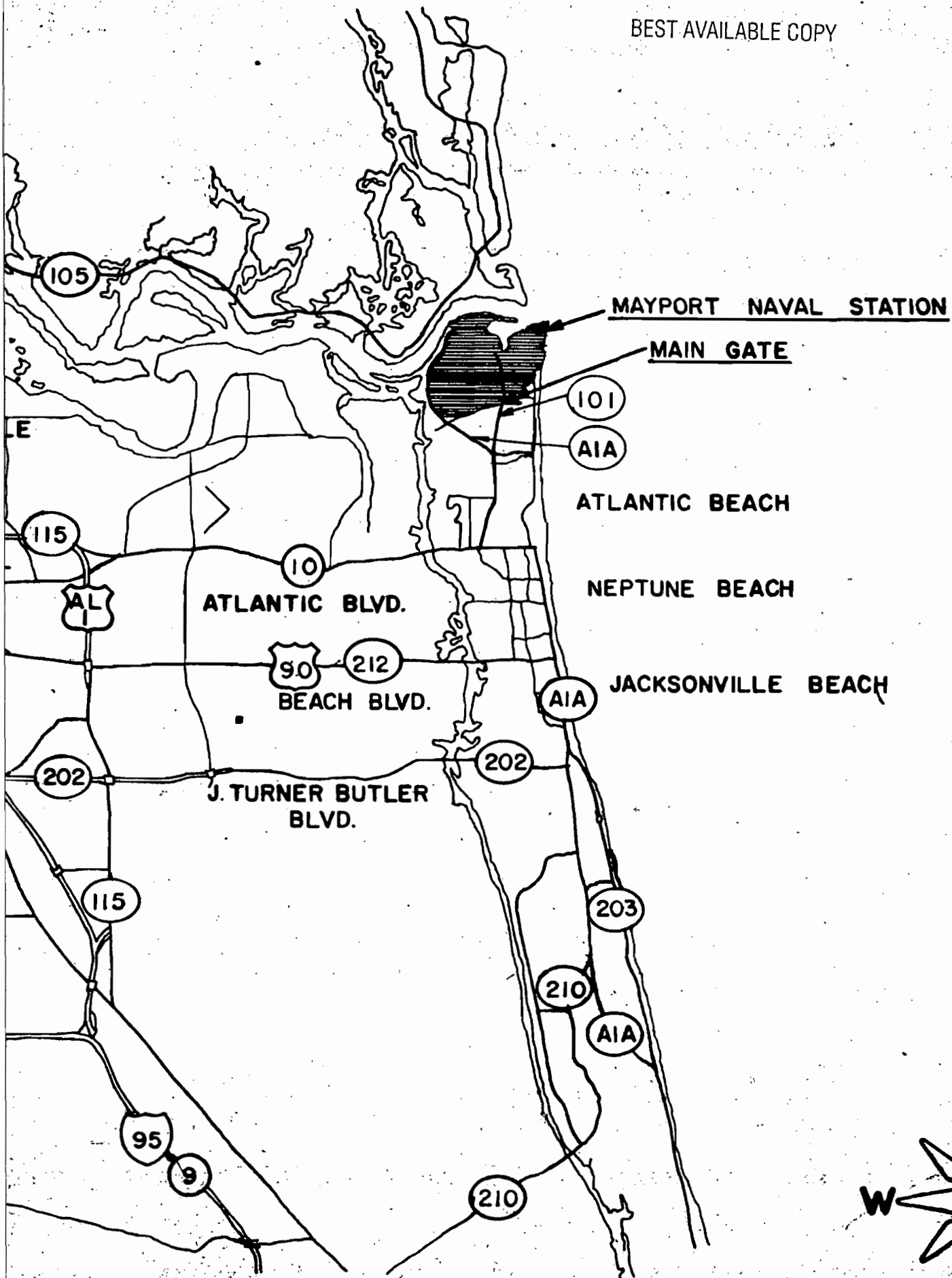
DHRS CERTIFICATION NO. 83160

SOURCE NAME			OBSERVATION DATE				START TIME				STOP TIME			
CARBONACEOUS Fuel Boiler Bldg 1430			10/7/85				2:45				3:45			
ADDRESS			SEC				SEC							
Naval STATION Mayport			M	0	15	30	45	M	0	15	30	45		
CITY			1				2				3			
JACKSONVILLE			5				10				15			
STATE			2				3				4			
FL			10				10				5			
ZIP			3				4				5			
32228			15				15				5			
PHONE			4				5				10			
246-5268			5				5				10			
SOURCE ID NUMBER			5				10				15			
A016-17873			10				15				20			
PROCESS EQUIPMENT			6				7				8			
Type I & II SOLID WASTE BURNER			20				20				15			
OPERATING MODE			3				4				5			
13,500 LB/HOUR STEAM			5				10				15			
NORMAL			10				15				20			
CONTROL EQUIPMENT			6				7				8			
2 TONS			20				20				15			
DESCRIBE EMISSION POINT			7				8				9			
Metal stack			5				10				20			
HEIGHT ABOVE GROUND LEVEL			8				9				10			
100 ft			20				20				20			
HEIGHT RELATIVE TO OBSERVER			9				10				15			
94 ft			15				10				15			
DISTANCE FROM OBSERVER			10				10				10			
50 yds			10				10				20			
DIRECTION FROM OBSERVER			11				10				5			
NW			10				10				5			
DESCRIBE EMISSIONS			12				10				15			
light white			10				10				15			
EMISSION COLOR			13				10				15			
white			10				15				10			
PLUME TYPE: CONTINUOUS <input checked="" type="checkbox"/> FUGITIVE <input type="checkbox"/> INTERMITTENT <input type="checkbox"/>			14				10				15			
WATER DROPLETS PRESENT			15				10				15			
NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>			15				10				15			
IS WATER DROPLET PLUME ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/>			16				15				5			
AT WHAT POINT IN THE PLUME WAS OPACITY DETERMINED			17				5				5			
AT STACK			15				5				5			
DESCRIBE BACKGROUND			18				5				5			
blue, intermittent white sky			10				15				20			
BACKGROUND COLOR			19				20				20			
blue/white			20				10				5			
SKY CONDITIONS			21				10				15			
PARTLY CLOUDY			20				10				5			
WIND SPEED			22				20				20			
5 K			20				10				5			
WIND DIRECTION			23				10				15			
NE			10				15				20			
AMBIENT TEMP.			24				15				20			
75°			20				20				20			
WET BULB TEMP.			25				15				20			
RELATIVE HUMIDITY			26				15				20			
40%			20				20				20			
SOURCE LAYOUT SKETCH			27				20				20			
DRAW NORTH ARROW			28				20				20			
			29				20				20			
<p>EMISSION POINT</p> <p>WIND</p> <p>SUN SHADOW LINE</p> <p>70°</p> <p>20°</p> <p>OBSERVERS POSITION</p>			30				20				20			
COMMENTS			AVERAGE OPACITY FOR HIGHEST PERIOD				NUMBER OF READINGS ABOVE							
			19.38%				20 % WERE 0							
RANGE OF OPACITY READINGS			MINIMUM				MAXIMUM							
			5				20							
OBSERVER'S NAME (PRINT)			OBSERVER'S SIGNATURE				DATE							
STEPHEN D. STOUTER			Stephen D. Stouter				10/7/85							
OBSERVER'S ORGANIZATION			CERTIFIED BY				DATE							
Public Works Engineering			Eastern Technical Associates				6/5/85							
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS			VERIFIED BY				DATE							
SIGNATURE			DATE											
DOU B. LASH			10/8/85											
CONTRACT ADMINISTRATOR														

SOURCE NAME			OBSERVATION DATE				START TIME				STOP TIME			
Bldg 1241 Boiler #1			10/17/85				12:57				1:57			
ADDRESS			SEC				SEC							
MAYPORT Naval STATION			M	0	15	30	45	M	0	15	30	45		
CITY			1				31							
JACKSONVILLE			5 5 5 0				5 5 5 5							
STATE			2				32							
FL			5 5 5 5				5 5 0 0							
ZIP			3				33							
32211			5 5 5 5				0 0 0 5							
PHONE			4				34							
904-246-5268			5 5 5 5				0 5 0 0							
PROCESS EQUIPMENT			5				35							
OPERATING MODE			5 5 5 5				0 0 5 5							
90% 315000lb/hr			6				36							
CONTROL EQUIPMENT			5 10 15 10				0 0 0 0							
OPERATING MODE			7				37							
			15 15 15 10				0 0 5 0							
DESCRIBE EMISSION POINT			8				38							
ROUND STACK about 25 ft Above Bldg			20 15 10 10				0 0 0 0							
HEIGHT ABOVE GROUND LEVEL			9				39							
100			10 5 5 5				5 0 5 0							
HEIGHT RELATIVE TO OBSERVER			10				40							
96 ft			5 5 5 5				0 5 5 5							
DISTANCE FROM OBSERVER			11				41							
60 yds			0 5 0 0				5 5 5 5							
DIRECTION FROM OBSERVER			12				42							
NNE			5 5 5 10				0 5 5 0							
DESCRIBE EMISSIONS			13				43							
light TAN Sometimes white			15 10 10 10				5 0 0 0							
EMISSION COLOR			14				44							
tan/white			10 15 15 10				0 0 0 0							
PLUME TYPE: CONTINUOUS <input checked="" type="checkbox"/> FUGITIVE <input type="checkbox"/> INTERMITTENT <input type="checkbox"/>			15				45							
WATER DROPLETS PRESENT			16				46							
NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>			15 20 20 15				0 0 0 0							
IS WATER DROPLET PLUME ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/>			17				47							
AT WHAT POINT IN THE PLUME WAS OPACITY DETERMINED			10 10 5 10				0 0 0 0							
A+ Stack			18				48							
DESCRIBE BACKGROUND			5 5 10 5				5 5 10 10							
blue sky Alternating with clouds			19				49							
BACKGROUND COLOR			10 10 10 15				10 5 15 10							
blue and white			20				50							
SKY CONDITIONS			20 15 20 20				5 5 5 5							
WIND SPEED			21				51							
2-5k			5 10 5 5				5 5 5 5							
WIND DIRECTION			22				52							
Easterly			5 5 0 5				5 5 0 0							
AMBIENT TEMP.			23				53							
82°			5 5 5 5				0 5 0 5							
WET BULB TEMP.			24				54							
			5 5 5 5				0 5 0 0							
RELATIVE HUMIDITY			25				55							
60%			5 5 5 0				5 5 5 5							
SOURCE LAYOUT SKETCH			26				56							
DRAW NORTH ARROW			0 0 0 0				5 5 5 5							
			27				57							
			0 5 0 5				0 5 0 5							
			28				58							
			0 0 5 0				5 0 0 0							
			29				59							
			5 5 10 5				5 5 5 5							
			30				60							
			10 5 0 5				5 5 5 5							
			AVERAGE OPACITY FOR HIGHEST PERIOD				NUMBER OF READINGS ABOVE							
			12.5				20 % WERE 0							
COMMENTS			RANGE OF OPACITY READINGS											
			MINIMUM 0				MAXIMUM 20							
			OBSERVER'S NAME (PRINT)											
			STEPHEN D. STOUTER											
			OBSERVER'S SIGNATURE				DATE							
							10/18/85							
			ORGANIZATION											
			Public Works Dept											
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS			CERTIFIED BY				DATE							
SIGNATURE			EASTERN Tech. Associates				JUNE 5, 1985							
TITLE			DATE											
			10/23/85											

SOURCE NAME			OBSERVATION DATE				START TIME				STOP TIME			
Bldg 1241 Boiler #2			10/18/85				9:20				10:20			
ADDRESS			SEC				SEC				SEC			
Mayport Naval Station			M	0	15	30	45	M	0	15	30	45		
CITY			1				31				10			
JACKSONVILLE			5				5				10			
STATE			2				32				5			
FL			5				5				5			
ZIP			3				33				5			
32228			5				5				0			
PHONE			4				34				0			
904-246-5269			0				0				5			
SOURCE ID NUMBER			5				35				5			
PROCESS EQUIPMENT			6				36				5			
OPERATING MODE			5				37				5			
90%			5				38				0			
CONTROL EQUIPMENT			5				39				0			
OPERATING MODE			5				40				0			
31,500 Lb/hr			5				41				0			
DESCRIBE EMISSION POINT			5				42				5			
Round stack about 25 ft above bldg			8				38				0			
HEIGHT ABOVE GROUND LEVEL			9				39				0			
100 ft			0				40				0			
HEIGHT RELATIVE TO OBSERVER			10				41				0			
96 ft			0				42				5			
DISTANCE FROM OBSERVER			11				43				5			
DIRECTION FROM OBSERVER			12				44				0			
DESCRIBE EMISSIONS			13				45				0			
light			14				46				0			
EMISSION COLOR			15				47				5			
tan			16				48				5			
PLUME TYPE: CONTINUOUS <input checked="" type="checkbox"/> FUGITIVE <input type="checkbox"/> INTERMITTENT <input type="checkbox"/>			17				49				5			
WATER DROPLETS PRESENT: NO <input type="checkbox"/> YES <input type="checkbox"/>			18				50				5			
IS WATER DROPLET PLUME ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/>			19				51				5			
AT WHAT POINT IN THE PLUME WAS OPACITY DETERMINED			20				52				5			
At stack			21				53				5			
DESCRIBE BACKGROUND			22				54				0			
clear sky with some clouds			23				55				0			
BACKGROUND COLOR			24				56				5			
blue/grey			25				57				5			
SKY CONDITIONS			26				58				0			
partly cloudy			27				59				0			
WIND SPEED			28				60				0			
0-2k			29				0				0			
WIND DIRECTION			30				5				5			
North Easterly			31				5				5			
AMBIENT TEMP.			32				5				5			
WET BULB TEMP.			33				5				5			
RELATIVE HUMIDITY			34				5				5			
SOURCE LAYOUT SKETCH			35				5				5			
DRAW NORTH ARROW			36				5				5			
			37				5				5			
<p>EMISSION POINT</p> <p>NE WIND</p> <p>SUN SHADOW LINE</p> <p>OBSERVERS POSITION</p>			38				5				5			
<p>70°</p> <p>20°</p>			39				5				5			
<p>10°</p>			40				5				5			
<p>20°</p>			41				5				5			
<p>10°</p>			42				5				5			
<p>20°</p>			43				5				5			
<p>10°</p>			44				5				5			
<p>20°</p>			45				5				5			
<p>10°</p>			46				5				5			
<p>20°</p>			47				5				5			
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<p>10°</p>			200				5				5			
<p>20°</p>			201				5				5</			

SOURCE NAME			OBSERVATION DATE				START TIME		STOP TIME			
Bldg 1241 Boiler #3			10/17/85				2:13		3:13			
ADDRESS			SEC				SEC					
Mayport Naval Station			M	0	15	30	45	M	0	15	30	45
CITY			1	20	10	15	5	31	0	0	0	0
JACKSONVILLE			2	5	5	5	5	32	0	0	0	0
STATE			3	5	5	5	5	33	0	0	0	0
FL			4	0	5	0	0	34	0	0	0	0
ZIP			5	0	0	0	0	35	0	0	0	0
32211			6	0	0	0	0	36	0	0	0	0
PHONE			7	5	5	5	0	37	0	0	0	0
904-246-5268			8	0	0	0	0	38	0	0	0	5
SOURCE ID NUMBER			9	0	0	0	0	39	0	0	0	0
PROCESS EQUIPMENT			10	0	0	0	0	40	0	0	5	5
9070 31,500LB/Hr			11	0	0	0	0	41	5	0	0	0
CONTROL EQUIPMENT			12	0	0	0	0	42	0	0	0	0
OPERATING MODE			13	0	0	0	0	43	5	5	0	5
OPERATING MODE			14	0	0	0	0	44	5	0	0	5
DESCRIBE EMISSION POINT			15	0	0	0	0	45	0	0	0	0
Round stack about 25ft above bldg			16	0	5	5	0	46	0	5	5	5
HEIGHT ABOVE GROUND LEVEL			17	5	5	0	0	47	5	0	0	0
100ft			18	0	0	0	5	48	0	0	0	0
HEIGHT RELATIVE TO OBSERVER			19	0	0	0	0	49	0	0	0	0
96ft			20	0	0	0	0	50	0	5	5	5
DISTANCE FROM OBSERVER			21	0	0	0	0	51	5	5	5	5
60yds			22	0	0	0	5	52	5	5	5	5
DIRECTION FROM OBSERVER			23	0	0	0	0	53	0	0	0	0
North			24	0	5	0	0	54	0	0	0	0
DESCRIBE EMISSIONS			25	5	5	0	0	55	5	0	0	0
Very light to light			26	0	0	0	5	56	5	5	5	5
EMISSION COLOR			27	5	0	0	0	57	0	5	0	0
light tan			28	0	0	0	0	58	0	0	0	0
PLUME TYPE: CONTINUOUS <input checked="" type="checkbox"/>			29	0	0	0	0	59	0	0	0	0
FUGITIVE <input type="checkbox"/> INTERMITTENT <input type="checkbox"/>			30	0	0	0	0	60	0	0	0	0
WATER DROPLETS PRESENT			AVERAGE OPACITY FOR HIGHEST PERIOD 3.96%									
NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>			NUMBER OF READINGS ABOVE 20% WERE 0									
IS WATER DROPLET PLUME ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/>			RANGE OF OPACITY READINGS									
AT WHAT POINT IN THE PLUME WAS OPACITY DETERMINED			MINIMUM 0 MAXIMUM 20									
At stack			OBSERVER'S NAME (PRINT)									
DESCRIBE BACKGROUND			STEPHEN D. STOUTER									
some clear sky, some cloudy			OBSERVER'S SIGNATURE									
BACKGROUND COLOR			DATE									
blue/grey			10/18/85									
SKY CONDITIONS			ORGANIZATION									
PARTLY cloudy			Public Works DEPT									
WIND SPEED			CERTIFIED BY									
2.5k			EASTERN Tech. Associates									
WIND DIRECTION			DATE									
Easterly			June 5, 1985									
AMBIENT TEMP.			DATE									
82°			10/21/85									
WET BULB TEMP.			I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS									
RELATIVE HUMIDITY			SIGNATURE									
60%			TITLE									
SOURCE LAYOUT SKETCH			DATE									
DRAW NORTH ARROW												
<p>Diagram description: A vertical line represents the emission point. A circle with an arrow pointing up represents the north arrow. A horizontal arrow pointing left is labeled 'WIND'. A horizontal line is labeled 'SUN SHADOW LINE'. The angle between the vertical line and the shadow line is marked as 70° on the left and 20° on the right. The bottom of the vertical line is labeled 'OBSERVERS POSITION'.</p>												
COMMENTS												

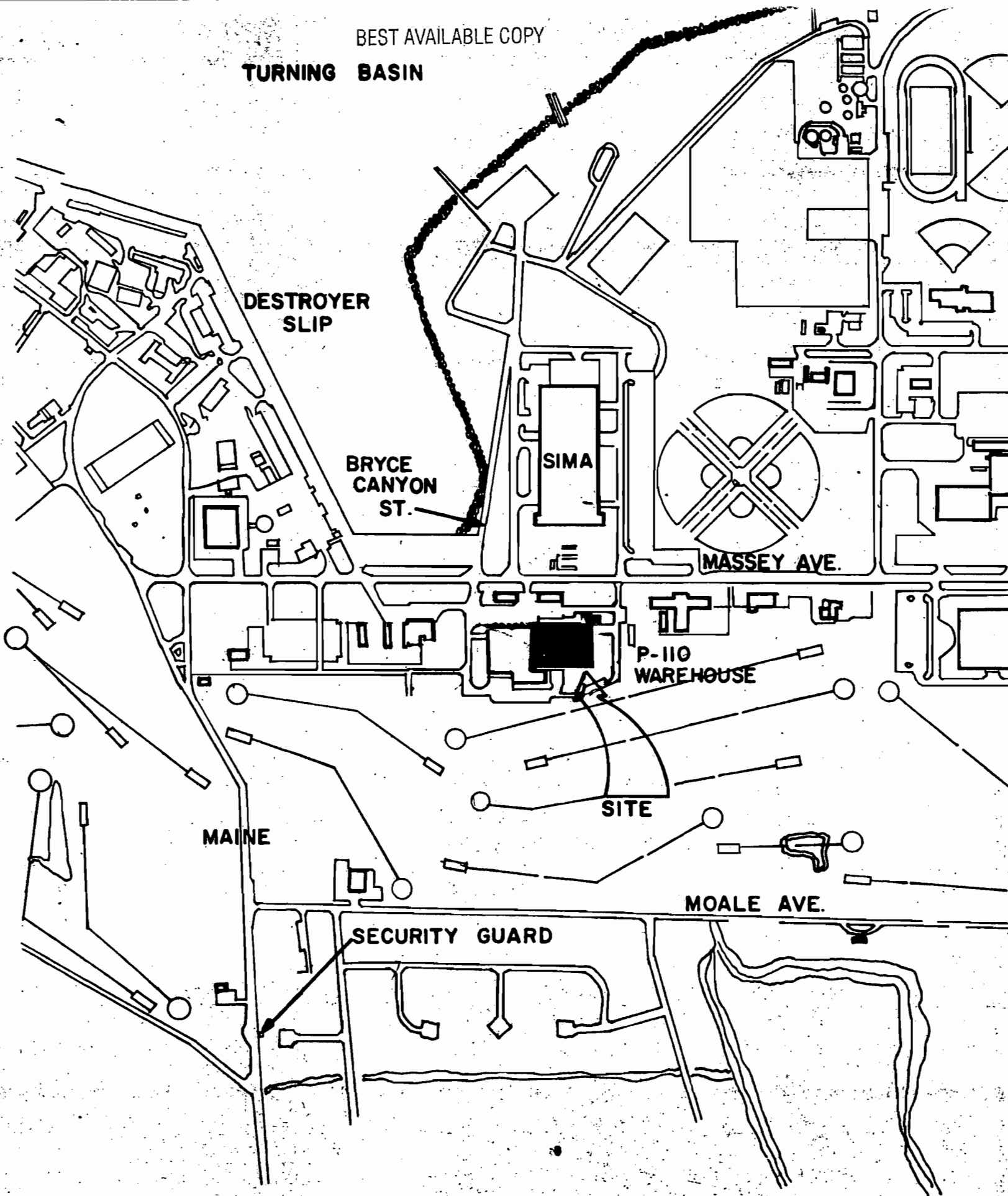


VICINITY MAP

SCALE 1" = 3 MILES

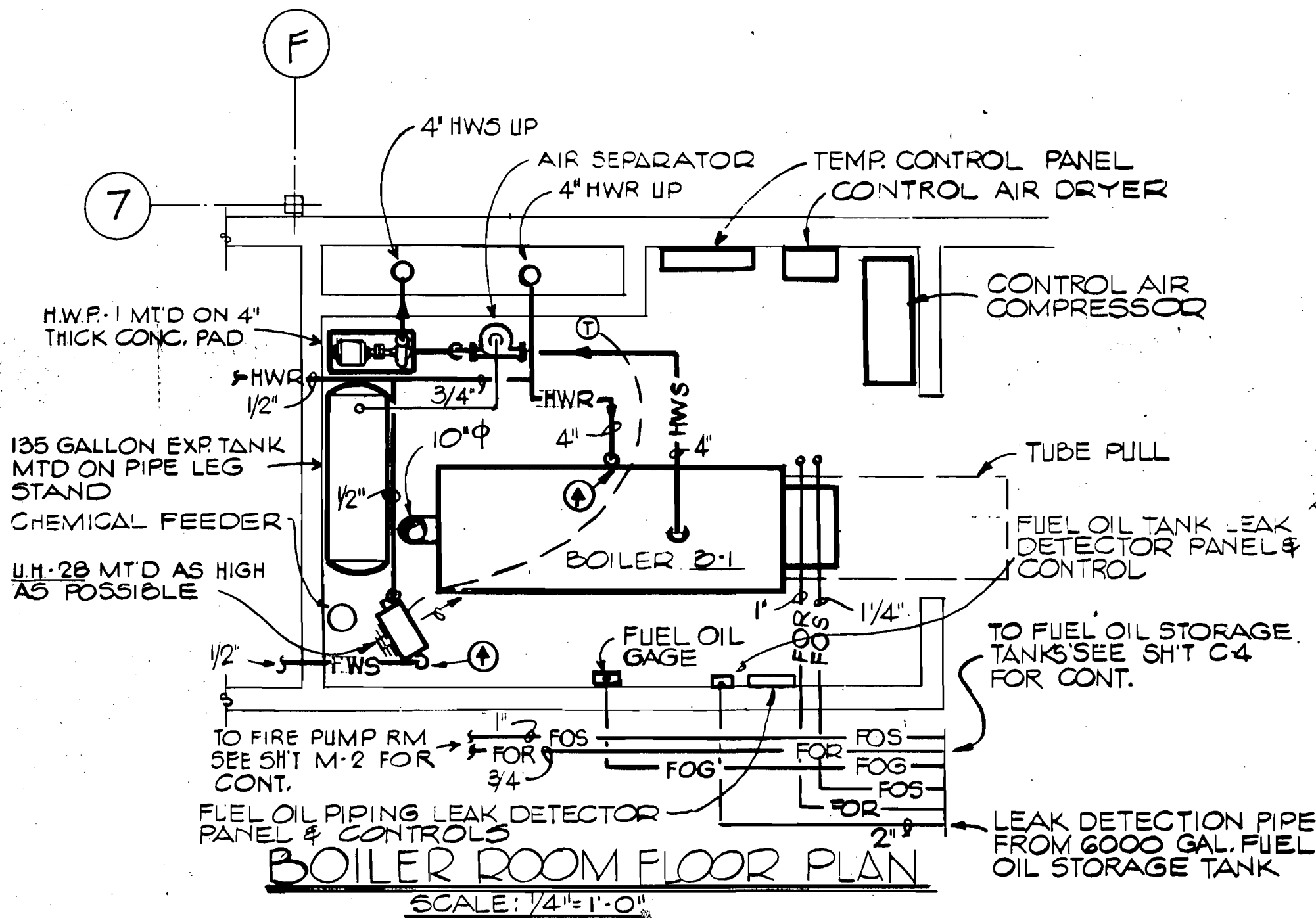
BEST AVAILABLE COPY

TURNING BASIN



LOCATION MAP

SCALE 1" = 500'



DEPARTMENT OF HEALTH, WELFARE
& BIO-ENVIRONMENTAL SERVICES
Bio-Environmental Services Division
Air and Water Pollution Control

July 9, 1986



DER

JUL 15 1986

BAQM

J. B. Emison, Jr., Capt., CEC, USN
Acting Commanding Officer
Mayport Naval Station
Mayport, FL 32233

Re: Boiler B-1, 2.1×10^6 BTU/hr Hotwater boiler

Dear Captain Emison:

The construction permit application for the captioned source has been determined incomplete and has been placed in abeyance pending receipt and acceptance of the following:

- (1) Three additional completed copies of the application (including calculations, plot diagrams, etc.).
- (2) UTM coordinates.
- (3) Boiler specification (i.e. manufacture, design, etc.).
- (4) Calculation showing any contemporaneous emission increases or decreases for the facility for calendar years 1984 and 1985.
- (5) A flow diagram of the boiler and its ancillary equipment as required under section V, item 6 of the application.

A response to the above items should be submitted to the following address on or before August 22, 1986:

Mr. Bill Thomas
Sr. Permitting Engineer
Department of Environmental Regulation
Central Air Permitting Section
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301

Should there be any questions regarding the above, please contact the undersigned at (904) 633-3303.

Very truly yours,

Don Summerfield

Don Summerfield
Assistant Pollution Control Engineer

cc: Mr. Bill Stewart, P.E., DER
BESD File 1920 J

DS/bgm



APPLICATION TRACKING SYSTEM

06/16/86

APPL NO:121383

APPL RECVD:06/12/86 TYPE CODE:AC SUBCODE:99

LAST UPDATE:06/16/86

DER OFFICE RECVD:JAX DER OFFICE TRANSFER TO:___ APPLICATION COMPLETE:___/___/___

DER PROCESSOR:DCBES

APPL STATUS:AC DATE:06/12/86 (ACTIVE/DENIED/WITHDRAWN/EXEMPT/ISSUED/GENERAL)

RELIEF:___ (SSAC/EXEMPTIONS/VARIANCE)

(Y/N) N MANUAL TRACKING

DISTRICT:31 COUNTY:16

(Y/N) N DNR REVIEW REQD?

LAT/LONG:30.23.12/81.24.24

(Y/N) N PUBLIC NOTICE REQD?

BASIN-SEGMENT:___

(Y/N) N GOV BODY LOCAL APPROVAL REQD?

COE #:_____

(Y/N) N LETTER OF INTENT REQD? _ (I/ISSUE D/DENY)

ALT#:_____

PROJECT SOURCE NAME:MAYPORT NAVAL STATION - MASSEY AVE

STREET:MASSEY AVE

CITY:JAX

STATE:FL

ZIP:_____

PHONE:_____

APPLICATION NAME:MAYPORT NAVAL STATION - MASSEY AVE

STREET:MASSEY AVE

CITY:JAX

STATE:FL

ZIP:_____

PHONE:_____

AGENT NAME:MCKIM, HARVEY A., P.E.

STREET:3047 CARTER HILL RD

CITY:MONTGOMERY

STATE:AL

ZIP:36111

PHONE:205-263-6471

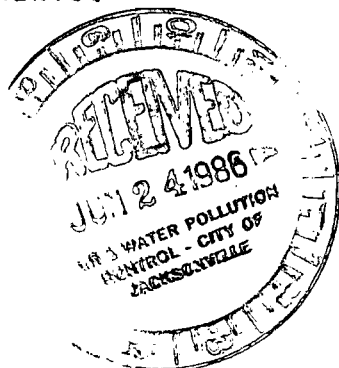
FEE #1 DATE PAID:06/15/86

AMOUNT PAID:00100

RECEIPT NUMBER:00101962

B DATE APPLICANT INFORMED OF NEED FOR PUBLIC NOTICE - - - ___/___/___
 C DATE DER SENT DNR APPLICATION/SENT DNR INTENT - - - ___/___/___
 D DATE DER REQ. COMMENTS FROM GOV. BODY FOR LOCAL APP. -- ___/___/___
 E DATE #1 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - 07/09/86--___/___/___
 E DATE #2 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
 E DATE #3 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
 E DATE #4 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
 E DATE #5 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
 E DATE #6 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
 F DATE GOVERNING BODY REQUESTED SURVEY RESULTS/REPORTS - - ___/___/___
 G DATE FIELD REPORT WAS REQ--REC - - - ___/___/___
 H DATE DNR REVIEW WAS COMPLETED - - - ___/___/___
 I DATE APPLICATION WAS COMPLETE - - - ___/___/___
 J DATE GOVERNING BODY PROVIDED COMMENTS OR OBJECTIONS - - ___/___/___
 K DATE NOTICE OF INTENT WAS SENT--REC TO APPLICANT - - - ___/___/___
 L DATE PUBLIC NOTICE WAS SENT TO APPLICANT - - - ___/___/___
 M DATE PROOF OF PUBLICATION OF PUBLIC NOTICE RECEIVED - - ___/___/___
 N WAIVER DATE BEGIN--END (DAY 90) - - - ___/___/___

COMMENTS:





DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
2155 EAGLE DR., P. O. BOX 10068
CHARLESTON, S. C. 29411-0068

PLEASE ADDRESS REPLY TO THE
COMMANDING OFFICER, NOT TO
THE SIGNER OF THIS LETTER.
REFER TO:

5090
1141/P1

09 JUN 1986

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Department of Health, Welfare and
Bio-Environmental Services
515 West 6th Street
Jacksonville, FL 32206-4397

Dear Sirs:

Please find enclosed our application for an air construction permit for a boiler at Naval Station, Mayport. Also enclosed are the necessary application fees: \$150.00 payable to Tax Collector City of Jacksonville, and \$100.00 payable to Florida Department of Environmental Regulation.

Should any questions arise during the permitting process, please contact Mr. G. M. Goldston at (803) 743-5510.

J. B. EMISON, Jr.
CAPT, CEC, USN
Acting Commanding Officer

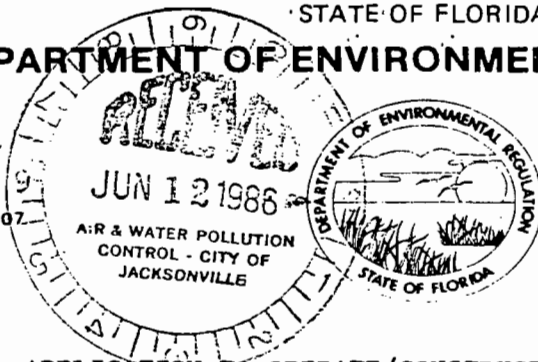
Encl:

- (1) Application for Air
Construction Permit
- (2) Application Fees

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

NORTHEAST DISTRICT

3426 BILLS ROAD
JACKSONVILLE, FLORIDA 32207



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

G. DOUG DUTTON
DISTRICT MANAGER

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Oil-Fired Scotch Marine Boiler ☒ New¹ ☐ Existing¹

APPLICATION TYPE: ☒ Construction ☐ Operation ☐ Modification

COMPANY NAME: Mayport Naval Station COUNTY: Duval

Identify the specific emission point source(s) addressed in this application (i.e. Lime
Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Boiler B-1

SOURCE LOCATION: Street Massey Avenue, Naval Station City Jacksonville

UTM: East _____ North _____
Latitude 30 ° 23 ' 12 "N Longitude 81 ° 24 ' 24 "W

APPLICANT NAME AND TITLE: Commanding Officer

APPLICANT ADDRESS: Mayport Naval Station, Florida

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Mayport Naval Station

I certify that the statements made in this application for a Construction
permit are true, correct and complete to the best of my knowledge and belief. Further,
I agree to maintain and operate the pollution control source and pollution control
facilities in such a manner as to comply with the provision of Chapter 403, Florida
Statutes, and all the rules and regulations of the department and revisions thereof. I
also understand that a permit, if granted by the department, will be non-transferable
and I will promptly notify the department upon sale or legal transfer of the permitted
establishment.

*Attach

NAVY

PORT HUENEME, CALIFORNIA

Check No. 02,062,160

SYMBOL 8352

DO NOT FOLD, SPINDLE OR MUTILATE
KNOW YOUR ENDORSEMENT



PAY TO THE
ORDER OF

United States Treasury 15-51
000

27 MAY 1986

STATE OF FLORIDA, DEPARTMENT
OF ENVIRONMENTAL REGULATIONS

DOLLARS	CENTS
\$ *100	00*

B. PR

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1 See

DER Fd
Effect

SALARIES AND EXPENSES

DRAWN FOR ABOVE OBJECT

00,004,195

11 83523 11

100000005181

TAX COLLECTOR - ROOM 107 - COURTHOUSE

The attached is payment for Air Pollution Application Review fees- US Dept.
of the Navy - Mayport - oil fired Scotch Marine Boiler . Please make
the following transaction:

Transaction Code: 701

Index: 511113


Subject Obj.: 0727

Send receipt to:

Bio-Environmental Services Division
Air Pollution Control
515 W. 6th Street
Jacksonville, FL 32206

Applicant Dept of the Navy/S. Division
Address Naval Facilities Eng. Command
2155 Eagle Dr., P. O. Box 10068
Charleston, SC 29411-0068

NAVY PORT HUENEME, CALIFORNIA Check No. 02,062,391
SYMBOL 8352
JUN 5 '86

 **United States Treasury** 15-51
000

PAY**\$150.00*

TO THE
ORDER OF TAX COLLECTOR OF JACKSONVILLE

SALARIES AND EXPENSES

DRAWN FOR ABOVE OBJECT

****\$150.00***

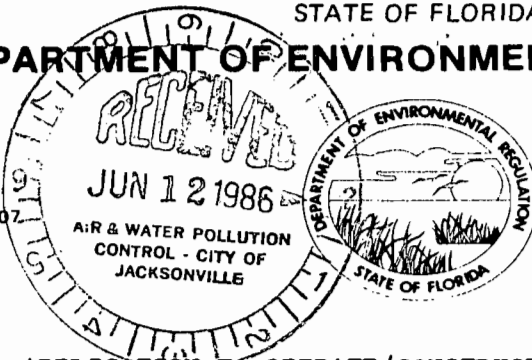
P. Sanchez
U.S.N. DISBURSING OFFICER

DO NOT FOLD, SPINDLE OR MUTILATE
I. DW. YOUR ENDORSE - REQUIRE IDENTIFICATION

835231 000000518 020623911

DEPARTMENT OF ENVIRONMENTAL REGULATION

NORTHEAST DISTRICT

3426 BILLS ROAD
JACKSONVILLE, FLORIDA 32207BOB GRAHAM
GOVERNORVICTORIA J. TSCHINKEL
SECRETARYG. DOUG DUTTON
DISTRICT MANAGER

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Oil-Fired Scotch Marine Boiler ☒ New¹ ☐ Existing¹APPLICATION TYPE: ☒ Construction ☐ Operation ☐ ModificationCOMPANY NAME: Mayport Naval Station COUNTY: DuvalIdentify the specific emission point source(s) addressed in this application (i.e. Lime
Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Boiler B-1SOURCE LOCATION: Street Massey Avenue, Naval Station City Jacksonville

UTM: East _____ North _____

Latitude 30 ° 23 ' 12 "N Longitude 81 ° 24 ' 24 "WAPPLICANT NAME AND TITLE: Commanding OfficerAPPLICANT ADDRESS: Mayport Naval Station, Florida

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Mayport Naval Station

I certify that the statements made in this application for a Construction permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I also understand that a permit, if granted by the department, will be non-transferable and I will promptly notify the department upon sale or legal transfer of the permitted establishment.

*Attach letter of authorization

Signed: J. B. Emison, Jr.

J. B. EMISON, Jr.

CAPT, CFC, USN

Name and Title (Please Type)
Acting Commanding OfficerDate 29 MAY 1986 Telephone No. _____

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that

¹ See Florida Administrative Code Rule 17-2.100(57) and (104)

the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signed

Harvey A. McKim

Harvey A. McKim

Name (Please Type)

SHERLOCK, SMITH AND ADAMS, INC.

Company Name (Please Type)

3047 Carter Hill Road, Montgomery, Alabama 36111

Mailing Address (Please Type)

Florida Registration No. 34036 Date: 5 May 1986 Telephone No. 205 - 263-6481

SECTION II: GENERAL PROJECT INFORMATION

- A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

Installation of a 2100 MBH low pressure hot water boiler for general heating
in warehouse and administrative areas, using No. 2 fuel oil. This facility
will result in full compliance.

- B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction January 1, 1987 Completion of Construction July 1, 1989

- C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

N/A

- D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

N/A

E. Requested permitted equipment operating time: hrs/day 24; days/wk 7; wks/yr 52;
if power plant, hrs/yr _____; if seasonal, describe: _____

F. If this is a new source or major modification, answer the following questions.
(Yes or No)

- | | |
|---|--------------|
| 1. Is this source in a non-attainment area for a particular pollutant? | <u>Yes</u> |
| a. If yes, has "offset" been applied? | <u>No</u> |
| b. If yes, has "Lowest Achievable Emission Rate" been applied? | <u>No</u> |
| c. If yes, list non-attainment pollutants. _____ | <u>Ozone</u> |
| 2. Does best available control technology (BACT) apply to this source?
If yes, see Section VI. | <u>No</u> |
| 3. Does the State "Prevention of Significant Deterioration" (PSD)
requirement apply to this source? If yes, see Sections VI and VII. | <u>No</u> |
| 4. Do "Standards of Performance for New Stationary Sources" (NSPS)
apply to this source? | <u>No</u> |
| 5. Do "National Emission Standards for Hazardous Air Pollutants"
(NESHAP) apply to this source? | <u>No</u> |
| H. Do "Reasonably Available Control Technology" (RACT) requirements apply
to this source? | <u>No</u> |
| a. If yes, for what pollutants? _____ | |
| b. If yes, in addition to the information required in this form,
any information requested in Rule 17-2.650 must be submitted. | |

Attach all supportive information related to any answer of "Yes". Attach any justifi-
cation for any answer of "No" that might be considered questionable.

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)

A. Raw Materials and Chemicals Used in your Process, if applicable: N/A

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		

B. Process Rate, if applicable: (See Section V, Item 1) N/A

1. Total Process Input Rate (lbs/hr): _____
2. Product Weight (lbs/hr): _____

C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

No. 2 Fuel Oil

Name of Contaminant	Emission ¹		Allowed ² Emission Rate per Rule 17-2	Allowable ³ Emission lbs/hr	Potential ⁴ Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Particulate	0.031	0.136	CH17-2.610	Latest Tech.	0.031	0.136	Exhaust Stack
SO ₂	0.656	2.873	CH17-2.610	Latest Tech.	0.656	2.873	Exhaust Stack
SO ₃	0.009	0.040			0.009	0.040	
NO ₂	0.077	0.337	CH17-2.610	Latest Tech.	0.077	0.337	Exhaust Stack
CO	0.308	1.349	CH17-2.160	Latest Tech.	0.308	1.349	Exhaust Stack
THC Nonmethane	0.005	0.022	CH17-2.610	Latest Tech.	0.005	0.022	Exhaust Stack
THC Methane	0.003	0.013			0.003	0.013	

¹See Section V, Item 2.

²Reference applicable emission standards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) - 0.1 pounds per million BTU heat input)

³Calculated from operating rate and applicable standard.

⁴Emission, if source operated without control (See Section V, Item 3).

D. Control Devices: (See Section V, Item 4)

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
None				

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
No. 2 Fuel Oil	15.4 gal/hr.	15.4 gal/hr.	2100 MMBTU/Hr.

*Units: Natural Gas--MMCF/hr; Fuel Oils--gallons/hr; Coal, wood, refuse, other--lbs/hr.

Fuel Analysis:

Percent Sulfur: 0.3 Percent Ash: None

Density: 6.83 lbs/gal Typical Percent Nitrogen: None

Heat Capacity: 19,910 BTU/lb 136,000 BTU/gal

Other Fuel Contaminants (which may cause air pollution): _____

F. If applicable, indicate the percent of fuel used for space heating.

Annual Average 100% Maximum _____

G. Indicate liquid or solid wastes generated and method of disposal.

None

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: 51 ft. Stack Diameter: 0.833 ft.
 Gas Flow Rate: 741 ACFM 394 DSCFM Gas Exit Temperature: 400 °F.
 Water Vapor Content: 15 % Velocity: 22.7 FPS

SECTION IV: INCINERATOR INFORMATION N/A

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
Uncontrolled (lbs/hr)							

Description of Waste _____

Total Weight Incinerated (lbs/hr) _____ Design Capacity (lbs/hr) _____

Approximate Number of Hours of Operation per day _____ day/wk _____ wks/yr. _____

Manufacturer _____

Date Constructed _____ Model No. _____

	Volume (ft) ³	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: _____ ft. Stack Diameter: _____ Stack Temp. _____

Gas Flow Rate: _____ ACFM _____ DSCFM* Velocity: _____ FPS

*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control device: ☐ Cyclone ☐ Wet Scrubber ☐ Afterburner
☐ Other (specify) _____

Brief description of operating characteristics of control devices: _____

Ultimate disposal of any effluent other than that emitted from the stack (scrubber water, ash, etc.):

NOTE: Items 2, 3, 4, 6, 7, 8, and 10 in Section V must be included where applicable.

SECTION V: SUPPLEMENTAL REQUIREMENTS N/A

Please provide the following supplements where required for this application.

1. Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]
2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, design pressure drop, etc.)
5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3 and 5 should be consistent: actual emissions = potential (1-efficiency).
6. An 8 1/2" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
8. An 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.
10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY N/A

- A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?

☐ Yes ☐ No

Contaminant	Rate or Concentration

- B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy)

☐ Yes ☐ No

Contaminant	Rate or Concentration

- C. What emission levels do you propose as best available control technology?

Contaminant	Rate or Concentration

- D. Describe the existing control and treatment technology (if any).

- | | |
|---------------------------|--------------------------|
| 1. Control Device/System: | 2. Operating Principles: |
| 3. Efficiency:* | 4. Capital Costs: |

*Explain method of determining

5. Useful Life:

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant

Rate or Concentration

10. Stack Parameters

a. Height:	ft.	b. Diameter:	ft.
c. Flow Rate:	ACFM	d. Temperature:	°F.
e. Velocity:	FPS		

E. Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary).

1.

a. Control Device:	b. Operating Principles:
c. Efficiency: ¹	d. Capital Cost:
e. Useful Life:	f. Operating Cost:
g. Energy: ²	h. Maintenance Cost:
i. Availability of construction materials and process chemicals:	
j. Applicability to manufacturing processes:	
k. Ability to construct with control device, install in available space, and operate within proposed levels:	

2.

a. Control Device:	b. Operating Principles:
c. Efficiency: ¹	d. Capital Cost:
e. Useful Life:	f. Operating Cost:
g. Energy: ²	h. Maintenance Cost:
i. Availability of construction materials and process chemicals:	

¹Explain method of determining efficiency.

²Energy to be reported in units of electrical power - KWH design rate.

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

3.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

4.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Costs:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

F. Describe the control technology selected:

1. Control Device:

2. Efficiency:¹

3. Capital Cost:

4. Useful Life:

5. Operating Cost:

6. Energy:²

7. Maintenance Cost:

8. Manufacturer:

9. Other locations where employed on similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

¹Explain method of determining efficiency.

²Energy to be reported in units of electrical power - KWH design rate.

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant

Rate or Concentration

(8) Process Rate:¹

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant

Rate or Concentration

(8) Process Rate:¹

10. Reason for selection and description of systems:

¹Applicant must provide this information when available. Should this information not be available, applicant must state the reason(s) why.

SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION

N/A

A. Company Monitored Data

1. _____ no. sites _____ TSP _____ () SO₂* _____ Wind spd/dir

Period of Monitoring _____ / _____ / _____ to _____ / _____ / _____
month day year month day year

Other data recorded _____

Attach all data or statistical summaries to this application.

*Specify bubbler (B) or continuous (C).

2. Instrumentation, Field and Laboratory

- a. Was instrumentation EPA referenced or its equivalent? ☐ Yes ☐ No
- b. Was instrumentation calibrated in accordance with Department procedures?
☐ Yes ☐ No ☐ Unknown

B. Meteorological Data Used for Air Quality Modeling

1. _____ Year(s) of data from _____ / _____ / _____ to _____ / _____ / _____
month day year month day year
2. Surface data obtained from (location) _____
3. Upper air (mixing height) data obtained from (location) _____
4. Stability wind rose (STAR) data obtained from (location) _____

C. Computer Models Used

1. _____ Modified? If yes, attach description.
2. _____ Modified? If yes, attach description.
3. _____ Modified? If yes, attach description.
4. _____ Modified? If yes, attach description.

Attach copies of all final model runs showing input data, receptor locations, and principle output tables.

D. Applicants Maximum Allowable Emission Data

Pollutant	Emission Rate
TSP	_____ grams/sec
SO ₂	_____ grams/sec

E. Emission Data Used in Modeling

Attach list of emission sources. Emission data required is source name, description of point source (on NEDS point number), UTM coordinates, stack data, allowable emissions, and normal operating time.

F. Attach all other information supportive to the PSD review.

- G. Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, taxes, energy, etc.). Include assessment of the environmental impact of the sources.
- H. Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.

C. Gas Flow Rate at Stack = (Flow Rate) (Products of Combustion)

Products of Combustion = 251.2 ft.³/lb, EPA AP-40

Theoretical Air 40% Sat'd @ 60° F. with 20% excess air

$$\text{Gas Flow Rate} = \frac{(107.0 \text{ lb/hr}) (251.2 \text{ ft}^3/\text{lb.})}{3600 \text{ sec/hr.}} = 7.47 \text{ CFS}$$

$$\text{Actual Gas Flow Rate} = \frac{(460 + 400)}{(460 + 60)} (7.47 \text{ CFS}) = 12.35 \text{ CFS}$$

$$\begin{aligned} \text{No. 2 Fuel Oil Flow Rate (DSCFM)} &= \frac{(107.0 \text{ lb/hr.}) (221.07 \text{ ft}^3/\text{lb})}{60 \text{ min/hr.}} \\ &= 394.2 \text{ ft}^3/\text{min.} \end{aligned}$$

$$\begin{aligned} \text{D. Velocity} &= \frac{\text{Quantity}}{\text{Area}} = \frac{12.35 \text{ ft}^3/\text{sec}}{(\pi) (0.833)^2/4} \\ &= 22.7 \text{ FPS} \end{aligned}$$

BOILER INSTALLATION - MAYPORT NAVAL STATION

EMISSION CALCULATIONS

I. No. 2 Fuel Oil

$$A. \text{ Flow Rate} = \frac{\text{Boiler Capacity}}{\text{Heat Capacity}} = \frac{2100 \text{ MBTU/HR}}{136 \text{ MBTU/GAL}} = 15.44 \text{ GAL/HR.}$$

$$\text{Flow Rate} = 15.44 \text{ GAL/HR.} \times 6.83 \text{ LBS/GAL.} = 107.0 \text{ lb/hr.}$$

B. Airborne Contaminant Emissions

<u>Pollutant</u>	<u>Emission Factor*</u> <u>(lb/10³ gal.)</u>	<u>Flow Rate</u> <u>(10³ gal/hr.)</u>	<u>Discharge</u> <u>(lb/hr.)</u>	<u>Discharge</u> <u>(ton/year)</u>
Particulate	2	0.0154	0.031	0.136
SO ₂	42.6	0.0154	0.656	2.873
SO ₃	0.6	0.0154	0.009	0.040
CO	5	0.0154	0.077	0.337
NO ₂	20	0.0154	0.308	1.349
THC Nonmethane	0.34	0.0154	0.005	0.022
Methane	0.216	0.0154	0.003	0.013

*From EPA AP-42 Supplement 13

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

NORTHEAST DISTRICT

3426 BILLS ROAD
JACKSONVILLE, FLORIDA 32207



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY
G. DOUG DUTTON
DISTRICT MANAGER

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Oil-Fired Scotch Marine Boiler ☒ New¹ ☐ Existing¹

APPLICATION TYPE: ☒ Construction ☐ Operation ☐ Modification

COMPANY NAME: Mayport Naval Station COUNTY: Duval

Identify the specific emission point source(s) addressed in this application (i.e. Lime
Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Boiler B-1

SOURCE LOCATION: Street Massey Avenue, Naval Station City Jacksonville

UTM: East 460961m. North 3361442m.

Latitude 30 ° 23 ' 12 "N Longitude 81 ° 24 ' 24 "W

APPLICANT NAME AND TITLE: Commanding Officer

APPLICANT ADDRESS: Mayport Naval Station, Florida

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Mayport Naval Station

I certify that the statements made in this application for a Construction

permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I also understand that a permit, if granted by the department, will be non-transferable and I will promptly notify the department upon sale or legal transfer of the permitted establishment.

*Attach letter of authorization

J. B. EMISON, Jr.
Signed: CAPT. CEC, USN
Acting Commanding Officer

Name and Title (Please Type)

Date 29 MAY 1986 Telephone No. _____

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that

¹ See Florida Administrative Code Rule 17-2.100(57) and (104)

the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signed Harvey A. McKim
Harvey A. McKim

Name (Please Type)

SHERLOCK, SMITH AND ADAMS, INC.

Company Name (Please Type)

3047 Carter Hill Road, Montgomery, Alabama 36111

Mailing Address (Please Type)

Florida Registration No. 34036 Date: 5 May 1986 Telephone No. 205 - 263-6481

SECTION II: GENERAL PROJECT INFORMATION

- A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

Installation of a 2100 MBH low pressure hot water boiler for general heating
in warehouse and administrative areas, using No. 2 fuel oil. This facility
will result in full compliance.

- B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction January 1, 1987 Completion of Construction July 1, 1989

- C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

N/A

- D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

N/A

E. Requested permitted equipment operating time: hrs/day 24; days/wk 7; wks/yr 52;
if power plant, hrs/yr _____; if seasonal, describe: _____

F. If this is a new source or major modification, answer the following questions.
(Yes or No)

- | | |
|---|--------------|
| 1. Is this source in a non-attainment area for a particular pollutant? | <u>Yes</u> |
| a. If yes, has "offset" been applied? | <u>No</u> |
| b. If yes, has "Lowest Achievable Emission Rate" been applied? | <u>No</u> |
| c. If yes, list non-attainment pollutants. _____ | <u>Ozone</u> |
| 2. Does best available control technology (BACT) apply to this source?
If yes, see Section VI. | <u>No</u> |
| 3. Does the State "Prevention of Significant Deterioration" (PSD)
requirement apply to this source? If yes, see Sections VI and VII. | <u>No</u> |
| 4. Do "Standards of Performance for New Stationary Sources" (NSPS)
apply to this source? | <u>No</u> |
| 5. Do "National Emission Standards for Hazardous Air Pollutants"
(NESHAP) apply to this source? | <u>No</u> |
| H. Do "Reasonably Available Control Technology" (RACT) requirements apply
to this source? | <u>No</u> |
| a. If yes, for what pollutants? _____ | |
| b. If yes, in addition to the information required in this form,
any information requested in Rule 17-2.650 must be submitted. | |

Attach all supportive information related to any answer of "Yes". Attach any justifi-
cation for any answer of "No" that might be considered questionable.

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)

A. Raw Materials and Chemicals Used in your Process, if applicable: N/A

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		

B. Process Rate, if applicable: (See Section V, Item 1) N/A

1. Total Process Input Rate (lbs/hr): _____
2. Product Weight (lbs/hr): _____

C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

No. 2 Fuel Oil

Name of Contaminant	Emission ¹		Allowed ² Emission Rate per Rule 17-2	Allowable ³ Emission lbs/hr	Potential ⁴ Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Particulate	0.031	0.136	CH17-2.610	Latest Tech.	0.031	0.136	Exhaust Stack
SO ₂	0.656	2.873	CH17-2.610	Latest Tech.	0.656	2.873	Exhaust Stack
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NO ₂	0.077	0.337	CH17-2.610	Latest Tech.	0.077	0.337	Exhaust Stack
CO	0.308	1.349	CH17-2.160	Latest Tech.	0.308	1.349	Exhaust Stack
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THC Methane	0.003	0.013			0.003	0.013	

¹See Section V, Item 2.

²Reference applicable emission standards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) - 0.1 pounds per million BTU heat input)

³Calculated from operating rate and applicable standard.

⁴Emission, if source operated without control (See Section V, Item 3).

D. Control Devices: (See Section V, Item 4)

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
None				

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
No. 2 Fuel Oil	15.4 gal/hr.	15.4 gal/hr.	2100 MBTU/Hr.

*Units: Natural Gas--MMCF/hr; Fuel Oils--gallons/hr; Coal, wood, refuse, other--lbs/hr.

Fuel Analysis:

Percent Sulfur: 0.3 Percent Ash: None
 Density: 6.83 lbs/gal Typical Percent Nitrogen: None
 Heat Capacity: 19,910 BTU/lb 136,000 BTU/gal
 Other Fuel Contaminants (which may cause air pollution): _____

F. If applicable, indicate the percent of fuel used for space heating.

Annual Average 100% Maximum _____

G. Indicate liquid or solid wastes generated and method of disposal.

None

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: 51 ft. Stack Diameter: 0.833 ft.
 Gas Flow Rate: 741 ACFM 394 DSCFM Gas Exit Temperature: 400 °F.
 Water Vapor Content: 15 % Velocity: 22.7 FPS

SECTION IV: INCINERATOR INFORMATION N/A

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
Uncontrolled (lbs/hr)							

Description of Waste _____

Total Weight Incinerated (lbs/hr) _____ Design Capacity (lbs/hr) _____

Approximate Number of Hours of Operation per day _____ day/wk _____ wks/yr. _____

Manufacturer _____

Date Constructed _____ Model No. _____

	Volume (ft) ³	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: _____ ft. Stack Diameter: _____ Stack Temp. _____

Gas Flow Rate: _____ ACFM _____ DSCFM* Velocity: _____ FPS

*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control device: ☐ Cyclone ☐ Wet Scrubber ☐ Afterburner
☐ Other (specify) _____

Brief description of operating characteristics of control devices: _____

Ultimate disposal of any effluent other than that emitted from the stack (scrubber water, ash, etc.):

NOTE: Items 2, 3, 4, 6, 7, 8, and 10 in Section V must be included where applicable.

SECTION V: SUPPLEMENTAL REQUIREMENTS N/A

Please provide the following supplements where required for this application.

1. Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]
2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, design pressure drop, etc.)
5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3 and 5 should be consistent: actual emissions = potential (1-efficiency).
6. An 8 1/2" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
8. An 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.

10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY N/A

A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?

☐ Yes ☐ No

Contaminant

Rate or Concentration

B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy)

☐ Yes ☐ No

Contaminant

Rate or Concentration

C. What emission levels do you propose as best available control technology?

Contaminant

Rate or Concentration

D. Describe the existing control and treatment technology (if any).

1. Control Device/System:

2. Operating Principles:

3. Efficiency:*

4. Capital Costs:

*Explain method of determining

5. Useful Life:

7. Energy:

9. Emissions:

6. Operating Costs:

8. Maintenance Cost:

Contaminant

Rate or Concentration

10. Stack Parameters

a. Height:	ft.	b. Diameter:	ft.
c. Flow Rate:	ACFM	d. Temperature:	°F.
e. Velocity:	FPS		

E. Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary).

1.
 - a. Control Device:
 - b. Operating Principles:
 - c. Efficiency:¹
 - d. Capital Cost:
 - e. Useful Life:
 - f. Operating Cost:
 - g. Energy:²
 - h. Maintenance Cost:
 - i. Availability of construction materials and process chemicals:
 - j. Applicability to manufacturing processes:
 - k. Ability to construct with control device, install in available space, and operate within proposed levels:

2.
 - a. Control Device:
 - b. Operating Principles:
 - c. Efficiency:¹
 - d. Capital Cost:
 - e. Useful Life:
 - f. Operating Cost:
 - g. Energy:²
 - h. Maintenance Cost:
 - i. Availability of construction materials and process chemicals:

¹Explain method of determining efficiency.

²Energy to be reported in units of electrical power - KWH design rate.

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

3.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

4.

a. Control Device:

b. Operating Principles:

c. Efficiency:¹

d. Capital Costs:

e. Useful Life:

f. Operating Cost:

g. Energy:²

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

F. Describe the control technology selected:

1. Control Device:

2. Efficiency:¹

3. Capital Cost:

4. Useful Life:

5. Operating Cost:

6. Energy:²

7. Maintenance Cost:

8. Manufacturer:

9. Other locations where employed on similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

¹Explain method of determining efficiency.

²Energy to be reported in units of electrical power - KWH design rate.

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant

Rate or Concentration

(8) Process Rate:¹

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant

Rate or Concentration

(8) Process Rate:¹

10. Reason for selection and description of systems:

¹Applicant must provide this information when available. Should this information not be available, applicant must state the reason(s) why.

SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION N/A

A. Company Monitored Data

1. _____ no. sites _____ TSP _____ () SO₂* _____ Wind spd/dir

Period of Monitoring _____ / _____ / _____ to _____ / _____ / _____
month day year month day year

Other data recorded _____

Attach all data or statistical summaries to this application.

*Specify bubbler (B) or continuous (C).

2. Instrumentation, Field and Laboratory

- a. Was instrumentation EPA referenced or its equivalent? ☐ Yes ☐ No
- b. Was instrumentation calibrated in accordance with Department procedures?
☐ Yes ☐ No ☐ Unknown

B. Meteorological Data Used for Air Quality Modeling

1. _____ Year(s) of data from _____ / _____ / _____ to _____ / _____ / _____
month day year month day year
2. Surface data obtained from (location) _____
3. Upper air (mixing height) data obtained from (location) _____
4. Stability wind rose (STAR) data obtained from (location) _____

C. Computer Models Used

1. _____ Modified? If yes, attach description.
2. _____ Modified? If yes, attach description.
3. _____ Modified? If yes, attach description.
4. _____ Modified? If yes, attach description.

Attach copies of all final model runs showing input data, receptor locations, and principle output tables.

D. Applicants Maximum Allowable Emission Data

Pollutant	Emission Rate
TSP	_____ grams/sec
SO ₂	_____ grams/sec

E. Emission Data Used in Modeling

Attach list of emission sources. Emission data required is source name, description of point source (on NEDS point number), UTM coordinates, stack data, allowable emissions, and normal operating time.

F. Attach all other information supportive to the PSD review.

G. Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, taxes, energy, etc.). Include assessment of the environmental impact of the sources.

H. Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.

BOILER INSTALLATION - MAYPORT NAVAL STATION

EMISSION CALCULATIONS

I. No. 2 Fuel Oil

$$A. \text{ Flow Rate} = \frac{\text{Boiler Capacity}}{\text{Heat Capacity}} = \frac{2100 \text{ MBTU/HR}}{136 \text{ MBTU/GAL}} = 15.44 \text{ GAL/HR.}$$

$$\text{Flow Rate} = 15.44 \text{ GAL/HR.} \times 6.83 \text{ LBS/GAL.} = 107.0 \text{ lb/hr.}$$

B. Airborne Contaminant Emissions

<u>Pollutant</u>	<u>Emission Factor*</u> <u>(lb/10³ gal.)</u>	<u>Flow Rate</u> <u>(10³ gal/hr.)</u>	<u>Discharge</u> <u>(lb/hr.)</u>	<u>Discharge</u> <u>(ton/year)</u>
Particulate	2	0.0154	0.031	0.136
SO ₂	42.6	0.0154	0.656	2.873
SO ₃	0.6	0.0154	0.009	0.040
CO	5	0.0154	0.077	0.337
NO ₂	20	0.0154	0.308	1.349
THC Nonmethane	0.34	0.0154	0.005	0.022
Methane	0.216	0.0154	0.003	0.013

*From EPA AP-42 Supplement 13

C. Gas Flow Rate at Stack = (Flow Rate) (Products of Combustion)

Products of Combustion = 251.2 ft.³/lb, EPA AP-40

Theoretical Air 40% Sat'd @ 60° F. with 20% excess air

$$\text{Gas Flow Rate} = \frac{(107.0 \text{ lb/hr}) (251.2 \text{ ft}^3/\text{lb.})}{3600 \text{ sec/hr.}} = 7.47 \text{ CFS}$$

$$\text{Actual Gas Flow Rate} = \frac{(460 + 400)}{(460 + 60)} (7.47 \text{ CFS}) = 12.35 \text{ CFS}$$

$$\begin{aligned} \text{No. 2 Fuel Oil Flow Rate (DSCFM)} &= \frac{(107.0 \text{ lb/hr.}) (221.07 \text{ ft}^3/\text{lb})}{60 \text{ min/hr.}} \\ &= 394.2 \text{ ft}^3/\text{min.} \end{aligned}$$

$$\begin{aligned} \text{D. Velocity} &= \frac{\text{Quantity}}{\text{Area}} = \frac{12.35 \text{ ft}^3/\text{sec}}{(\pi) (0.833)^2/4} \\ &= 22.7 \text{ FPS} \end{aligned}$$

SECTION 15556

HOT WATER HEATING BOILERS (LOW PRESSURE) (OVER 800,000 BTU/HR OUTPUT)

PART 1 - GENERAL

1.1 APPLICABLE PUBLICATIONS: The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

1.1.1 Military Specification (Mil. Spec.):

MIL-B-17452D	Boilers, Steam and Hot Water, High and Low Pressure: Firetube, Packaged Type
MIL-F-18113D	Feeders, Boiler Water Treatment, By-Pass and Compound Receiver Types
MIL-B-18796E	Burner, Single, Oil, Gas and Gas Oil Combination, (400,000 Btu's Per Hour and Over Input Capacity)

1.1.2 American Boiler Manufacturers Association (ABMA) Publication:

1978	Packaged Firetube Ratings
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1.1.3 American Society for Testing and Materials (ASTM) Publications:

A 53-79	Pipe, Steel, Black and Hot-Dipped Zinc Coated (Galvanized) Welded and Seamless for Ordinary Uses
C 592-80	Mineral Fiber Blanket Insulation and Blanket-Type Pipe Insulation (Metal Mesh Covered) (Industrial Type)

1.1.4 American Society of Mechanical Engineers (ASME) Publications:

ASME Boiler and Pressure Vessel Code
and Interpretations:

Section IV - Heating Boilers - 1983

1.1.5 Underwriters' Laboratories (UL) Publications:

UL 726

Oil-Fired Boiler Assemblies

1.1.6 The Hydronics Institute Publication:

Jan 1977

Testing and Rating Standard for
Cast-Iron and Steel Heating Boilers

1.1.7 National Fire Protection Association (NFPA) Publication:

NFPA 85A

Prevention of Furnace Explosions in
Fuel Oil and Natural Gas-Fired Single
Boiler Burner Furnaces

1.1.8 Occupational Safety and Health Administration (OSHA):

1910.219

Mechanical Power Transmission Apparatus

1.2 SUBMITTALS: Submit to the Contracting Officer, who shall forward two complete sets of copies to the Commanding Officer, Southern Division, Naval Facilities Engineering Command, Code 403, for review and approval.

1.2.1 Shop Drawings and Catalog Cuts: Submit shop drawings and catalog information showing plan, elevations, dimensions, capacities, and ratings for the following:

a. Boiler including the following:

- (1) Btu Output
- (2) Gross Efficiency
- (3) ASME Certification
- (4) Allowable Working Pressure
- (5) Boiler Model Number
- (6) Catalog Cut from Manufacturer's current catalog

b. Boiler Trim and Controls

c. Burner

d. Burner Controls

e. Burner Gas Trains

f. Burner Oil Trains

g. Boiler Stack

1.2.2 Manufacturer's Certificate: Submit boiler manufacturer's certificate of boiler performance along with evidence that the burner provided shall be a make, model, and type certified and approved by the manufacturer of the boiler provided.

1.3 GENERAL

1.3.1 General Requirements: General requirements include those specified in Section 15011, "Mechanical General Requirements," and the additional requirements specified herein below.

1.3.2 Description: The hot-water boiler shall be horizontal firetube, multipass, modified scotch-type of the dry or wet-back type, packaged units mounted on a skid-type structural steel base. Each generator shall be equipped with a complete burner and fuel system, a forced or induced draft fan, an automatic electronic control system complete with combustion and flame safeguard controls, firing sequence programmer, safety interlocks, limit controls and central control panel, and such trim and appurtenances as are peculiar to water units as specified herein. All units shall be factory-wired and assembled except for such readily installed appurtenances as safety valves, water columns, and pressure gages. The units shall be complete and ready for operation when connected to water, fuel, and electrical supplies.

1.3.3 Associated Work: Other work associated with hot water heating boiler including insulation of equipment and piping, space temperature controls, painting and marking of equipment, testing and balancing air and water system is covered in other sections of this specification.

1.3.4 Standard Commercial Product for Boiler and Burner: Boiler and burner shall be the manufacturer's standard commercial product. Prior to commencement of construction, the Contractor shall submit a certified written report from the boiler manufacturer to show that substantially identical equipment of comparable capacity has been successfully installed and operated in at least three installations under similar operating conditions. The report shall include the date of installation, type, model, capacity, and address location of installed boiler. Provide evidence of certification by the Hydronics Institute for IBR or SBI ratings of cast-iron and steel boilers respectively, and ABMA Packaged Firetube Boiler ratings for the required capacity. A standard commercial product is a product which has been sold or is currently being offered for sale, on the commercial market through advertisements or manufacturer's catalogs, or brochures.

1.3.5 Service Availability: The Contractor shall submit a certified list of qualified permanent service organizations for boiler, boiler controls, burner, and instrumentation which includes their addresses and qualifications. These service organizations shall be reasonably convenient to the equipment installation and able to render satisfactory service to the equipment on a regular and emergency basis during the warranty period of the contract.

1.3.6 Technical Publications: One commercial manual shall be provided with the boiler. The manual shall include the operation, inspection, and maintenance instructions recommended in the referenced standards and specifications.

1.3.7 Safety Standards:

1.3.7.1 Hot water boilers, burners, and any supplementary control devices, safety interlocks, or limit controls required under this specification shall meet the requirements of the following standards as applicable:

- a. Oil-fired units - UL 726 or NFPA 85A
- b. All units - ASME Boiler and Pressure Vessel Code

1.3.7.2 Guards: Couplings, motor shafts, gears, and other moving parts shall be fully guarded in accordance with OSHA 1910.219. Guards shall be cast iron or expanded metal. Guards shall be removable without disassembling the guarded unit.

PART 2 - PRODUCTS:

2.1 BOILER: Shall conform to the applicable requirements of Mil. Spec. MIL-B-17452, Type III - Low Pressure Hot Water, Class 1 - Standard duty, Group 1 - 400,000 to 2,500,000 Btu/Hr. output.

2.1.1 Design Requirements: The boiler shall have a gross output of 1,412,000 Btu per hour with an efficiency of not less than 80 percent. The boiler shall be designed, tested, and installed in accordance with Section IV (Heating Boilers) of the ASME Boiler and Pressure Vessel Code. Boiler shall be complete with an explosion-relief door. Boiler shall be suitable for installation in the space shown with ample room for opening doors and cleaning and/or removal and replacement of tubes. Boiler shall be painted in accordance with manufacturer's standard requirement. Boiler design working pressure shall be 60 psig. Boiler operating pressure shall be 30 psig. Boiler operating temperature shall be 180 degrees F. Boiler return water temperature shall be 156.5 degrees F.

2.2 BURNERS AND CONTROL EQUIPMENT:

2.2.1 Oil-Fired Power Burner: Shall conform to the requirements of Mil. Spec. MIL-B-18796, Size 1 - 400,000 to 2,500,000 Btu/Hr. input, Class 2 - Light Oil-Fired, Control Sequence IB-automatic recycling with proved igniter. Combustion control system shall be the ON-OFF type. The burner shall be the pressure-atomizing type. Ignition system shall be the direct electric-spark-ignited type. Burner and combustion control equipment shall be designed for firing commercial grade no. 2 fuel oil, and shall be an integral part of the boiler. Burner controls and safety equipment shall conform to the applicable requirements of Mil. Spec. MIL-B-18796.

2.3 BOILER TRIM AND CONTROL EQUIPMENT: Boiler trim and control equipment shall conform to the applicable requirements of Mil. Spec. MIL-B-17452 and MIL-B-18796. The hot water boiler shall be equipped with the trim required under Section IV of the ASME Boiler and Pressure Vessel Code plus the additional appurtenances specified below. All non-recycling control interlocks shall have the reset located on the control interlock itself.

2.3.1 Emergency Disconnect Switch: Shall be provided on the wall near the boiler room entrance to allow rapid and complete shutdown of the boiler in the event of an emergency. Emergency switch shall be a 30 amp fuse-type safety switch. Switch shall be painted red and shall be provided with a label indicating the function of the switch.

2.3.2 Relief Valve: Shall have ample relieving capacity for the full output of the boiler furnished. Relief-valve piping shall conform to ASTM A 53, schedule 40 steel pipe and shall be piped full size to a floor drain.

2.3.3 Pressure Gage: Shall conform to Mil. Spec. MIL-B-17452, 6 inch diameter.

2.3.4 Thermometers: Shall be located to indicate boiler water temperature and boiler return water temperature. Thermometers shall have a scale equivalent to 1.5 times the outlet water temperature.

2.3.5 Drain Tapping: Shall be complete with drain valve and piping to a floor drain.

2.3.6 Water Feeding Device: A water pressure-reducing valve and relief valve, or a combination of the two, shall be provided in the makeup water line to the boiler and shall function to maintain a water pressure of 27 psig in the hot water system. In addition, a separate valved fresh water line not less than one inch in diameter shall be provided for rapid filling of the system.

2.3.6.1 Backflow Preventers: See Section entitled "Plumbing".

2.3.7 Stack Thermometer: Flue gas-dial type thermometer shall have scale calibrated from 150 F to 750 F and shall be mounted in the flue gas outlet.

2.3.8 Air Vent Valve: Shall have screwed connection and stainless steel disk and seats to vent entrapped air from the boiler.

2.3.9 Feedwater Treatment: Shall conform to Mil. Spec. MIL-F-18113, Type II - shot-type feeder (manual feed), Style A - for use with pressure up to 200 psig maximum.

2.3.10 Combustion Regulator: Shall be the adjustable temperature, thermostatic-immersion type and shall function to limit the boiler water temperature to a maximum of 250 degrees F. The control shall actuate the burner through an electric relay system so as to maintain the boiler water temperature within normal prescribed limits at all loads within the rated capacity of the boiler.

2.3.11 High Temperature Limit Switch: Shall be the immersion aquastat type and have a temperature setting above that of the combustion regulator and below that of the lowest relief valve setting. Aquastat shall function to cause a safety shutdown by closing all fuel valves, shutting down the burner equipment, activating a red indicating light, and sounding an alarm in the event that boiler water temperature rises above the operating temperature to the high limit setting. A safety shutdown due to high temperature shall require manual reset before operation can be resumed and shall prevent recycling of the burner equipment.

2.3.12 Differential Pressure Control: Shall be the mercury switch type. Control shall have a main scale and differential adjusting screws at the top of the case and shall have an internal or an external bellows. Control shall be of the type which will open an electric circuit on a drop in pressure below a set minimum. Control shall be set and installed so as to cause a safety shutdown by closing all fuel valves, shutting down the burner equipment, activating a red indicating light, and sounding an alarm in the event that water pressure in the system drops below 25 psig. A safety shutdown due to low water pressure shall require manual reset before operation can be resumed and shall prevent recycling of the burner equipment.

2.3.13 Low-Water Level Cutoff Switch: Shall be of the float or electrode actuated type. Low-water level cutoff shall function to cause a safety shutdown by closing all fuel valves, shutting down the burner equipment, activating a red indicating light, and sounding an alarm in the event that the water level drops below the lowest safe permissible water level established by the boiler manufacturer. A safety shutdown due to low-water level shall require manual reset before operation can be resumed and shall prevent recycling of the burner equipment. The switch may be intergral with or separate from the water feeding device.

2.3.14 Low-Water Flow Interlock: The low-water flow interlock required by Mil. Spec. MIL-B-17452 for hot water boilers will not be required.

2.3.15 Boiler Safety Control Circuits: Boiler safety control circuits, including control circuits for burner and draft fan, shall be single-phase, two-wire one-side grounded, and not over 120 volts. All safety control switching shall be in the ungrounded conductor. Overcurrent protection shall be provided. In addition to circuit grounds, metal parts, which do not carry current shall be grounded by proper grounding connection to the grounding conductor.

2.3.16 Indicating Lights: Each safety interlock requiring a manual reset shall have an individually-labeled indicating light. All non-recycling controls-interlocks shall have the reset located on the control-interlock itself. In lieu of the colors required by Mil. Spec. MIL-B-18796, indicating lights shall have colors as follows:

- a. Amber for ignition on
- b. Blue for draft
- c. Green for main fuel safety shut-off valves open
- d. Red for safety lockout on flame failure and low water pressure, low water level, and high temperature

2.3.17 Alarm Bell: Alarm bell shall be not less than 4 inches in diameter. Bell shall be electrically operated, and a manual disconnect switch shall be provided. Disconnect switch shall be of such type and so wired that switching off the alarm following a safety shutdown will not prevent the alarm from sounding again upon recurrence of a subsequent safety shutdown condition.

2.3.18 Post-Combustion Purge: In addition to the operating sequence required by Mil. Spec. MIL-B-18796, a post-combustion purge shall be provided. Controls and wiring shall be provided as necessary to assure operation of the draft fan for a period of not less than 15 seconds or of sufficient duration to provide four complete air changes in the boiler (whichever is the greater) following shutdown of the burner upon satisfaction of heat demand. Upon completion of the post-combustion purge period, the draft fan shall automatically shut down until the next restart.

2.3.19 Stack: Boiler stack shall be constructed of sheet steel having a thickness of not less than 0.0972 inches. All joints shall be welded. Stack shall be insulated inside the building with 1-1/2 inches of mineral wool conforming to the applicable requirements of ASTM C 592, Class II - for use up to 1200 degrees F. Insulation shall receive a finish coat of finishing cement not less than 3/4 inch thick, trowelled to a smooth finish. Stack shall be provided with stack supports, umbrella collar and cap, and flue transition piece.

2.3.19.1 Prefabricated Stack: At Contractor's option a prefabricated boiler stack may be provided. Stack shall be "U.L." listed, designed for positive pressure, No. 2 fuel oil. Stack shall include all thimbles, supports, collar, roof termination, expansion, etc. The installation shall be installed in complete accordance with the manufacturer's instructions.

2.3.20 Draft: Shall be in accordance with boiler manufacturer recommendations.

2.3.21 Motors and Motor Starters: NEMA MG-1, NEMA ICS 2, and NEMA ICS 6, respectively, with electrical characteristics as indicated. Motors shall be open dripproof or explosion-proof where indicated. Motor starters shall be manual when manually controlled as indicated or magnetic-across-the-line when automatically controlled with general-purpose or explosion-proof enclosure as indicated.

PART 3 - EXECUTION

3.1 INSTALLATION: Arrange work so that minimum storage of equipment and material is required at the project site. All parts shall be accessible for inspection, repair, and renewal. Protect material and equipment from the weather.

3.2 SUPERVISION:

3.2.1 Qualification: Provide the services of a qualified engineer or technician for installation, startup, and tests of equipment as specified below. Submit printed certified qualification resume' of the engineer or technician for approval 10 days before installation. The resume' shall list all applicable experience related to installation, startup, and testing of equipment and applicable factory training and education. Submit a written schedule with date of installation, start-up, test, and checkout of equipment 10 days before installation. After installation of equipment the engineer or technician shall provide a signed certificate or certified written statement that the equipment is installed in accordance with the manufacturer's recommendations. More than one engineer or technician may be provided based on the types of specific equipment. In the event that more than one engineer or technician is provided, a certified resume' for each one shall be submitted. One engineer or technician as appointed by the Contractor shall supervise and be responsible for the overall installation, startup, test, and check out of systems.

3.2.2 Startup and Test: In addition to the requirements above, the startup and test engineer or technician shall be approved by the manufacturer of the specific piece of equipment including boiler, boiler controls, and boiler instrumentation equipment. The startup and test engineer or technician shall remain on the job until the unit has been in successful operation for 3 days, and accepted.

3.2.3 Boiler Cleaning: Before being placed in service, boiler shall be boiled out for a period of 24 hours at a pressure not exceeding 12 psig. The solution to be used in the boiler for the boiling out process shall consist of 10 pounds of trisodium phosphate per 100 gallons of water. Upon completion of boiling out, the boiler shall be flushed out with potable water.

3.3 EQUIPMENT FOUNDATIONS: Locate equipment foundations as shown on the drawings and make sufficient size and weight and of proper design to preclude shifting of equipment under operating conditions or under any abnormal conditions that could be imposed upon the equipment. Foundations shall meet the requirements of the equipment manufacturer. Concrete and grout shall conform to Section 03300, "Cast-In-Place-Concrete."

3.4 EQUIPMENT INSTALLATION: Install equipment in accordance with installation instructions of the manufacturers. Grout equipment mounted on concrete foundations before piping is installed. Install piping in such a manner as not to place a strain on any of the equipment. Do not bolt flanged joints tight unless they match. Grade, anchor, guide, and support all piping without low pockets.

3.5 FIELD TESTS AND INSPECTIONS:

3.5.1 General: The Contractor is responsible for the performance of all inspections and tests as specified herein to demonstrate that the boiler and auxiliary equipment, as installed, are in compliance with contract requirements. Start up and initially operate the system with all components operating. During this time, clean the various strainers until no further accumulation of foreign material occurs. Exercise care so that minimum loss of water occurs when strainers are cleaned. Adjust safety and automatic control instruments as necessary to place them in proper operation and sequence. During startup and during the tests, factory-trained engineers or technicians employed by individual suppliers of such components as the burner, flame safeguard and combustion controls, and other auxiliary equipment shall be present as required, to insure the proper functioning, adjustment, and testing of the individual components and systems. Contractor shall furnish everything required for tests.

3.5.2 Field Tests: The Contractor shall operate the boiler and all appurtenances prior to final testing and shall insure that all necessary adjustments have been made. Submit 10-day advanced written notice to the Contracting Officer indicating the equipment is ready for field testing. Contractor shall provide testing equipment, including gages, thermometers, calorimeter, orsat apparatus, thermocouple pyrometers, fuel flow meters, water meters, and other test apparatus and set up and calibrated prior to the test. Draft and fuel flow may be measured by permanent gages and meters installed under the contract. The tests shall include the following performed, when feasible, in the sequence as listed:

- a. Strength and tightness tests
- b. Standards compliance tests
- c. Combustion tests
- d. Operational tests
- e. Capacity and efficiency tests
- f. Tests of auxiliary equipment

3.5.3 Strength and Tightness Tests: After installation and connection, subject the boiler to an inspection and hydrostatic test to determine that the boiler and appurtenances were not damaged in transit or handling. Hydrostatic test in accordance with the ASME Code with the test pressure applied for a period of 24 hours. This test is in addition to the hydrostatic tests performed at the factory. The hydrostatic test at the site shall be certified by an inspector holding an authorized commission from the National Board of Boiler and Pressure Vessel Inspectors.

3.5.4 Combustion Tests: Test the fuel burning and combustion control equipment with the specified fuel at 3 different loads and average them to meet 80 percent of the full rated load. Tests shall be conducted by factory-trained combustion equipment representative.

3.5.5 Operational Tests: Test the boiler continuously for a period of at least 8 hours to demonstrate proper operability of the combustion control, flame safeguard control, and safety interlocks. Conduct this test after the adjustment of the combustion controls has been completed under the combustion test.

3.5.6 Capacity and Efficiency Tests: Perform the capacity and efficiency tests after satisfactory completion of all tests previously specified herein and after the boiler has been operating continuously for 2 days with no nuisance shutdowns. Conduct tests using the specific fuel. Test in accordance with the heat loss method of the ASME Power Test Code PTC 4.1 and report on the ASME Test Form for Abbreviated Efficiency Test. The duration of the tests shall be sufficient to record all necessary data but in no case be less than 4 hours.

3.5.7 Inspector: The above tests shall be conducted prior to requesting an acceptance inspection by a Southern Division, Naval Facilities Engineering Command Boiler inspector. The Contracting Officer, upon receipt of the notice from the Contractor, shall request the boiler be inspected by Southern Division, Naval Facilities Engineering Command. Ten days advance notice is required for scheduling the inspector to conduct the inspection.

*** END OF SECTION ***

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15556-10